

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: P320124

Luminaire Tested: **GLEON-SA0B-827-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320124  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA0B-827-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39511 lumens  
Efficiency: N/A  
Efficacy: 94.3 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

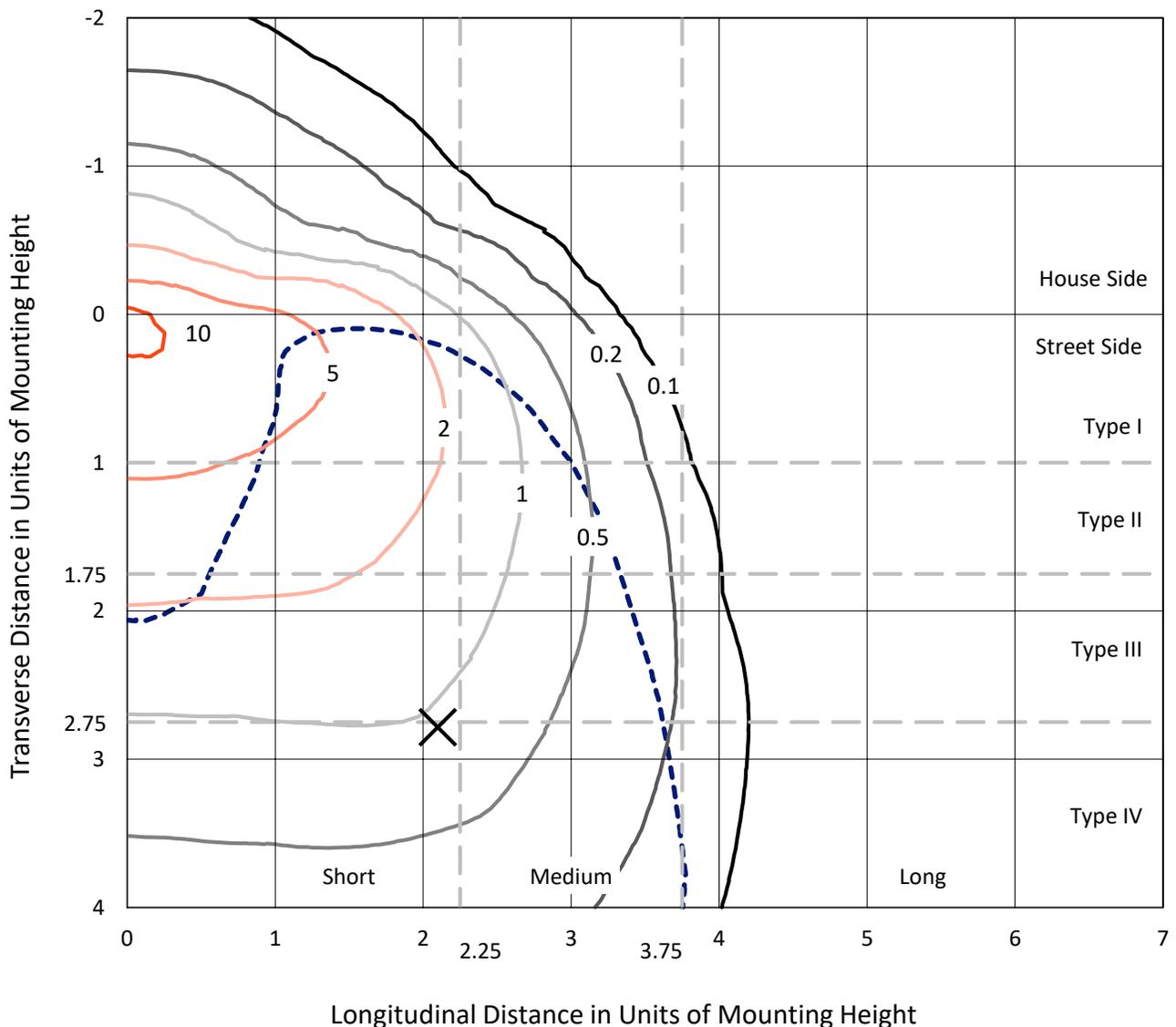
Input Watts (W): 419  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

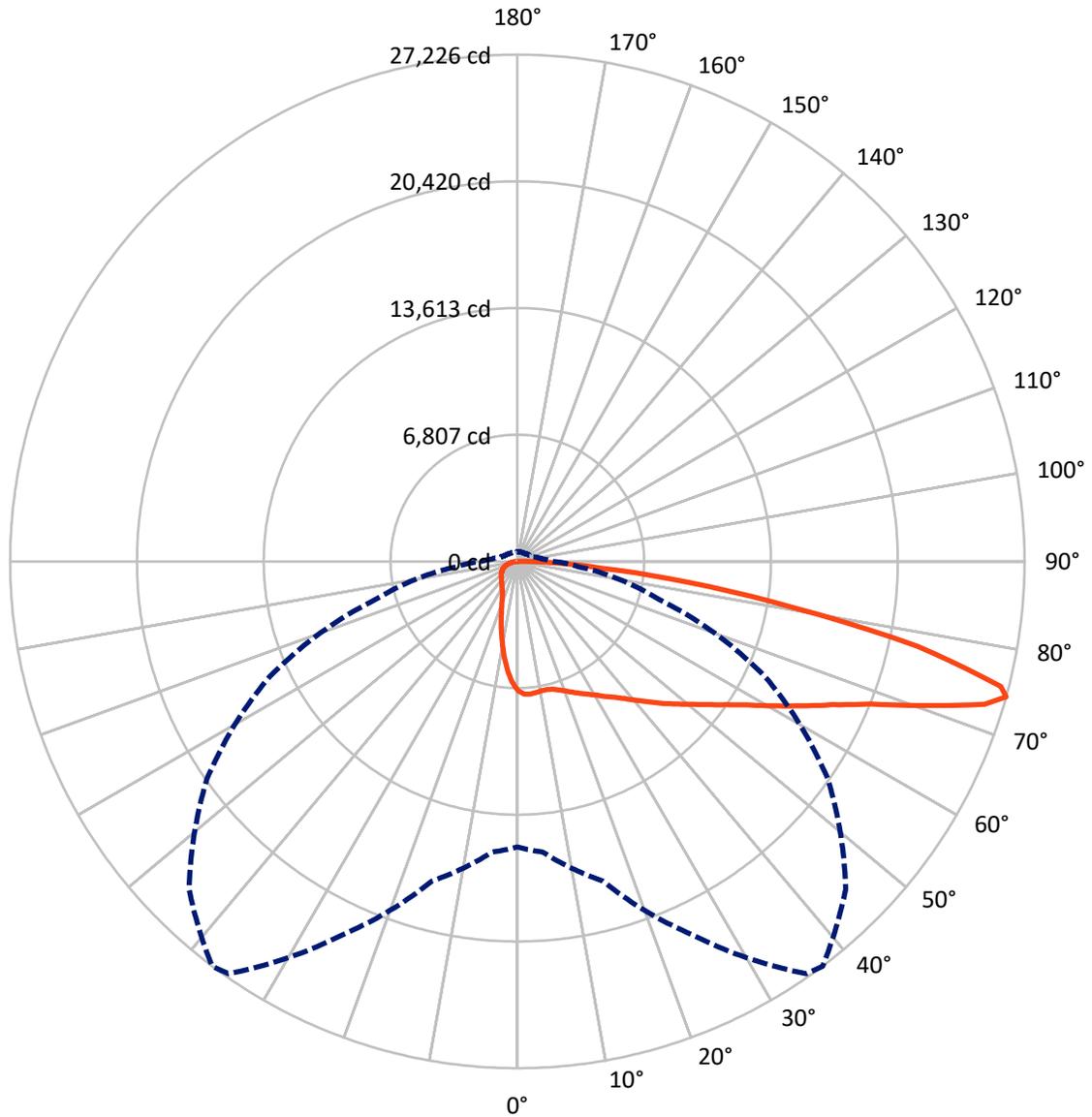
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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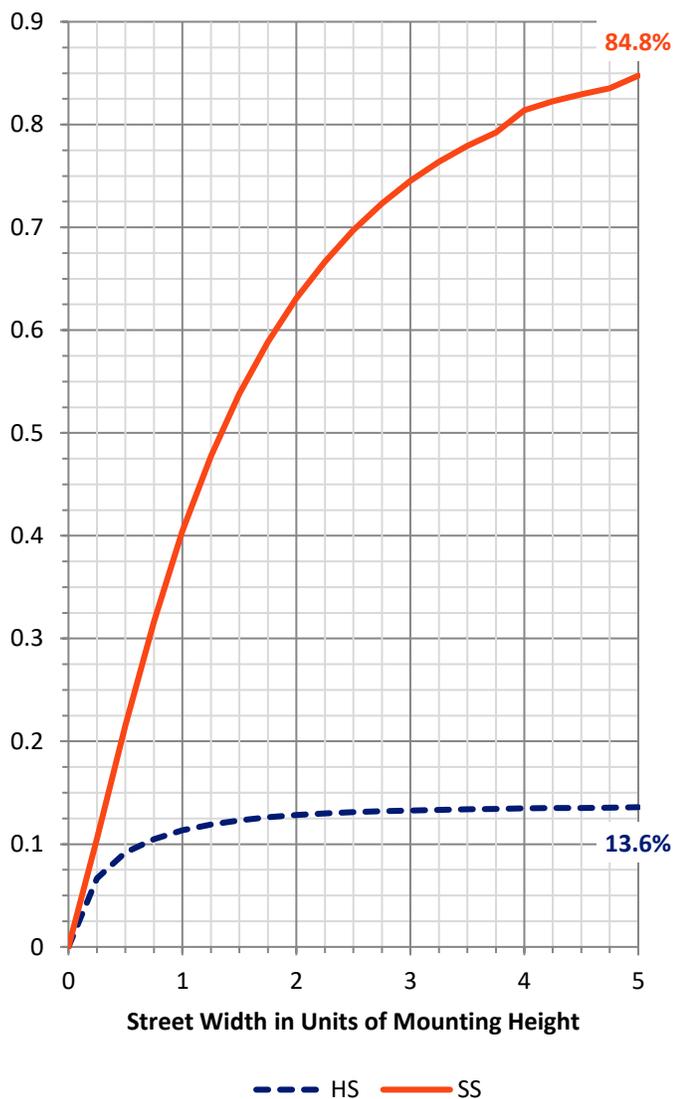
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5436.4	0.0	5436.4
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	34074.6	0.0	34074.6
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	39511.0	0.0	39511.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	613.1	1.6
10°-20°	1571.4	4.0
20°-30°	2421.3	6.1
30°-40°	3520.9	8.9
40°-50°	5182.1	13.1
50°-60°	7277.3	18.4
60°-70°	9210.9	23.3
70°-80°	8110.5	20.5
80°-90°	1603.6	4.1
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°	39511.0	100.0
0°-180°	39511.0	100.0

**Coefficient of Utilization**



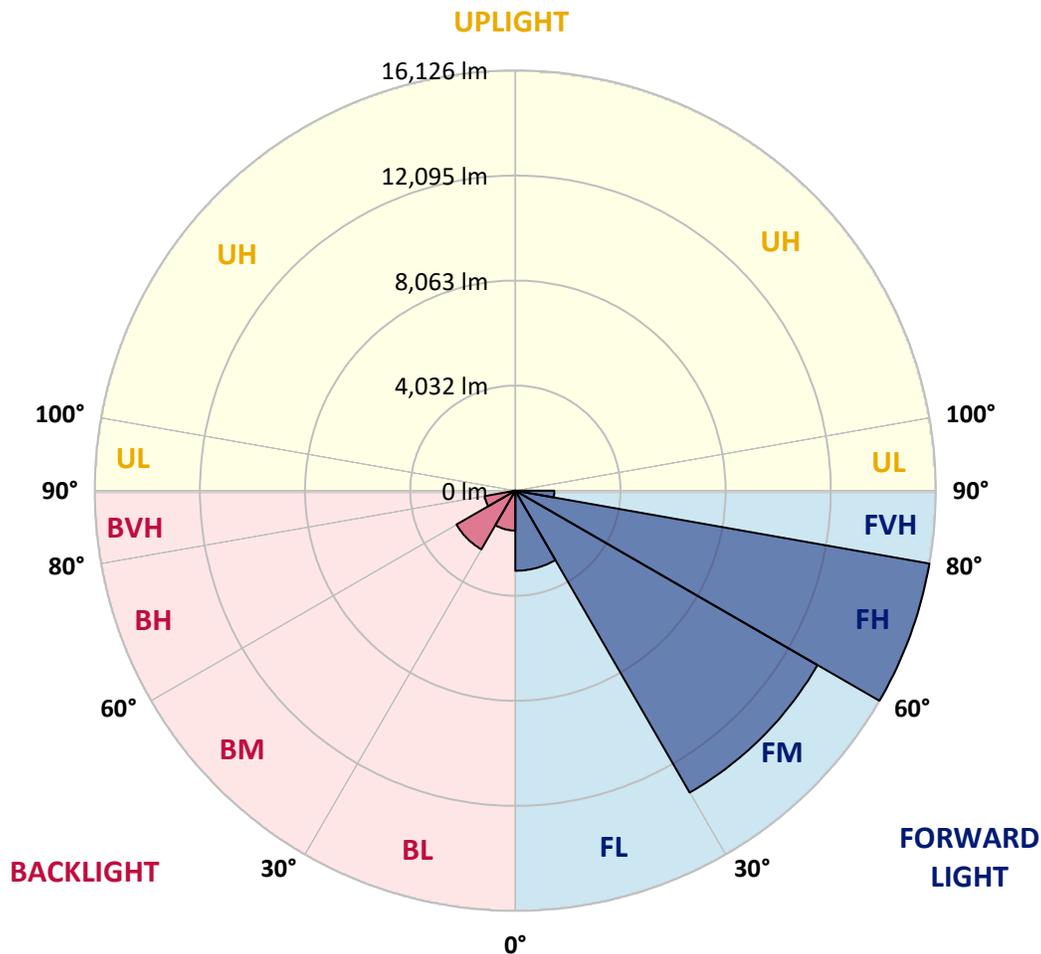
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3074.4	7.8			
FM (30°-60°)	13378.7	33.9			
FH (60°-80°)	16126.4	40.8			G5
FVH (80°-90°)	1495.0	3.8			G5
BL (0°-30°)	1531.3	3.9	B3/2500		
BM (30°-60°)	2601.5	6.6	B3/5000		
BH (60°-80°)	1195.0	3.0	B3/2500		G3/2500
BVH (80°-90°)	108.6	0.3			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	6961.7	6961.7	6961.7	6961.7	6961.7	6961.7	6961.7	6961.7	6961.7	6961.7	6961.7
2.5°	7199.7	7201.1	7199.7	7188.5	7162.1	7139.8	7121.7	7095.3	7036.8	6992.3	6925.5
5°	7267.9	7259.5	7254.0	7233.1	7191.3	7166.3	7131.5	7081.4	6985.3	6896.3	6787.7
7.5°	7235.9	7226.1	7213.6	7188.5	7141.2	7120.3	7071.6	7006.2	6890.7	6773.8	6617.9
10°	7137.0	7134.3	7128.7	7123.1	7082.8	7066.1	7021.5	6951.9	6837.8	6695.9	6513.5
12.5°	7027.1	7034.1	7056.3	7085.6	7067.5	7059.1	7031.3	6984.0	6867.0	6713.9	6494.0
15°	6957.5	6977.0	7036.8	7113.4	7128.7	7125.9	7119.0	7088.3	6964.5	6794.7	6538.6
17.5°	6933.8	6965.9	7080.0	7206.6	7251.2	7260.9	7263.7	7210.8	7073.0	6893.5	6584.5
20°	6977.0	7017.4	7184.4	7358.3	7429.3	7434.9	7422.4	7330.5	7176.0	6978.4	6609.6
22.5°	7107.8	7144.0	7352.8	7549.0	7629.7	7638.1	7600.5	7461.3	7284.6	7078.6	6644.4
25°	7359.7	7404.3	7613.0	7809.3	7851.0	7852.4	7798.1	7625.6	7426.5	7219.2	6719.5
27.5°	7688.2	7732.7	7920.6	8112.7	8090.4	8077.9	8004.1	7831.5	7611.6	7412.6	6853.1
30°	8054.2	8102.9	8281.1	8417.5	8364.6	8339.5	8279.7	8057.0	7869.1	7677.1	7057.7
32.5°	8432.8	8477.3	8633.2	8726.5	8659.7	8648.5	8558.1	8354.9	8204.5	8080.7	7389.0
35°	8821.1	8853.1	9006.2	9059.1	8970.0	8967.2	8942.2	8755.7	8661.0	8719.5	7870.5
37.5°	9217.8	9226.1	9356.9	9359.7	9333.3	9344.4	9370.9	9253.9	9280.4	9462.7	8496.8
40°	9571.3	9593.5	9688.2	9717.4	9763.3	9802.3	9934.5	9858.0	10062.6	10385.5	9276.2
42.5°	9832.9	9876.1	10027.8	10102.9	10251.9	10313.1	10499.6	10570.6	10982.5	11466.9	10203.1
45°	10054.2	10121.0	10364.6	10519.1	10771.0	10878.2	11145.4	11383.4	12022.2	12640.1	11178.8
47.5°	10293.6	10378.5	10683.3	10978.4	11320.7	11441.8	11927.6	12283.9	13131.4	13820.4	12098.7
50°	10645.7	10711.1	11009.0	11472.4	11899.7	12055.6	12727.8	13238.6	14258.8	14944.9	12896.2
52.5°	11137.0	11112.0	11363.9	12013.8	12587.3	12779.3	13582.4	14254.6	15401.4	15962.3	13569.9
55°	11631.1	11589.4	11766.1	12580.3	13388.9	13590.7	14523.2	15274.8	16488.4	16878.1	14086.2
57.5°	12180.9	12101.5	12250.5	13219.1	14301.9	14542.7	15576.8	16359.0	17557.3	17618.5	14414.7
60°	12747.3	12640.1	12807.2	14011.1	15461.3	15745.2	16809.9	17416.7	18565.0	18211.4	14520.4
62.5°	13242.8	13167.6	13425.1	14894.8	16768.2	17079.9	18020.8	18541.3	19558.7	18457.8	14139.1
65°	13675.6	13688.2	14133.5	15888.6	18225.4	18558.0	19409.8	19927.5	20340.9	18311.7	13247.0
67.5°	14192.0	14263.0	15022.9	17196.8	20059.7	20424.4	21430.6	21439.0	20777.9	17454.3	11490.5
70°	14944.9	15091.1	16246.3	19011.7	22667.9	23169.0	23945.6	22326.9	20164.1	15130.0	9041.0
72.5°	15613.0	15885.8	17547.6	21088.3	25846.8	26226.7	25416.7	21814.8	17599.1	11338.8	5632.5
74°	15341.6	15679.8	17784.2	22111.2	27043.7	27226.0	24919.8	20320.0	14673.5	7852.4	3273.5
75°	14757.0	15124.5	17439.0	22101.5	26892.0	26790.4	23720.1	18612.3	12084.8	5355.6	2178.1
77.5°	11909.5	12297.8	14694.4	18942.1	22050.0	21953.9	18221.2	12485.7	5292.9	1756.4	1106.5
80°	6924.1	7220.6	9121.7	12029.2	14868.4	15042.4	11983.2	6178.1	2082.1	986.8	750.2
82.5°	3075.8	3280.4	4406.4	6140.5	8972.8	9196.9	6275.5	3237.3	1286.0	599.9	450.9
85°	2018.1	2169.8	2675.0	2924.1	4272.8	4425.9	3071.7	2520.5	849.0	329.9	331.2
87.5°	1451.6	1597.8	1987.5	1735.6	1961.0	1856.6	1671.5	2332.6	341.0	187.9	111.3
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°	6961.7	6961.7	6961.7	6961.7	6961.7	6961.7	6961.7	6961.7	6961.7	6961.7	6961.7
2.5°	6896.3	6874.0	6823.9	6729.3	6676.4	6631.8	6558.1	6514.9	6495.4	6494.0	6502.4
5°	6725.1	6673.6	6544.2	6385.5	6258.8	6143.3	6000.0	5913.7	5852.4	5816.2	5826.0
7.5°	6526.1	6445.3	6242.1	5988.8	5785.6	5561.6	5340.3	5208.0	5105.1	5028.5	5042.4
10°	6389.7	6278.3	5981.9	5617.2	5279.0	4953.3	4648.5	4466.2	4321.5	4210.1	4218.5
12.5°	6343.7	6193.4	5782.8	5295.7	4821.1	4375.8	3977.7	3698.0	3549.0	3422.4	3432.1
15°	6350.7	6148.9	5615.8	5006.2	4409.2	3848.3	3365.3	3038.3	2836.4	2748.8	2750.2
17.5°	6356.3	6097.4	5440.5	4695.9	4001.4	3355.6	2830.9	2499.6	2309.0	2228.2	2229.6
20°	6338.2	6013.9	5223.4	4339.6	3575.5	2903.3	2395.3	2114.1	1969.4	1906.7	1906.7
22.5°	6314.5	5915.1	4978.4	3981.9	3155.2	2510.8	2083.5	1869.2	1785.7	1743.9	1742.5
25°	6325.6	5841.3	4727.9	3614.5	2768.3	2197.6	1876.1	1734.2	1678.5	1652.0	1650.7
27.5°	6385.5	5806.5	4496.8	3248.4	2430.0	1962.4	1736.9	1636.7	1600.5	1583.8	1583.8
30°	6494.0	5806.5	4256.1	2936.7	2148.9	1788.4	1629.8	1561.6	1536.5	1525.4	1525.4
32.5°	6683.3	5838.5	4023.6	2627.7	1924.8	1652.0	1540.7	1494.8	1475.3	1469.7	1469.7
35°	7009.0	5947.1	3796.8	2335.4	1743.9	1540.7	1455.8	1429.4	1415.4	1414.0	1418.2
37.5°	7466.9	6168.4	3583.8	2119.7	1615.9	1450.2	1384.8	1363.9	1355.6	1362.6	1368.1
40°	8043.1	6469.0	3390.4	1924.8	1518.4	1377.9	1319.4	1305.5	1301.3	1311.1	1319.4
42.5°	8739.0	6875.4	3231.7	1784.3	1443.3	1316.6	1263.7	1247.0	1242.9	1254.0	1265.1
45°	9491.9	7312.4	3120.4	1679.9	1384.8	1270.7	1215.0	1196.9	1188.6	1194.1	1206.7
47.5°	10176.7	7725.8	3075.8	1606.1	1329.2	1231.7	1171.9	1149.6	1135.7	1132.9	1142.7
50°	10754.3	8033.4	3096.7	1561.6	1284.6	1188.6	1130.1	1105.1	1084.2	1071.7	1078.6
52.5°	11174.6	8226.8	3116.2	1542.1	1249.8	1141.3	1084.2	1060.5	1032.7	1011.8	1011.8
55°	11479.4	8271.4	3073.1	1526.8	1223.4	1089.8	1032.7	1010.4	982.6	958.9	956.2
57.5°	11599.1	8146.1	2913.0	1504.5	1205.3	1041.1	978.4	961.7	938.1	910.2	908.8
60°	11437.7	7759.2	2604.0	1457.2	1181.6	1000.7	924.1	913.0	901.9	875.4	874.0
62.5°	10789.1	6910.2	2204.6	1361.2	1134.3	957.5	874.0	879.6	881.0	862.9	860.1
65°	9613.0	5743.9	1814.9	1235.9	1063.3	906.0	822.5	849.0	864.3	861.5	857.3
67.5°	7903.9	4470.4	1537.9	1103.7	970.1	835.1	766.9	797.5	810.0	819.8	817.0
70°	5866.4	3152.4	1272.1	964.5	857.3	751.6	694.5	709.8	701.5	712.6	716.8
72.5°	3270.7	1891.4	1036.9	825.3	740.4	654.1	613.8	611.0	592.9	592.9	592.9
74°	1962.4	1387.6	911.6	739.0	669.4	590.1	555.3	542.8	526.1	527.5	526.1
75°	1578.3	1192.8	836.5	682.0	619.3	552.5	517.7	501.0	488.5	488.5	487.1
77.5°	996.5	906.0	673.6	542.8	495.5	455.1	431.5	409.2	409.2	407.8	406.4
80°	753.0	720.9	524.7	410.6	380.0	349.3	334.0	324.3	324.3	328.5	327.1
82.5°	516.4	542.8	368.8	286.7	271.4	249.1	246.3	247.7	243.6	238.0	236.6
85°	377.2	407.8	249.1	180.9	165.6	151.7	162.8	168.4	161.4	148.9	143.4
87.5°	144.7	267.2	133.6	75.2	69.6	59.8	69.6	72.4	77.9	61.2	62.6
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)