

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: P383613

Luminaire Tested: **GLEON-SA9A-735-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383613  
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-SA9A-735-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 615mA 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: 38019.2 lumens  
Efficiency: N/A  
Efficacy: 131.1 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

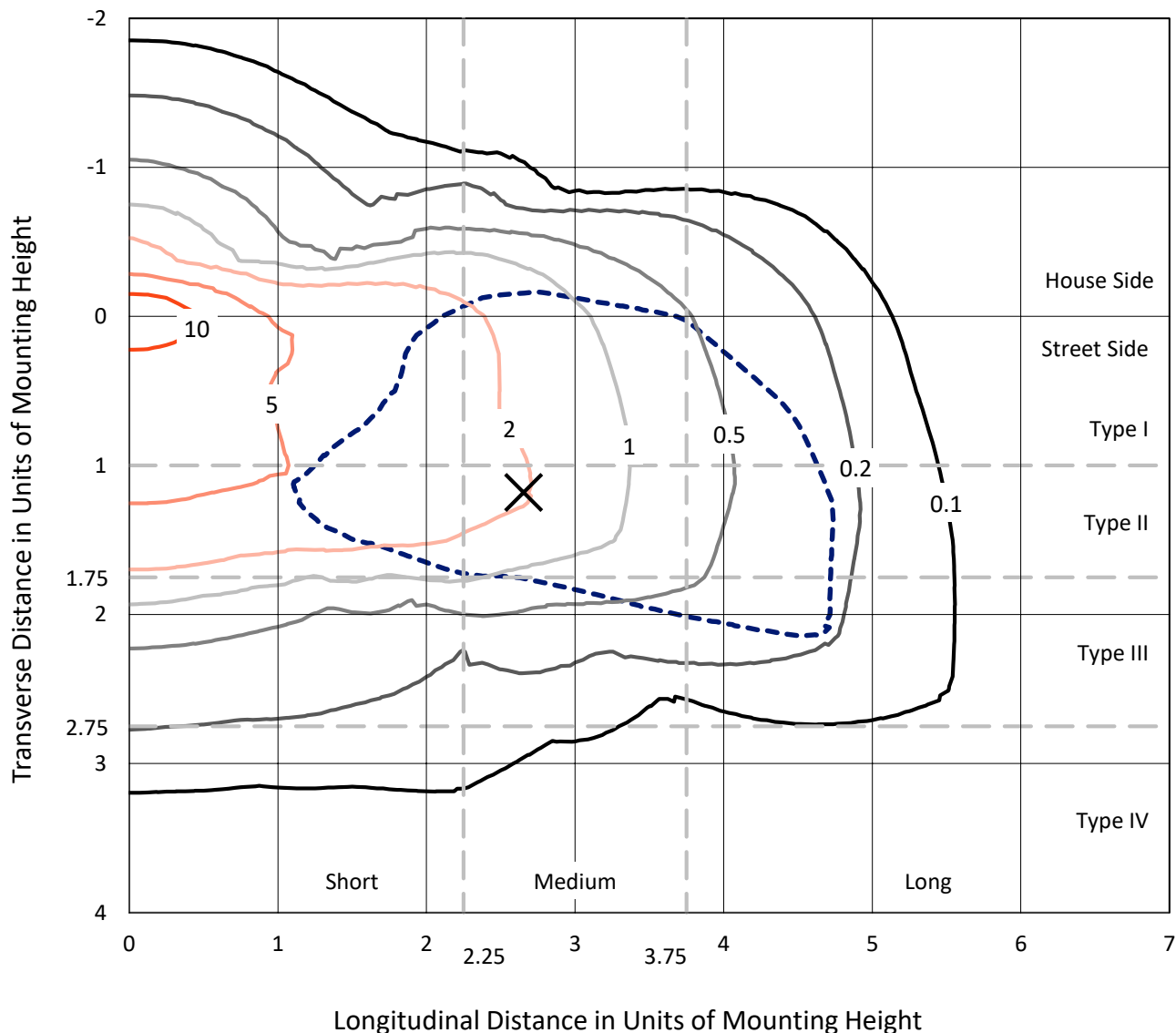
Input Watts (W): 290  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

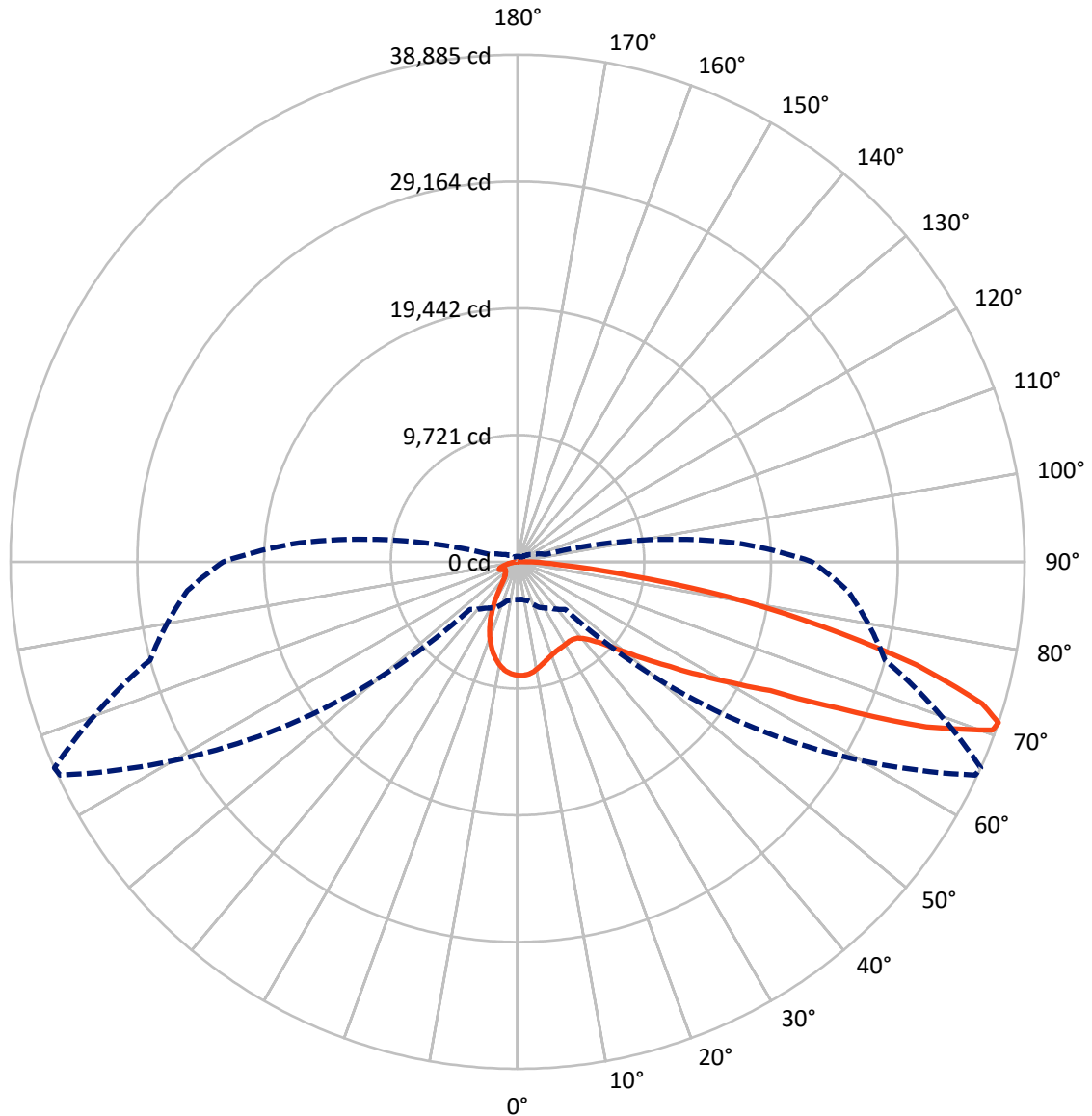
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 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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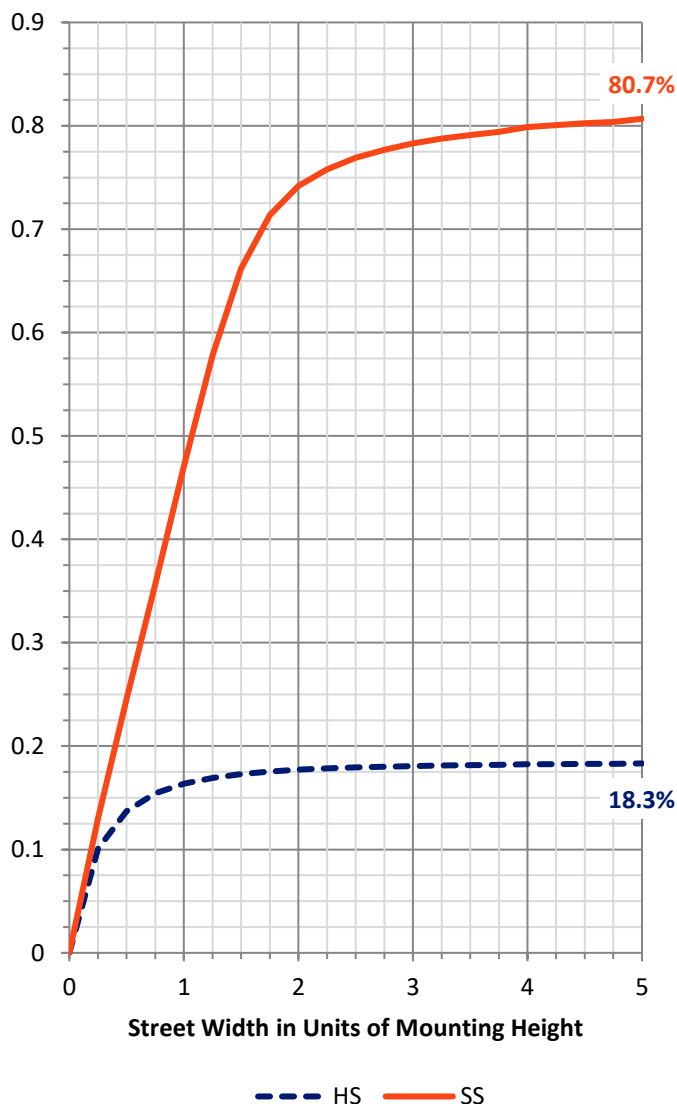
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7046.0	0.0	7046.0
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	30973.2	0.0	30973.2
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	38019.2	0.0	38019.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	766.6	2.0
10°-20°	1838.7	4.8
20°-30°	2469.9	6.5
30°-40°	3249.1	8.5
40°-50°	4726.6	12.4
50°-60°	7383.4	19.4
60°-70°	9248.9	24.3
70°-80°	7054.9	18.6
80°-90°	1281.1	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°	38019.2	100.0
0°-180°	38019.2	100.0

**Coefficient of Utilization**

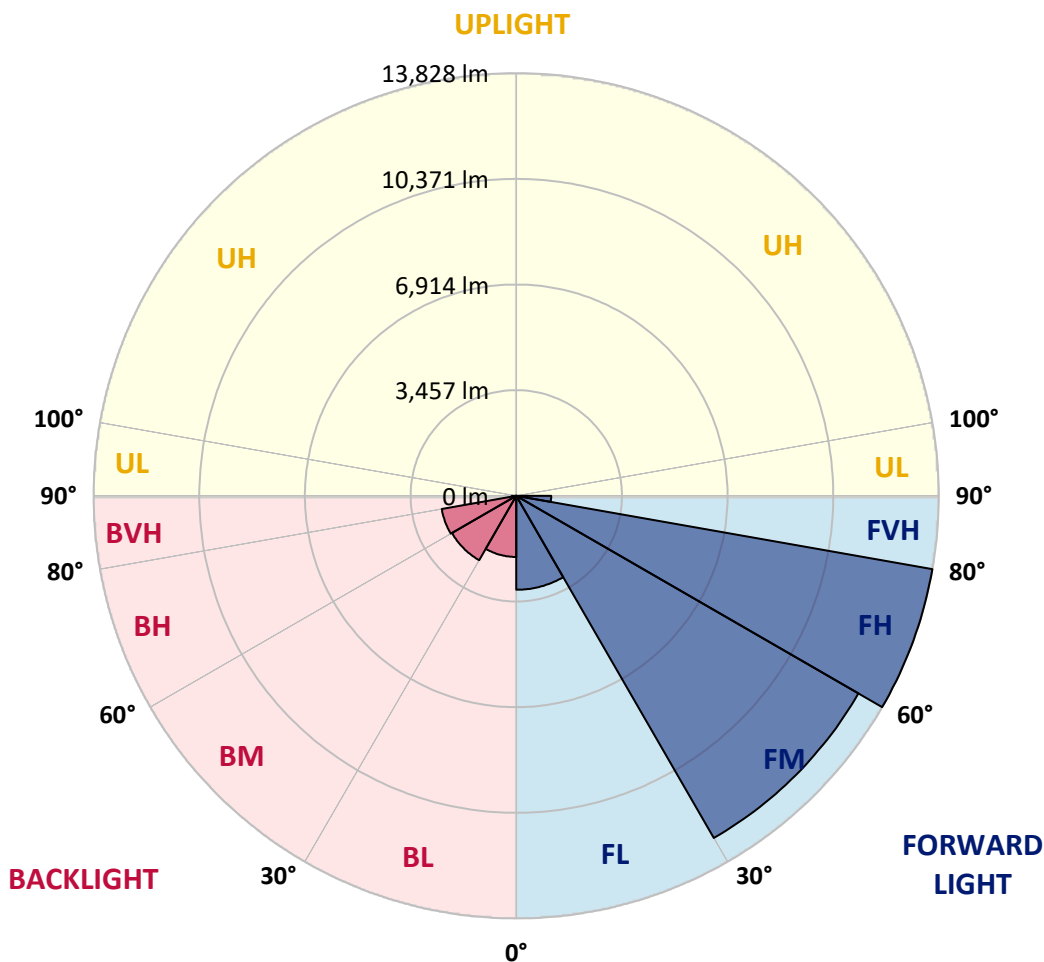


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3074.4	8.1			
FM (30°-60°)	12928.4	34.0			
FH (60°-80°)	13828.0	36.4			G5
FVH (80°-90°)	1142.4	3.0			G5
BL (0°-30°)	2000.9	5.3	B3/2500		
BM (30°-60°)	2430.7	6.4	B2/2500		
BH (60°-80°)	2475.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	138.7	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°	8709.5	8709.5	8709.5	8709.5	8709.5	8709.5	8709.5	8709.5	8709.5	8709.5	8709.5
2.5°	8548.0	8534.9	8574.2	8615.0	8630.7	8657.0	8696.4	8718.6	8717.3	8721.3	8708.2
5°	7980.9	7963.9	8042.6	8107.0	8230.3	8369.5	8538.8	8659.6	8662.2	8730.5	8748.8
7.5°	7444.1	7432.3	7522.8	7626.5	7769.6	7982.2	8256.6	8516.5	8532.2	8717.3	8781.7
10°	7013.5	7010.9	7098.9	7211.8	7378.4	7616.1	7931.1	8311.7	8335.4	8654.4	8786.9
12.5°	6677.5	6682.7	6758.8	6887.5	7063.4	7311.5	7652.8	8082.0	8120.1	8554.6	8756.7
15°	6429.4	6450.4	6512.1	6642.0	6815.3	7067.4	7417.8	7869.3	7927.1	8443.0	8739.7
17.5°	6287.7	6311.2	6354.6	6462.2	6625.0	6867.8	7199.9	7694.8	7747.3	8357.7	8741.0
20°	6245.7	6265.3	6290.3	6355.9	6493.7	6714.2	7028.0	7537.2	7593.7	8289.5	8754.1
22.5°	6328.3	6342.7	6345.4	6340.1	6424.1	6604.0	6903.2	7421.7	7482.1	8244.8	8763.3
25°	6505.6	6525.2	6510.8	6462.2	6434.7	6544.9	6839.0	7345.6	7406.0	8212.0	8744.9
27.5°	6772.0	6774.6	6762.8	6699.8	6569.8	6551.5	6819.2	7301.0	7358.8	8173.9	8706.8
30°	7134.3	7151.4	7130.3	7045.0	6832.3	6656.5	6842.9	7257.7	7310.2	8125.3	8645.1
32.5°	7558.3	7600.3	7599.0	7509.7	7205.1	6891.4	6940.0	7231.4	7272.1	8074.2	8570.3
35°	7998.0	8055.7	8163.4	8125.3	7748.6	7262.9	7126.4	7273.4	7301.0	8067.6	8517.8
37.5°	8454.8	8512.6	8734.4	8836.8	8395.8	7794.5	7420.4	7421.7	7434.9	8147.7	8513.9
40°	8932.6	8994.3	9327.8	9594.2	9234.5	8468.0	7894.3	7731.6	7717.1	8344.5	8591.3
42.5°	9602.1	9657.2	10057.5	10397.6	10165.2	9330.4	8549.4	8209.4	8179.2	8730.5	8839.5
45°	10448.7	10496.0	10921.3	11284.9	11165.4	10314.8	9372.4	8867.0	8861.7	9373.7	9342.2
47.5°	11455.5	11492.3	11874.3	12226.1	12269.4	11447.7	10406.8	9881.7	9796.3	10255.8	10120.6
50°	12504.3	12545.1	12805.0	13183.0	13504.6	12963.8	11737.8	11124.7	11010.5	11420.1	11223.2
52.5°	13198.7	13252.6	13478.4	13957.5	14893.4	14625.6	13311.6	12631.7	12458.4	12831.2	12680.2
55°	12889.0	13009.7	13354.9	14122.9	16003.9	17164.3	15253.1	14389.3	14193.7	14503.5	14414.3
57.5°	11480.5	11645.9	12117.1	13302.5	16160.1	19401.1	18188.2	16459.4	16321.6	16232.3	16273.0
60°	8906.3	9065.2	9649.3	11194.3	15071.9	21034.0	22605.2	19011.2	18811.7	17967.6	18004.4
62.5°	6303.4	6223.3	6623.7	7753.8	12247.1	21225.7	27631.4	22424.1	21767.8	19800.1	19638.6
65°	4807.0	4788.5	4968.4	5328.1	7417.8	18932.4	30625.6	28160.4	27135.2	21955.5	21574.8
67.5°	3949.8	3917.0	4094.2	4618.0	4776.8	12214.3	30691.2	34815.6	33808.8	24638.6	23814.2
70°	3247.5	3210.8	3376.1	4052.1	4414.4	6194.4	25830.4	38712.9	38659.0	28035.7	25504.9
71°	2911.5	2885.2	3083.4	3834.2	4337.0	5162.6	22302.0	38723.3	38884.8	29185.6	25405.2
72.5°	2370.7	2379.8	2589.9	3412.9	4279.3	4558.9	16391.1	36918.4	37259.8	30281.6	24498.1
75°	1575.2	1583.1	1858.7	2625.3	4149.3	4460.4	9008.7	30978.7	31606.1	29625.4	22354.5
77.5°	1058.0	1055.4	1243.1	1801.0	3615.1	4460.4	5282.2	23169.7	23858.8	23572.7	17233.9
80°	728.6	723.3	855.8	1243.1	2736.9	4514.2	4083.7	16237.5	16446.3	12730.2	7004.3
82.5°	446.3	450.2	559.2	878.2	1862.6	4062.7	3855.3	8853.9	8626.8	3570.4	1749.7
85°	256.0	254.7	357.1	594.6	1195.8	3428.7	3759.4	3810.7	3495.6	1075.1	632.7
87.5°	91.9	98.5	191.6	329.5	685.2	2387.7	3189.7	1982.1	1786.5	485.7	286.2
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°	8709.5	8709.5	8709.5	8709.5	8709.5	8709.5	8709.5	8709.5	8709.5	8709.5	8709.5
2.5°	8699.0	8706.8	8697.7	8645.1	8600.5	8528.3	8487.6	8431.2	8414.1	8406.3	8427.2
5°	8731.8	8734.4	8657.0	8519.1	8364.3	8181.8	8050.5	7889.1	7812.9	7780.1	7801.2
7.5°	8762.0	8750.2	8580.9	8317.0	8030.9	7713.2	7431.0	7172.4	7021.4	6959.7	6965.0
10°	8766.0	8716.0	8444.3	8036.1	7592.4	7126.4	6693.3	6294.2	6042.1	5878.1	5928.0
12.5°	8725.2	8641.2	8243.5	7672.5	7056.8	6421.5	5836.1	5237.5	4877.9	4711.1	4716.3
15°	8693.8	8541.5	7996.7	7244.6	6417.6	5576.2	4776.8	4073.2	3689.9	3519.2	3439.2
17.5°	8667.5	8433.9	7710.5	6762.8	5662.8	4595.6	3634.7	3007.3	2797.3	2747.4	2726.4
20°	8630.7	8319.7	7391.6	6204.9	4803.0	3498.2	2654.2	2344.4	2345.7	2403.5	2411.3
22.5°	8579.6	8189.7	7051.6	5578.8	3880.2	2547.9	2080.5	1991.3	2081.9	2192.1	2211.9
25°	8503.4	8036.1	6673.5	4887.0	2958.7	1958.5	1777.3	1773.4	1883.7	1999.2	2016.2
27.5°	8395.8	7835.2	6253.5	4144.1	2180.3	1664.5	1592.3	1619.8	1701.2	1785.2	1791.7
30°	8251.4	7601.6	5790.1	3360.4	1709.1	1482.0	1474.1	1499.0	1549.0	1608.0	1613.3
32.5°	8092.5	7364.0	5295.3	2601.7	1463.6	1383.5	1391.5	1403.2	1426.9	1450.5	1455.7
35°	7948.2	7121.1	4788.5	1976.8	1346.8	1319.3	1313.9	1311.3	1313.9	1306.1	1307.4
37.5°	7854.9	6920.3	4260.9	1573.8	1279.9	1262.8	1247.1	1227.3	1205.0	1191.9	1194.5
40°	7820.8	6770.7	3726.7	1359.9	1224.7	1212.9	1182.7	1140.7	1114.4	1106.6	1106.6
42.5°	7912.7	6693.3	3210.8	1252.3	1178.8	1159.0	1109.2	1060.7	1040.9	1039.6	1038.3
45°	8193.6	6724.7	2719.8	1193.2	1136.8	1098.7	1033.1	992.4	979.2	981.9	980.5
47.5°	8697.7	6923.0	2299.8	1153.8	1094.8	1044.9	971.3	938.5	922.8	922.8	924.1
50°	9554.8	7386.3	1965.0	1121.0	1059.4	995.0	926.7	886.1	865.0	863.7	863.7
52.5°	10803.2	8215.9	1756.3	1093.5	1020.0	950.4	882.1	830.9	806.0	800.8	798.1
55°	12367.9	9405.2	1698.6	1075.1	967.4	901.8	828.3	777.1	749.5	737.7	736.4
57.5°	14117.6	10851.7	1812.8	1052.7	913.6	844.1	769.2	720.6	691.8	677.3	676.0
60°	15888.4	12430.9	2278.8	1021.3	868.9	781.0	708.8	664.2	635.3	619.6	617.0
62.5°	17661.8	14095.3	3230.4	1018.6	837.5	720.6	647.1	609.0	581.5	564.4	560.5
65°	19662.3	15917.3	4312.0	1088.2	826.9	665.5	584.2	553.9	530.3	514.6	513.3
67.5°	21959.5	17974.2	4208.4	1231.2	862.4	615.7	525.0	501.5	484.4	471.3	470.0
70°	23037.1	17652.6	2616.2	1332.4	912.3	567.0	468.7	451.5	438.4	429.3	425.3
71°	22585.6	16761.3	2193.4	1320.6	907.0	546.1	446.3	433.2	420.0	412.2	408.2
72.5°	21354.3	15285.9	1829.8	1228.6	848.0	508.0	417.4	404.3	392.5	383.3	380.6
75°	19162.1	13651.6	1465.0	981.9	676.0	429.3	366.2	351.8	342.6	337.3	332.1
77.5°	14086.1	9742.5	1132.9	775.8	497.5	350.4	312.4	301.9	292.7	284.9	281.0
80°	5396.4	3773.9	762.7	578.9	364.9	276.9	252.0	246.8	237.5	232.3	232.3
82.5°	1453.1	1127.5	406.9	350.4	244.2	202.1	192.9	190.3	182.5	172.0	173.3
85°	588.1	497.5	228.4	192.9	149.6	119.4	130.0	131.3	122.0	109.0	110.3
87.5°	258.6	211.4	127.3	85.3	65.7	45.9	59.1	59.1	53.8	44.6	40.7
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)