

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: P319792

Luminaire Tested: **GLEON-SA8A-827-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319792  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA8A-827-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27457 lumens  
Efficiency: N/A  
Efficacy: 106.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

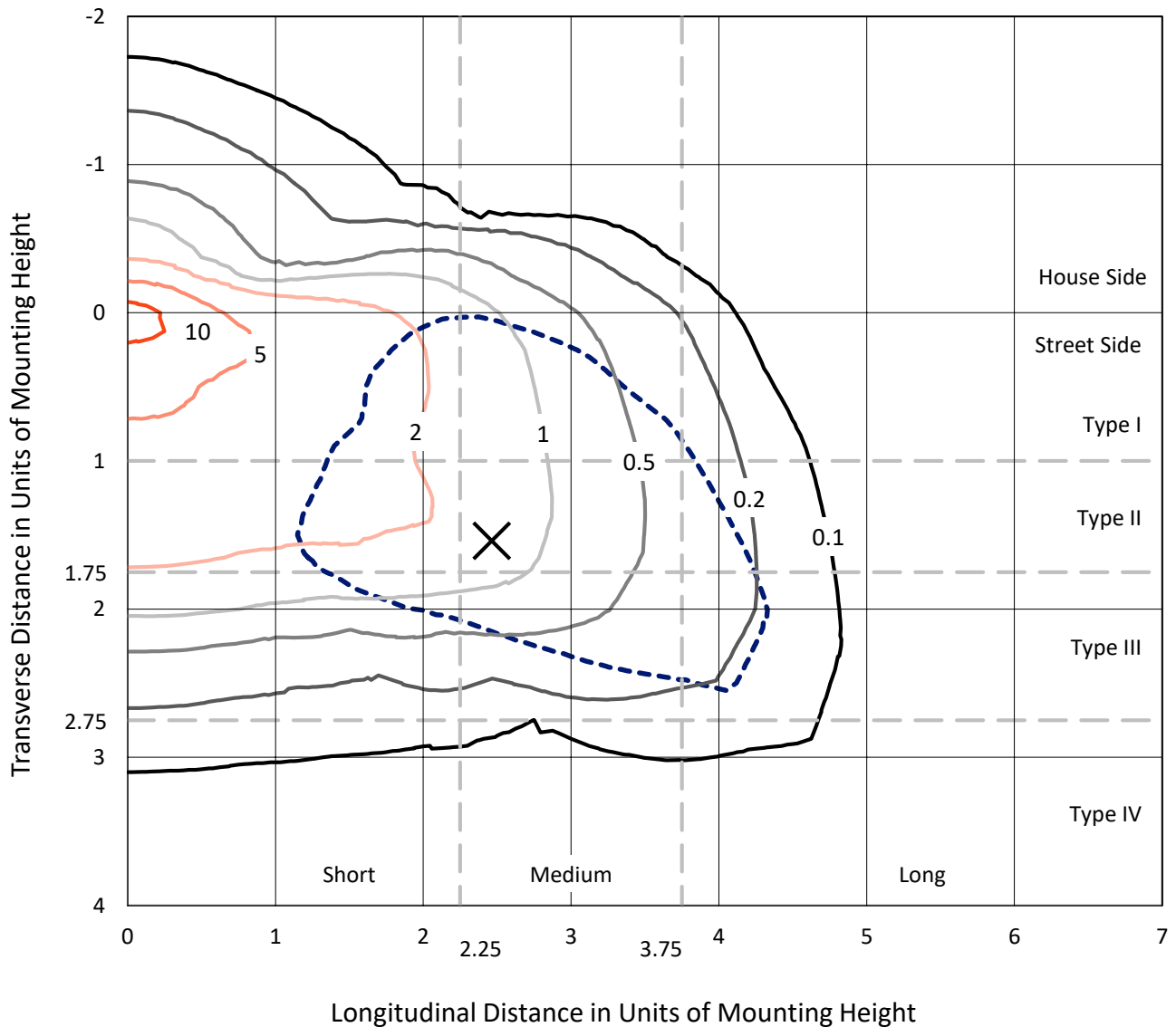
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

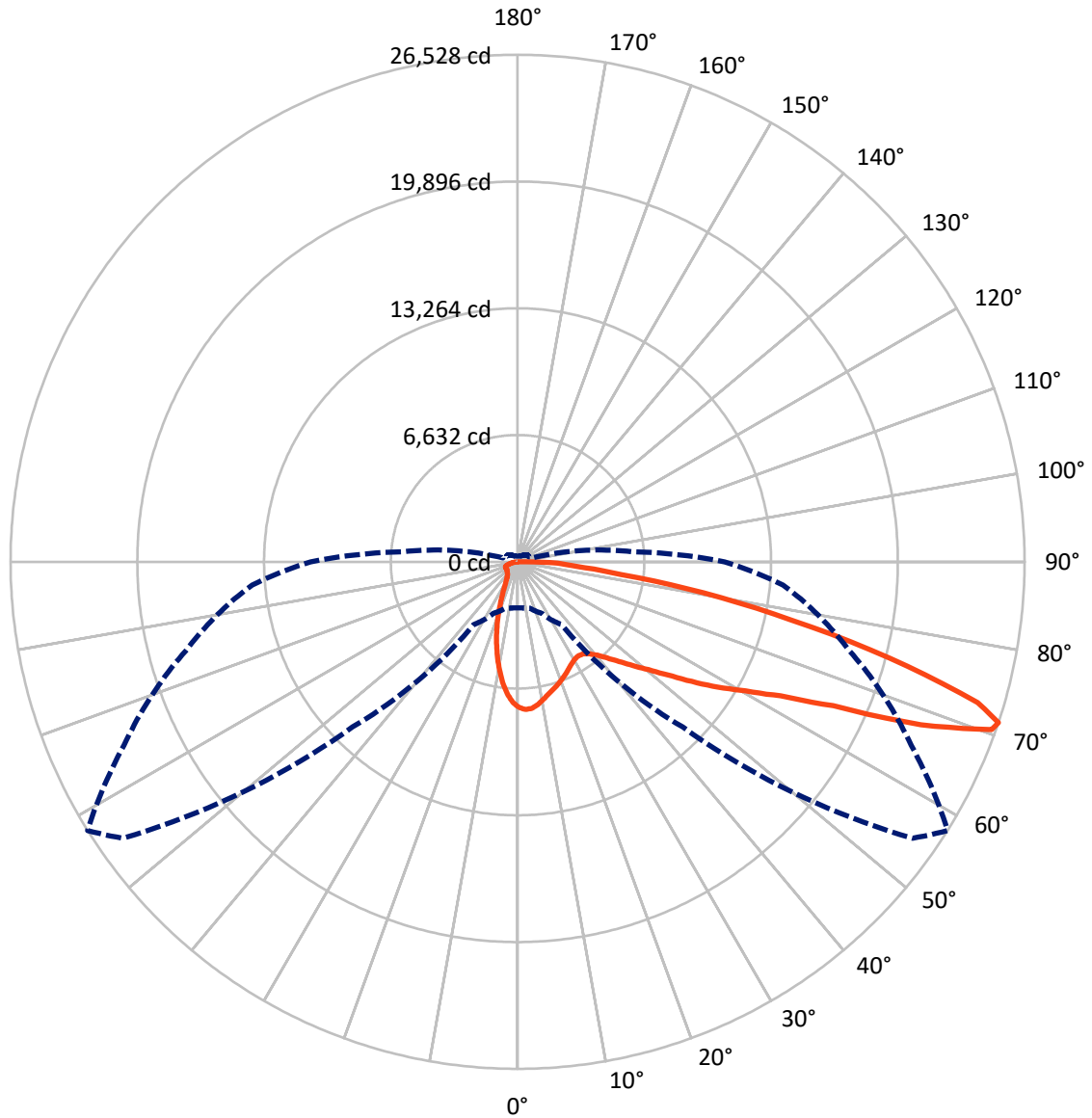
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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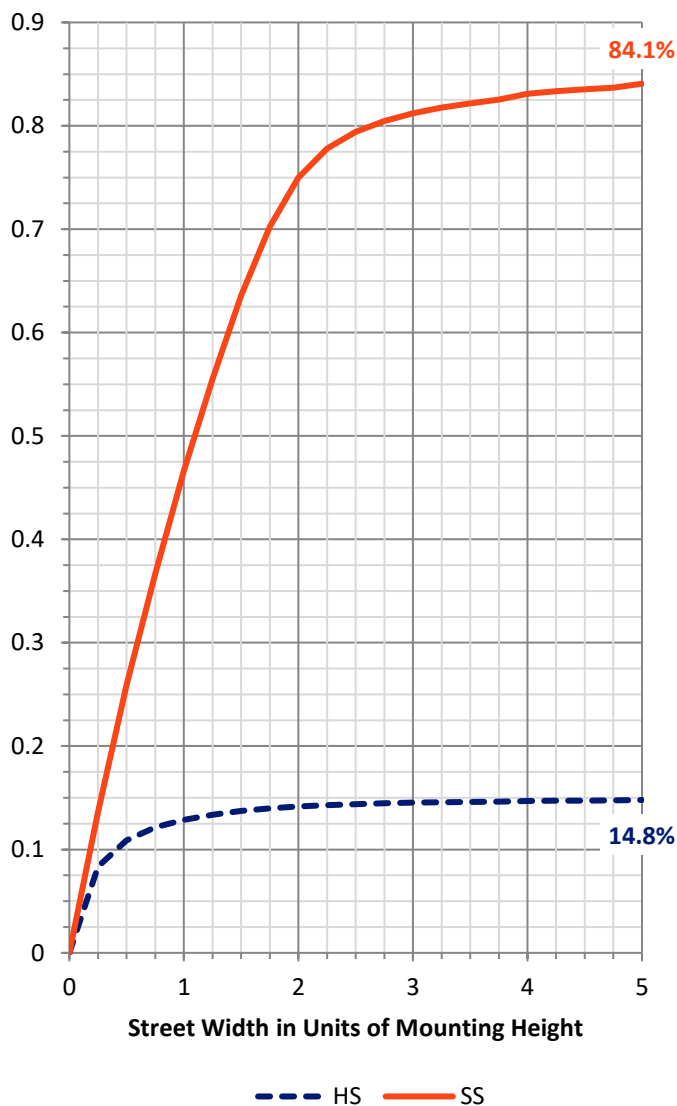
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4105.0	0.0	4105.0
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	23352.0	0.0	23352.0
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	27457.0	0.0	27457.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	656.3	2.4
10°-20°	1459.3	5.3
20°-30°	1854.7	6.8
30°-40°	2362.5	8.6
40°-50°	3350.1	12.2
50°-60°	5184.4	18.9
60°-70°	7058.0	25.7
70°-80°	4708.5	17.1
80°-90°	823.2	3.0
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°	27457.0	100.0
0°-180°	27457.0	100.0

**Coefficient of Utilization**

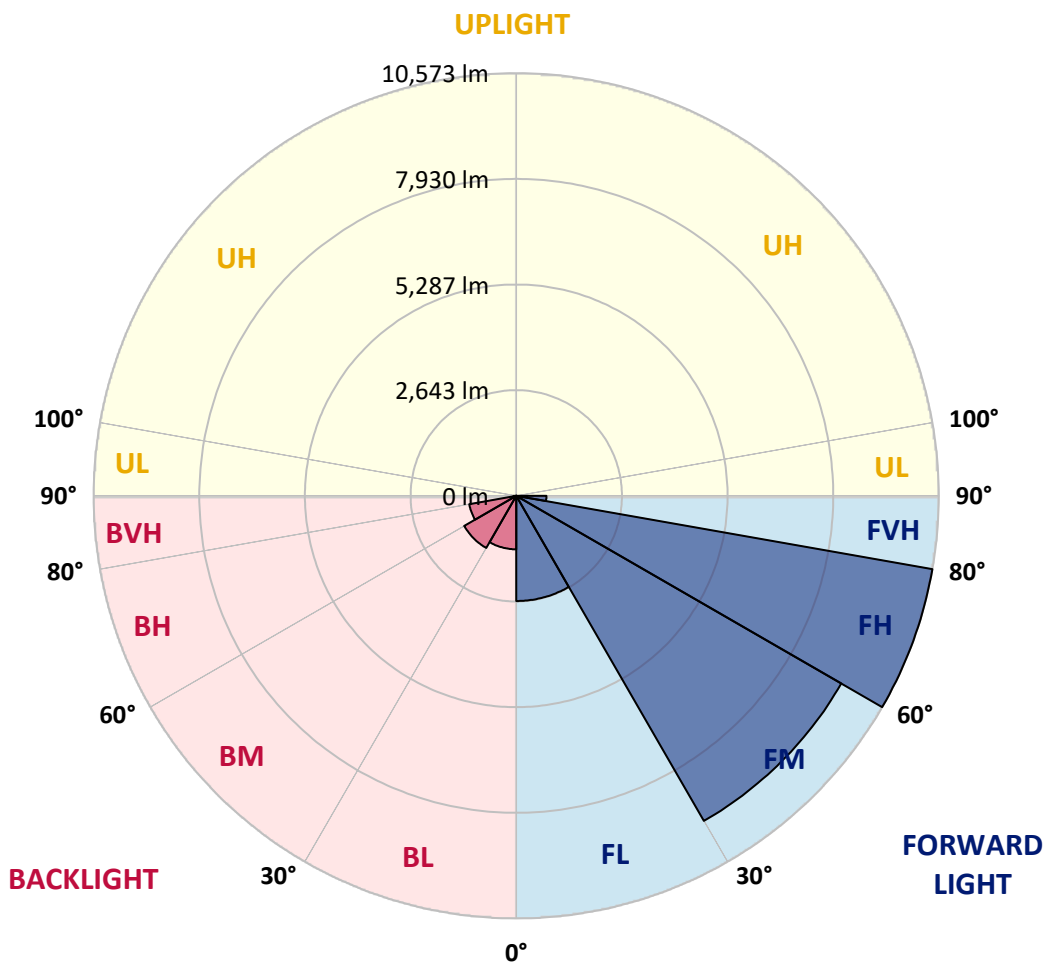


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2632.2	9.6			
FM (30°-60°)	9391.6	34.2			
FH (60°-80°)	10573.4	38.5			G4/12000
FVH (80°-90°)	754.8	2.7			G5
BL (0°-30°)	1338.1	4.9	B3/2500		
BM (30°-60°)	1505.4	5.5	B2/2500		
BH (60°-80°)	1193.1	4.3	B3/2500		G3/2500
BVH (80°-90°)	68.4	0.2			G1/100
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°	58°	65°	75°	85°
0°	7607.4	7607.4	7607.4	7607.4	7607.4	7607.4	7607.4	7607.4	7607.4	7607.4	7607.4
2.5°	7809.2	7798.7	7802.5	7794.9	7776.7	7758.5	7731.8	7736.5	7699.2	7643.8	7574.9
5°	7661.9	7658.1	7686.8	7703.1	7716.5	7705.9	7698.3	7707.8	7653.3	7576.8	7457.3
7.5°	7353.0	7310.9	7347.3	7401.8	7453.4	7492.7	7544.3	7551.0	7516.6	7436.2	7279.4
10°	6914.0	6873.8	6927.4	7012.5	7115.8	7209.6	7313.8	7332.9	7339.6	7266.9	7076.6
12.5°	6458.8	6428.1	6481.7	6601.3	6772.5	6916.9	7083.3	7112.0	7171.3	7122.5	6889.1
15°	6051.3	6039.8	6104.9	6222.5	6419.5	6640.5	6880.5	6933.1	7033.6	7017.3	6742.8
17.5°	5699.4	5696.5	5746.2	5869.6	6087.7	6366.9	6678.7	6767.7	6916.9	6936.0	6622.3
20°	5437.3	5431.6	5466.0	5556.8	5781.6	6098.2	6460.7	6583.1	6798.3	6865.2	6498.0
22.5°	5296.7	5295.7	5296.7	5339.7	5523.4	5817.9	6248.3	6397.5	6682.6	6808.8	6360.2
25°	5272.8	5269.9	5248.9	5244.1	5348.3	5583.6	6037.9	6202.4	6572.6	6769.6	6229.2
27.5°	5335.0	5338.8	5311.0	5266.1	5287.1	5429.6	5855.2	6031.2	6484.6	6761.9	6138.4
30°	5464.1	5462.2	5438.2	5391.4	5350.3	5372.3	5725.2	5901.2	6425.3	6795.4	6076.2
32.5°	5606.6	5617.1	5612.3	5586.5	5525.3	5437.3	5686.0	5858.1	6408.1	6875.8	6049.4
35°	5777.8	5789.3	5823.7	5843.8	5772.0	5630.5	5770.1	5919.3	6457.8	7026.9	6092.4
37.5°	5940.4	5970.0	6066.6	6151.7	6090.5	5932.7	5993.9	6100.1	6611.8	7265.0	6208.2
40°	6127.8	6153.7	6311.5	6492.2	6482.7	6319.1	6354.5	6425.3	6883.4	7606.5	6417.6
42.5°	6312.4	6364.1	6592.7	6849.0	6922.6	6778.2	6834.6	6871.9	7266.0	8058.9	6783.0
45°	6558.2	6613.7	6931.2	7240.2	7412.3	7331.0	7420.9	7435.3	7747.1	8674.8	7313.8
47.5°	6930.3	6993.4	7363.5	7687.8	7950.8	7959.4	8107.6	8101.9	8347.7	9379.7	7982.3
50°	7509.9	7600.7	7903.9	8207.1	8526.6	8704.4	8902.4	8874.7	9067.9	10130.5	8752.3
52.5°	8269.3	8311.4	8536.1	8759.9	9156.8	9555.7	9839.7	9814.9	9884.7	10902.3	9626.4
55°	9056.4	9088.0	9180.7	9303.2	9836.9	10487.2	11087.9	11048.7	10871.7	11703.8	10490.1
57.5°	9764.2	9828.2	9892.3	9943.0	10521.7	11460.9	12364.7	12367.6	11942.9	12568.4	11382.4
60°	9874.2	9930.6	10354.3	10754.1	11693.3	12759.7	13731.4	13702.7	13051.4	13506.7	12377.1
62.5°	8728.4	8855.6	9563.3	10626.9	12821.9	15135.5	15475.0	15439.6	14377.0	14663.0	13535.4
65°	6255.0	6399.5	7253.5	8851.7	12274.8	17753.2	18621.6	18145.3	16184.7	16085.2	14891.6
67.5°	3608.6	3643.0	4013.2	5296.7	9346.2	17890.0	23422.0	22755.3	18991.8	17698.7	15555.3
70°	2668.4	2667.5	2755.5	3259.5	5057.6	14600.8	25704.9	26302.7	21947.1	18229.5	14617.1
71°	2413.1	2415.9	2514.4	2966.8	4005.5	12221.2	25220.0	26528.4	22725.7	17967.4	13938.0
72.5°	2064.0	2073.5	2210.3	2660.8	3369.5	8428.0	23131.2	25174.1	23094.9	17320.9	12875.4
75°	1565.7	1587.7	1777.0	2242.8	3079.7	4274.3	16976.6	20102.2	20516.3	15283.7	9567.1
77.5°	1117.1	1142.0	1356.2	1886.1	2927.6	3221.2	11369.1	14663.0	15098.2	9794.8	4315.4
80°	705.8	735.5	897.1	1500.6	2750.7	3058.7	7144.5	9856.0	8232.9	3134.2	1098.0
82.5°	414.1	437.1	556.6	980.3	2246.6	2945.8	4203.5	5463.1	3204.0	946.9	499.3
85°	240.1	250.6	347.2	624.5	1631.7	2780.3	3088.3	3053.9	1390.6	462.9	236.2
87.5°	111.9	124.3	205.6	326.1	905.7	2015.2	2440.8	2108.9	864.6	217.1	110.9
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°	7607.4	7607.4	7607.4	7607.4	7607.4	7607.4	7607.4	7607.4	7607.4	7607.4	7607.4
2.5°	7541.4	7525.2	7457.3	7397.0	7333.9	7251.6	7160.8	7149.3	7093.8	7104.3	7085.2
5°	7392.2	7351.1	7187.6	7039.3	6864.3	6707.4	6537.2	6458.8	6345.9	6338.2	6309.6
7.5°	7178.9	7102.4	6849.0	6567.8	6286.6	6018.8	5753.9	5579.8	5401.9	5326.3	5319.6
10°	6938.9	6808.8	6435.8	6019.8	5614.2	5223.1	4844.3	4564.1	4311.6	4192.0	4187.2
12.5°	6711.3	6519.0	6007.3	5441.1	4886.4	4379.5	3860.1	3491.9	3175.3	3069.2	3024.2
15°	6518.1	6247.4	5590.3	4866.3	4193.0	3489.0	2898.0	2510.6	2218.0	2116.6	2097.4
17.5°	6330.6	5982.5	5162.8	4285.8	3471.8	2698.1	2106.1	1818.2	1662.3	1621.1	1620.2
20°	6144.1	5709.9	4716.1	3691.8	2774.6	2018.1	1619.2	1490.1	1437.5	1432.7	1425.1
22.5°	5932.7	5421.0	4246.5	3096.0	2165.4	1586.7	1376.3	1324.7	1318.0	1335.2	1335.2
25°	5734.7	5134.1	3770.2	2512.5	1684.3	1323.7	1229.0	1218.5	1236.7	1267.3	1270.1
27.5°	5550.1	4857.7	3305.4	1994.2	1349.5	1165.9	1126.7	1139.1	1171.6	1207.0	1208.0
30°	5398.1	4596.6	2854.0	1571.4	1140.1	1048.2	1041.5	1066.4	1101.8	1129.5	1136.2
32.5°	5280.4	4373.7	2417.8	1263.4	1003.3	960.3	966.0	987.0	1009.0	1024.3	1034.9
35°	5225.9	4182.5	2015.2	1065.5	916.3	892.3	900.0	911.5	921.0	932.5	941.1
37.5°	5235.5	4034.2	1655.6	942.1	857.9	845.5	845.5	845.5	845.5	851.2	852.2
40°	5324.4	3949.1	1362.9	863.7	818.7	805.3	794.8	785.2	777.6	781.4	779.5
42.5°	5552.1	3941.4	1148.7	813.9	787.1	765.1	744.1	730.7	721.1	725.0	726.9
45°	5938.5	4037.1	1004.2	778.5	757.5	724.0	697.2	682.9	676.2	688.6	690.5
47.5°	6438.7	4245.6	916.3	752.7	729.8	685.8	657.1	643.7	645.6	663.8	668.5
50°	7083.3	4584.2	874.2	736.4	710.6	653.2	623.6	612.1	617.9	643.7	649.4
52.5°	7791.1	5071.9	879.0	731.7	698.2	629.3	597.8	584.4	593.9	617.9	622.6
55°	8607.8	5658.2	958.3	738.4	680.0	614.0	576.7	553.8	561.4	583.4	587.2
57.5°	9515.5	6329.6	1118.1	736.4	657.1	599.7	554.7	520.3	526.0	539.4	543.3
60°	10460.4	7140.7	1365.8	742.2	646.5	582.5	525.1	482.0	480.1	491.6	493.5
62.5°	11594.8	8078.9	1648.9	746.0	653.2	560.5	485.9	443.8	438.0	440.9	442.8
65°	12763.5	8758.0	1542.7	730.7	674.3	542.3	451.4	406.5	396.0	394.0	395.0
67.5°	12799.9	8030.2	1081.7	700.1	682.9	532.7	425.6	374.9	357.7	351.0	350.1
70°	11479.0	6523.8	842.6	667.6	648.5	517.4	401.7	349.1	323.3	312.8	311.8
71°	10834.4	6005.4	798.6	651.3	622.6	502.1	391.2	337.6	310.8	299.4	297.4
72.5°	9823.5	5383.7	745.1	625.5	572.9	462.9	371.1	321.4	293.6	280.2	277.4
75°	7049.8	3520.6	639.9	557.6	474.4	369.2	325.2	288.8	264.9	248.7	246.8
77.5°	2716.3	1401.2	484.0	463.9	363.4	288.8	267.8	249.6	232.4	216.2	215.2
80°	839.7	626.5	352.9	349.1	263.0	215.2	208.5	203.7	197.0	179.8	176.0
82.5°	448.6	359.6	242.9	225.7	172.2	143.5	151.1	153.0	154.0	135.8	133.9
85°	214.2	190.3	136.8	128.2	100.4	80.3	92.8	100.4	101.4	83.2	77.5
87.5°	102.3	99.5	64.1	48.8	37.3	26.8	32.5	40.2	44.0	31.6	27.7
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)