

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P451889

Luminaire Tested: **GALN-SA2D-740-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451889  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2D-740-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11630 lumens  
Efficiency: N/A  
Efficacy: 93.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

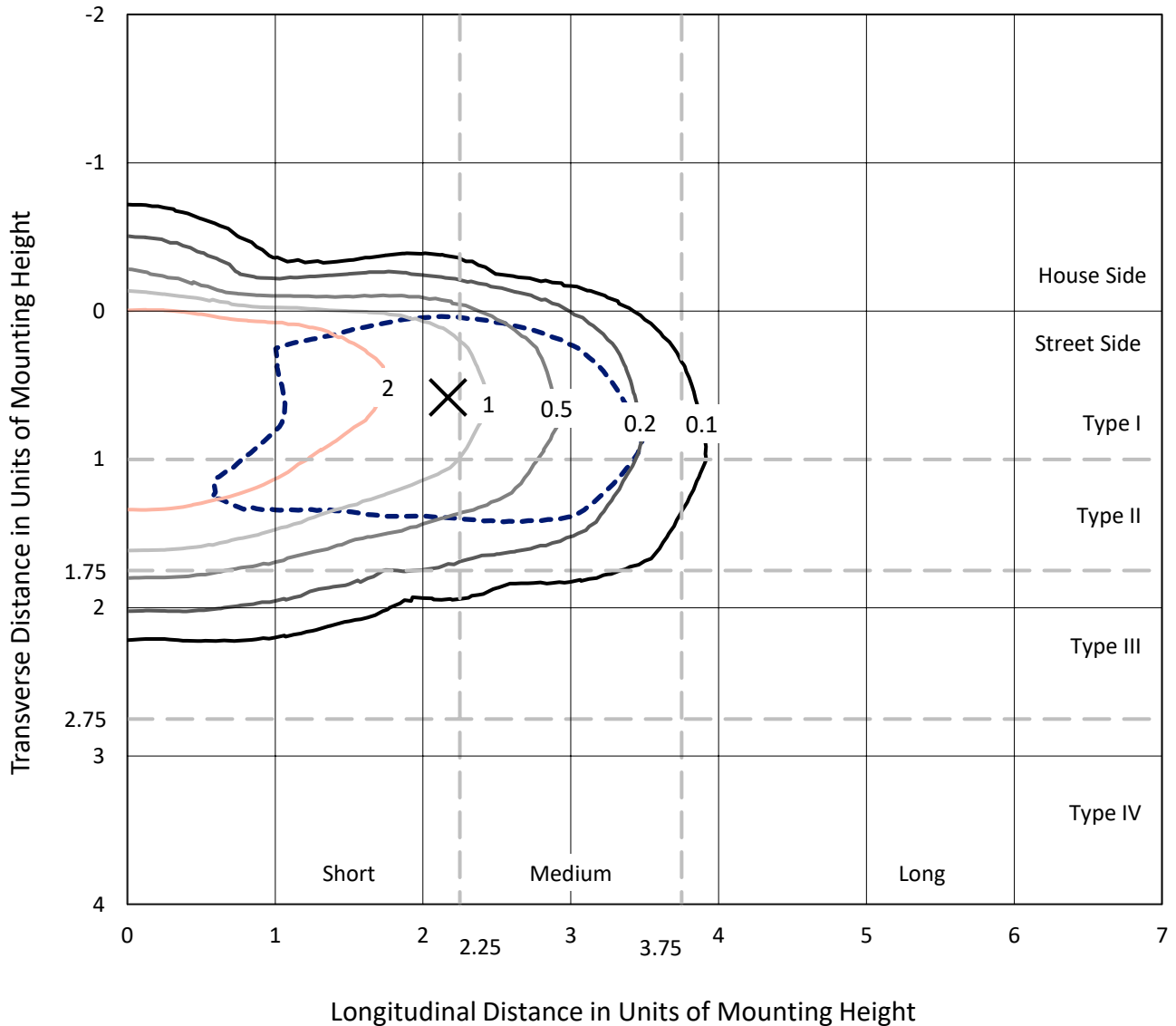
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

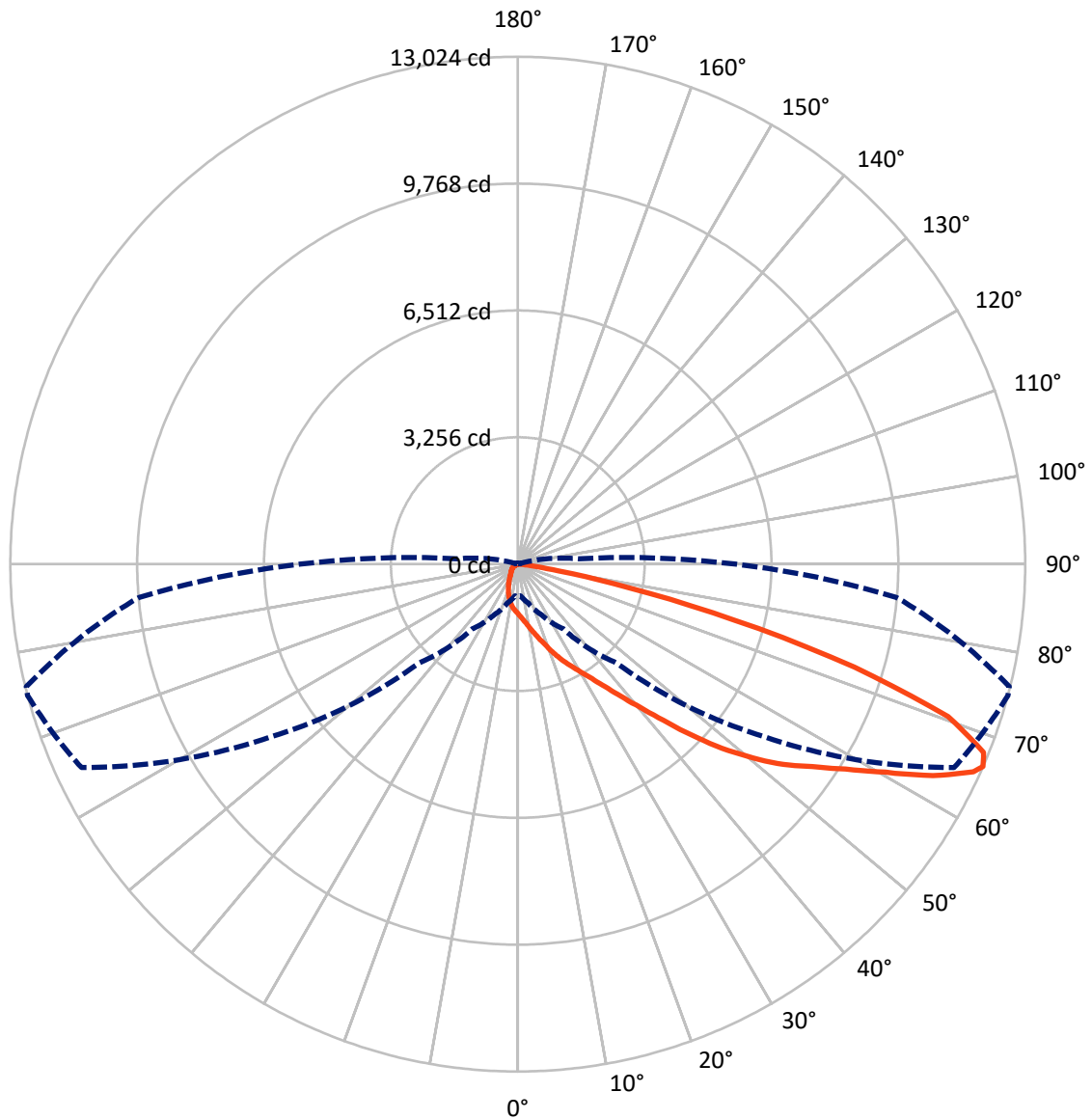
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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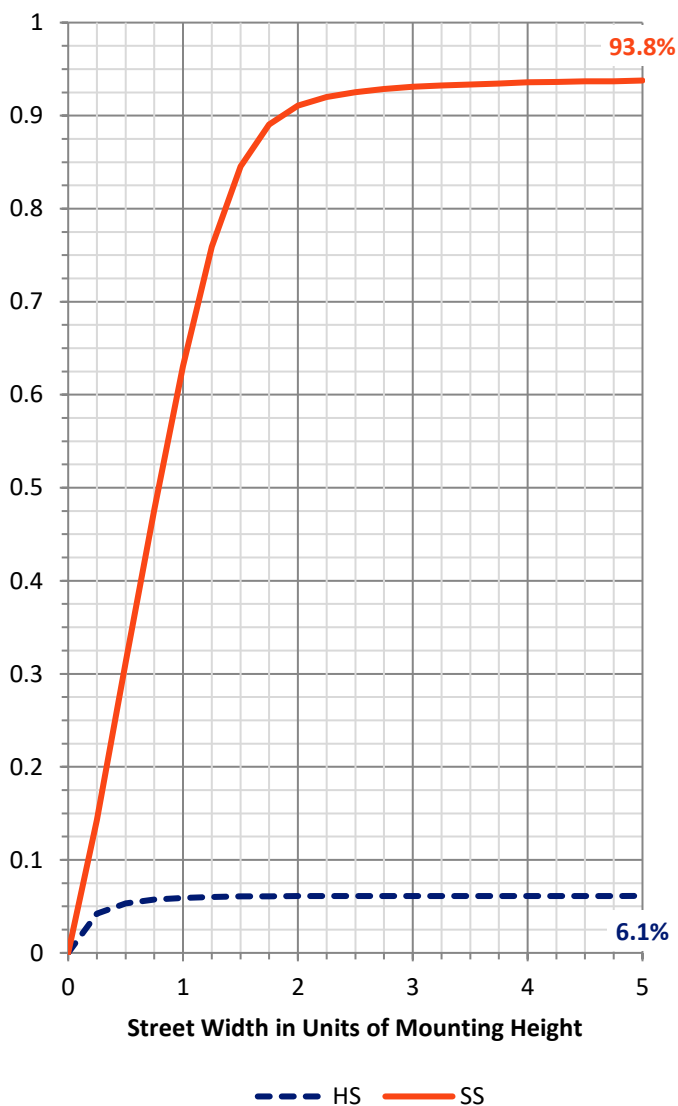
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	718.0	0.0	718.0
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	10912.0	0.0	10912.0
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	11630.0	0.0	11630.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.7	1.1
10°-20°	361.0	3.1
20°-30°	623.4	5.4
30°-40°	1124.5	9.7
40°-50°	2031.5	17.5
50°-60°	3167.1	27.2
60°-70°	3008.6	25.9
70°-80°	1127.6	9.7
80°-90°	63.6	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	11630.0	100.0
0°-180°	11630.0	100.0

**Coefficient of Utilization**



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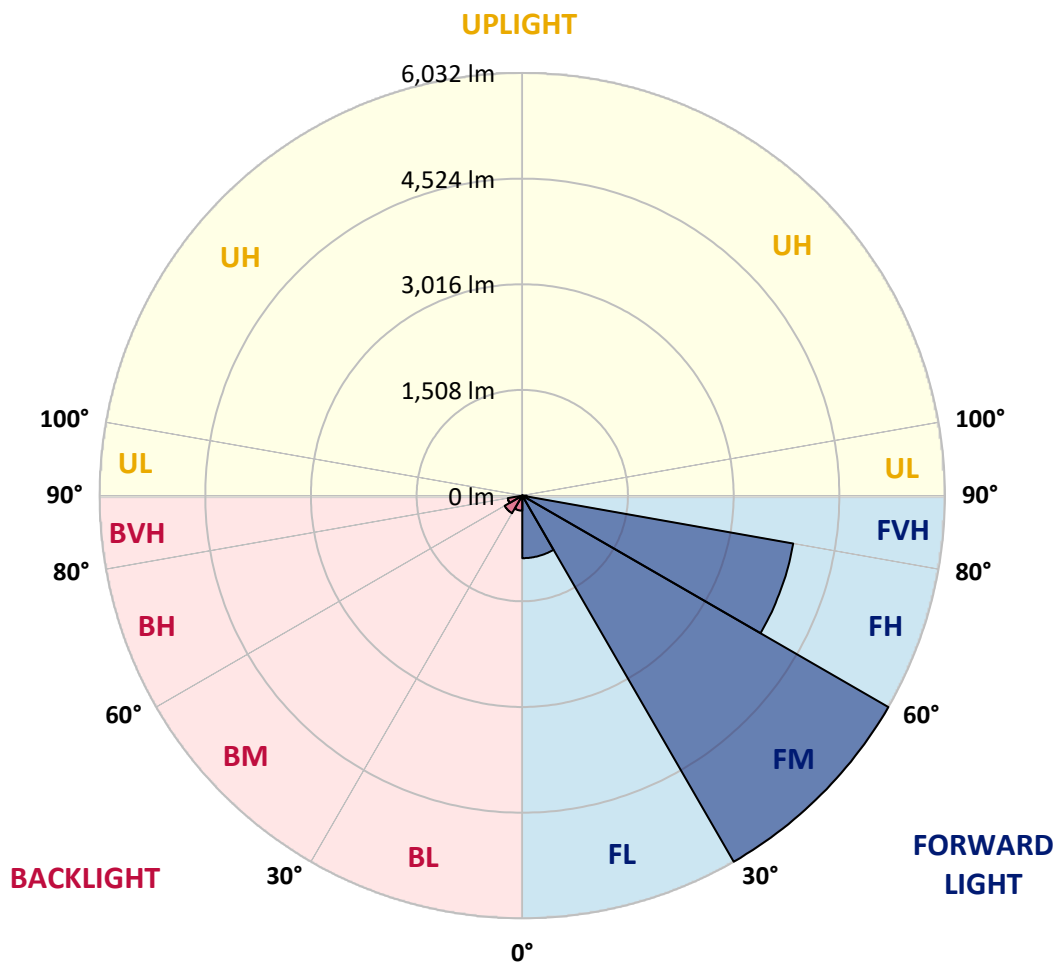
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	892.7	7.7			
FM	(30°-60°)	6032.5	51.9			
FH	(60°-80°)	3926.5	33.8			G2/5000
FVH	(80°-90°)	60.3	0.5			G1/100
BL	(0°-30°)	214.4	1.8	B1/500		
BM	(30°-60°)	290.6	2.5	B1/1000		
BH	(60°-80°)	209.7	1.8	B1/500		G1/500
BVH	(80°-90°)	3.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1271.9	1271.9	1271.9	1271.9	1271.9	1271.9	1271.9	1271.9	1271.9	1271.9	1271.9
2.5°	1519.5	1500.6	1506.6	1498.0	1478.2	1449.0	1423.2	1386.2	1349.3	1343.2	1302.0
5°	1719.9	1714.7	1707.8	1682.9	1669.1	1624.4	1571.1	1507.5	1430.9	1417.2	1342.4
7.5°	1856.6	1854.0	1857.5	1844.6	1832.5	1792.1	1735.4	1648.5	1529.8	1522.1	1397.4
10°	1901.3	1908.2	1921.1	1941.8	1960.7	1947.8	1904.8	1796.4	1658.0	1635.6	1460.2
12.5°	1875.5	1883.3	1914.2	1969.3	2030.3	2065.6	2048.4	1969.3	1793.8	1775.8	1530.7
15°	1809.3	1818.8	1862.6	1947.8	2057.0	2156.7	2199.7	2143.0	1952.1	1922.8	1615.8
17.5°	1711.3	1725.0	1787.8	1900.5	2050.1	2222.1	2343.3	2324.4	2120.6	2093.1	1708.7
20°	1637.3	1647.7	1701.0	1830.0	2020.9	2258.2	2480.1	2533.4	2328.7	2281.4	1817.9
22.5°	1686.3	1689.8	1707.8	1785.2	1968.4	2267.7	2600.5	2751.0	2549.7	2507.6	1931.4
25°	1926.3	1891.9	1873.8	1856.6	1957.2	2259.1	2709.7	2978.0	2769.9	2725.2	2044.1
27.5°	2304.6	2289.2	2198.0	2075.9	2052.7	2270.2	2781.9	3193.0	2977.1	2929.0	2154.2
30°	2716.6	2689.9	2634.0	2455.1	2275.4	2349.4	2834.4	3401.9	3222.2	3158.6	2254.8
32.5°	3094.9	3112.1	3028.7	2844.7	2636.6	2517.9	2902.3	3629.8	3503.4	3424.3	2371.7
35°	3536.1	3570.5	3442.4	3266.1	3022.7	2822.3	3034.7	3886.9	3860.3	3760.5	2552.3
37.5°	3984.1	4004.8	3926.5	3678.8	3459.6	3209.3	3284.1	4204.3	4299.7	4214.6	2768.2
40°	4360.8	4389.1	4331.5	4111.4	3877.5	3657.3	3646.2	4550.0	4822.6	4734.8	3089.8
42.5°	4648.9	4670.3	4672.1	4516.4	4305.7	4206.0	4107.9	4991.1	5477.8	5376.4	3463.0
45°	5012.6	5043.6	5025.5	4919.7	4762.4	4744.3	4693.6	5524.3	6262.1	6134.0	3947.1
47.5°	5575.0	5595.6	5550.9	5426.2	5266.3	5294.7	5264.6	6121.9	7061.9	6951.8	4448.5
50°	5965.4	5999.8	6063.5	6113.3	5997.2	5892.3	5802.9	6680.0	7821.2	7722.3	4961.0
52.5°	5961.1	6017.9	6219.1	6470.2	6723.9	6692.1	6435.0	7296.6	8546.1	8424.0	5442.6
55°	5559.5	5669.6	5965.4	6410.9	7113.4	7463.4	7346.5	8010.4	9172.2	9089.6	6000.7
57.5°	4730.5	4797.6	5208.7	5831.3	6895.9	7826.3	8402.5	8977.8	9922.9	9884.2	6867.5
60°	3181.8	3211.9	3740.8	4510.4	5870.8	7464.3	9176.5	10148.2	10847.3	10828.4	7879.7
62.5°	1823.1	1836.0	2219.5	2868.8	4177.6	6325.7	9241.8	11592.0	11955.8	11966.1	9050.9
65°	981.2	988.1	1297.7	1683.8	2542.0	4508.7	8310.5	12383.2	12851.8	12871.6	9776.7
66°	847.0	814.4	1032.8	1435.2	2022.6	3588.5	7721.4	12354.8	13023.8	13002.3	9750.9
67.5°	644.1	673.3	824.7	1103.3	1498.9	2551.5	6374.8	11805.3	12893.1	12826.0	9354.5
70°	460.9	473.0	587.3	786.8	1020.8	1400.0	4073.5	9805.1	11718.4	11628.1	8149.7
72.5°	297.5	310.4	416.2	569.3	737.8	764.5	2280.6	7084.2	9034.6	9021.7	6137.4
75°	212.4	224.4	275.2	407.6	554.7	473.0	1098.1	4774.4	5743.6	5704.9	3796.6
77.5°	153.9	159.9	184.0	266.6	396.4	338.8	509.1	2549.7	2859.3	2994.3	1677.7
80°	88.6	93.7	128.1	162.5	268.3	231.3	243.4	1023.3	1055.1	1004.4	524.6
82.5°	43.9	49.9	76.5	110.9	167.7	155.6	111.8	307.9	325.1	316.5	132.4
85°	10.3	12.9	43.0	73.1	81.7	69.7	54.2	90.3	111.8	109.2	50.7
87.5°	0.9	1.7	15.5	12.9	13.8	23.2	18.9	23.2	36.1	33.5	18.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1271.9	1271.9	1271.9	1271.9	1271.9	1271.9	1271.9	1271.9	1271.9	1271.9	1271.9
2.5°	1283.0	1266.7	1219.4	1173.0	1134.3	1093.8	1056.9	1035.4	1026.8	1017.3	1021.6
5°	1301.1	1261.5	1166.1	1083.5	1002.7	933.9	878.9	843.6	826.4	823.8	819.5
7.5°	1325.2	1257.2	1109.3	980.3	874.6	798.0	735.3	684.5	669.0	655.3	644.1
10°	1354.4	1249.5	1038.8	872.0	759.3	663.0	580.5	520.3	489.3	480.7	486.7
12.5°	1385.4	1234.9	964.9	772.2	642.4	519.4	442.9	412.8	404.2	400.7	401.6
15°	1416.3	1216.8	887.5	675.9	511.7	414.5	379.2	371.5	368.1	366.3	364.6
17.5°	1444.7	1187.6	800.6	582.2	414.5	354.3	341.4	334.5	327.6	325.1	320.8
20°	1478.2	1154.0	722.4	477.3	350.9	320.8	305.3	292.4	282.1	275.2	274.3
22.5°	1510.1	1111.0	640.7	395.6	319.9	288.1	263.1	249.4	237.3	228.7	231.3
25°	1527.3	1058.6	567.6	344.8	291.5	255.4	227.9	210.7	197.8	193.5	192.6
27.5°	1527.3	994.1	496.2	315.6	265.7	226.2	197.8	181.4	172.8	166.8	167.7
30°	1515.2	922.7	430.0	293.2	243.4	200.4	173.7	159.1	152.2	147.9	147.1
32.5°	1505.8	854.8	373.2	271.7	220.1	178.0	154.8	143.6	136.7	132.4	132.4
35°	1520.4	796.3	329.4	250.2	198.6	160.8	140.2	129.9	123.0	119.5	118.7
37.5°	1559.1	743.0	295.8	227.0	178.9	146.2	129.9	117.8	110.9	106.6	104.9
40°	1654.5	712.9	270.9	205.5	159.9	134.2	117.8	106.6	98.0	93.7	92.9
42.5°	1807.6	713.8	246.8	185.7	145.3	123.8	107.5	94.6	85.1	80.8	80.0
45°	2038.1	746.4	227.9	166.8	132.4	112.7	96.3	82.6	74.0	69.7	69.7
47.5°	2314.1	810.1	211.5	150.5	120.4	102.3	85.1	71.4	62.8	59.3	59.3
50°	2613.4	892.6	195.2	133.3	110.1	91.2	73.1	61.9	55.0	52.5	52.5
52.5°	2918.6	992.4	178.9	119.5	98.9	79.1	62.8	55.0	49.0	47.3	46.4
55°	3319.4	1119.6	161.7	104.9	86.9	67.9	55.9	48.2	41.3	38.7	37.8
57.5°	3936.0	1311.4	142.8	92.0	71.4	56.8	48.2	40.4	32.7	28.4	27.5
60°	4679.8	1545.3	123.0	80.8	57.6	46.4	38.7	31.0	24.1	18.9	18.1
62.5°	5376.4	1694.1	104.1	67.9	45.6	35.3	27.5	23.2	17.2	12.0	11.2
65°	5684.2	1644.2	86.0	55.0	36.1	24.9	18.1	16.3	10.3	5.2	4.3
66°	5581.9	1570.3	79.1	49.9	32.7	21.5	15.5	13.8	7.7	2.6	2.6
67.5°	5280.0	1395.7	68.8	43.0	28.4	17.2	12.0	10.3	4.3	0.9	0.0
70°	4524.2	1129.1	54.2	31.8	20.6	12.0	6.9	5.2	2.6	0.0	0.0
72.5°	3475.0	841.0	43.0	24.1	14.6	6.9	3.4	1.7	2.6	0.0	0.0
75°	2129.2	480.7	33.5	18.1	9.5	4.3	2.6	0.0	2.6	0.9	0.0
77.5°	945.1	215.8	22.4	12.0	6.9	3.4	1.7	0.0	1.7	0.9	0.0
80°	239.1	70.5	12.9	8.6	5.2	2.6	0.9	0.0	1.7	1.7	0.9
82.5°	65.4	25.8	9.5	6.9	4.3	2.6	0.9	0.0	1.7	1.7	1.7
85°	25.8	12.0	8.6	6.9	5.2	2.6	0.9	0.0	1.7	1.7	1.7
87.5°	12.0	8.6	8.6	7.7	6.0	2.6	0.9	0.0	1.7	0.9	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)