

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: P383249

Luminaire Tested: **GLEON-SA5D-735-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383249  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA5D-735-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35388.6 lumens  
Efficiency: N/A  
Efficacy: 110.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

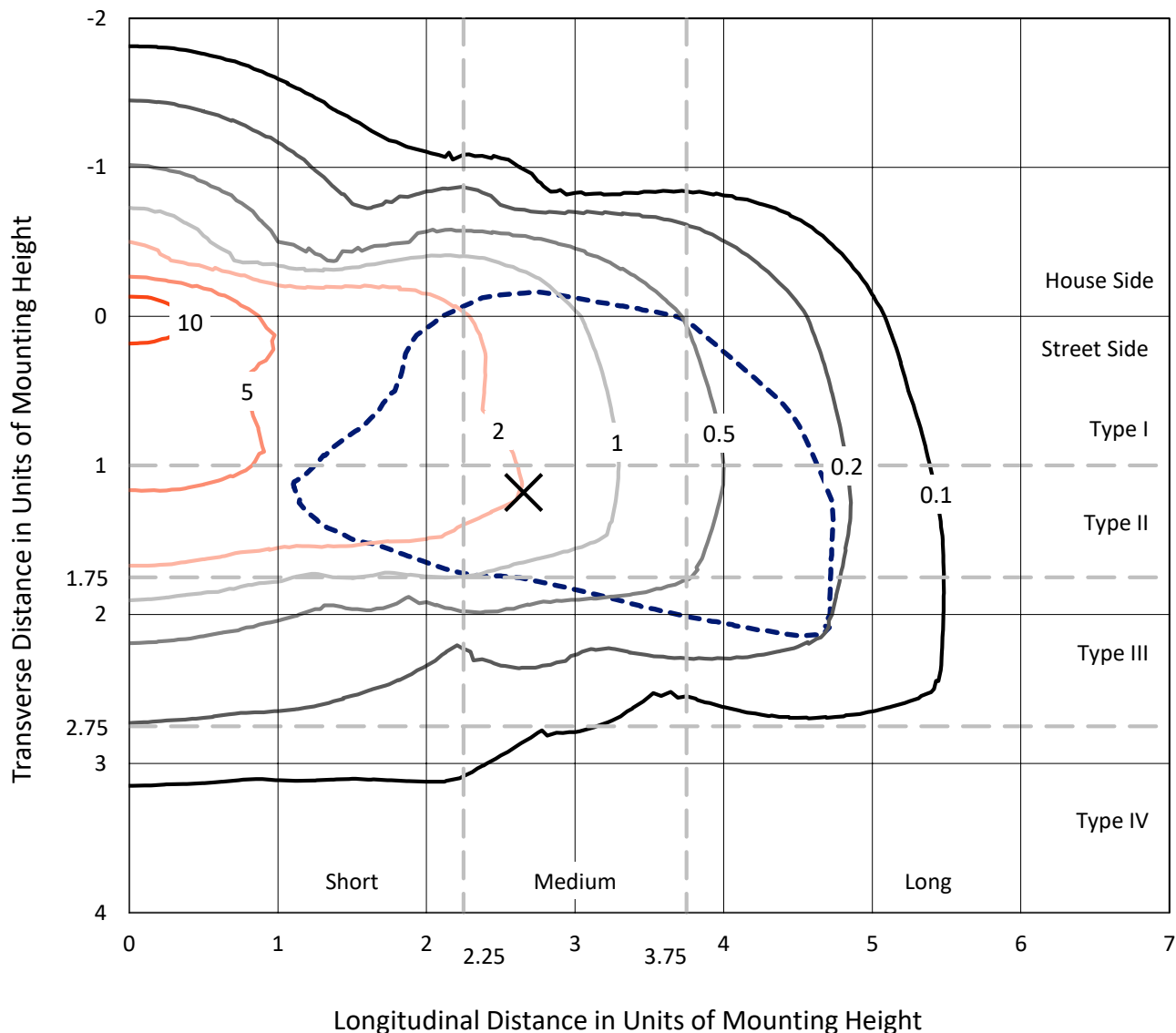
Input Watts (W): 320  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

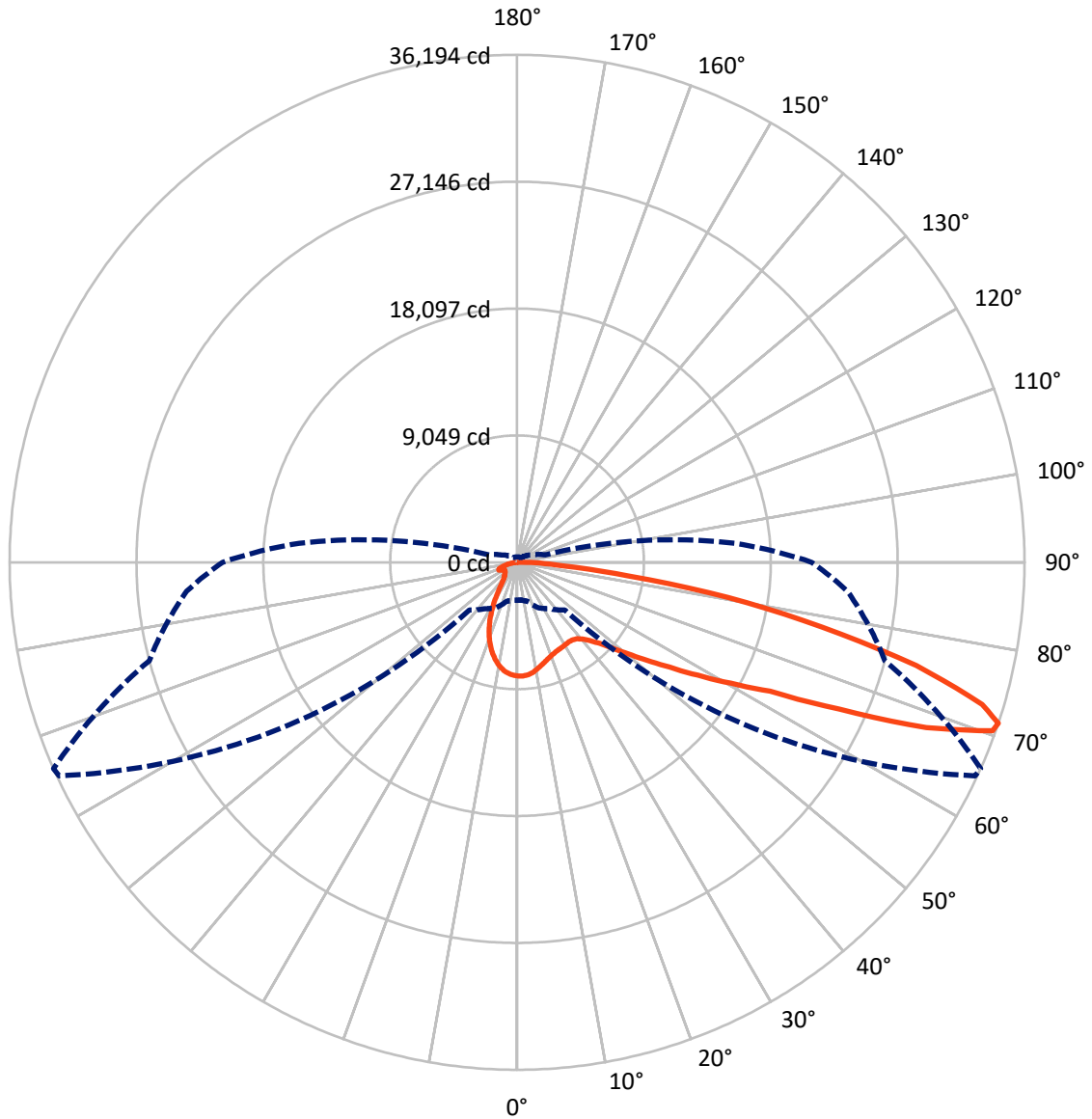
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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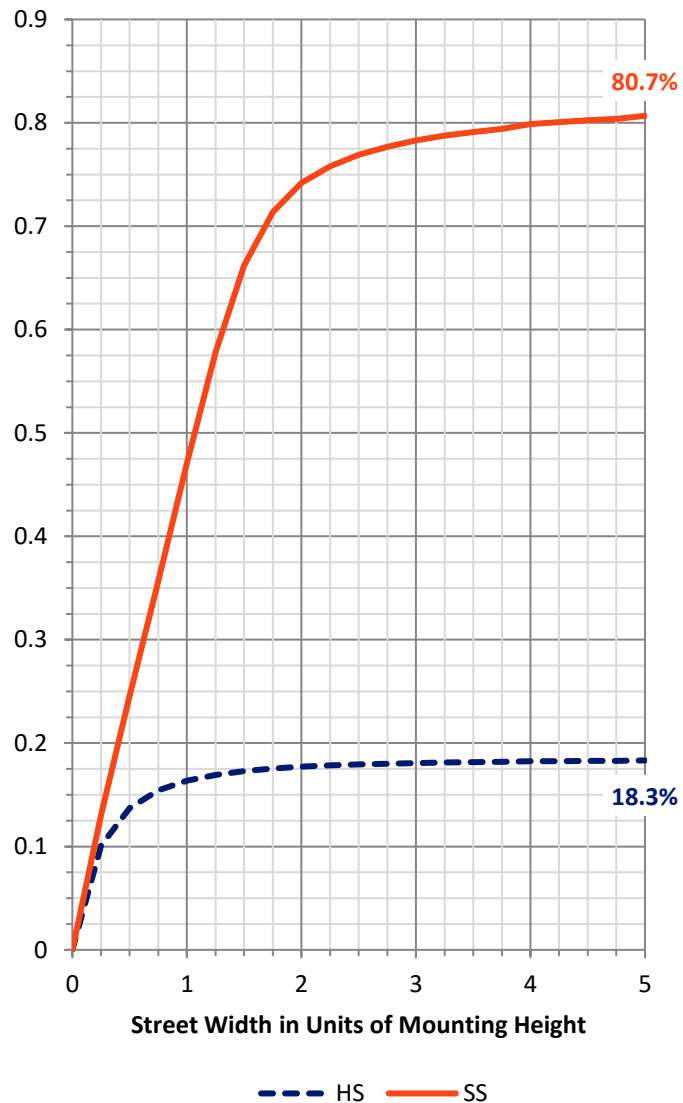
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6558.5	0.0	6558.5
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	28830.1	0.0	28830.1
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	35388.6	0.0	35388.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	713.6	2.0
10°-20°	1711.5	4.8
20°-30°	2299.0	6.5
30°-40°	3024.3	8.5
40°-50°	4399.5	12.4
50°-60°	6872.5	19.4
60°-70°	8609.0	24.3
70°-80°	6566.7	18.6
80°-90°	1192.5	3.4
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°	35388.6	100.0
0°-180°	35388.6	100.0

**Coefficient of Utilization**

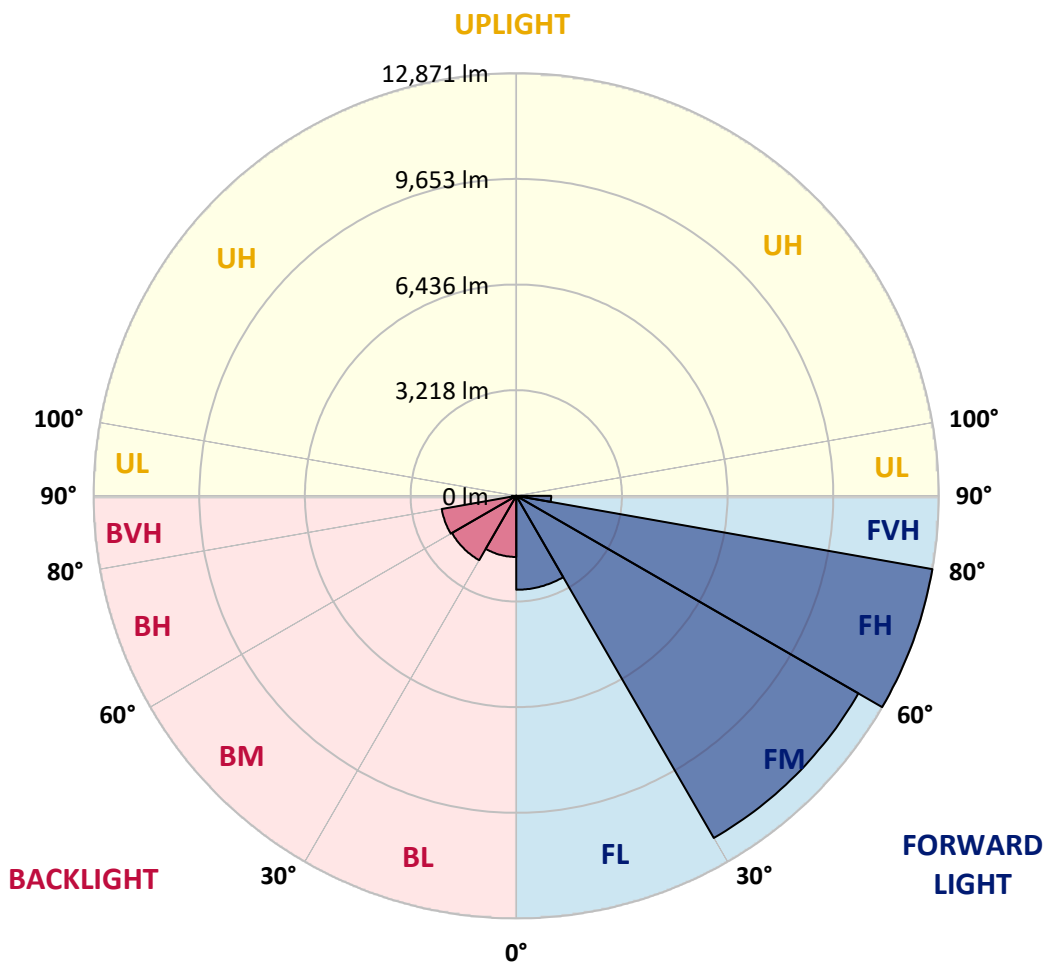


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2861.7	8.1			
FM (30°-60°)	12033.9	34.0			
FH (60°-80°)	12871.2	36.4			G5
FVH (80°-90°)	1063.4	3.0			G5
BL (0°-30°)	1862.4	5.3	B3/2500		
BM (30°-60°)	2262.5	6.4	B2/2500		
BH (60°-80°)	2304.5	6.5	B3/2500		G3/2500
BVH (80°-90°)	129.1	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8106.8	8106.8	8106.8	8106.8	8106.8	8106.8	8106.8	8106.8	8106.8	8106.8	8106.8
2.5°	7956.5	7944.3	7980.9	8018.9	8033.5	8058.0	8094.6	8115.4	8114.2	8117.8	8105.6
5°	7428.7	7412.8	7486.1	7546.0	7660.9	7790.3	7948.0	8060.4	8062.8	8126.4	8143.5
7.5°	6929.0	6918.0	7002.3	7098.9	7232.0	7429.9	7685.3	7927.2	7941.9	8114.2	8174.1
10°	6528.2	6525.8	6607.7	6712.7	6867.9	7089.1	7382.3	7736.6	7758.6	8055.6	8178.9
12.5°	6215.5	6220.3	6291.2	6410.9	6574.7	6805.6	7123.3	7522.8	7558.2	7962.7	8150.9
15°	5984.5	6004.1	6061.5	6182.5	6343.7	6578.3	6904.5	7324.9	7378.6	7858.8	8134.9
17.5°	5852.5	5874.5	5914.9	6015.1	6166.6	6392.7	6701.7	7162.4	7211.2	7779.4	8136.1
20°	5813.4	5831.8	5855.0	5916.1	6044.3	6249.7	6541.7	7015.8	7068.3	7715.8	8148.3
22.5°	5890.5	5903.9	5906.3	5901.4	5979.6	6147.0	6425.6	6908.3	6964.4	7674.3	8156.9
25°	6055.3	6073.7	6060.3	6015.1	5989.4	6092.0	6365.7	6837.4	6893.5	7643.7	8139.9
27.5°	6303.4	6305.8	6294.8	6236.2	6115.2	6098.2	6347.4	6795.8	6849.6	7608.3	8104.4
30°	6640.6	6656.6	6637.0	6557.5	6359.6	6195.9	6369.4	6755.5	6804.4	7563.1	8047.0
32.5°	7035.3	7074.4	7073.1	6990.1	6706.6	6414.6	6459.8	6731.1	6768.9	7515.4	7977.3
35°	7444.6	7498.4	7598.5	7563.1	7212.4	6760.3	6633.3	6770.1	6795.8	7509.4	7928.4
37.5°	7869.8	7923.6	8130.1	8225.4	7814.8	7255.3	6907.0	6908.3	6920.5	7583.9	7924.8
40°	8314.5	8372.0	8682.3	8930.4	8595.6	7882.0	7348.0	7196.6	7183.2	7767.2	7996.9
42.5°	8937.6	8989.0	9361.7	9678.1	9461.8	8684.7	7957.7	7641.3	7613.3	8126.4	8227.8
45°	9725.7	9769.7	10165.6	10504.0	10392.9	9601.1	8723.9	8253.4	8248.6	8725.1	8695.7
47.5°	10662.9	10697.1	11052.6	11380.2	11420.4	10655.6	9686.7	9197.9	9118.5	9546.1	9420.3
50°	11639.1	11677.0	11919.0	12270.8	12570.2	12066.8	10925.6	10355.0	10248.7	10629.9	10446.7
52.5°	12285.5	12335.6	12545.7	12991.7	13862.8	13613.6	12390.6	11757.6	11596.4	11943.4	11802.9
55°	11997.1	12109.6	12430.9	13145.6	14896.6	15976.6	14197.6	13393.7	13211.7	13500.0	13416.9
57.5°	10686.2	10840.0	11278.7	12382.0	15042.0	18058.6	16929.7	15320.5	15192.2	15109.1	15147.1
60°	8290.1	8438.0	8981.7	10419.7	14029.0	19578.6	21041.1	17695.8	17510.0	16724.4	16758.6
62.5°	5867.3	5792.7	6165.4	7217.4	11399.6	19757.0	25719.5	20872.5	20261.6	18430.1	18279.8
65°	4474.3	4457.3	4624.7	4959.4	6904.5	17622.5	28506.5	26211.9	25257.6	20436.3	20082.0
67.5°	3676.4	3645.9	3810.9	4298.4	4446.3	11369.1	28567.6	32406.6	31469.4	22933.8	22166.5
70°	3022.8	2988.6	3142.6	3771.7	4109.1	5765.8	24043.2	36034.2	35984.1	26095.8	23740.1
71°	2710.1	2685.6	2870.1	3568.9	4037.0	4805.5	20758.9	36043.9	36194.3	27166.2	23647.2
72.5°	2206.6	2215.2	2410.7	3176.8	3983.2	4243.4	15257.0	34364.0	34681.6	28186.4	22803.0
75°	1466.2	1473.5	1730.1	2443.6	3862.2	4151.8	8385.4	28835.1	29419.2	27575.5	20807.7
77.5°	984.8	982.3	1157.1	1676.3	3364.9	4151.8	4916.6	21566.5	22208.0	21941.6	16041.4
80°	678.1	673.2	796.7	1157.1	2547.5	4201.8	3801.1	15114.0	15308.3	11849.3	6519.7
82.5°	415.4	419.1	520.5	817.4	1733.8	3781.5	3588.5	8241.2	8029.8	3323.4	1628.7
85°	238.3	237.1	332.4	553.5	1113.1	3191.4	3499.4	3547.0	3253.7	1000.7	588.9
87.5°	85.5	91.7	178.4	306.7	637.8	2222.5	2969.0	1844.9	1662.9	452.1	266.3
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°	8106.8	8106.8	8106.8	8106.8	8106.8	8106.8	8106.8	8106.8	8106.8	8106.8	8106.8
2.5°	8097.1	8104.4	8095.8	8047.0	8005.4	7938.2	7900.4	7847.8	7831.9	7824.6	7844.1
5°	8127.6	8130.1	8058.0	7929.7	7785.5	7615.7	7493.5	7343.2	7272.3	7241.8	7261.3
7.5°	8155.7	8144.7	7987.1	7741.5	7475.1	7179.4	6916.7	6676.0	6535.6	6478.2	6483.0
10°	8159.3	8112.9	7860.0	7480.0	7067.1	6633.3	6230.1	5858.7	5624.0	5471.4	5517.7
12.5°	8121.5	8043.3	7673.1	7141.6	6568.5	5977.2	5432.2	4875.1	4540.3	4385.2	4390.0
15°	8092.2	7950.5	7443.3	6743.3	5973.5	5190.3	4446.3	3791.3	3434.5	3275.7	3201.2
17.5°	8067.8	7850.2	7177.0	6294.8	5271.0	4277.7	3383.3	2799.2	2603.7	2557.3	2537.7
20°	8033.5	7744.0	6880.1	5775.6	4470.7	3256.1	2470.6	2182.2	2183.5	2237.2	2244.5
22.5°	7985.9	7622.9	6563.7	5192.8	3611.7	2371.5	1936.6	1853.5	1937.8	2040.5	2058.8
25°	7915.0	7480.0	6211.7	4548.8	2754.0	1822.9	1654.3	1650.7	1753.4	1860.9	1876.7
27.5°	7814.8	7293.1	5820.8	3857.4	2029.5	1549.3	1482.1	1507.7	1583.4	1661.7	1667.8
30°	7680.4	7075.6	5389.5	3127.9	1590.8	1379.4	1372.1	1395.4	1441.8	1496.7	1501.7
32.5°	7532.6	6854.4	4928.8	2421.7	1362.3	1287.8	1295.1	1306.1	1328.1	1350.1	1355.0
35°	7398.2	6628.4	4457.3	1840.1	1253.6	1228.0	1223.0	1220.6	1223.0	1215.8	1217.0
37.5°	7311.4	6441.5	3966.1	1465.0	1191.3	1175.4	1160.7	1142.4	1121.7	1109.4	1111.9
40°	7279.7	6302.2	3468.8	1265.8	1139.9	1128.9	1100.9	1061.8	1037.4	1030.0	1030.0
42.5°	7365.2	6230.1	2988.6	1165.6	1097.2	1078.9	1032.4	987.3	968.9	967.7	966.5
45°	7626.7	6259.4	2531.7	1110.7	1058.1	1022.7	961.5	923.7	911.5	913.9	912.7
47.5°	8095.8	6443.9	2140.6	1074.0	1019.0	972.5	904.2	873.6	859.0	859.0	860.2
50°	8893.7	6875.2	1829.1	1043.4	986.0	926.1	862.6	824.7	805.2	803.9	803.9
52.5°	10055.7	7647.4	1634.8	1017.8	949.3	884.6	821.1	773.5	750.2	745.3	742.9
55°	11512.1	8754.4	1581.0	1000.7	900.5	839.4	770.9	723.3	697.6	686.6	685.4
57.5°	13140.8	10100.9	1687.3	979.9	850.4	785.7	716.0	670.8	643.9	630.5	629.3
60°	14789.0	11570.8	2121.1	950.6	808.9	727.0	659.8	618.3	591.3	576.7	574.3
62.5°	16439.7	13120.0	3006.9	948.1	779.5	670.8	602.3	566.9	541.2	525.4	521.8
65°	18301.7	14815.9	4013.7	1012.9	769.7	619.5	543.7	515.6	493.6	479.0	477.7
67.5°	20440.0	16730.5	3917.2	1146.1	802.7	573.0	488.7	466.7	450.9	438.7	437.5
70°	21443.1	16431.2	2435.1	1240.2	849.2	527.8	436.2	420.3	408.1	399.5	395.9
71°	21022.8	15601.6	2041.7	1229.2	844.3	508.3	415.4	403.2	391.0	383.6	380.0
72.5°	19876.7	14228.2	1703.2	1143.7	789.3	472.9	388.5	376.3	365.4	356.8	354.4
75°	17836.2	12707.1	1363.6	913.9	629.3	399.5	340.9	327.4	318.9	314.0	309.1
77.5°	13111.4	9068.4	1054.4	722.1	463.1	326.2	290.8	281.0	272.5	265.1	261.5
80°	5022.9	3512.8	709.8	538.8	339.6	257.9	234.6	229.7	221.1	216.3	216.3
82.5°	1352.6	1049.6	378.8	326.2	227.3	188.2	179.6	177.2	169.8	160.0	161.3
85°	547.4	463.1	212.6	179.6	139.3	111.2	120.9	122.2	113.6	101.4	102.7
87.5°	240.7	196.7	118.5	79.5	61.1	42.8	55.0	55.0	50.1	41.5	37.9
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)