

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: P647113

Luminaire Tested: **GALN-SA8C-835-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647113  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-835-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 1050mA 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: 43510.5 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

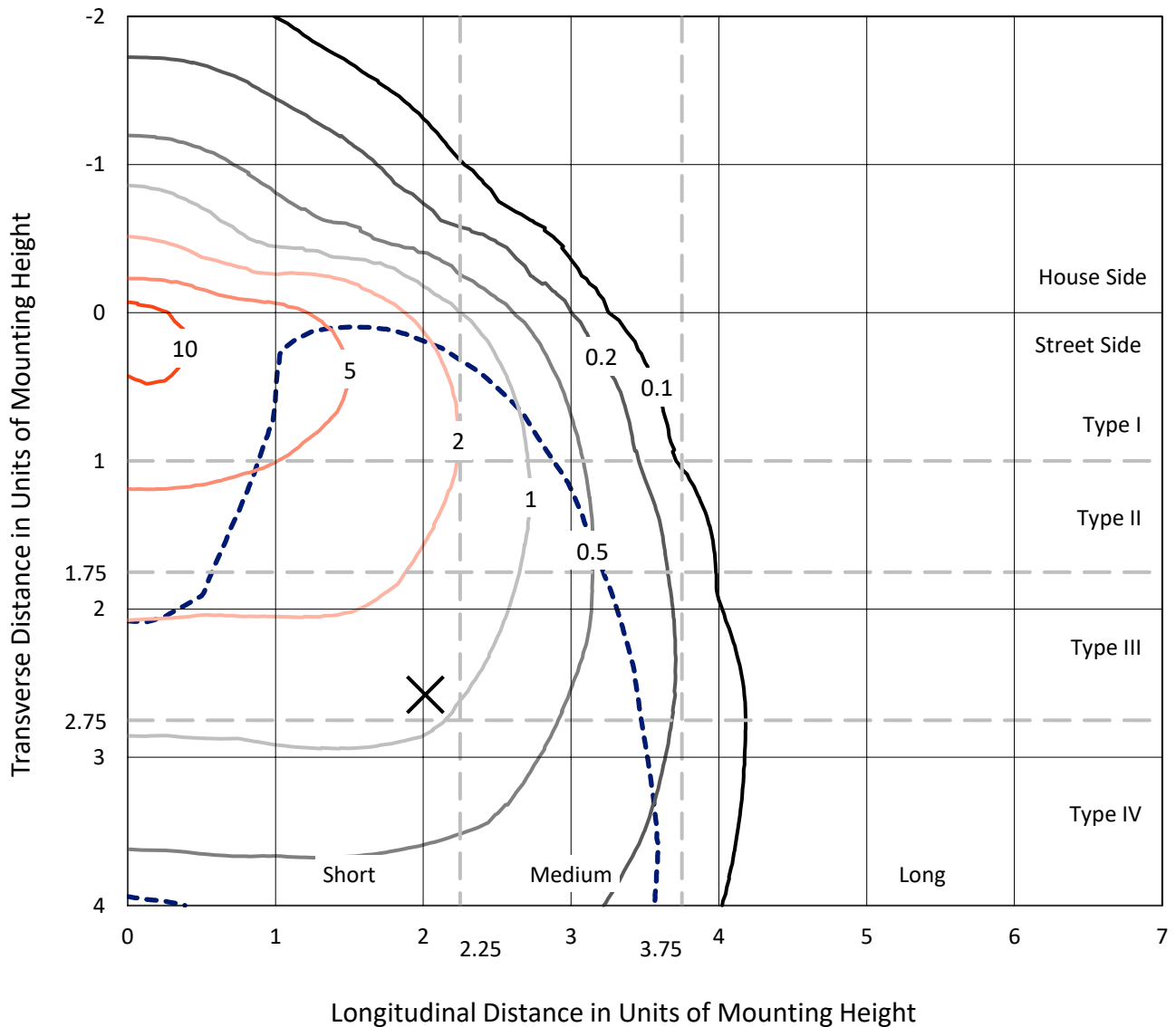
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

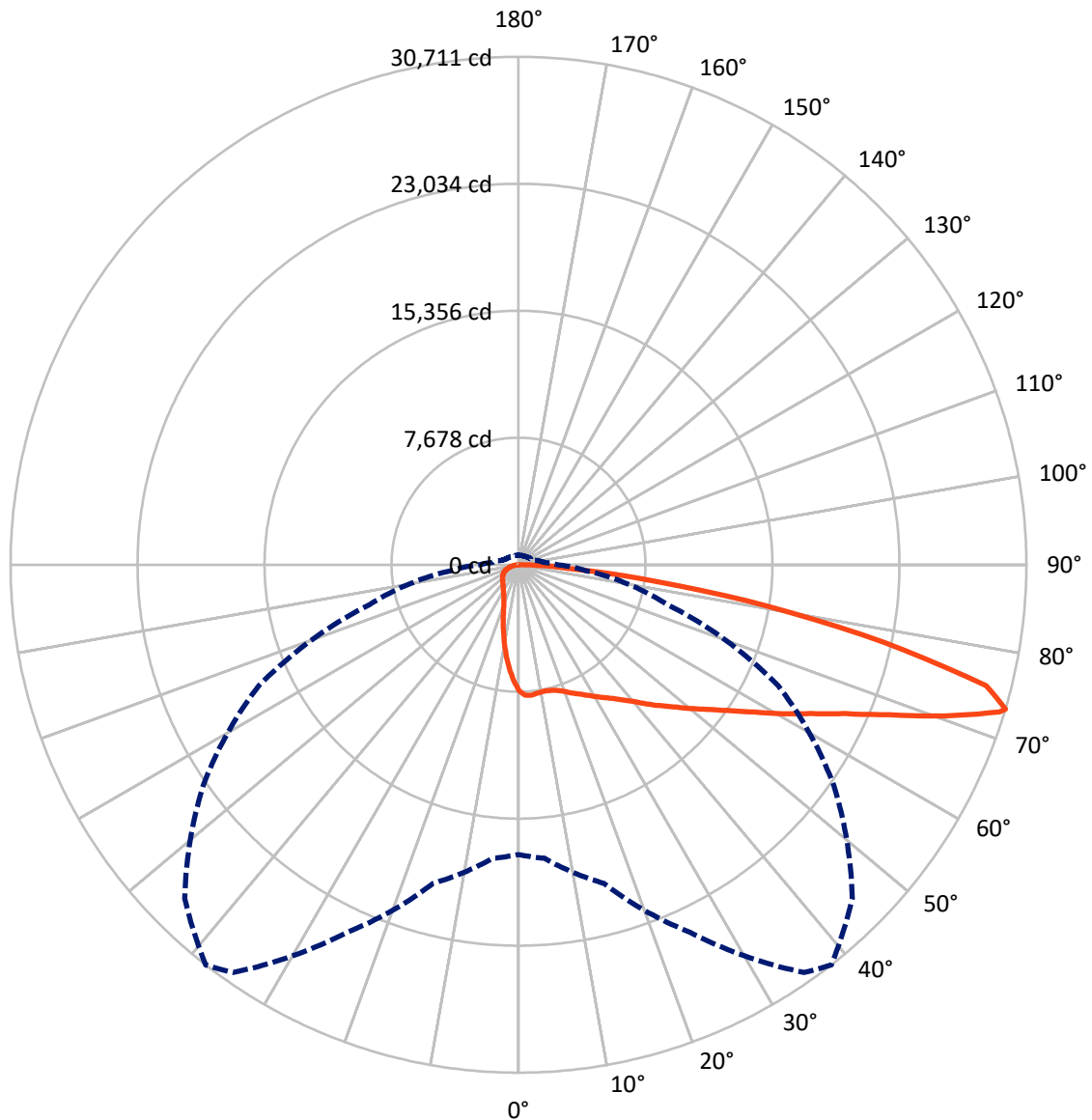
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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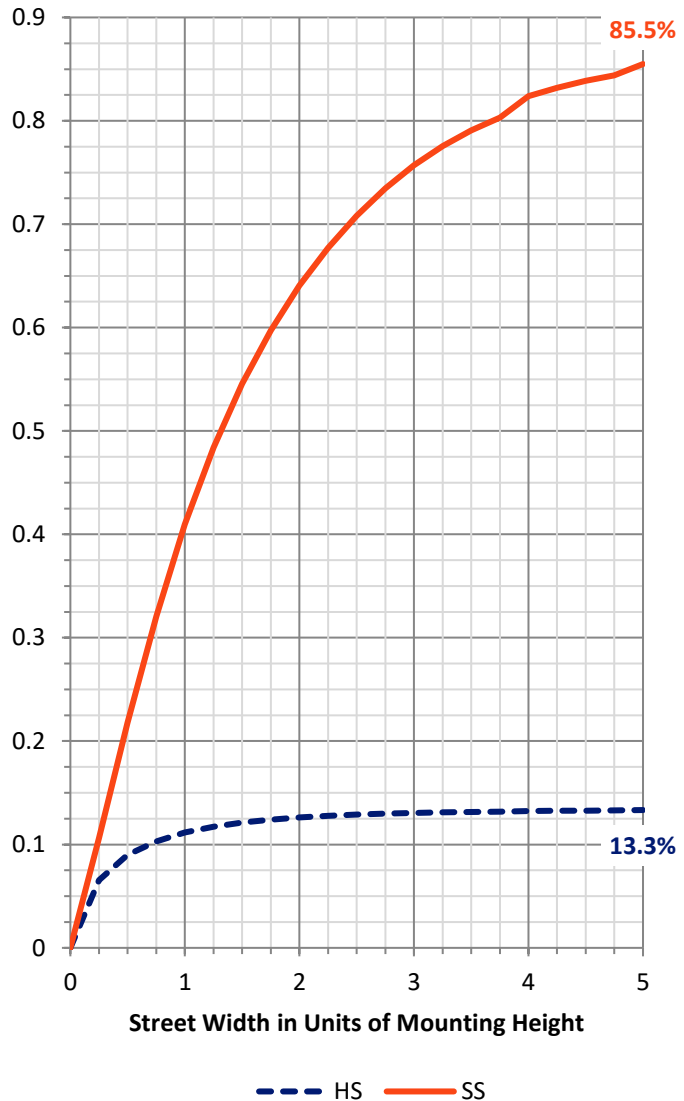
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5849.1	0.0	5849.1
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	37661.4	0.0	37661.4
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	43510.5	0.0	43510.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	667.2	1.5
10°-20°	1711.0	3.9
20°-30°	2664.4	6.1
30°-40°	3908.1	9.0
40°-50°	5797.2	13.3
50°-60°	8213.4	18.9
60°-70°	10419.0	23.9
70°-80°	8673.0	19.9
80°-90°	1457.2	3.3
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°	43510.5	100.0
0°-180°	43510.5	100.0

**Coefficient of Utilization**



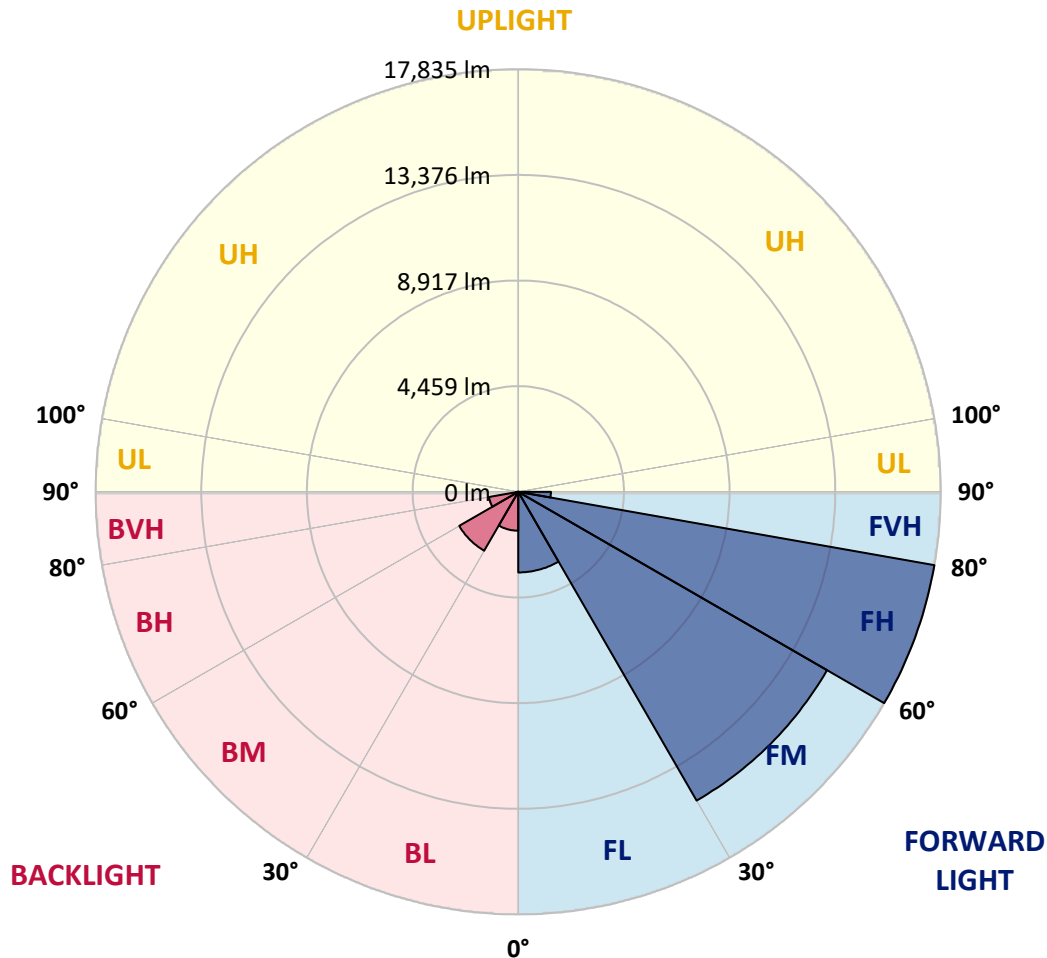
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3401.3	7.8			
FM (30°-60°)	15047.1	34.6			
FH (60°-80°)	17834.8	41.0			G5
FVH (80°-90°)	1378.2	3.2			G5
BL (0°-30°)	1641.3	3.8	B3/2500		
BM (30°-60°)	2871.6	6.6	B3/5000		
BH (60°-80°)	1257.2	2.9	B3/2500		G3/2500
BVH (80°-90°)	79.0	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	7644.0	7644.0	7644.0	7644.0	7644.0	7644.0	7644.0	7644.0	7644.0	7644.0	7644.0
2.5°	7951.2	7990.5	7970.9	7943.8	7926.6	7909.4	7884.9	7813.6	7757.1	7695.6	7599.8
5°	8010.2	8034.8	8017.5	7983.2	7943.8	7926.6	7880.0	7786.5	7695.6	7592.4	7449.9
7.5°	7975.8	7985.6	7965.9	7924.2	7889.7	7857.8	7803.8	7700.6	7590.0	7464.7	7278.0
10°	7852.9	7889.7	7889.7	7855.4	7821.0	7803.8	7749.7	7651.4	7550.7	7408.2	7187.1
12.5°	7752.2	7791.5	7823.4	7813.6	7811.1	7811.1	7769.4	7695.6	7577.7	7442.6	7179.6
15°	7683.3	7730.1	7798.8	7838.1	7862.7	7870.1	7852.9	7789.0	7668.6	7511.4	7209.2
17.5°	7668.6	7725.2	7850.4	7936.5	8000.4	7997.9	7992.9	7904.5	7771.8	7609.7	7246.0
20°	7734.9	7808.7	7983.2	8118.3	8211.6	8194.5	8167.4	8052.0	7897.2	7715.3	7280.4
22.5°	7934.0	8010.2	8201.8	8349.3	8440.2	8440.2	8359.1	8206.7	8042.1	7838.1	7327.1
25°	8219.0	8302.5	8506.5	8656.4	8698.2	8666.2	8585.1	8400.9	8211.6	8015.1	7425.3
27.5°	8567.9	8668.7	8857.8	8983.2	8970.9	8946.3	8862.8	8626.9	8437.7	8258.3	7592.4
30°	9002.9	9076.5	9273.1	9302.6	9258.3	9253.5	9135.5	8899.7	8722.7	8585.1	7830.8
32.5°	9413.1	9479.5	9636.8	9649.1	9570.5	9580.2	9469.7	9253.5	9152.7	9103.5	8231.3
35°	9848.1	9882.5	10017.6	10002.9	9951.3	9943.9	9899.7	9693.3	9725.3	9813.7	8798.9
37.5°	10211.7	10280.6	10356.7	10369.0	10366.5	10391.1	10420.6	10322.3	10506.6	10784.3	9543.4
40°	10545.9	10604.9	10717.9	10757.2	10853.0	10902.2	11003.0	11005.4	11430.5	11887.5	10459.9
42.5°	10772.0	10872.7	11084.0	11155.2	11388.7	11536.1	11686.0	11845.7	12462.5	13049.7	11541.0
45°	10968.5	11101.2	11452.5	11673.7	11990.7	12170.1	12487.0	12821.2	13708.2	14477.3	12639.3
47.5°	11265.8	11383.8	11786.7	12177.5	12656.6	12863.0	13337.2	13836.0	14995.7	15838.5	13691.0
50°	11678.6	11749.9	12160.2	12796.6	13408.4	13673.8	14300.4	15020.3	16371.7	17182.5	14614.9
52.5°	12206.9	12236.4	12563.2	13410.9	14216.9	14546.1	15376.6	16216.9	17575.7	18349.7	15347.1
55°	12831.0	12781.8	13037.4	14062.1	15140.7	15570.7	16462.7	17428.2	18929.6	19293.2	15880.3
57.5°	13447.7	13371.6	13575.5	14853.2	16280.8	16799.3	17838.6	18676.5	20138.4	20175.3	16253.7
60°	14101.4	14044.8	14288.1	15782.0	17678.9	18293.2	19253.9	19971.4	21308.0	20789.6	16312.7
62.5°	14772.2	14681.2	15027.6	16826.3	19253.9	19811.6	20742.9	21347.3	22455.5	21018.1	15745.1
65°	15423.3	15381.5	15917.1	18067.1	21047.6	21681.5	22585.7	22996.1	23374.4	20674.1	14337.2
67.5°	16116.2	16199.7	17054.8	19723.2	23386.7	24182.9	25158.3	24772.6	23637.4	19045.1	12074.3
70°	17172.8	17226.8	18548.7	21892.8	26401.6	27362.3	27834.1	25404.0	22369.5	15951.5	9076.5
72.5°	17627.3	17865.6	19883.0	24170.6	29826.8	30414.1	28733.4	23996.1	18634.7	10835.9	4769.3
73°	17526.5	17811.6	19944.3	24517.0	30094.7	30711.4	28541.8	23271.2	17322.6	9332.1	4088.6
75°	16271.0	16622.3	19145.8	24227.1	29573.8	29205.2	25460.6	19833.8	11705.7	4243.4	1862.5
77.5°	12838.4	12939.2	15170.2	19563.5	23288.5	22605.4	19054.9	12396.1	4781.5	1577.4	1056.6
80°	6440.1	6811.1	8550.8	11206.8	15573.2	15349.5	12027.5	5862.6	1992.7	926.4	700.2
82.5°	3098.4	3361.3	4164.8	5464.6	8604.8	8400.9	5956.0	3204.0	1265.4	540.6	412.8
85°	1995.2	2191.8	2651.2	2607.0	3538.2	3378.5	2675.8	2425.2	749.4	282.6	287.5
87.5°	1317.0	1442.3	1729.8	1383.3	1287.5	1164.6	1181.9	1366.2	147.4	108.1	39.3
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°	7644.0	7644.0	7644.0	7644.0	7644.0	7644.0	7644.0	7644.0	7644.0	7644.0	7644.0
2.5°	7560.5	7528.5	7422.9	7319.7	7221.5	7128.0	7066.7	6985.5	6931.5	6946.2	6968.4
5°	7371.3	7300.1	7113.3	6931.5	6759.5	6555.6	6390.9	6258.3	6157.5	6120.6	6113.3
7.5°	7172.3	7051.9	6784.1	6472.0	6179.6	5926.5	5634.2	5489.1	5319.6	5260.7	5241.0
10°	7051.9	6889.7	6513.8	6078.9	5639.1	5218.9	4901.9	4643.9	4410.5	4366.2	4344.2
12.5°	7017.5	6803.7	6297.6	5737.4	5152.5	4636.5	4167.3	3828.2	3602.1	3550.5	3474.3
15°	6997.8	6732.5	6096.0	5393.4	4651.3	4022.3	3528.4	3132.8	2926.4	2788.8	2791.2
17.5°	6980.7	6651.4	5870.0	5017.4	4218.9	3494.0	2948.5	2592.3	2403.0	2329.3	2322.0
20°	6956.1	6555.6	5609.6	4621.8	3725.0	3012.4	2518.5	2253.2	2125.4	2064.0	2061.5
22.5°	6946.2	6462.2	5354.1	4218.9	3287.6	2641.4	2233.5	2046.8	1965.7	1923.9	1923.9
25°	6970.8	6395.9	5086.2	3835.5	2899.4	2324.4	2037.0	1909.2	1862.5	1840.4	1833.0
27.5°	7047.0	6366.3	4820.9	3452.2	2543.1	2108.2	1904.3	1815.8	1781.4	1764.2	1766.7
30°	7191.9	6363.9	4560.4	3073.8	2277.7	1943.6	1798.6	1737.2	1710.2	1700.3	1697.9
32.5°	7425.3	6417.9	4304.9	2761.8	2054.1	1806.0	1700.3	1656.1	1643.8	1636.5	1634.0
35°	7821.0	6570.3	4051.8	2476.8	1882.2	1683.1	1607.0	1584.9	1567.6	1575.0	1577.4
37.5°	8354.1	6833.2	3810.9	2253.2	1751.9	1592.2	1528.3	1508.7	1498.8	1506.2	1513.6
40°	9069.2	7211.6	3609.5	2073.8	1658.6	1516.0	1459.5	1442.3	1432.5	1444.8	1447.2
42.5°	9857.9	7649.0	3442.4	1933.8	1582.4	1452.2	1398.1	1378.5	1371.0	1378.5	1380.9
45°	10668.8	8157.6	3356.4	1833.0	1518.5	1405.5	1349.0	1326.9	1309.6	1304.7	1312.1
47.5°	11467.3	8599.8	3354.0	1771.5	1466.9	1363.7	1302.3	1277.7	1255.6	1243.3	1240.8
50°	12118.5	8951.3	3412.9	1744.5	1422.6	1317.0	1255.6	1231.0	1201.5	1176.9	1181.9
52.5°	12609.9	9179.7	3440.0	1732.2	1398.1	1267.8	1206.4	1184.3	1149.9	1118.0	1118.0
55°	12926.9	9233.8	3373.6	1719.9	1378.5	1216.2	1149.9	1130.3	1095.9	1063.9	1063.9
57.5°	13035.0	9066.7	3135.3	1690.5	1358.8	1172.1	1093.4	1076.2	1049.2	1017.3	1012.3
60°	12784.4	8501.6	2717.6	1602.0	1319.4	1125.3	1032.0	1024.6	1014.8	987.8	985.3
62.5°	11818.7	7302.5	2263.0	1486.5	1253.1	1076.2	975.5	987.8	995.1	980.4	978.0
65°	10211.7	5929.0	1933.8	1326.9	1164.6	1007.4	914.1	946.0	965.7	965.7	960.7
67.5°	8282.9	4553.0	1629.0	1189.2	1054.1	914.1	845.2	869.8	884.6	879.6	891.9
70°	5887.2	3083.7	1326.9	1032.0	914.1	808.4	756.8	756.8	747.0	742.0	742.0
72.5°	2855.1	1761.8	1076.2	862.5	778.9	690.4	648.7	631.5	611.8	609.3	597.1
73°	2385.9	1579.9	1027.1	830.5	747.0	673.2	626.6	599.5	587.2	577.4	575.0
75°	1452.2	1199.1	857.5	700.2	636.4	579.9	538.1	513.6	501.3	493.9	491.4
77.5°	955.8	894.4	665.9	535.7	486.5	452.1	434.9	410.4	402.9	393.1	393.1
80°	712.5	683.1	476.7	378.4	348.9	319.4	314.5	309.6	289.9	277.7	272.7
82.5°	459.5	486.5	324.3	253.1	221.1	196.5	199.0	206.4	186.7	169.5	164.7
85°	326.8	351.3	196.5	115.5	93.3	81.1	90.9	81.1	83.5	66.3	54.0
87.5°	54.0	93.3	34.4	14.7	7.4	4.9	0.0	0.0	0.0	0.0	0.0
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)