

# IES Flood Report

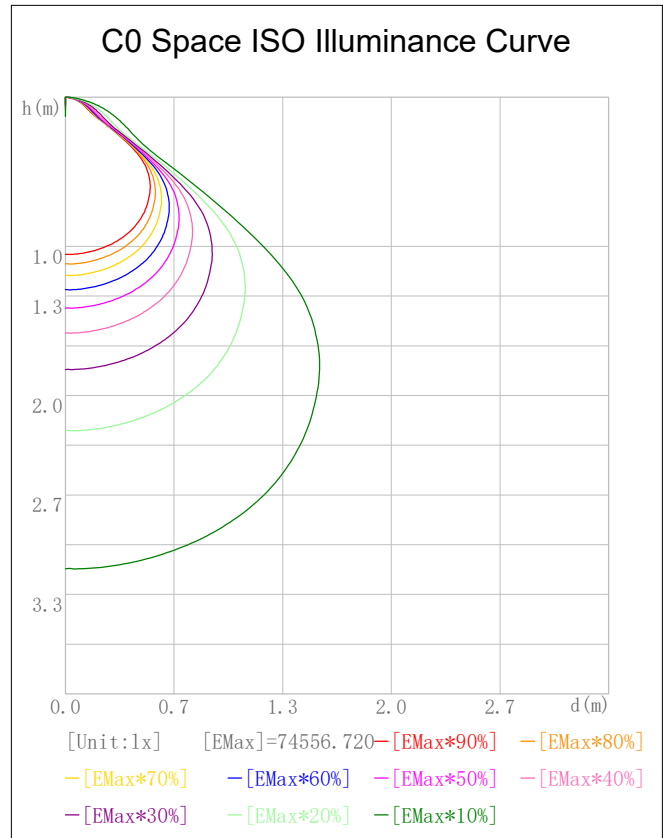
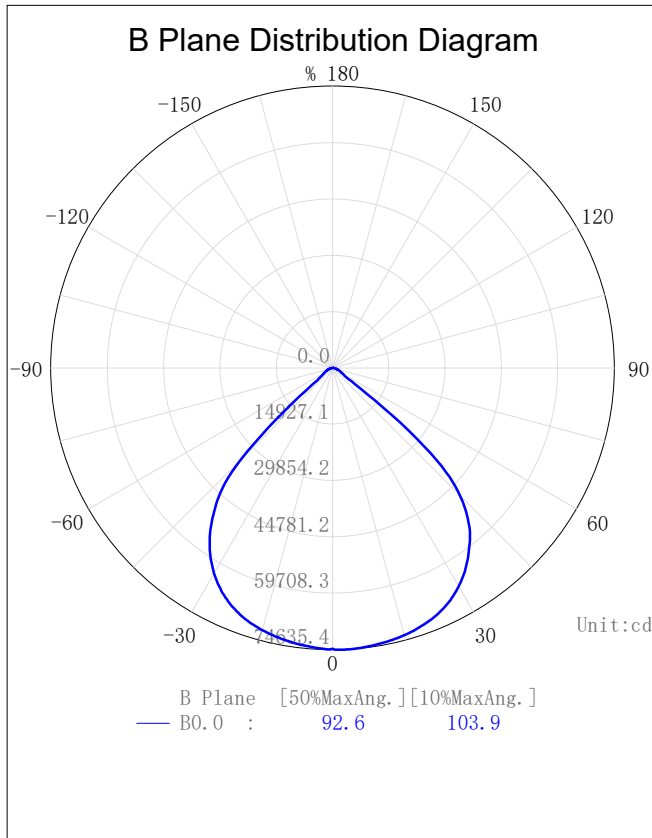
## Flood Luminaire Photometric Data

### Description Information

Luminaire Name: SHARK 1000W FLOOD-LIGHT - 166100	Lum. Catalog: 1000W	Test ID:
Lamp Name:	Lamp Catalog:	Test Date: 2024/01/20
Manufacture: BBT LIGHTING	Shld. Ang( ):	Test Machine:
Test Lab:	Frequency(Hz):	Lamp CCT(K): Ra:
Lum. Size (W*L*H): 0.000m*0.000m*0.000m	Lum. Area (m2): 0.000	Lum. W (kg):
Test System: C, !	Test Step: C=45.0 ! =1.0	Temp. ("):
		Humidity(%):

### Character Parameter

Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 134773.000	Luminaire Flux(lm): 134762.829	Beam Lumens(lm): 118388.07	
Rated Power(W):	Luminaire Efficiency: 99.99%	Beam Efficiency(%): 87.85	
Rated Voltage(V):	Luminaire EER(lm/W): 160.815	Field Lumens(lm): 129104.68	
Tested Power(W): 838.000	Max. Candela(cd): 74635.406	Field Efficiency(%): 95.80	
Lamps' Inside: 1	Max Cand@Ang. ( ):	B=0.0 # =2.0	ErP \$ use(120 ):
Tested Electrics(V, A, pf):	Beam Angle(50%)(V, H): 91.8( ), 91.7( )	IRF(%): 122.534	
Lamp Size(W*L*H): 0.000m*0.000m*0.000m	Field Angle(10%)(V, H): 106.0( ), 104.5( )		

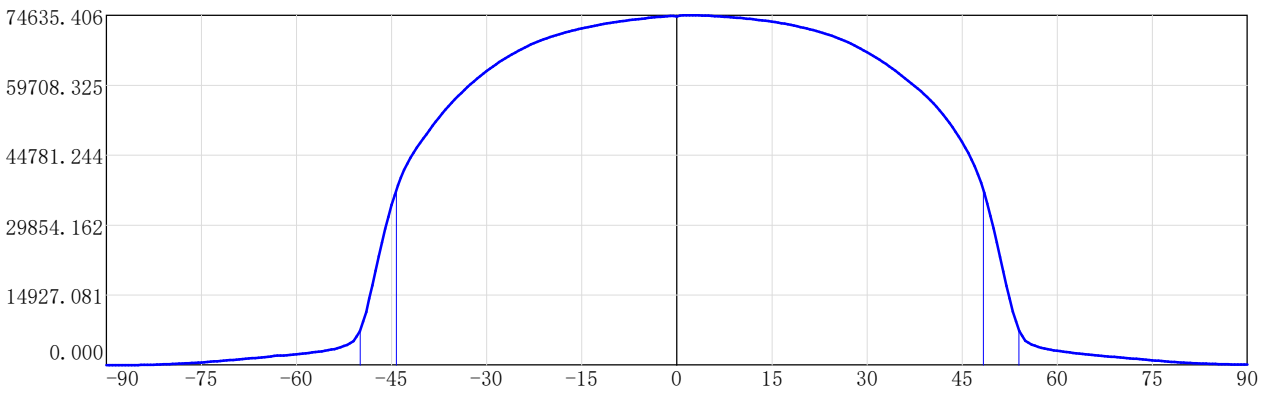
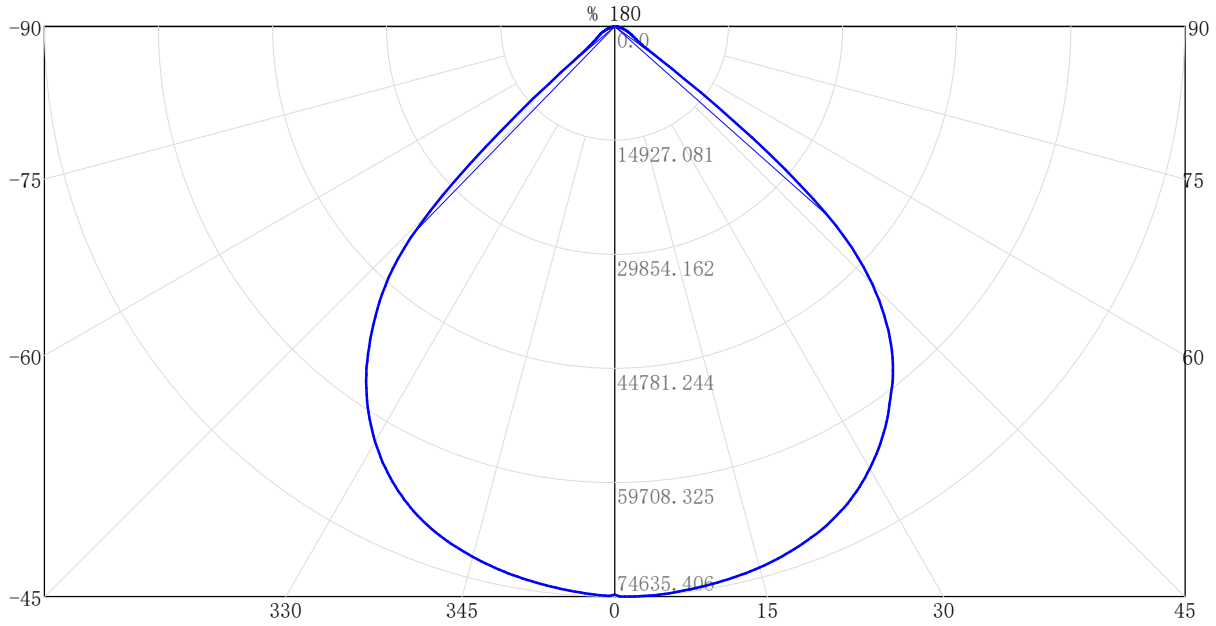


# IES Flood Report

## 2D Plane Light Intensity Distribution Curve

Lum. Name: SHARK 1000W FLOOD-LIGHT - 166100	Lum. Catalog: 500W	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture: BBT LIGHTING	Test Machine:	Test Date: 2024/01/20

B Plane Distribution Diagram



— B Plane [50%MaxAng.] [10%MaxAng.] Unit:cd  
 B0.0 : 92.6 103.9

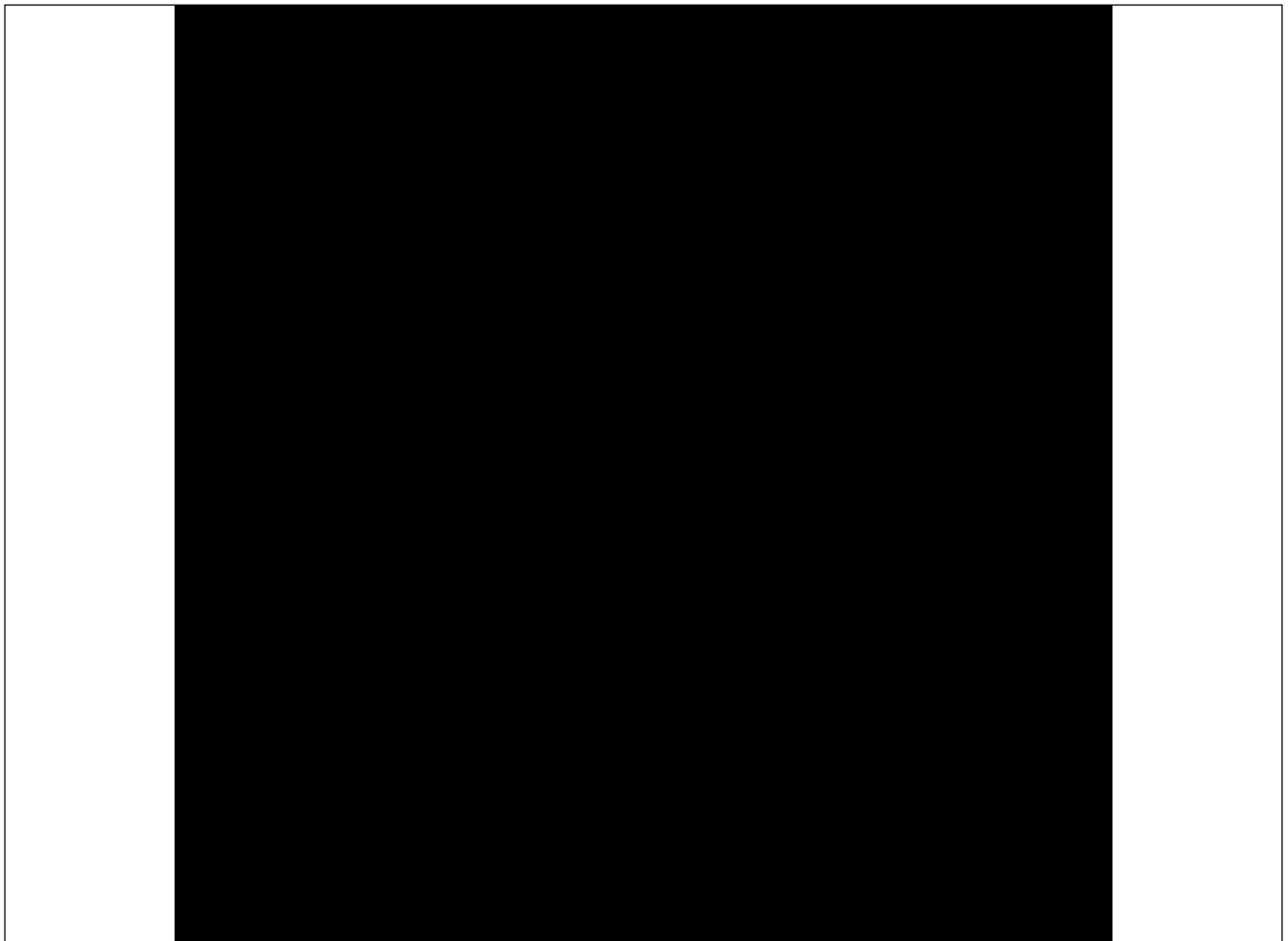
# IES Flood Report

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## 3D Light Intensity Distribution Modal

Lum. Name: SHARK 1000W FLOOD-LIGHT - 166100	Lum. Catalog: 500W	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture: BBT LIGHTING	Test Machine:	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 Flood Report

## Zone Lumens Tabulation - (Cont.)

	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0
B-40.0													
B-35.0	246.83	142.40	46.88	19.61	13.43	9.49	6.46	4.02	2.15	0.91	0.29	0.05	
B-30.0	309.20	232.01	114.23	30.52	15.40	10.52	7.07	4.41	2.37	1.00	0.32	0.06	
B-25.0	347.89	282.20	186.85	62.43	18.28	11.53	7.63	4.76	2.57	1.08	0.34	0.06	
B-20.0	374.38	313.17	233.87	109.43	24.27	12.52	8.14	5.05	2.74	1.15	0.35	0.06	
B-15.0	392.20	334.16	261.60	151.45	35.89	13.53	8.57	5.29	2.88	1.21	0.37	0.06	
B-10.0	404.15	347.80	278.78	180.23	50.62	14.49	8.91	5.48	2.98	1.26	0.38	0.06	
B-5.0	411.52	355.77	289.08	197.08	63.35	15.29	9.15	5.60	3.05	1.29	0.38	0.06	
B0.0	414.81	359.23	293.90	204.76	70.39	15.75	9.27	5.66	3.08	1.30	0.39	0.06	
B5.0	412.96	356.86	291.19	200.52	68.27	15.59	9.21	5.63	3.06	1.29	0.39	0.06	
B10.0	405.63	348.41	280.59	183.89	57.73	14.86	8.97	5.51	3.00	1.26	0.38	0.06	
B15.0	393.14	334.79	263.11	157.28	43.59	13.86	8.62	5.32	2.89	1.22	0.37	0.06	
B20.0	374.36	314.44	235.23	119.97	30.02	12.77	8.18	5.07	2.75	1.15	0.35	0.06	
B25.0	347.93	283.91	190.51	76.94	20.66	11.67	7.66	4.77	2.58	1.08	0.33	0.06	
B30.0	310.61	234.10	125.60	41.11	16.04	10.59	7.09	4.43	2.38	0.99	0.31	0.06	
B35.0	249.24	150.95	60.70	22.43	13.63	9.50	6.46	4.04	2.15	0.90	0.29	0.05	
B40.0	140.00	60.45	26.86	16.24	11.79	8.45	5.78	3.61	1.90	0.80	0.27	0.05	
B45.0	41.89	24.22	17.52	13.44	10.12	7.41	5.08	3.14	1.63	0.70	0.25	0.05	
B50.0	21.30	17.20	14.11	11.17	8.62	6.33	4.34	2.65	1.36	0.61	0.22	0.05	
B55.0	16.45	13.80	11.38	9.22	7.15	5.25	3.55	2.12	1.10	0.52	0.20	0.05	
B60.0	12.88	10.88	9.07	7.34	5.69	4.14	2.75	1.61	0.87	0.43	0.18	0.04	
B65.0	9.77	8.29	6.83	5.51	4.22	3.00	1.93	1.17	0.67	0.35	0.16	0.04	
B70.0	6.78	5.72	4.65	3.66	2.71	1.88	1.26	0.81	0.50	0.29	0.15	0.04	
B75.0	3.89	3.17	2.44	1.87	1.42	1.04	0.76	0.54	0.37	0.24	0.13	0.04	
B80.0	1.49	1.16	0.84	0.67	0.59	0.51	0.43	0.35	0.28	0.20	0.11	0.04	
B85.0	0.24	0.17	0.11	0.13	0.20	0.24	0.26	0.25	0.21	0.16	0.10	0.04	
B90.0	0.00	0.00	0.00	0.04	0.11	0.15	0.18	0.18	0.18	0.15	0.10	0.04	
Total	1691.73	1830.93	1957.03	2069.83	2169.58	2256.92	2332.36	2395.96	2447.47	2487.03	2514.35	2529.43	

90.0	Total
B-90.0	4.04
B-85.0	4.85
B-80.0	7.07
B-75.0	10.77
B-70.0	16.30
B-65.0	23.62
B-60.0	32.18
B-55.0	41.36
B-50.0	50.63
B-45.0	60.54
B-40.0	70.42
B-35.0	81.12
B-30.0	93.40
B-25.0	110.03
B-20.0	151.68
B-15.0	

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## Zone Lumens Tabulation - (Cont.)

90.0	Total
B-15.0	287.68
B-10.0	513.58
B-5.0	752.19
B0.0	965.05
B5.0	1148.51
B10.0	1304.99
B15.0	1437.16
B20.0	1551.32
B25.0	1651.89
B30.0	1739.40
B35.0	1814.58
B40.0	1878.51
B45.0	1932.09
B50.0	1976.65
B55.0	2013.57
B60.0	2043.56
B65.0	2066.95
B70.0	2083.95
B75.0	2094.80
B80.0	2099.28
B85.0	2097.46
B90.0	
Total	134762.83

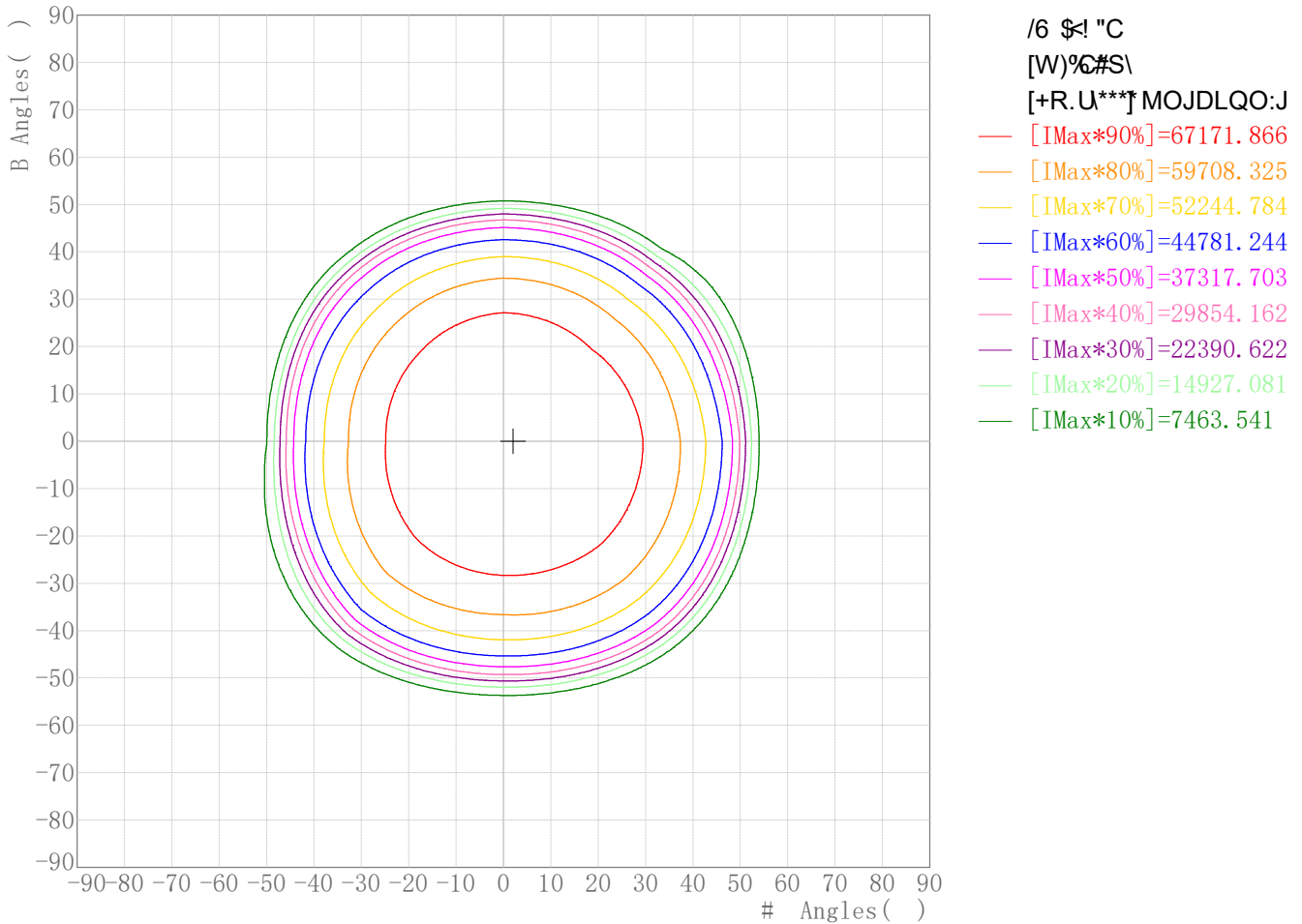
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# IES Flood Report

## Rectangle ISO Lighting Intensity Diagram

Lum. Name: SHARK 1000W FLOOD-LIGHT - 166100	Lum. Catalog: 500W	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture: BBT LIGHTING	Test Machine:	Test Date: 2024/01/20

### ISO Lighting Intensity Curve



Maximum Light Intensity(cd): 74635.41  
Maximum Cand.@Angle: H=2.0°,V=0.0°

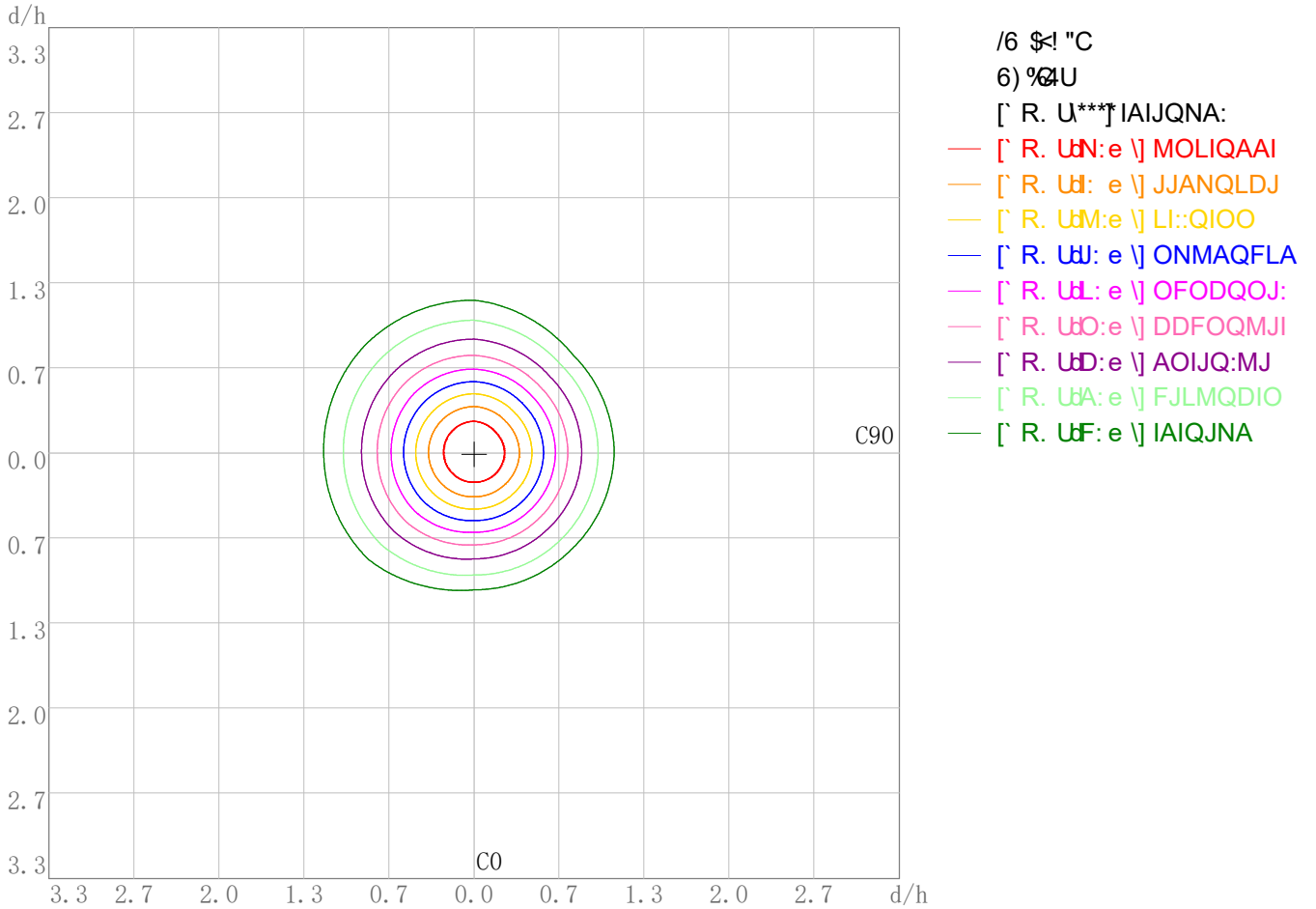


# IES Flood Report

## Plane ISO-Illuminance Diagram

Lum. Name: SHARK 1000W FLOOD-LIGHT - 166100	Lum. Catalog: 500W	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture: BBT LIGHTING	Test Machine:	Test Date: 2024/01/20

Plane ISO-Illuminance Curve



Working Plane Luminaire Mounting Height(m): 3.00  
 Working Plane Maximum Illuminance(lx): 8286.92  
 Working Plane Maximum Illuminance Position(d/h): H0.0 V0.0

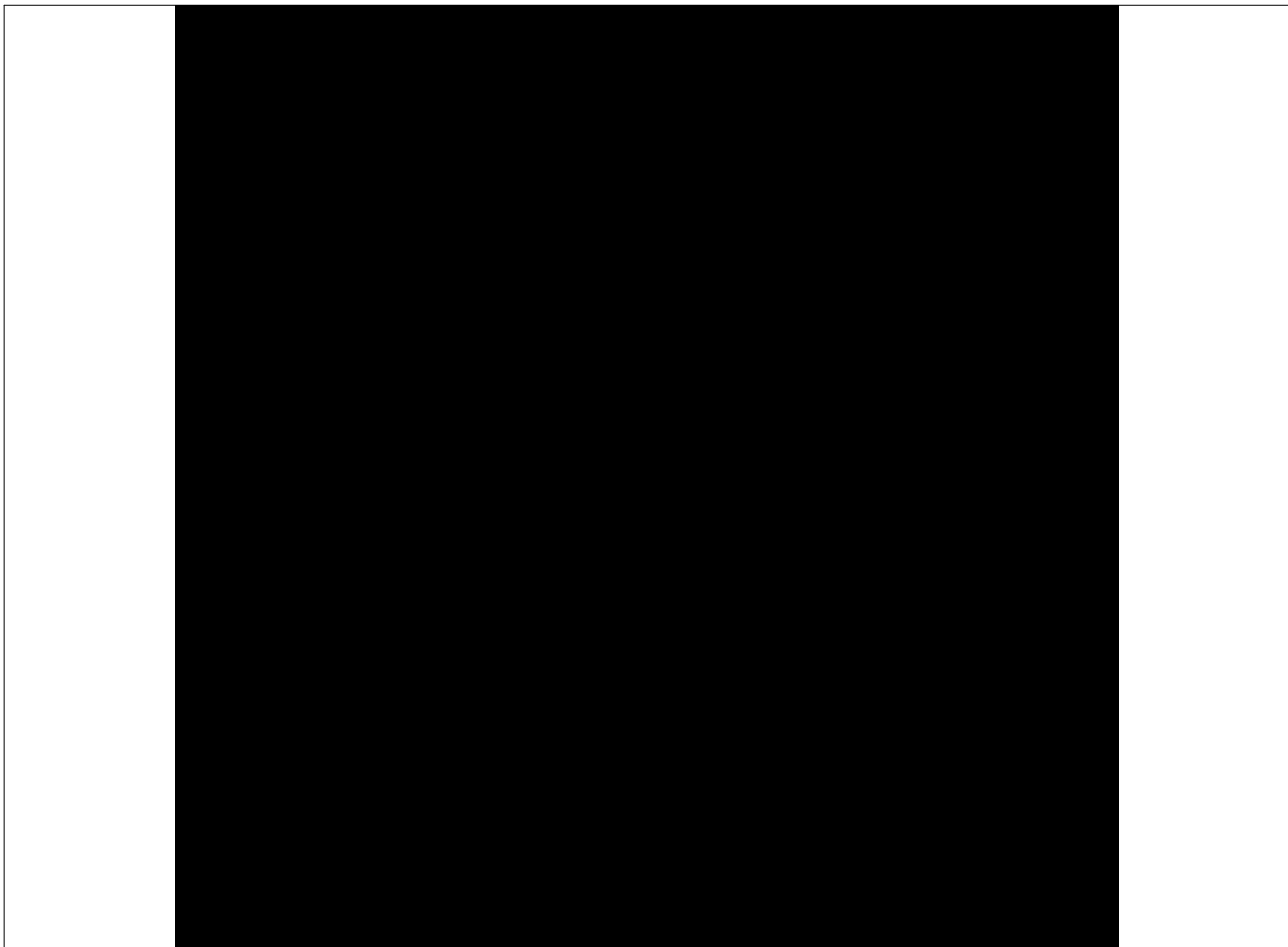
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## 3D Plane ISO Illuminance Diagram

Lum. Name: SHARK 1000W FLOOD-LIGHT - 166100	Lum. Catalog: 500W	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture: BBT LIGHTING	Test Machine:	Test Date: 2024/01/20

### 3D Plane Illuminance Modal

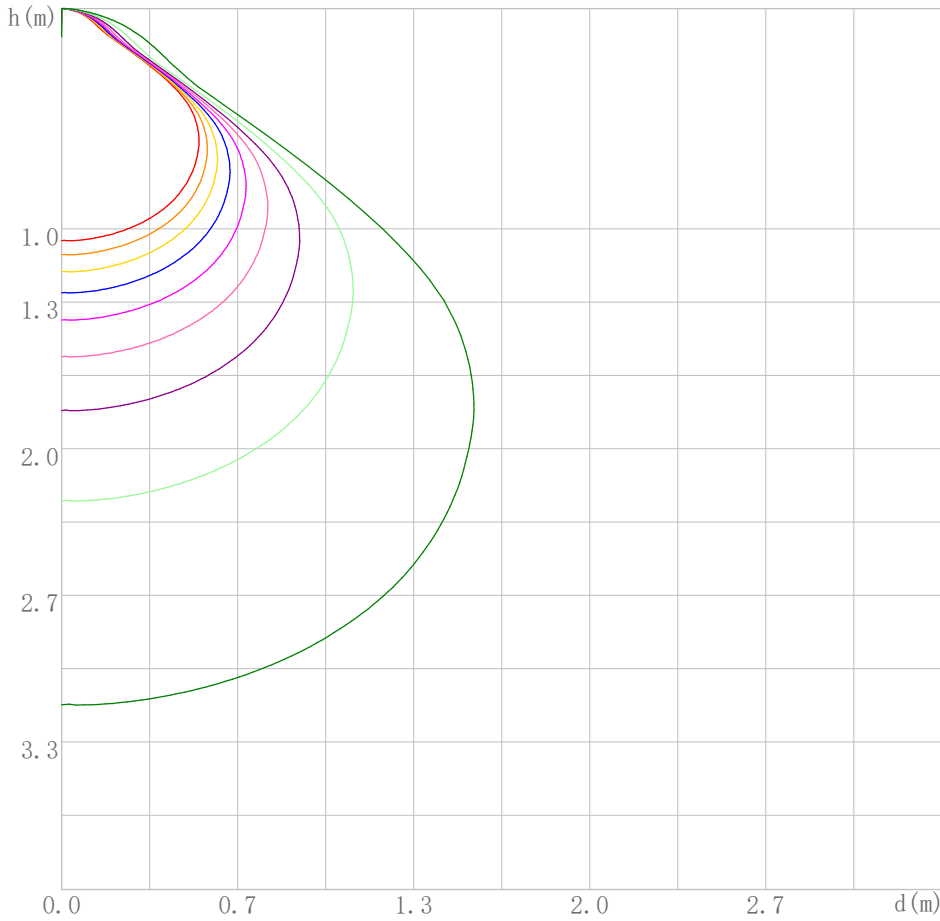


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## Space ISO Illuminance Diagram

Lum. Name: SHARK 1000W FLOOD-LIGHT - 166100	Lum. Catalog: 500W	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture: BBT LIGHTING	Test Machine:	Test Date: 2024/01/20

### Space ISO Illuminance Curve



- Curves:  
[Unit: lx]  
[EMax] =74556.720
- [ R.  $\theta$ : e \ ] JMF:FQ:OI
  - [ R.  $\theta$ : e \ ] LNJOLQDMJ
  - [ R.  $\theta$ : e \ ] LAFINQM:O
  - [ R.  $\theta$ : e \ ] OOMDOQ:DA
  - [ R.  $\theta$ : e \ ] DMAMIQDJ:
  - [ R.  $\theta$ : e \ ] ANIAAQJII
  - [ R.  $\theta$ : e \ ] AADJMQ:FJ
  - [ R.  $\theta$ : e \ ] FONFFQDOO
  - [ R.  $\theta$ : e \ ] MOLLQJMA

Space Plane Maximum Illuminance and @Angle: 74556.72lx,1.0deg

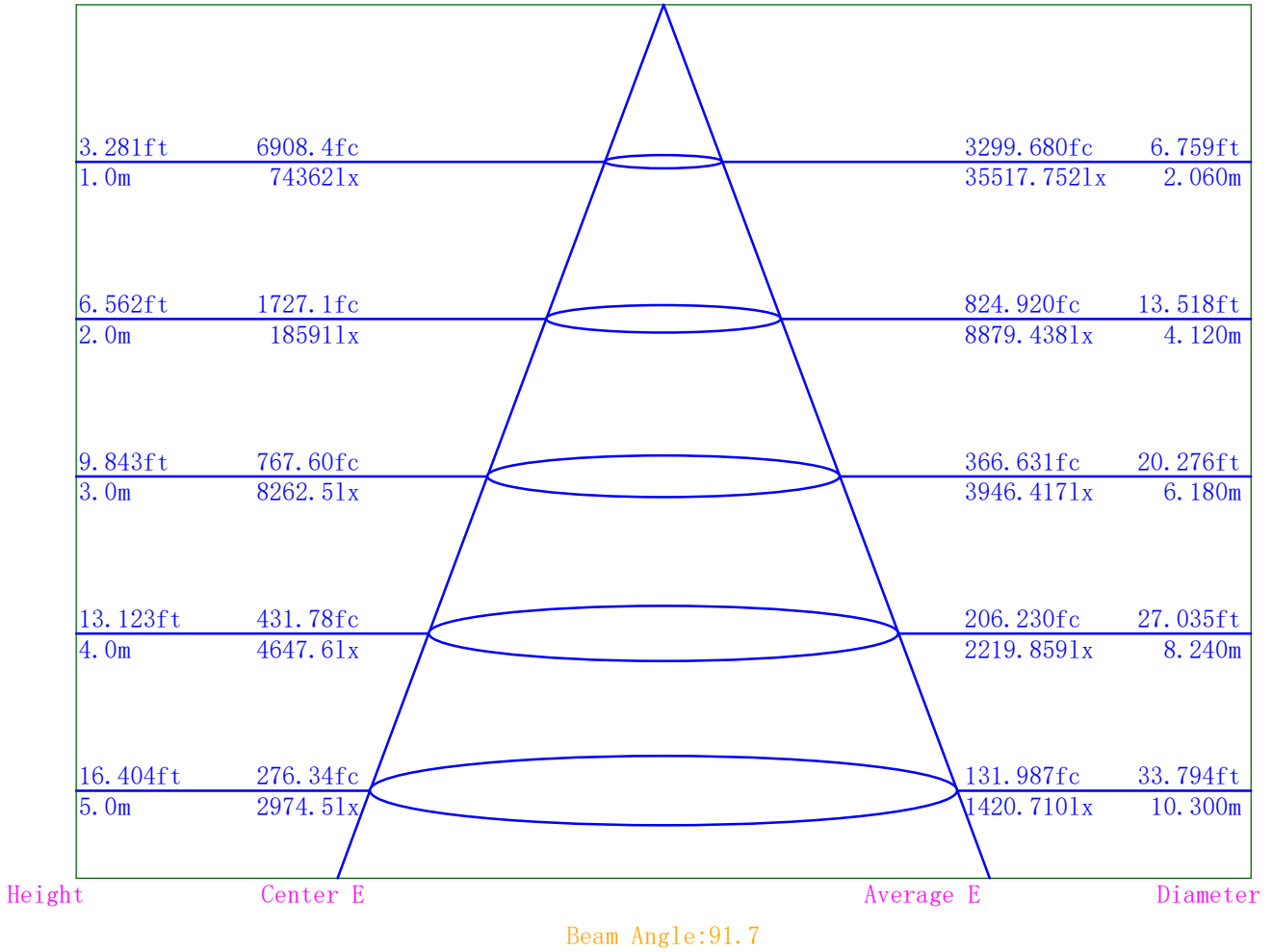
Plane Maximum Lighting Intensity and @Angle: 74635.406cd,0deg

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## Illuminance-Distance Diagram

Lum. Name: SHARK 1000W FLOOD-LIGHT - 166100	Lum. Catalog: 500W	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture: BBT LIGHTING	Test Machine:	Test Date: 2024/01/20

Illuminance-Distance Curve



# IES Flood Report

## Candela Tabulation

V/H	-90.0	-85.0	-80.0	-75.0	-70.0	-65.0	-60.0	-55.0	-50.0	-45.0	-40.0	-35.0
B-90.0	0.0	11.4	22.9	34.3	45.7	57.2	68.6	80.0	91.4	102.9	102.8	102.7
B-85.0	0.0	11.4	22.8	34.7	47.4	60.8	75.3	90.4	107.1	125.1	129.5	136.4
B-80.0	0.0	11.3	23.5	37.4	54.1	80.4	127.3	160.1	207.6	267.6	303.9	333.5
B-75.0	0.0	11.2	24.5	41.8	94.4	144.1	225.3	321.1	425.3	541.4	627.0	694.8
B-70.0	0.0	11.2	25.8	76.4	143.9	255.9	384.8	541.2	716.5	906.7	1029.7	1128.3
B-65.0	0.0	11.1	33.0	105.6	230.6	383.0	582.4	806.7	1017.8	1256.6	1446.3	1586.8
B-60.0	0.0	10.9	55.4	154.5	319.7	537.4	791.6	1066.3	1343.6	1620.1	1945.5	2079.8
B-55.0	0.0	10.6	69.8	219.3	420.4	697.0	1006.9	1333.7	1670.1	2010.0	2317.2	2620.3
B-50.0	0.0	10.3	88.5	273.3	528.4	842.1	1220.9	1606.0	1981.5	2400.3	2835.4	3328.0
B-45.0	0.0	9.9	109.5	322.9	632.3	1016.1	1432.9	1865.4	2338.2	2819.0	3540.7	5348.0
B-40.0	0.0	9.3	135.7	380.4	723.3	1165.6	1657.9	2111.7	2638.3	3394.8	5724.4	18059.4
B-35.0	0.0	11.0	162.6	434.7	820.6	1301.3	1800.8	2339.5	3011.6	4652.9	15545.5	33533.4
B-30.0	0.0	16.3	192.9	482.5	921.3	1433.6	1966.0	2555.3	3487.4	9324.0	27273.7	43512.6
B-25.0	0.0	20.6	216.1	521.9	985.6	1549.2	2170.6	2772.1	4375.1	15842.5	36951.7	49084.2
B-20.0	0.0	23.8	222.5	551.2	1051.6	1626.5	2204.7	2976.9	6119.9	22766.6	43045.2	52640.4
B-15.0	0.0	26.0	225.8	571.6	1095.7	1666.3	2273.5	3140.5	7742.4	28787.6	46355.4	55046.9
B-10.0	0.0	27.1	226.3	582.1	1119.9	1700.2	2321.2	3248.8	8536.1	32654.5	48110.9	56491.6
B-5.0	0.0	27.1	224.2	583.0	1127.3	1711.2	2333.9	3262.4	8459.0	34374.4	48702.7	57023.9
B0.0	0.0	26.1	219.9	574.3	1117.5	1698.6	2309.9	3180.1	7229.5	34196.9	48337.8	56715.8
B5.0	0.0	25.4	217.2	569.9	1108.8	1686.7	2293.0	3145.0	6800.2	33192.5	47838.9	56326.0
B10.0	0.0	23.6	212.5	556.2	1083.5	1650.2	2241.3	3045.8	5633.5	29980.5	46345.7	54999.4
B15.0	0.0	21.0	205.7	533.1	1041.9	1589.2	2158.6	2896.1	4563.8	23818.0	43602.9	52578.5
B20.0	0.0	17.5	196.8	500.9	981.8	1513.5	2061.5	2717.6	3871.6	14896.8	38875.3	48983.2
B25.0	0.0	13.2	185.6	459.7	901.5	1415.8	2005.5	2509.7	3332.1	6681.9	29446.3	44150.4
B30.0	0.0	8.1	158.7	409.0	819.3	1299.0	1786.3	2282.4	2925.6	4117.8	14361.9	35735.0
B35.0	0.0	2.3	125.8	352.0	706.0	1149.6	1596.8	2058.9	2582.6	3263.0	4818.3	17921.0
B40.0	0.0	0.0	98.2	293.2	594.8	1000.8	1414.4	1831.6	2243.0	2743.5	3395.5	4772.8
B45.0	0.0	0.0	73.2	233.8	493.9	836.7	1209.4	1564.5	1967.2	2315.1	2742.3	3252.8
B50.0	0.0	0.0	52.2	185.0	379.3	652.2	986.3	1314.1	1623.2	1947.4	2244.0	2582.2
B55.0	0.0	0.0	34.0	136.6	273.9	496.3	757.4	1036.4	1313.1	1560.8	1805.1	2053.2
B60.0	0.0	0.0	20.7	81.9	182.1	329.5	534.4	758.4	989.6	1208.5	1410.1	1590.0
B65.0	0.0	0.0	4.3	42.3	112.1	196.1	321.3	495.7	658.0	841.9	1004.4	1143.6
B70.0	0.0	0.0	0.0	19.1	51.6	102.3	160.9	246.9	350.4	492.1	597.2	706.4
B75.0	0.0	0.0	0.0	0.0	15.8	31.6	63.3	93.3	128.1	175.9	238.6	300.9
B80.0	0.0	0.0	0.0	0.0	0.0	2.5	8.7	9.6	21.1	39.9	50.4	66.1
B85.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V/H	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	10.0	15.0	20.0	25.0
B-90.0	102.6	102.6	102.5	102.4	102.3	102.2	102.2	102.3	102.5	102.6	102.8	102.9
B-85.0	147.5	156.8	164.4	170.1	174.0	176.1	176.5	177.9	177.8	176.5	174.2	171.2
B-80.0	360.4	381.8	397.4	405.3	406.5	401.8	392.1	410.7	424.3	431.7	432.1	424.4
B-75.0	750.0	803.4	843.1	866.5	878.9	879.6	868.1	889.9	899.5	897.6	884.8	859.8
B-70.0	1230.3	1309.1	1376.6	1426.1	1459.7	1476.3	1474.5	1491.4	1487.6	1462.3	1421.0	1370.5
B-65.0	1727.3	1884.5	1984.7	2026.7	2075.1	2102.5	2106.6	2117.0	2101.9	2061.2	1992.4	1914.3

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## Candela Tabulation - (Cont.)

V/H	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	10.0	15.0	20.0	25.0
B-60.0	2246.3	2422.1	2580.5	2709.2	2805.9	2861.1	2872.2	2879.8	2842.1	2761.4	2651.2	2518.6
B-55.0	2902.6	3197.6	3552.4	3925.9	4305.8	4585.0	4673.9	4670.6	4431.9	4044.2	3671.7	3313.8
B-50.0	4020.3	5731.2	10251.7	16406.6	21546.6	24771.5	25920.8	25444.2	22810.0	17997.7	11617.9	6450.2
B-45.0	12941.9	24607.6	33782.5	39749.5	43200.2	45033.1	45679.7	45399.2	44006.7	41248.5	36378.8	28069.7
B-40.0	33200.3	42535.5	47844.1	51254.1	53605.4	54959.5	55486.0	55320.5	54350.1	52369.3	49263.9	44665.9
B-35.0	45742.2	51400.6	55505.1	58330.3	60077.2	61043.6	61350.9	61361.0	60729.7	59359.0	56968.9	53330.8
B-30.0	51812.8	57398.8	60829.6	63157.6	64683.7	65572.6	65919.4	65865.8	65292.0	64105.0	62162.9	59219.3
B-25.0	56218.9	61364.9	64554.2	66401.2	67802.1	68795.5	69288.7	69079.3	68387.5	67295.3	65839.8	63215.6
B-20.0	59273.9	63855.5	66686.2	68635.5	70068.2	70960.9	71395.5	71261.8	70663.3	69532.6	67989.5	65872.5
B-15.0	61264.7	65390.3	68218.4	70229.0	71527.6	72317.5	72697.3	72659.6	72205.3	71208.3	69670.0	67535.4
B-10.0	62437.4	66445.7	69336.2	71239.9	72449.5	73207.2	73585.9	73570.4	73210.7	72359.1	70926.9	68799.3
B-5.0	62917.4	67040.4	69921.7	71758.9	72981.5	73738.6	74178.7	74173.0	73765.8	73011.1	71674.9	69624.8
B0.0	62727.8	67051.7	69985.6	71832.5	73117.4	73983.4	74362.3	74536.5	74061.7	73285.9	71986.0	69987.2
B5.0	62478.5	66819.4	69748.8	71665.1	72959.4	73698.0	74092.8	73720.0	73431.2	72714.9	71398.0	69316.0
B10.0	61411.6	65940.1	68950.7	70961.1	72303.1	73133.6	73469.1	73179.2	72528.4	71763.8	70354.6	68113.8
B15.0	59385.6	64313.9	67533.5	69632.3	71199.2	72129.1	72549.9	72261.4	71547.6	70281.6	68705.7	66269.7
B20.0	56194.5	61588.7	65353.2	67815.7	69523.3	70612.4	71181.8	70802.4	69918.6	68412.4	66317.5	63505.5
B25.0	51607.2	57435.7	61869.6	64916.7	66861.0	68094.8	68726.8	68281.6	67246.8	65599.7	63042.6	59306.6
B30.0	45526.2	51732.2	56676.0	60274.1	62681.9	64110.8	64758.4	64363.4	63234.0	61210.2	58011.9	53500.8
B35.0	35932.6	44408.9	49545.5	53546.5	56364.0	58122.9	58939.8	58442.3	57006.3	54538.4	51003.3	46136.2
B40.0	14643.6	30572.4	39900.1	44577.1	47553.0	49424.2	50280.7	49782.5	48269.5	45547.6	40961.7	32669.4
B45.0	4131.2	7298.2	16858.4	26700.5	33164.8	36460.1	37790.5	36776.9	33940.0	28360.3	19457.5	9448.6
B50.0	2930.2	3369.0	3974.7	4998.5	6943.7	9137.7	10284.3	9548.4	7513.6	5382.1	4160.5	3517.9
B55.0	2285.5	2512.3	2731.0	2922.6	3096.1	3227.2	3285.2	3250.7	3137.8	2978.3	2801.8	2595.9
B60.0	1765.5	1959.7	2052.7	2160.6	2246.1	2298.5	2315.8	2315.1	2278.9	2208.0	2109.8	2016.8
B65.0	1287.3	1403.4	1501.7	1576.2	1647.2	1690.7	1705.7	1699.9	1668.4	1615.4	1547.1	1455.1
B70.0	803.9	890.4	959.9	1016.9	1061.5	1089.7	1098.7	1102.5	1085.4	1048.7	999.4	943.0
B75.0	361.2	422.4	467.3	494.7	512.1	519.4	516.8	529.2	531.3	522.4	502.0	464.9
B80.0	87.2	108.0	132.5	154.0	172.0	185.7	194.8	192.5	185.0	172.2	154.4	131.5
B85.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V/H	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
B-90.0	103.1	103.2	103.4	103.5	105.7	107.9	110.0	112.2	114.4	116.6	118.7	120.9
B-85.0	167.8	164.2	158.6	149.4	141.3	136.8	134.0	127.4	123.4	121.4	120.6	122.0
B-80.0	404.4	374.1	344.6	313.2	276.7	241.5	211.3	190.5	170.5	150.2	128.1	123.1
B-75.0	824.0	774.8	711.4	631.3	531.5	434.4	349.6	280.8	225.9	186.5	155.0	126.2
B-70.0	1290.8	1215.2	1117.4	1011.9	863.5	700.2	545.5	415.1	312.0	231.2	181.5	130.3
B-65.0	1810.4	1688.4	1534.1	1371.6	1192.0	997.9	786.5	581.3	416.1	289.2	202.1	138.3
B-60.0	2345.8	2163.8	1993.8	1760.3	1520.4	1276.8	1031.0	775.3	534.9	359.7	232.5	156.4
B-55.0	3015.7	2745.9	2462.9	2152.5	1881.0	1570.3	1268.2	979.6	676.2	434.5	264.3	173.8
B-50.0	4275.1	3510.6	3011.1	2608.8	2208.9	1869.6	1509.0	1162.5	815.5	510.2	301.8	184.1
B-45.0	15651.4	6246.5	3863.9	3098.0	2595.8	2145.7	1737.7	1341.3	966.1	593.3	341.6	189.9
B-40.0	37236.5	22912.9	7351.0	3858.5	2997.8	2432.5	1959.6	1518.5	1080.8	677.8	375.7	195.1
B-35.0	48021.0	39729.3	22792.7	6181.0	3501.4	2735.6	2172.4	1679.5	1207.0	753.2	408.9	202.1



# IES Flood Report

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## Candela Tabulation - (Cont.)

V/H	90.0
B0.0	123.1
B5.0	123.1
B10.0	123.1
B15.0	123.1
B20.0	123.1
B25.0	123.1
B30.0	123.1
B35.0	123.1
B40.0	123.1
B45.0	123.1
B50.0	123.1
B55.0	123.1
B60.0	123.1
B65.0	123.1
B70.0	123.1
B75.0	123.1
B80.0	123.1
B85.0	123.1
B90.0	123.1

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