

# IES Road Report

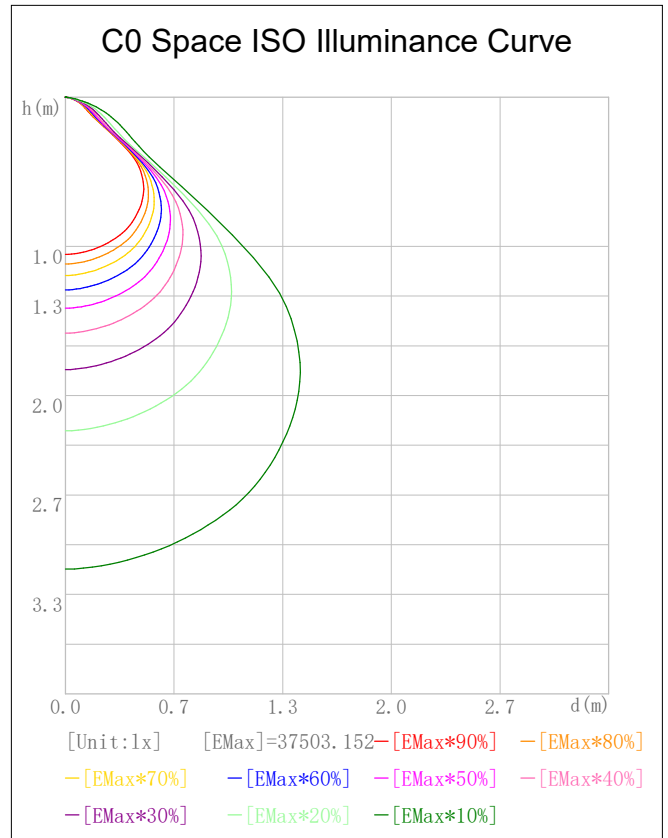
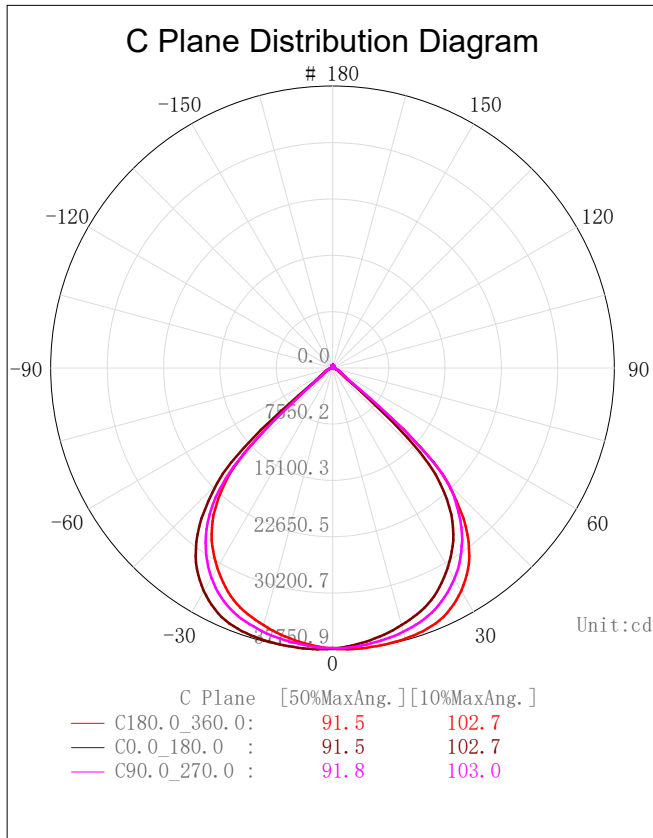
## Road Luminaire Photometric Data

### Description Information

Luminary Name: SHARK 500 FLOOD-LIGHT - 166102	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Date: 2024/01/20
Manufacture: BBT LIGHTING	Shld. Ang( ):	Test Machine:GON-2000
Test Lab:	Frequency(Hz):	Lamp CCT(K): Ra:
Lum. Size(W*L*H):0.175m*0.175m*0.000m	Lum. Area(m2):0.024	Lum. W(kg): 0.000
Test System: C, !	Test Step: C=30.0 ! =1.0	Temp. ("): 25
		Humidity(%): 50.0

### Character Parameter

Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 1000.000	Luminary Flux(lm): 66519.537	Down Lumens&Percent: 66000.304lm 99.22%	
Rated Power(W):	Luminary Efficiency: 6651.95%	Up Lumens&Percent: 519.233lm 0.78%	
Rated Voltage(V):	Luminary EER(lm/W): 147.102	76 Flash Area(m2):	
Tested Power(W): 452.200	Max. Candela(cd): 37750.867	SLI: 0.000	
Lamps' Inside: 1	Max Cand@Ang. ( ): C=180.0 ! =5.0	IES Classification: Type II	
Tested Electrics(V, A, pf):221.1, 2.070, 0.988	Half Peak Angle( ): L=-44.6, R=46.8	Longitudinal Classfct: Very Short	
Lamp Size(W*L*H):0.175m*0.175m*0.000m	Field Angle(10%Imax): 102.7( )	Cutoff Classification: Cutoff	

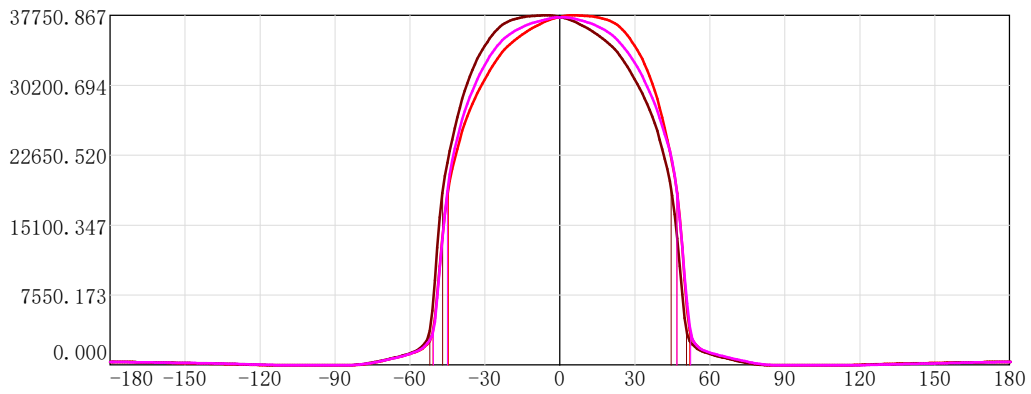
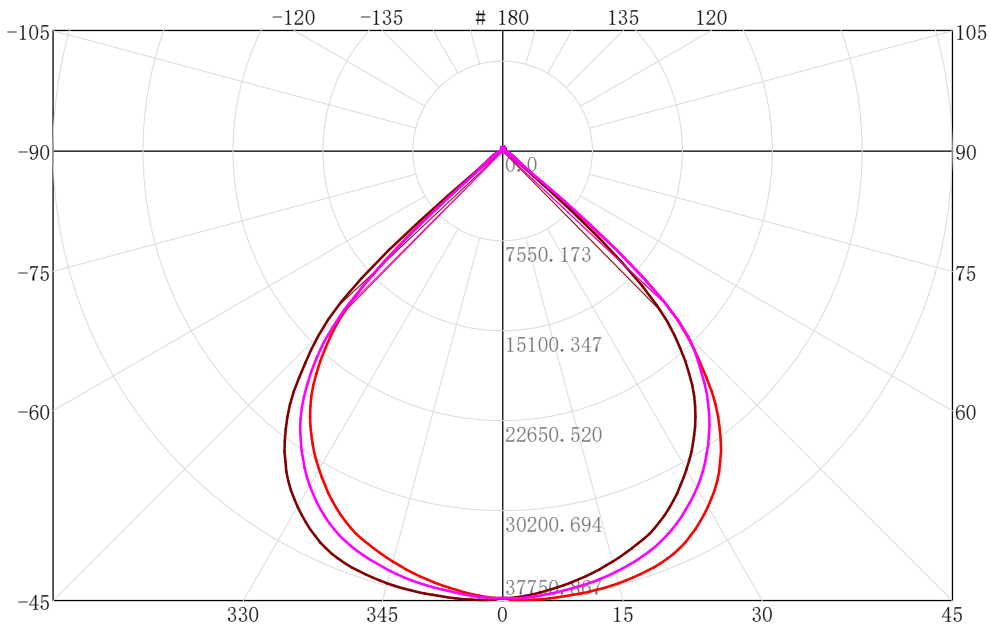


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## 2D Plane Light Intensity Distribution Curve

Lum. Name: SHARK 500 FLOOD-LIGHT - 166102	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture: BBT LIGHTING	Test Machine: GON-2000	Test Date: 2024/01/20

C Plane Distribution Diagram



	C Plane	[50%MaxAng.]	[10%MaxAng.]	Unit:cd
—	C180.0_360.0 :	91.5	102.7	
—	C0.0_180.0 :	91.5	102.7	
—	C90.0_270.0 :	91.8	103.0	

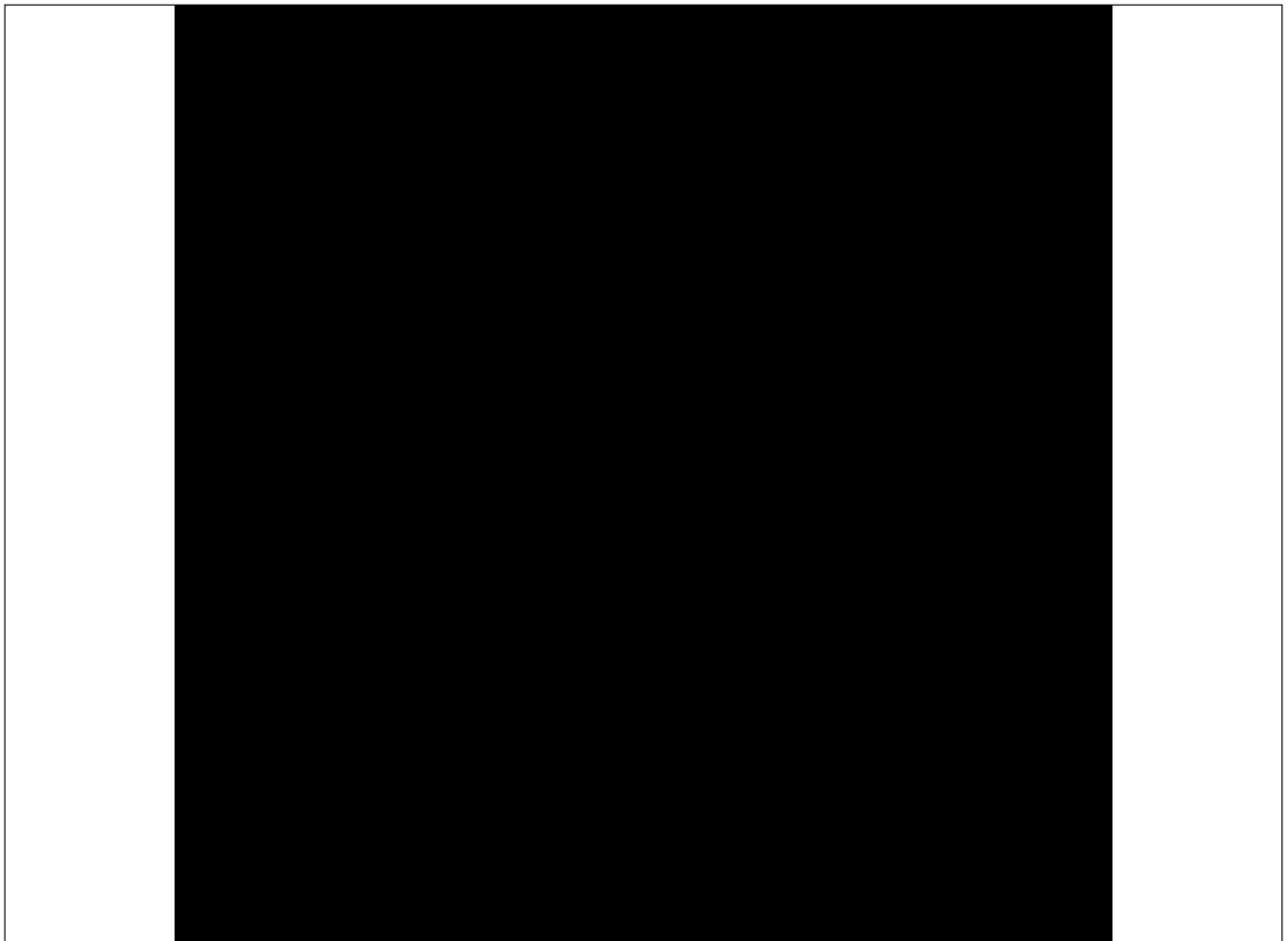
# IES Road Report

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## 3D Light Intensity Distribution Modal

Lum. Name: SHARK 500 FLOOD-LIGHT - 166102	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture: BBT LIGHTING	Test Machine: GON-2000	Test Date: 2024/01/20

## 3D Light Intensity Distribution Modal



Curves: 3D Model — Fixture — Vert. HUD — Hori. HUD —  
View Angles: Orient:0 Tilt:0 Roll:0 Spin:0

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# IES Road Report

## Zonal Flux Tabulation

Zone(! )	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone(! )	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-1.0	35.88	35.88	3.59	3.59	44.0-45.0	1616.38	56871.03	161.64	5687.10
1.0-2.0	107.58	143.46	10.76	14.35	45.0-46.0	1516.32	58387.35	151.63	5838.74
2.0-3.0	179.17	322.62	17.92	32.26	46.0-47.0	1373.95	59761.30	137.39	5976.13
3.0-4.0	250.52	573.14	25.05	57.31	47.0-48.0	1183.58	60944.88	118.36	6094.49
4.0-5.0	321.55	894.69	32.15	89.47	48.0-49.0	952.69	61897.57	95.27	6189.76
5.0-6.0	392.18	1286.88	39.22	128.69	49.0-50.0	706.53	62604.10	70.65	6260.41
6.0-7.0	462.41	1749.29	46.24	174.93	50.0-51.0	486.58	63090.69	48.66	6309.07
7.0-8.0	532.20	2281.49	53.22	228.15	51.0-52.0	329.51	63420.20	32.95	6342.02
8.0-9.0	601.52	2883.01	60.15	288.30	52.0-53.0	242.66	63662.86	24.27	6366.29
9.0-10.0	670.32	3553.33	67.03	355.33	53.0-54.0	202.21	63865.07	20.22	6386.51
10.0-11.0	738.53	4291.86	73.85	429.19	54.0-55.0	179.77	64044.83	17.98	6404.48
11.0-12.0	806.04	5097.89	80.60	509.79	55.0-56.0	163.00	64207.83	16.30	6420.78
12.0-13.0	872.73	5970.62	87.27	597.06	56.0-57.0	149.78	64357.62	14.98	6435.76
13.0-14.0	938.49	6909.12	93.85	690.91	57.0-58.0	139.35	64496.97	13.94	6449.70
14.0-15.0	1003.22	7912.34	100.32	791.23	58.0-59.0	130.75	64627.72	13.07	6462.77
15.0-16.0	1066.85	8979.18	106.68	897.92	59.0-60.0	123.28	64751.00	12.33	6475.10
16.0-17.0	1129.26	10108.44	112.93	1010.84	60.0-61.0	116.50	64867.50	11.65	6486.75
17.0-18.0	1190.40	11298.84	119.04	1129.88	61.0-62.0	110.06	64977.55	11.01	6497.76
18.0-19.0	1250.19	12549.02	125.02	1254.90	62.0-63.0	103.86	65081.41	10.39	6508.14
19.0-20.0	1308.46	13857.48	130.85	1385.75	63.0-64.0	97.88	65179.29	9.79	6517.93
20.0-21.0	1365.06	15222.55	136.51	1522.25	64.0-65.0	92.04	65271.32	9.20	6527.13
21.0-22.0	1419.85	16642.40	141.99	1664.24	65.0-66.0	86.29	65357.61	8.63	6535.76
22.0-23.0	1472.53	18114.94	147.25	1811.49	66.0-67.0	80.58	65438.19	8.06	6543.82
23.0-24.0	1522.91	19637.85	152.29	1963.78	67.0-68.0	74.94	65513.13	7.49	6551.31
24.0-25.0	1570.90	21208.74	157.09	2120.87	68.0-69.0	69.35	65582.48	6.93	6558.25
25.0-26.0	1616.16	22824.91	161.62	2282.49	69.0-70.0	63.71	65646.19	6.37	6564.62
26.0-27.0	1658.61	24483.52	165.86	2448.35	70.0-71.0	58.07	65704.27	5.81	6570.43
27.0-28.0	1698.05	26181.57	169.81	2618.16	71.0-72.0	52.41	65756.68	5.24	6575.67
28.0-29.0	1734.18	27915.75	173.42	2791.57	72.0-73.0	46.79	65803.47	4.68	6580.35
29.0-30.0	1767.05	29682.80	176.70	2968.28	73.0-74.0	41.30	65844.77	4.13	6584.48
30.0-31.0	1796.32	31479.12	179.63	3147.91	74.0-75.0	35.88	65880.65	3.59	6588.06
31.0-32.0	1821.54	33300.66	182.15	3330.07	75.0-76.0	30.53	65911.17	3.05	6591.12
32.0-33.0	1842.74	35143.39	184.27	3514.34	76.0-77.0	25.36	65936.53	2.54	6593.65
33.0-34.0	1859.55	37002.95	185.96	3700.29	77.0-78.0	20.45	65956.98	2.04	6595.70
34.0-35.0	1871.48	38874.43	187.15	3887.44	78.0-79.0	15.87	65972.86	1.59	6597.29
35.0-36.0	1878.55	40752.97	187.85	4075.30	79.0-80.0	11.71	65984.57	1.17	6598.46
36.0-37.0	1880.31	42633.28	188.03	4263.33	80.0-81.0	7.97	65992.54	0.80	6599.25
37.0-38.0	1876.13	44509.41	187.61	4450.94	81.0-82.0	4.70	65997.24	0.47	6599.72
38.0-39.0	1865.36	46374.77	186.54	4637.48	82.0-83.0	2.18	65999.42	0.22	6599.94
39.0-40.0	1846.81	48221.58	184.68	4822.16	83.0-84.0	0.73	66000.15	0.07	6600.01
40.0-41.0	1819.87	50041.45	181.99	5004.14	84.0-85.0	0.15	66000.30	0.02	6600.03
41.0-42.0	1784.57	51826.02	178.46	5182.60	85.0-86.0	0.00	66000.30	0.00	6600.03
42.0-43.0	1741.19	53567.22	174.12	5356.72	86.0-87.0	0.00	66000.30	0.00	6600.03
43.0-44.0	1687.43	55254.65	168.74	5525.46	87.0-88.0	0.00	66000.30	0.00	6600.03

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## Zonal Flux Tabulation - (Cont.)

Zone(! )	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone(! )	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
88.0-89.0	0.00	66000.30	0.00	6600.03	132.0-133.0	9.84	66095.84	0.98	6609.58
89.0-90.0	0.00	66000.30	0.00	6600.03	133.0-134.0	10.19	66106.03	1.02	6610.60
90.0-91.0	0.00	66000.30	0.00	6600.03	134.0-135.0	10.50	66116.53	1.05	6611.65
91.0-92.0	0.00	66000.30	0.00	6600.03	135.0-136.0	10.77	66127.29	1.08	6612.73
92.0-93.0	0.00	66000.30	0.00	6600.03	136.0-137.0	11.04	66138.33	1.10	6613.83
93.0-94.0	0.00	66000.30	0.00	6600.03	137.0-138.0	11.28	66149.61	1.13	6614.96
94.0-95.0	0.00	66000.30	0.00	6600.03	138.0-139.0	11.49	66161.09	1.15	6616.11
95.0-96.0	0.00	66000.30	0.00	6600.03	139.0-140.0	11.68	66172.77	1.17	6617.28
96.0-97.0	0.00	66000.30	0.00	6600.03	140.0-141.0	11.82	66184.59	1.18	6618.46
97.0-98.0	0.00	66000.30	0.00	6600.03	141.0-142.0	11.93	66196.52	1.19	6619.65
98.0-99.0	0.00	66000.30	0.00	6600.03	142.0-143.0	12.02	66208.55	1.20	6620.85
99.0-100.0	0.00	66000.30	0.00	6600.03	143.0-144.0	12.07	66220.62	1.21	6622.06
100.0-101.0	0.00	66000.30	0.00	6600.03	144.0-145.0	12.08	66232.70	1.21	6623.27
101.0-102.0	0.00	66000.30	0.00	6600.03	145.0-146.0	12.07	66244.77	1.21	6624.48
102.0-103.0	0.00	66000.30	0.00	6600.03	146.0-147.0	12.04	66256.81	1.20	6625.68
103.0-104.0	0.00	66000.30	0.00	6600.03	147.0-148.0	11.99	66268.81	1.20	6626.88
104.0-105.0	0.00	66000.30	0.00	6600.03	148.0-149.0	11.92	66280.73	1.19	6628.07
105.0-106.0	0.00	66000.30	0.00	6600.03	149.0-150.0	11.83	66292.55	1.18	6629.26
106.0-107.0	0.00	66000.30	0.00	6600.03	150.0-151.0	11.73	66304.28	1.17	6630.43
107.0-108.0	0.00	66000.30	0.00	6600.03	151.0-152.0	11.62	66315.91	1.16	6631.59
108.0-109.0	0.00	66000.30	0.00	6600.03	152.0-153.0	11.52	66327.43	1.15	6632.74
109.0-110.0	0.00	66000.30	0.00	6600.03	153.0-154.0	11.42	66338.85	1.14	6633.88
110.0-111.0	0.00	66000.30	0.00	6600.03	154.0-155.0	11.30	66350.15	1.13	6635.02
111.0-112.0	0.01	66000.31	0.00	6600.03	155.0-156.0	11.16	66361.31	1.12	6636.13
112.0-113.0	0.09	66000.41	0.01	6600.04	156.0-157.0	10.99	66372.30	1.10	6637.23
113.0-114.0	0.28	66000.68	0.03	6600.07	157.0-158.0	10.80	66383.10	1.08	6638.31
114.0-115.0	0.53	66001.21	0.05	6600.12	158.0-159.0	10.58	66393.68	1.06	6639.37
115.0-116.0	0.80	66002.01	0.08	6600.20	159.0-160.0	10.33	66404.01	1.03	6640.40
116.0-117.0	1.09	66003.09	0.11	6600.31	160.0-161.0	10.06	66414.07	1.01	6641.41
117.0-118.0	1.41	66004.50	0.14	6600.45	161.0-162.0	9.76	66423.82	0.98	6642.38
118.0-119.0	1.79	66006.30	0.18	6600.63	162.0-163.0	9.43	66433.25	0.94	6643.32
119.0-120.0	2.26	66008.55	0.23	6600.86	163.0-164.0	9.08	66442.33	0.91	6644.23
120.0-121.0	2.85	66011.40	0.28	6601.14	164.0-165.0	8.71	66451.04	0.87	6645.10
121.0-122.0	3.54	66014.94	0.35	6601.49	165.0-166.0	8.31	66459.35	0.83	6645.93
122.0-123.0	4.24	66019.18	0.42	6601.92	166.0-167.0	7.88	66467.22	0.79	6646.72
123.0-124.0	4.95	66024.13	0.49	6602.41	167.0-168.0	7.41	66474.63	0.74	6647.46
124.0-125.0	5.66	66029.79	0.57	6602.98	168.0-169.0	6.91	66481.55	0.69	6648.15
125.0-126.0	6.35	66036.14	0.64	6603.61	169.0-170.0	6.39	66487.94	0.64	6648.79
126.0-127.0	6.99	66043.13	0.70	6604.31	170.0-171.0	5.85	66493.79	0.59	6649.38
127.0-128.0	7.58	66050.71	0.76	6605.07	171.0-172.0	5.29	66499.09	0.53	6649.91
128.0-129.0	8.13	66058.84	0.81	6605.88	172.0-173.0	4.72	66503.80	0.47	6650.38
129.0-130.0	8.63	66067.47	0.86	6606.75	173.0-174.0	4.12	66507.92	0.41	6650.79
130.0-131.0	9.07	66076.54	0.91	6607.65	174.0-175.0	3.51	66511.44	0.35	6651.14
131.0-132.0	9.46	66086.00	0.95	6608.60	175.0-176.0	2.90	66514.33	0.29	6651.43

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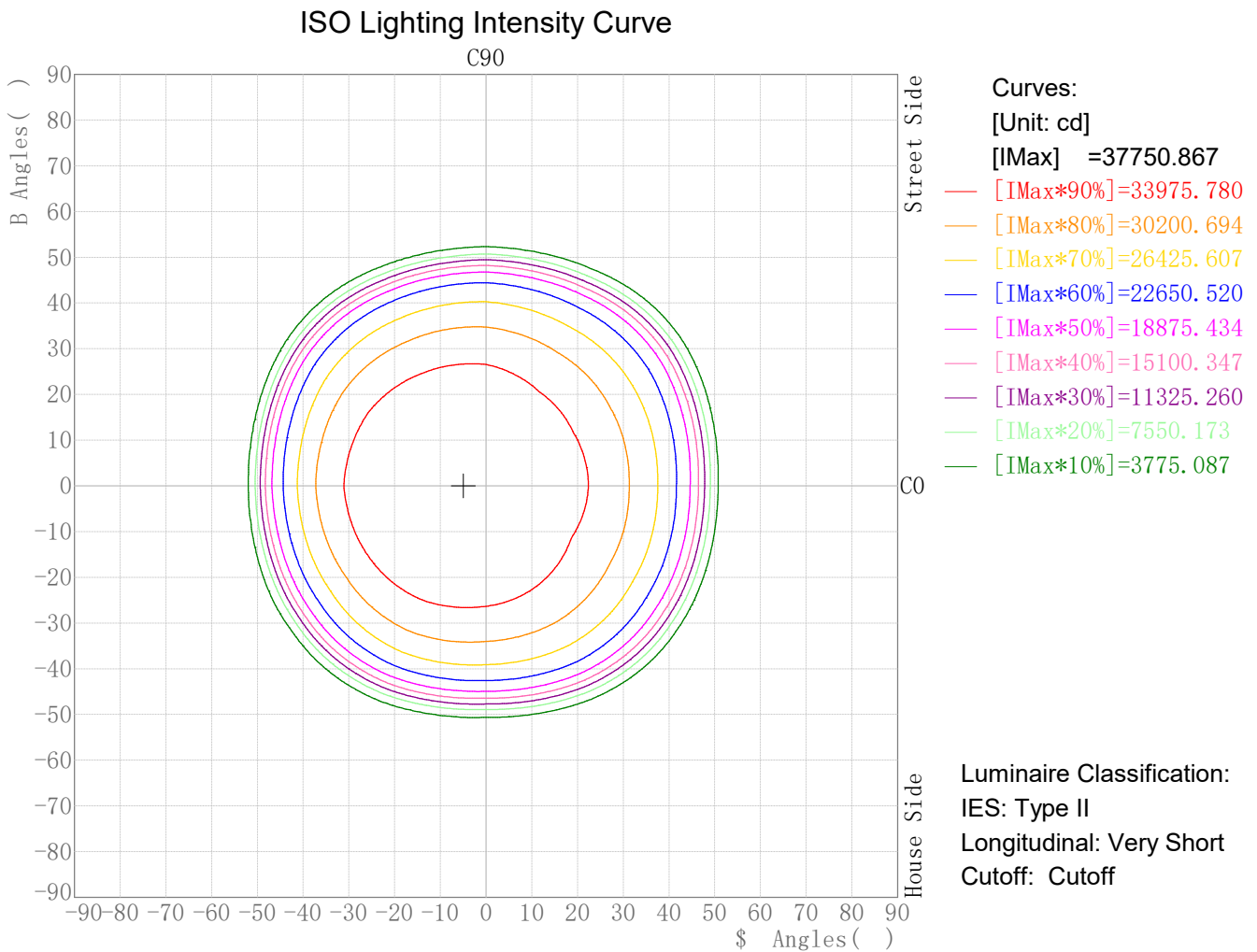
## Zonal Flux Tabulation - (Cont.)

Zone( ! )	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
176.0-177.0	2.27	66516.60	0.23	6651.66
177.0-178.0	1.63	66518.23	0.16	6651.82
178.0-179.0	0.98	66519.21	0.10	6651.92
179.0-180.0	0.33	66519.54	0.03	6651.95

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## Rectangle ISO Lighting Intensity Diagram

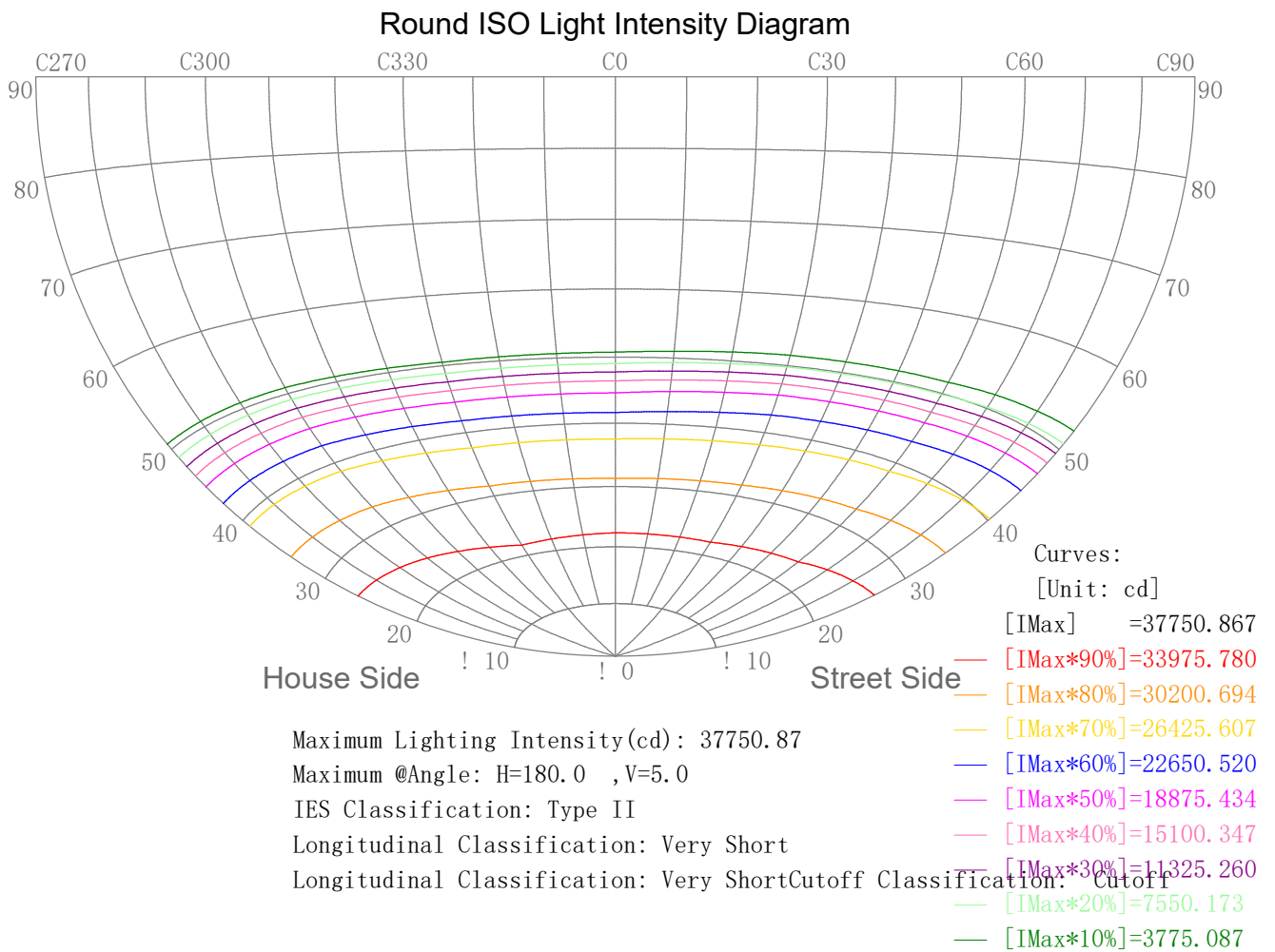
Lum. Name: SHARK 500 FLOOD-LIGHT - 166102	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture: BBT LIGHTING	Test Machine: GON-2000	Test Date: 2024/01/20



Maximum Light Intensity(cd): 37750.87  
Maximum Cand.@Angle: H=-5.0 ,V=0.0

## Round ISO Lighting Intensity Diagram

Lum. Name: SHARK 500 FLOOD-LIGHT - 166102	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture: BBT LIGHTING	Test Machine: GON-2000	Test Date: 2024/01/20



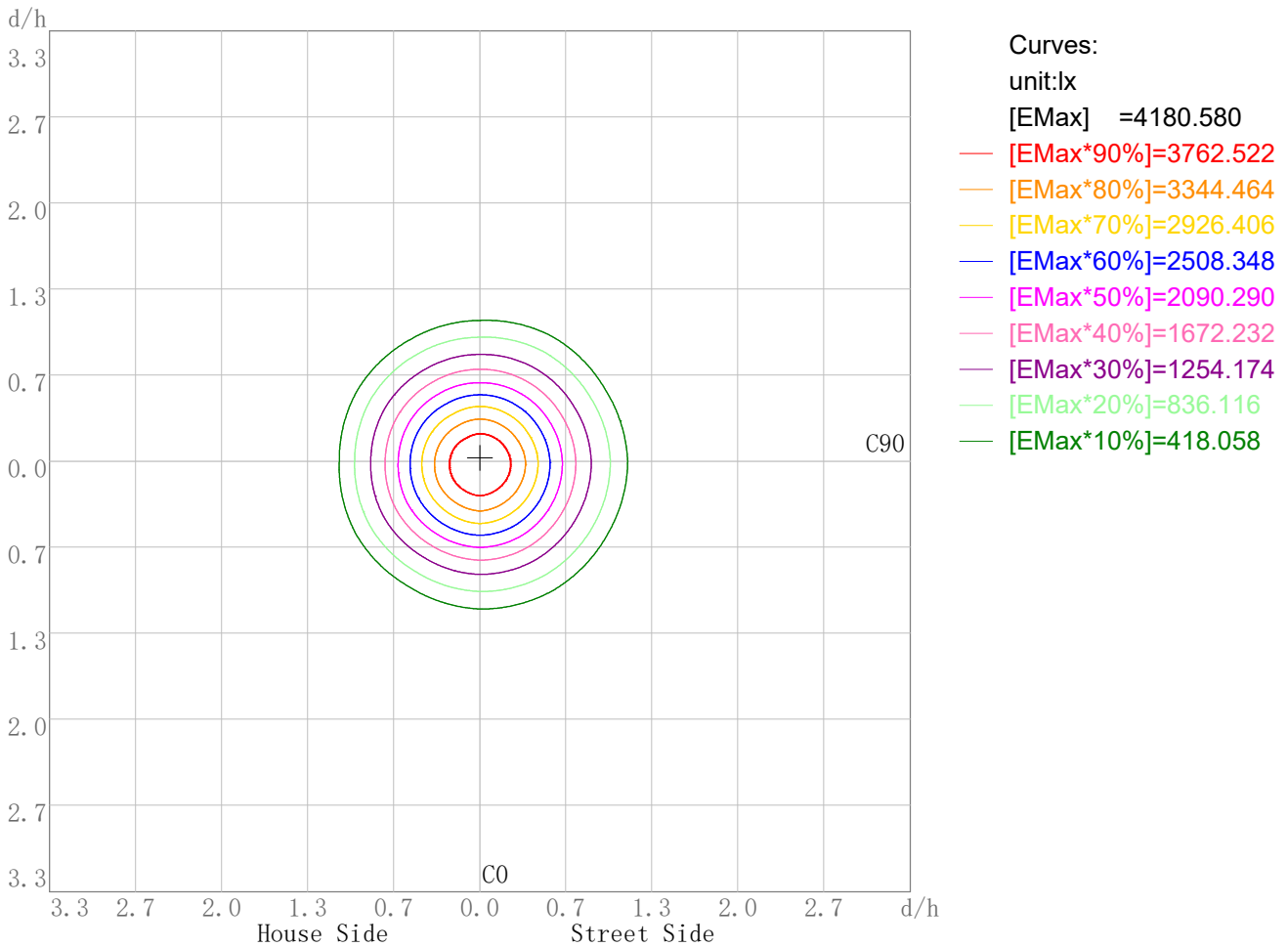


# IES Road Report

## Plane ISO-Illuminance Diagram

Lum. Name: SHARK 500 FLOOD-LIGHT - 166102	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture: BBT LIGHTING	Test Machine: GON-2000	Test Date: 2024/01/20

Plane ISO-Illuminance Curve



Working Plane Luminaire Mounting Height(m): 3.00  
 Working Plane Maximum Illuminance(lx): 4180.58  
 Working Plane Maximum Illuminance Position(d/h):H0.0 V-0.0

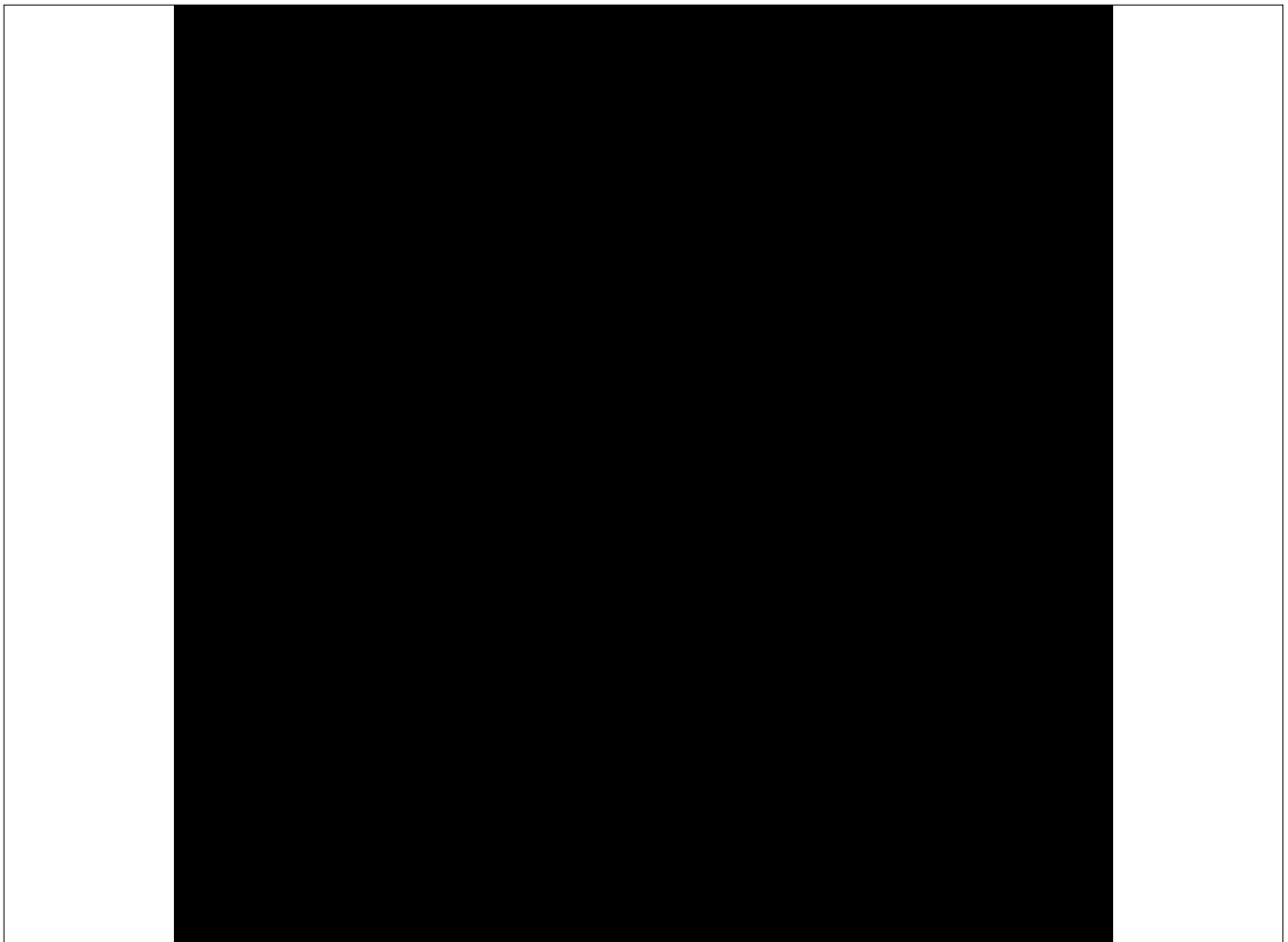
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## 3D Plane ISO Illuminance Diagram

Lum. Name: SHARK 500 FLOOD-LIGHT - 166102	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture: BBT LIGHTING	Test Machine: GON-2000	Test Date: 2024/01/20

### 3D Plane Illuminance Modal



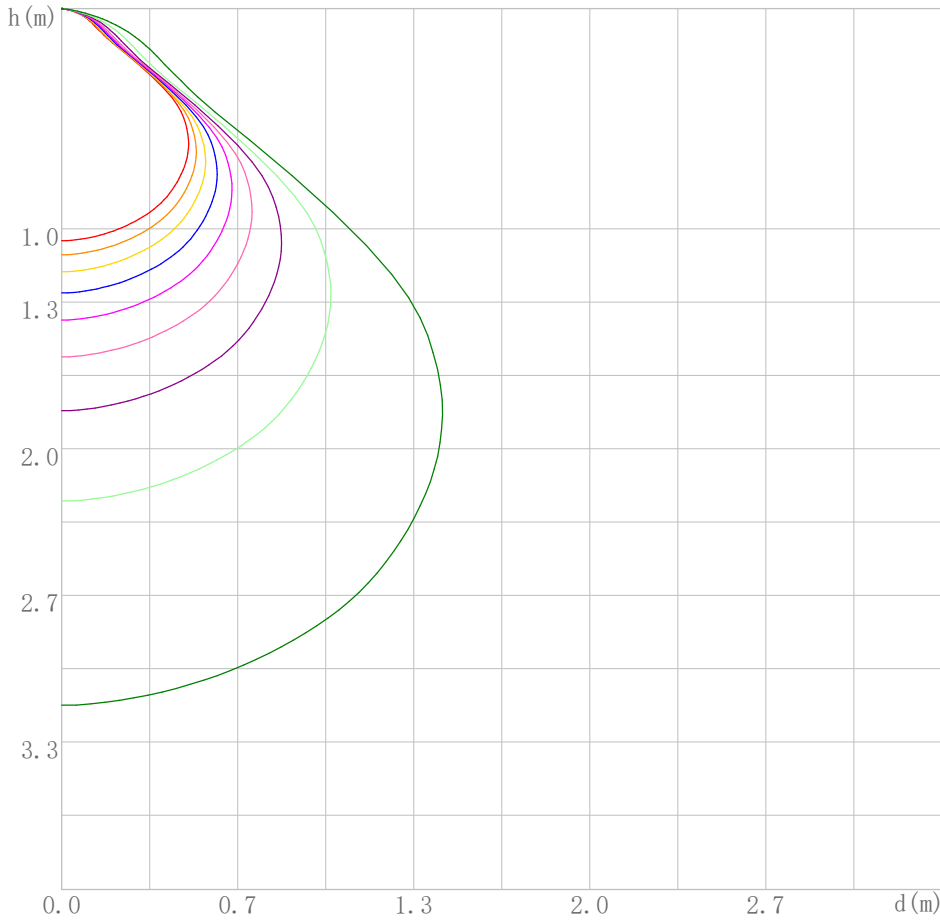
Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —  
View Angles(deg): 0    Height(m): 3.0    Distance(m): 10.0

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**Space ISO Illuminance Diagram**

Lum. Name: SHARK 500 FLOOD-LIGHT - 166102	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture: BBT LIGHTING	Test Machine: GON-2000	Test Date: 2024/01/20

**Space ISO Illuminance Curve**



- Curves:**  
[Unit: lx]  
[EMax] = 37503.152
- [EMax\*90%]=33752.837
  - [EMax\*80%]=30002.522
  - [EMax\*70%]=26252.206
  - [EMax\*60%]=22501.891
  - [EMax\*50%]=18751.576
  - [EMax\*40%]=15001.261
  - [EMax\*30%]=11250.946
  - [EMax\*20%]=7500.630
  - [EMax\*10%]=3750.315

Space Plane Maximum Illuminance and @Angle:37503.15lx,1.0deg  
Plane Maximum Lighting Intensity and @Angle:37520.293cd,0deg

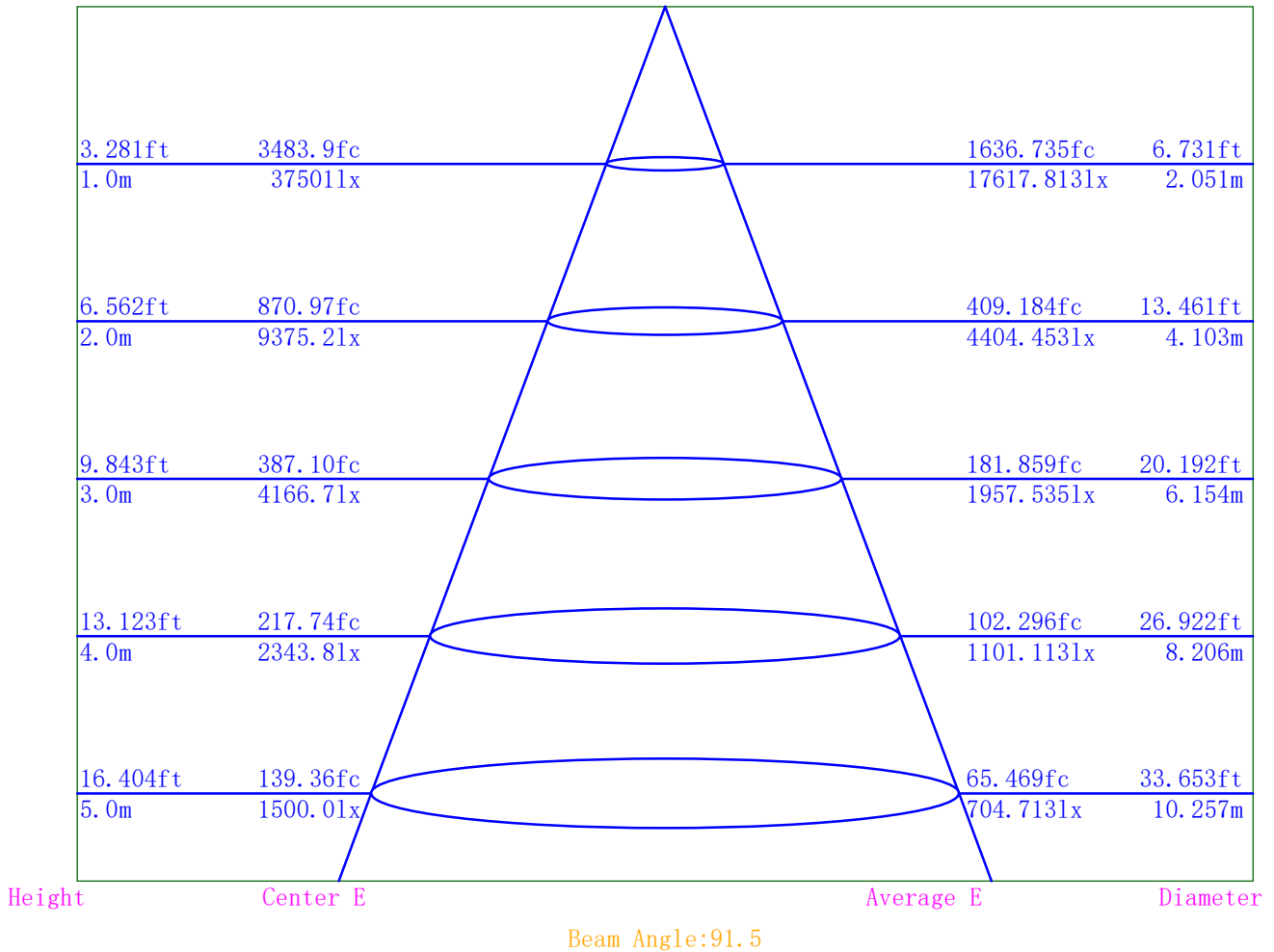
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# IES Road Report

## Illuminance-Distance Diagram

Lum. Name: SHARK 500 FLOOD-LIGHT - 166102	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture: BBT LIGHTING	Test Machine: GON-2000	Test Date: 2024/01/20

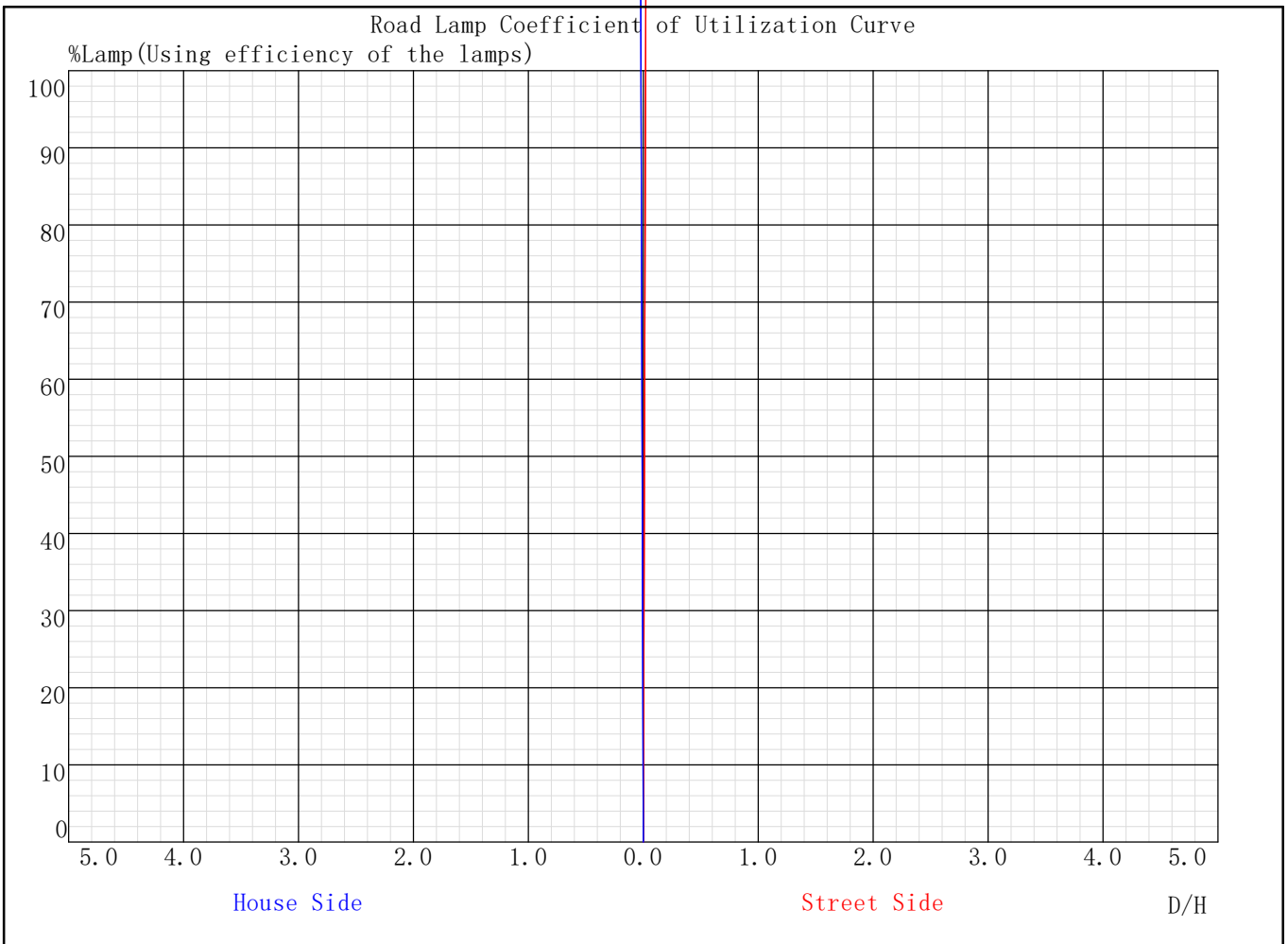
### Illuminance-Distance Curve



# IES Road Report

## Road Coefficient of Utilization Curves

Lum. Name: SHARK 500 FLOOD-LIGHT - 166102	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture: BBT LIGHTING	Test Machine: GON-2000	Test Date: 2024/01/20



Tilt Angles: Ang1(deg): 0 Ang2(deg): 5

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## Candela Tabulation

V/H	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0	C300.0	C330.0
0.0	37500.7	37500.7	37500.7	37500.7	37500.7	37500.7	37500.7	37500.7	37500.7	37500.7	37500.7	37500.7
1.0	37520.3	37397.9	37465.5	37553.1	37527.2	37401.1	37640.3	37480.2	37506.1	37540.1	37466.5	37292.3
2.0	37449.9	37346.8	37435.6	37546.1	37544.0	37440.4	37687.5	37507.7	37514.8	37515.5	37419.9	37228.0
3.0	37365.7	37281.3	37381.8	37523.5	37545.1	37471.8	37725.1	37524.3	37509.0	37474.7	37362.5	37144.9
4.0	37269.8	37202.6	37319.8	37487.5	37527.4	37486.7	37746.1	37525.0	37485.9	37419.8	37286.8	37048.0
5.0	37160.9	37110.8	37242.3	37436.3	37498.1	37487.8	37750.9	37510.8	37453.1	37347.1	37191.5	36946.6
6.0	37045.1	37010.0	37160.4	37375.1	37462.3	37476.1	37747.9	37491.1	37410.6	37273.4	37099.0	36834.9
7.0	36923.5	36907.9	37068.6	37311.6	37424.0	37459.6	37738.2	37468.6	37363.6	37204.5	37001.0	36723.7
8.0	36792.0	36793.7	36969.2	37238.7	37385.2	37438.0	37724.3	37445.4	37318.7	37138.1	36905.1	36608.5
9.0	36658.2	36668.3	36860.7	37170.6	37342.8	37417.0	37712.2	37421.0	37276.9	37067.8	36808.9	36487.6
10.0	36518.1	36532.6	36744.5	37090.5	37301.9	37393.3	37697.0	37392.9	37234.6	36996.8	36706.8	36358.9
11.0	36363.6	36385.0	36614.0	37006.7	37249.8	37365.3	37682.8	37363.7	37196.1	36920.8	36601.0	36222.9
12.0	36198.8	36225.0	36465.1	36920.1	37189.1	37328.2	37661.9	37331.5	37149.6	36832.8	36481.0	36073.8
13.0	36031.6	36056.3	36309.4	36819.4	37108.9	37286.2	37630.5	37294.4	37097.3	36730.9	36345.6	35908.8
14.0	35846.1	35871.0	36139.4	36706.1	37013.8	37231.4	37591.8	37242.7	37027.8	36615.2	36199.1	35738.4
15.0	35666.0	35673.4	35956.3	36587.0	36910.4	37163.4	37542.0	37178.1	36945.0	36484.5	36035.6	35548.2
16.0	35470.4	35475.4	35766.7	36451.4	36788.6	37082.2	37483.9	37091.0	36850.9	36343.8	35855.1	35350.8
17.0	35268.8	35260.8	35561.4	36305.1	36647.1	36978.4	37418.8	36987.8	36731.4	36199.7	35669.9	35144.4
18.0	35067.2	35037.0	35356.2	36154.1	36492.6	36862.5	37341.0	36865.8	36593.5	36048.2	35468.6	34921.6
19.0	34852.7	34813.5	35136.2	35986.6	36315.0	36733.3	37254.1	36730.8	36439.4	35883.0	35262.4	34684.1
20.0	34622.7	34567.7	34901.2	35800.0	36117.8	36581.0	37157.5	36570.0	36264.2	35714.8	35051.8	34436.1
21.0	34379.8	34309.8	34665.1	35596.8	35919.2	36410.2	37037.8	36394.7	36065.2	35518.1	34819.9	34173.4
22.0	34097.5	34049.8	34403.5	35359.9	35695.2	36231.0	36901.1	36201.0	35852.5	35301.5	34579.1	33905.3
23.0	33783.0	33761.5	34129.1	35101.3	35459.3	36028.6	36719.6	35983.6	35609.1	35044.9	34330.1	33614.6
24.0	33444.7	33452.7	33841.7	34810.8	35213.8	35808.6	36496.6	35751.3	35355.5	34760.6	34051.9	33308.6
25.0	33063.9	33131.0	33516.2	34499.1	34941.1	35577.9	36245.8	35505.1	35077.8	34452.9	33750.7	32990.2
26.0	32654.8	32765.3	33166.4	34175.0	34645.2	35315.4	35939.2	35233.8	34776.3	34104.2	33437.5	32635.4
27.0	32236.6	32385.6	32807.1	33815.7	34338.0	35025.8	35614.5	34946.9	34457.3	33721.4	33081.3	32256.4
28.0	31783.1	31963.6	32407.8	33435.0	33990.7	34716.3	35251.9	34612.1	34110.0	33321.0	32688.9	31865.3
29.0	31333.8	31519.9	31986.0	33045.8	33607.4	34359.5	34861.6	34240.2	33725.3	32878.1	32270.9	31435.1
30.0	30852.1	31074.1	31550.2	32623.7	33206.4	33985.5	34460.0	33831.9	33318.8	32409.5	31806.6	30977.5
31.0	30350.8	30586.3	31078.1	32174.9	32751.6	33552.7	34021.6	33361.2	32856.2	31922.8	31331.7	30511.1
32.0	29852.3	30080.2	30596.6	31700.9	32257.1	33076.2	33544.4	32828.4	32348.7	31381.3	30812.1	30002.7
33.0	29325.9	29577.1	30076.5	31178.3	31736.5	32576.3	33039.6	32255.6	31809.0	30801.9	30270.6	29467.9
34.0	28755.5	29042.4	29527.5	30623.0	31154.2	32007.4	32467.7	31610.1	31209.9	30214.0	29720.0	28912.2
35.0	28170.6	28461.7	28968.0	30052.2	30545.8	31399.0	31829.2	30915.1	30557.8	29578.0	29119.2	28289.1
36.0	27522.8	27866.9	28346.7	29450.3	29893.0	30763.7	31153.3	30200.6	29886.4	28929.4	28465.9	27626.4
37.0	26820.7	27212.7	27676.7	28843.3	29220.9	30060.9	30397.4	29416.1	29155.6	28195.4	27792.4	26935.3
38.0	26087.4	26512.0	26989.0	28169.9	28531.4	29313.2	29601.7	28577.7	28386.2	27391.4	27041.4	26160.5
39.0	25265.9	25782.9	26216.4	27431.6	27777.7	28537.6	28724.7	27705.9	27528.6	26527.8	26217.0	25322.0
40.0	24326.8	24985.2	25382.7	26652.7	26942.7	27676.7	27777.0	26726.9	26583.5	25552.3	25351.9	24439.7
41.0	23326.7	24137.9	24545.4	25787.1	26069.0	26731.5	26734.2	25633.2	25568.6	24500.4	24375.4	23467.1
42.0	22253.3	23278.3	23681.7	24897.0	25133.1	25737.1	25544.2	24490.9	24417.5	23386.2	23299.6	22430.2
43.0	21167.0	22360.0	22831.4	24046.0	24186.5	24664.0	24316.7	23241.4	23165.5	22094.6	22143.6	21291.6



# IES Road Report

## Candela Tabulation - (Cont.)

V/H	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0	C300.0	C330.0
88.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.8	0.0
113.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	5.5	7.3	5.0
114.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.3	8.4	11.7	13.1	10.5
115.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	6.8	12.6	18.0	19.1	17.0
116.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	12.8	19.2	22.2	24.8	23.6
117.0	0.0	0.0	0.0	0.0	0.0	0.0	17.0	18.5	24.8	28.4	32.3	30.4
118.0	2.4	0.0	0.0	0.0	0.0	0.0	23.9	25.0	32.2	36.1	38.8	37.9
119.0	6.9	2.4	0.0	0.0	0.0	0.0	30.0	33.5	39.3	45.1	47.7	45.7
120.0	14.7	7.3	4.3	3.7	0.5	1.8	37.6	39.1	46.9	52.0	55.6	52.9
121.0	22.5	15.5	12.1	9.7	5.8	7.8	45.1	47.0	56.1	58.6	63.4	63.5
122.0	30.9	23.6	17.3	15.9	13.3	15.0	53.5	55.7	63.7	67.0	71.9	73.2
123.0	39.2	31.2	25.3	22.7	21.4	22.7	62.2	64.9	72.6	74.3	80.8	83.4
124.0	47.6	39.7	32.5	28.2	26.9	29.2	71.4	74.7	81.3	82.5	90.1	94.1
125.0	56.4	48.2	38.7	34.5	35.7	38.3	81.7	84.1	90.2	92.6	99.0	104.5
126.0	65.6	57.0	47.2	41.4	41.4	46.4	91.3	94.5	98.0	99.8	108.1	113.5
127.0	73.7	64.2	53.6	48.7	48.9	53.7	100.7	103.3	105.3	108.4	116.2	121.9
128.0	81.2	72.0	61.4	55.9	55.6	61.7	111.0	110.5	113.2	115.9	122.8	131.0
129.0	88.2	80.1	67.6	62.6	62.9	68.7	118.8	118.1	121.2	123.3	130.8	138.3
130.0	95.7	87.4	75.4	70.0	67.7	77.0	126.4	126.0	127.3	131.7	137.9	145.6
131.0	100.7	92.6	81.7	76.6	73.8	81.0	135.2	131.6	134.6	138.9	144.9	151.4



# IES Road Report

## Candela Tabulation - (Cont.)

V/H	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0	C300.0	C330.0
132.0	107.9	99.4	88.4	82.8	80.1	88.6	141.3	139.5	140.5	145.2	150.0	158.0
133.0	114.9	105.0	95.3	90.4	86.6	94.6	148.2	144.1	146.4	153.1	156.4	163.8
134.0	120.4	109.6	102.2	98.0	94.7	99.3	153.8	150.8	153.8	160.1	163.1	170.1
135.0	125.6	114.9	105.8	103.8	100.0	103.9	160.9	157.0	160.9	167.2	169.5	175.3
136.0	131.9	122.3	112.9	110.0	106.1	109.9	165.2	163.2	166.3	173.1	176.2	180.8
137.0	136.4	128.1	120.4	117.0	112.8	114.9	171.7	168.3	172.7	180.7	181.8	186.5
138.0	142.5	133.2	126.8	122.6	119.0	122.3	177.0	174.6	177.7	185.4	187.9	192.6
139.0	148.7	140.6	131.8	129.1	124.5	127.4	181.8	180.4	184.0	191.8	193.4	198.7
140.0	154.2	147.6	137.4	134.3	129.2	134.0	187.8	187.3	189.8	196.4	200.4	204.3
141.0	158.6	152.5	142.5	139.7	135.6	139.0	193.1	192.5	195.7	201.2	204.4	209.8
142.0	163.8	157.8	148.3	145.2	141.7	145.1	198.0	196.5	199.8	206.9	210.1	216.4
143.0	169.4	162.5	154.7	149.9	146.0	151.0	204.1	202.9	205.6	209.7	215.9	220.7
144.0	173.9	168.0	160.3	156.1	149.8	155.2	209.2	207.2	209.7	214.9	219.5	226.0
145.0	178.8	173.9	164.5	160.5	153.8	159.2	214.3	211.1	213.9	219.3	224.6	229.0
146.0	183.3	177.8	170.2	165.5	160.3	165.1	218.3	216.6	217.8	224.6	228.3	234.2
147.0	188.7	183.2	174.4	167.9	164.1	167.9	223.3	222.2	222.6	228.5	232.8	237.1
148.0	193.6	186.4	180.1	174.8	170.7	173.7	228.8	225.6	226.9	233.0	237.8	240.9
149.0	198.1	192.1	183.9	178.5	173.6	177.8	233.6	229.2	231.6	235.0	242.1	245.5
150.0	204.4	195.8	191.0	183.4	179.2	182.5	237.6	233.1	234.6	240.7	246.1	250.3
151.0	209.2	201.4	195.6	190.0	185.8	186.7	240.3	236.3	238.9	244.3	251.5	254.3
152.0	214.9	206.6	202.1	195.2	191.8	191.9	247.0	240.6	243.3	248.0	255.9	259.0
153.0	223.1	213.2	207.8	203.5	198.9	197.0	251.0	245.4	248.5	253.3	260.7	263.8
154.0	230.4	220.1	216.8	209.4	206.2	201.4	257.8	248.2	253.7	256.5	266.1	268.4
155.0	238.0	226.8	224.5	218.1	214.9	209.1	262.7	254.1	259.4	258.9	271.4	273.3
156.0	245.1	234.8	230.7	225.0	222.4	216.8	267.4	258.0	264.0	261.2	275.5	278.3
157.0	251.5	242.2	239.0	232.9	229.8	224.7	271.8	262.7	268.8	264.8	280.7	282.7
158.0	259.5	249.7	246.7	240.7	238.3	231.7	277.9	266.1	272.5	269.0	285.1	286.7
159.0	264.4	256.9	254.4	248.4	246.1	236.9	281.8	269.1	277.9	276.3	290.5	290.1
160.0	270.1	262.9	262.5	256.4	252.1	242.4	287.3	274.1	283.2	280.8	294.6	296.2
161.0	277.0	269.9	269.9	263.7	259.2	249.8	291.5	278.5	287.6	288.0	298.0	299.1
162.0	282.3	275.6	275.8	271.1	266.7	254.7	295.9	282.4	293.1	291.1	303.3	304.3
163.0	289.2	283.1	282.3	277.0	271.3	261.7	301.6	286.9	297.7	296.7	306.8	310.0
164.0	295.6	290.6	288.9	284.4	279.0	265.8	306.2	291.2	303.5	301.7	310.8	315.3
165.0	301.7	297.4	294.9	289.3	286.1	274.8	311.1	296.1	307.5	306.1	314.2	319.4
166.0	307.1	304.8	300.0	295.1	292.3	280.7	316.4	300.0	312.0	310.4	318.7	326.2
167.0	311.5	311.3	305.8	299.0	298.4	287.0	320.4	305.4	316.1	315.2	321.6	328.9
168.0	316.6	317.6	310.0	304.2	302.9	291.7	324.2	308.9	320.2	317.1	325.0	333.6
169.0	320.9	321.6	316.4	307.9	307.6	298.2	327.5	311.5	322.6	320.4	326.9	336.1
170.0	326.5	326.5	317.2	311.8	312.8	303.3	331.3	315.1	325.9	321.9	329.3	338.5
171.0	330.9	330.0	319.8	316.6	316.4	307.7	335.1	319.5	328.2	325.0	331.3	340.3
172.0	336.9	333.2	323.7	318.8	319.7	313.2	339.7	322.0	330.5	327.7	331.1	341.5
173.0	340.5	335.1	326.1	322.2	322.4	316.6	343.7	325.1	332.9	329.3	332.5	344.0
174.0	343.3	339.1	326.3	325.8	324.8	321.1	345.7	328.2	333.4	332.4	332.4	344.0
175.0	343.8	341.4	329.1	328.6	327.6	324.5	349.0	332.5	334.4	334.4	334.4	345.7

