

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: P648103

Luminaire Tested: **GALN-SA8A-835-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648103  
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-SA8A-835-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 615mA 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: 28302.3 lumens  
Efficiency: N/A  
Efficacy: 116.0 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

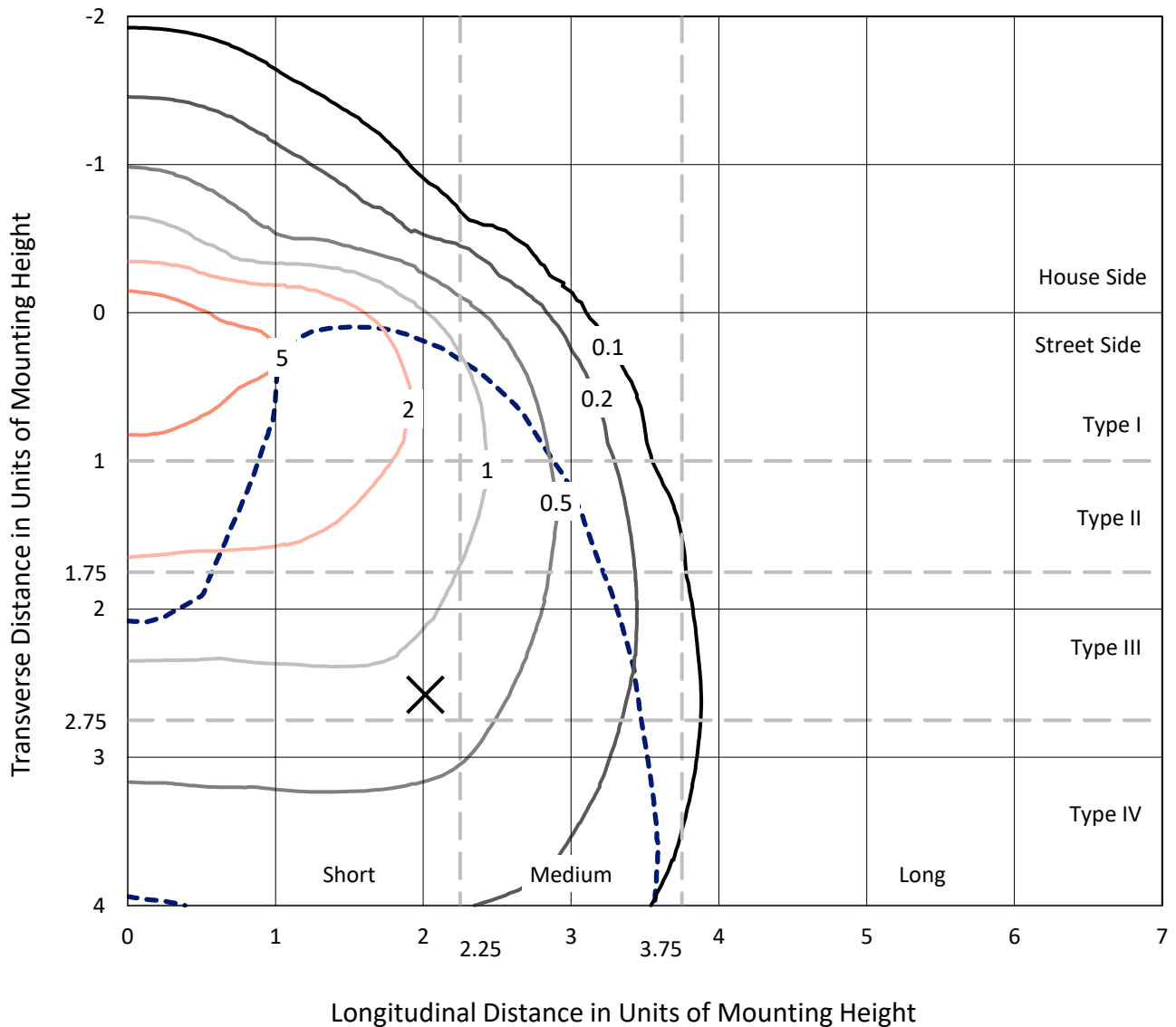
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

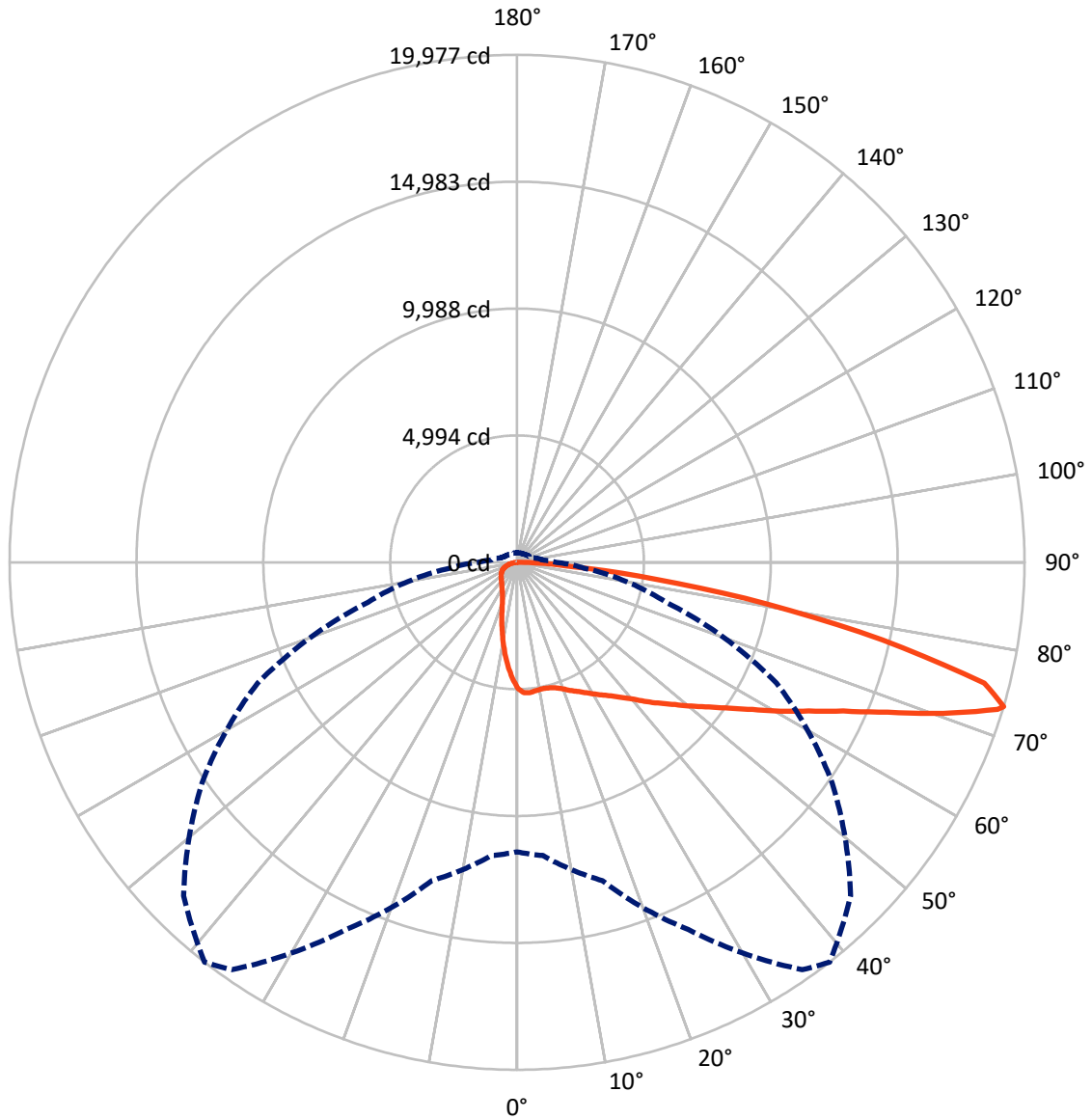
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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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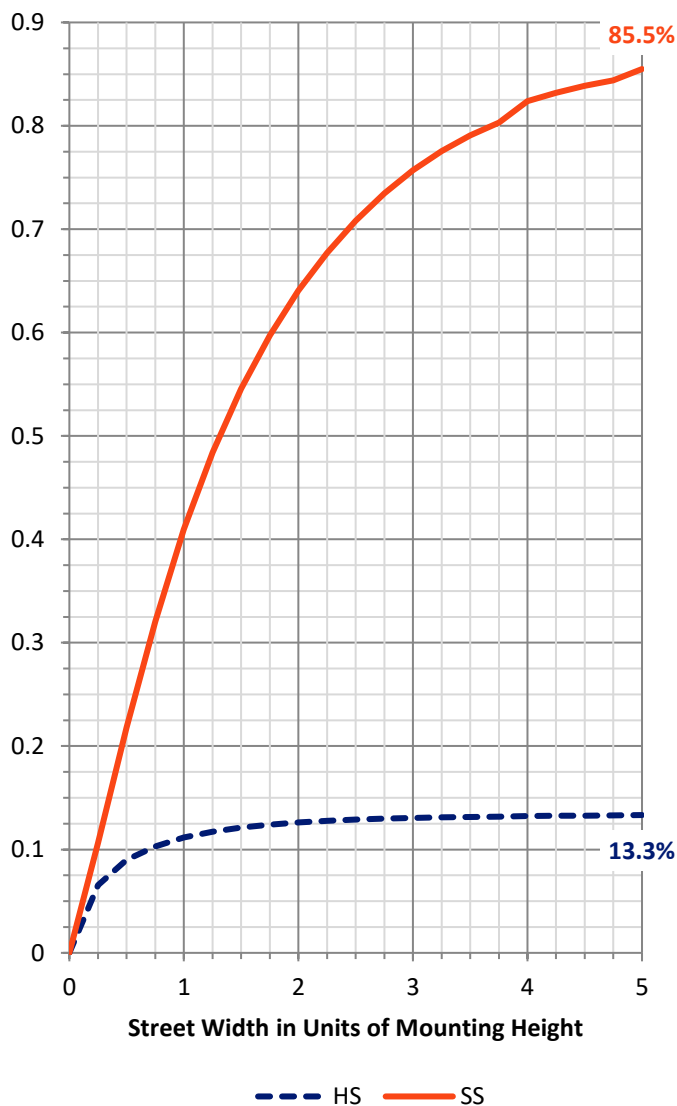
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3804.7	0.0	3804.7
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	24497.7	0.0	24497.7
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	28302.3	0.0	28302.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	434.0	1.5
10°-20°	1113.0	3.9
20°-30°	1733.1	6.1
30°-40°	2542.1	9.0
40°-50°	3770.9	13.3
50°-60°	5342.6	18.9
60°-70°	6777.2	23.9
70°-80°	5641.5	19.9
80°-90°	947.9	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°	28302.3	100.0
0°-180°	28302.3	100.0

**Coefficient of Utilization**



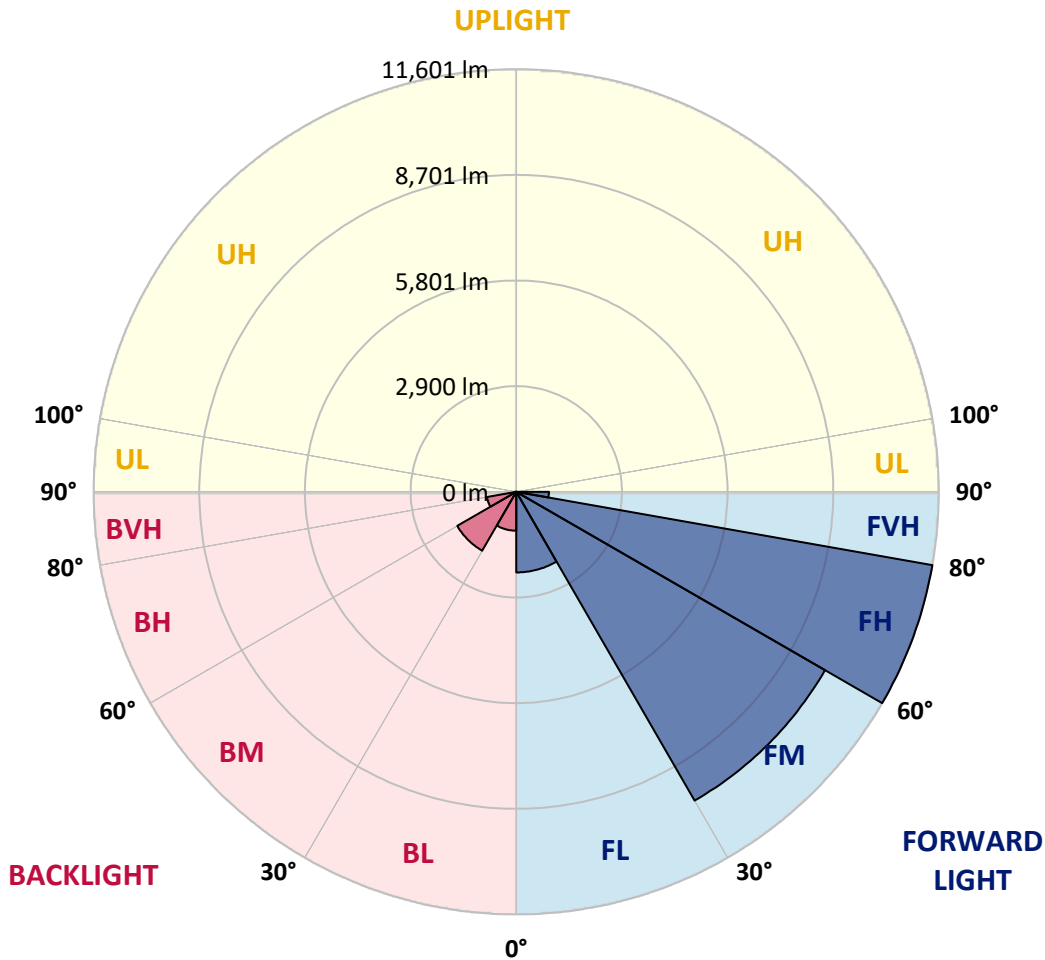
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2212.5	7.8			
FM (30°-60°)	9787.7	34.6			
FH (60°-80°)	11601.0	41.0			G4/12000
FVH (80°-90°)	896.5	3.2			G5
BL (0°-30°)	1067.6	3.8	B3/2500		
BM (30°-60°)	1867.9	6.6	B2/2500		
BH (60°-80°)	817.8	2.9	B2/1000		G2/1000
BVH (80°-90°)	51.4	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4972.2	4972.2	4972.2	4972.2	4972.2	4972.2	4972.2	4972.2	4972.2	4972.2	4972.2
2.5°	5172.0	5197.6	5184.8	5167.3	5156.1	5144.9	5128.9	5082.5	5045.7	5005.8	4943.5
5°	5210.4	5226.4	5215.2	5192.8	5167.3	5156.1	5125.7	5064.9	5005.8	4938.7	4846.0
7.5°	5188.0	5194.4	5181.6	5154.4	5132.1	5111.3	5076.1	5009.0	4937.0	4855.5	4734.1
10°	5108.1	5132.1	5132.1	5109.7	5087.3	5076.1	5041.0	4977.1	4911.5	4818.8	4675.0
12.5°	5042.6	5068.1	5088.9	5082.5	5080.9	5080.9	5053.7	5005.8	4929.1	4841.2	4670.1
15°	4997.8	5028.2	5072.9	5098.5	5114.5	5119.3	5108.1	5066.6	4988.3	4885.9	4689.3
17.5°	4988.3	5025.0	5106.5	5162.4	5204.0	5202.4	5199.2	5141.6	5055.4	4949.9	4713.3
20°	5031.4	5079.3	5192.8	5280.7	5341.5	5330.3	5312.7	5237.6	5136.9	5018.6	4735.7
22.5°	5160.8	5210.4	5335.0	5431.0	5490.1	5490.1	5437.3	5338.3	5231.1	5098.5	4766.0
25°	5346.2	5400.6	5533.2	5630.7	5657.9	5637.1	5584.4	5464.5	5341.5	5213.6	4830.0
27.5°	5573.2	5638.7	5761.8	5843.3	5835.3	5819.3	5765.0	5611.5	5488.5	5371.8	4938.7
30°	5856.1	5904.1	6031.9	6051.1	6022.3	6019.1	5942.4	5789.0	5673.9	5584.4	5093.7
32.5°	6123.0	6166.1	6268.5	6276.4	6225.3	6231.7	6159.8	6019.1	5953.5	5921.6	5354.2
35°	6405.9	6428.3	6516.2	6506.6	6473.0	6468.2	6439.5	6305.2	6326.0	6383.5	5723.4
37.5°	6642.4	6687.2	6736.7	6744.8	6743.1	6759.1	6778.3	6714.4	6834.3	7014.8	6207.7
40°	6859.8	6898.2	6971.7	6997.3	7059.6	7091.6	7157.1	7158.7	7435.2	7732.4	6803.9
42.5°	7006.8	7072.4	7209.8	7256.1	7408.0	7503.9	7601.4	7705.3	8106.5	8488.4	7507.1
45°	7134.7	7221.0	7449.5	7593.4	7799.6	7916.3	8122.5	8339.8	8916.8	9417.1	8221.5
47.5°	7328.1	7404.8	7666.9	7921.1	8232.7	8367.0	8675.4	8999.9	9754.3	10302.5	8905.6
50°	7596.6	7642.9	7909.9	8323.8	8721.8	8894.4	9302.0	9770.3	10649.3	11176.8	9506.6
52.5°	7940.2	7959.4	8172.0	8723.4	9247.6	9461.8	10002.0	10548.7	11432.5	11935.9	9982.9
55°	8346.2	8314.2	8480.4	9146.9	9848.6	10128.3	10708.5	11336.6	12313.1	12549.7	10329.6
57.5°	8747.4	8697.8	8830.4	9661.6	10590.2	10927.4	11603.5	12148.5	13099.5	13123.5	10572.6
60°	9172.5	9135.7	9294.0	10265.8	11499.6	11899.2	12524.1	12990.8	13860.3	13523.0	10611.0
62.5°	9608.8	9549.7	9775.1	10945.0	12524.1	12886.9	13492.7	13885.8	14606.6	13671.6	10241.7
65°	10032.3	10005.2	10353.6	11752.1	13690.8	14103.2	14691.4	14958.3	15204.4	13447.9	9325.9
67.5°	10483.1	10537.5	11093.6	12829.4	15212.4	15730.2	16364.8	16113.8	15375.4	12388.2	7854.0
70°	11170.4	11205.5	12065.4	14240.7	17173.5	17798.4	18105.3	16524.6	14550.7	10376.0	5904.1
72.5°	11466.0	11621.1	12933.3	15722.2	19401.5	19783.4	18690.2	15608.8	12121.3	7048.4	3102.2
73°	11400.5	11585.9	12973.2	15947.6	19575.7	19976.8	18565.6	15137.3	11267.8	6070.3	2659.5
75°	10583.8	10812.4	12453.8	15759.0	19236.8	18997.1	16561.3	12901.3	7614.2	2760.2	1211.5
77.5°	8351.0	8416.5	9867.8	12725.5	15148.5	14704.1	12394.7	8063.3	3110.2	1026.1	687.2
80°	4189.0	4430.4	5562.0	7289.7	10129.9	9984.4	7823.6	3813.5	1296.2	602.5	455.5
82.5°	2015.4	2186.4	2709.1	3554.6	5597.2	5464.5	3874.2	2084.2	823.1	351.6	268.5
85°	1297.8	1425.7	1724.6	1695.7	2301.6	2197.6	1740.5	1577.5	487.5	183.8	187.0
87.5°	856.7	938.2	1125.2	899.8	837.5	757.6	768.7	888.6	95.9	70.3	25.6
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°	4972.2	4972.2	4972.2	4972.2	4972.2	4972.2	4972.2	4972.2	4972.2	4972.2	4972.2
2.5°	4917.9	4897.1	4828.4	4761.3	4697.3	4636.6	4596.7	4543.9	4508.7	4518.3	4532.7
5°	4794.9	4748.5	4627.0	4508.7	4396.9	4264.2	4157.1	4070.8	4005.3	3981.3	3976.5
7.5°	4665.3	4587.0	4412.8	4209.9	4019.7	3855.0	3664.8	3570.6	3460.2	3421.9	3409.1
10°	4587.0	4481.6	4237.0	3954.2	3668.0	3394.8	3188.5	3020.7	2868.9	2840.2	2825.8
12.5°	4564.7	4425.6	4096.4	3732.0	3351.6	3016.0	2710.7	2490.1	2343.0	2309.5	2260.0
15°	4551.9	4379.2	3965.3	3508.2	3025.5	2616.4	2295.1	2037.8	1903.6	1814.1	1815.6
17.5°	4540.7	4326.5	3818.3	3263.7	2744.3	2272.7	1918.0	1686.2	1563.1	1515.2	1510.4
20°	4524.7	4264.2	3648.9	3006.3	2423.0	1959.5	1638.3	1465.6	1382.5	1342.5	1341.0
22.5°	4518.3	4203.5	3482.6	2744.3	2138.5	1718.1	1452.9	1331.3	1278.6	1251.5	1251.5
25°	4534.3	4160.3	3308.4	2494.9	1885.9	1512.0	1325.0	1241.8	1211.5	1197.1	1192.4
27.5°	4583.8	4141.1	3135.8	2245.6	1654.2	1371.3	1238.6	1181.2	1158.8	1147.6	1149.1
30°	4678.2	4139.6	2966.4	1999.5	1481.6	1264.2	1170.0	1129.9	1112.4	1106.0	1104.4
32.5°	4830.0	4174.7	2800.2	1796.4	1336.2	1174.7	1106.0	1077.3	1069.3	1064.5	1062.8
35°	5087.3	4273.8	2635.6	1611.1	1224.3	1094.8	1045.3	1030.9	1019.7	1024.5	1026.1
37.5°	5434.2	4444.8	2478.9	1465.6	1139.6	1035.7	994.1	981.3	974.9	979.8	984.5
40°	5899.2	4691.0	2347.9	1349.0	1078.8	986.1	949.4	938.2	931.8	939.8	941.4
42.5°	6412.3	4975.4	2239.2	1257.8	1029.3	944.6	909.5	896.6	891.8	896.6	898.3
45°	6939.7	5306.3	2183.2	1192.4	987.8	914.2	877.4	863.1	851.9	848.7	853.5
47.5°	7459.2	5594.0	2181.7	1152.3	954.2	887.1	847.0	831.1	816.7	808.8	807.1
50°	7882.7	5822.5	2220.0	1134.8	925.4	856.7	816.7	800.8	781.6	765.5	768.7
52.5°	8202.3	5971.2	2237.6	1126.8	909.5	824.7	784.7	770.4	748.0	727.3	727.3
55°	8408.6	6006.3	2194.4	1118.8	896.6	791.1	748.0	735.2	712.8	692.0	692.0
57.5°	8478.9	5897.6	2039.4	1099.6	883.9	762.4	711.2	700.1	682.5	661.7	658.5
60°	8315.9	5530.0	1767.7	1042.1	858.2	732.0	671.3	666.5	660.1	642.5	640.9
62.5°	7687.7	4750.1	1472.0	966.9	815.1	700.1	634.5	642.5	647.3	637.7	636.1
65°	6642.4	3856.7	1257.8	863.1	757.6	655.3	594.5	615.4	628.1	628.1	624.9
67.5°	5387.8	2961.6	1059.6	773.6	685.7	594.5	549.8	565.8	575.3	572.2	580.2
70°	3829.5	2005.8	863.1	671.3	594.5	525.9	492.3	492.3	485.9	482.6	482.6
72.5°	1857.2	1146.0	700.1	561.0	506.7	449.1	422.0	410.8	398.0	396.4	388.4
73°	1551.9	1027.7	668.1	540.2	485.9	437.9	407.6	390.0	382.0	375.6	374.0
75°	944.6	779.9	557.8	455.5	414.0	377.2	350.0	334.0	326.0	321.3	319.6
77.5°	621.7	581.8	433.2	348.4	316.5	294.1	282.9	266.9	262.1	255.7	255.7
80°	463.5	444.4	310.1	246.1	227.0	207.8	204.6	201.4	188.6	180.6	177.4
82.5°	298.9	316.5	210.9	164.6	143.8	127.9	129.4	134.3	121.4	110.2	107.1
85°	212.6	228.6	127.9	75.1	60.8	52.8	59.1	52.8	54.3	43.1	35.2
87.5°	35.2	60.8	22.4	9.6	4.8	3.2	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)