

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: P647655

Luminaire Tested: **GALN-SA9D-835-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647655  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-835-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46543.1 lumens  
Efficiency: N/A  
Efficacy: 84.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

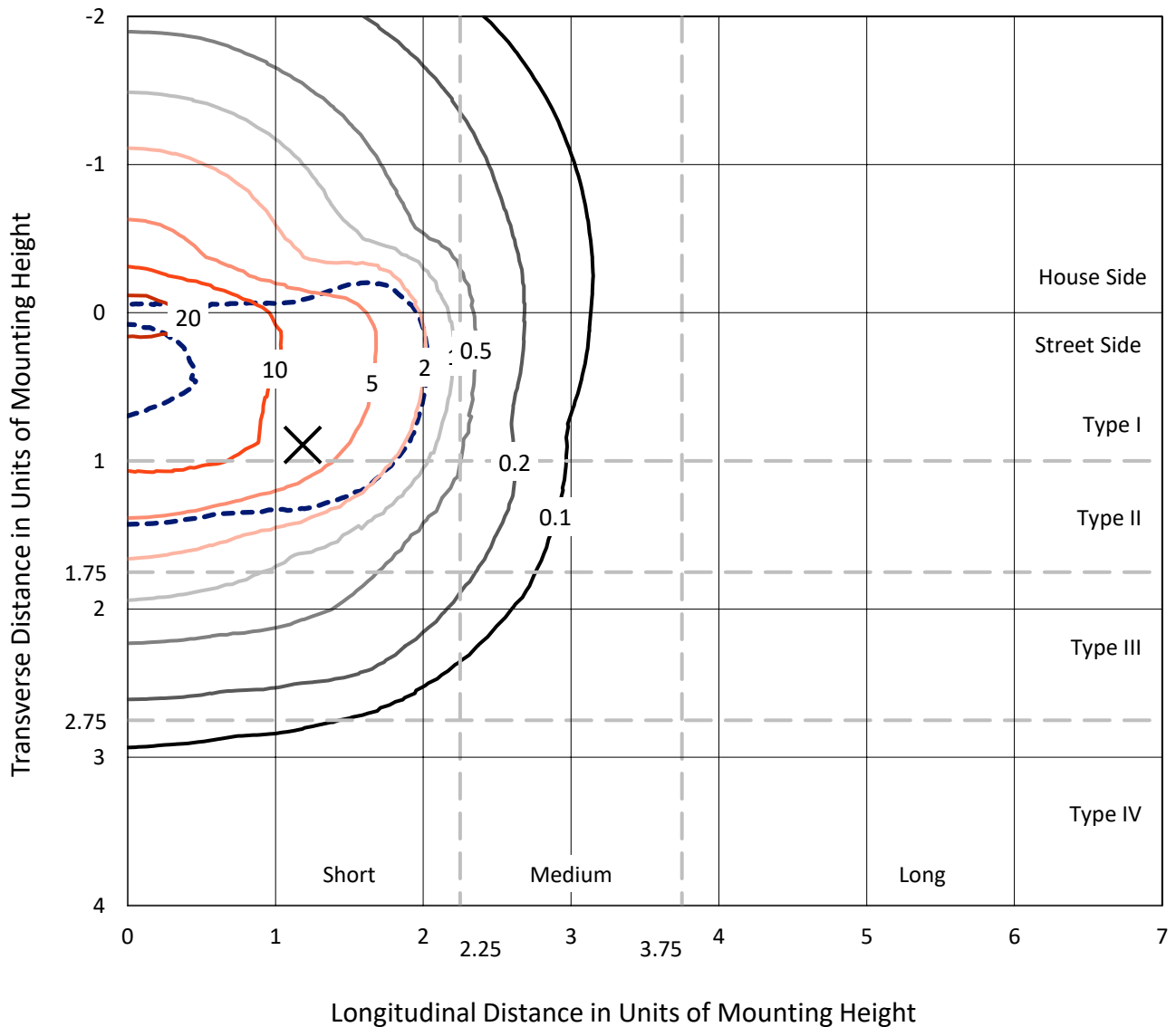
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

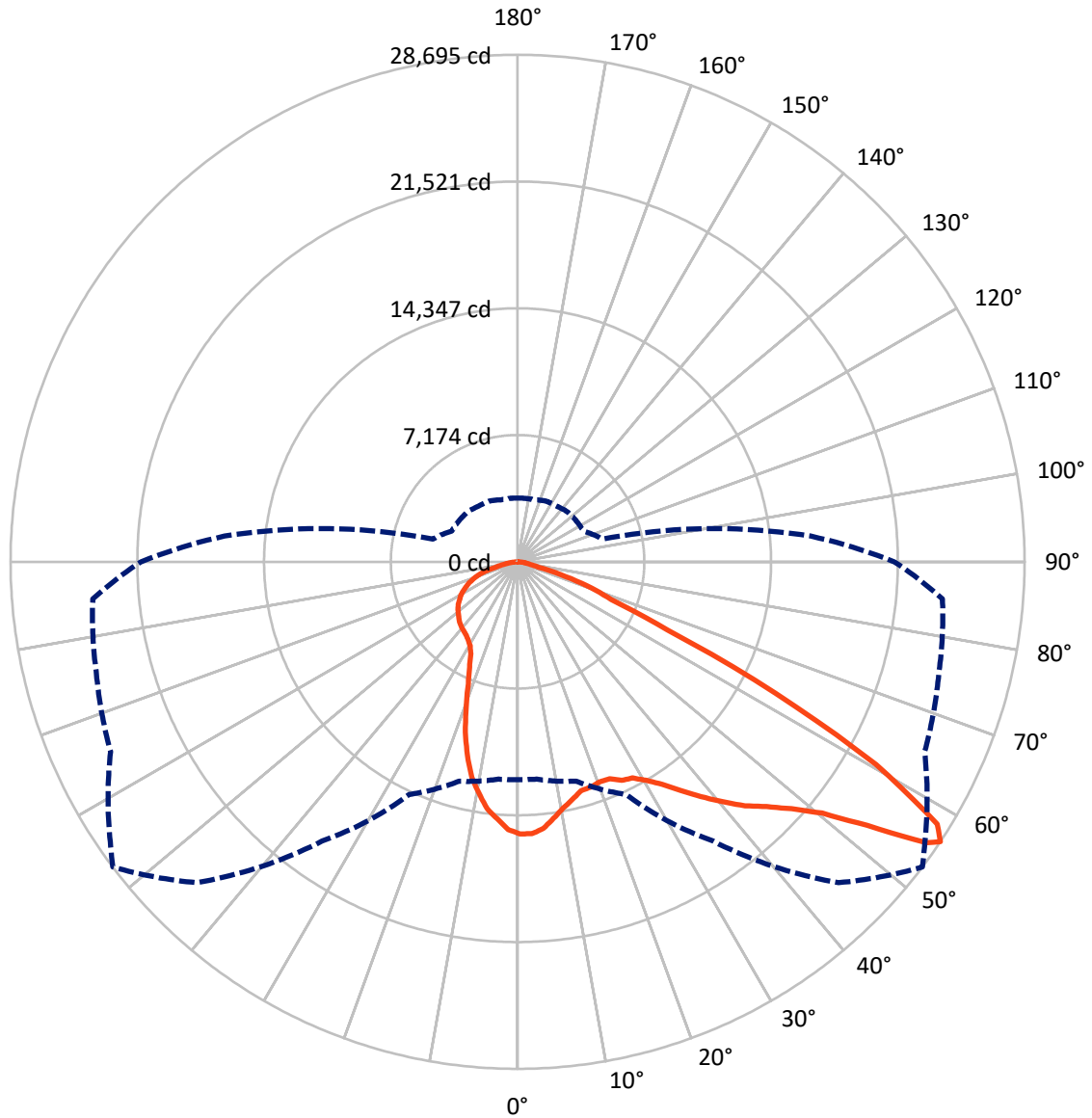
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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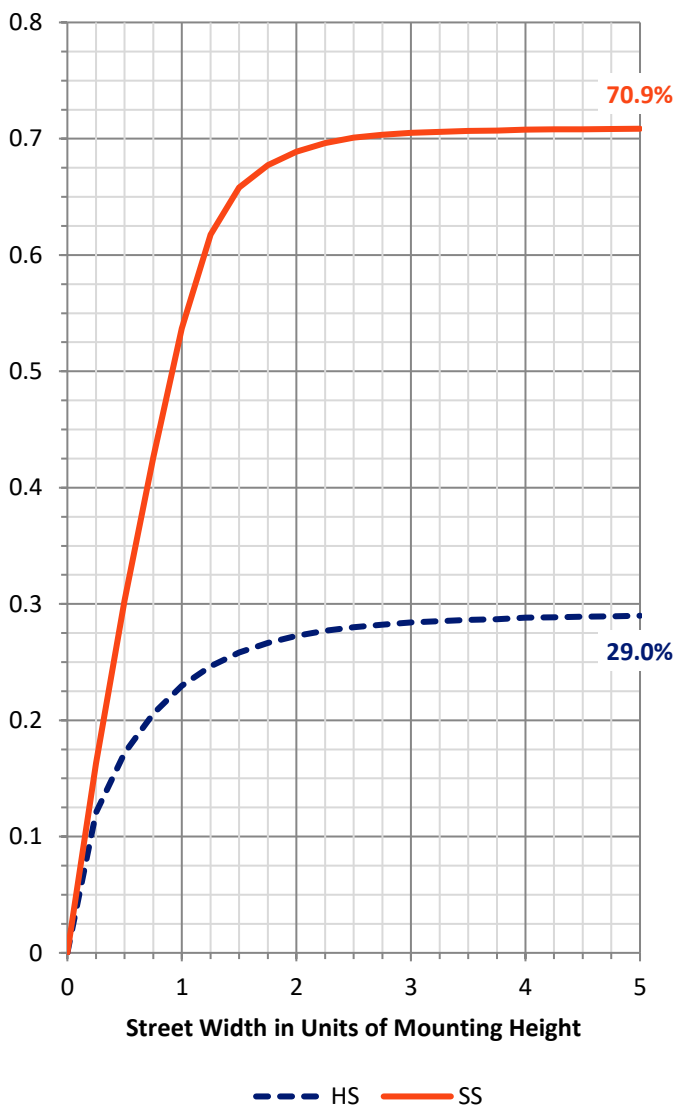
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13582.3	0.0	13582.3
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	32960.8	0.0	32960.8
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	46543.1	0.0	46543.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1363.2	2.9
10°-20°	3404.6	7.3
20°-30°	5020.5	10.8
30°-40°	7173.3	15.4
40°-50°	9873.0	21.2
50°-60°	11667.3	25.1
60°-70°	6217.9	13.4
70°-80°	1577.4	3.4
80°-90°	246.0	0.5
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°	46543.1	100.0
0°-180°	46543.1	100.0

**Coefficient of Utilization**

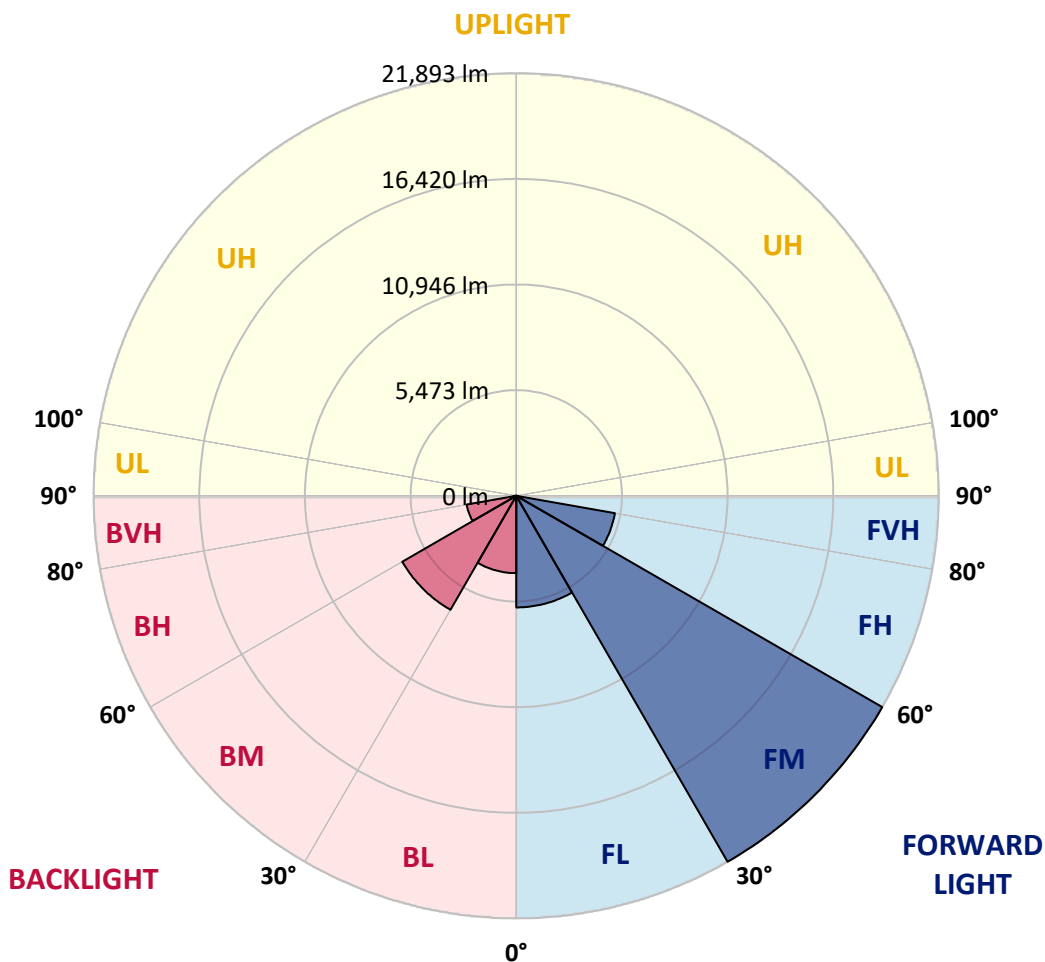


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5782.3	12.4			
FM (30°-60°)	21893.0	47.0			
FH (60°-80°)	5186.6	11.1			G3/7500
FVH (80°-90°)	98.9	0.2			G1/100
BL (0°-30°)	4006.0	8.6	B4/5000		
BM (30°-60°)	6820.6	14.7	B4/8500		
BH (60°-80°)	2608.7	5.6	B4/5000		G4/5000
BVH (80°-90°)	147.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	15398.3	15398.3	15398.3	15398.3	15398.3	15398.3	15398.3	15398.3	15398.3	15398.3	15398.3
2.5°	15207.2	15075.9	15153.5	15123.6	15368.4	15440.1	15404.3	15434.1	15571.4	15505.7	15368.4
5°	14210.1	14395.2	14431.1	14520.6	14663.9	14944.5	15165.5	15225.1	15290.8	15595.3	15565.5
7.5°	13302.6	13428.0	13362.3	13625.0	13935.4	14389.3	14657.9	14705.7	15308.7	15475.9	15601.3
10°	12729.4	12604.0	12902.6	12974.2	13326.5	13845.9	14168.3	14365.4	14914.7	15577.4	15655.0
12.5°	12198.0	12156.2	12335.4	12538.3	12932.4	13469.8	13798.2	13875.8	14723.6	15422.2	15786.4
15°	11804.0	11756.2	11935.3	12084.6	12544.3	13022.0	13439.9	13660.8	14514.6	15332.6	15672.9
17.5°	11493.5	11487.5	11589.0	11857.7	12329.4	12729.4	13404.1	13416.0	14407.1	15470.0	15768.4
20°	11475.6	11469.6	11487.5	11786.0	12215.9	12705.5	13290.6	13398.1	14407.1	15374.4	15774.5
22.5°	11624.8	11529.3	11636.8	11827.8	12138.3	12747.3	13332.5	13571.3	14753.4	15846.1	16043.1
25°	11863.7	11887.6	11947.2	12012.9	12192.0	12842.8	13702.7	13899.7	15159.4	16252.1	16413.3
27.5°	12299.5	12287.6	12311.5	12347.3	12502.6	12932.4	13851.9	14359.4	16007.3	16974.5	16813.4
30°	12938.4	12896.6	12992.1	13117.5	12974.2	13219.0	14347.5	14729.6	16795.4	17702.9	17261.2
32.5°	13517.6	13672.7	13851.9	13905.6	13732.5	13780.3	15004.2	15392.3	17452.2	18598.5	17810.4
35°	14240.0	14365.4	14604.2	14771.4	14741.5	14598.3	15899.8	16413.3	18401.5	19255.3	18389.6
37.5°	14944.5	15093.8	15487.8	15983.4	15708.8	15643.1	16855.1	17279.0	18694.0	19607.6	18813.5
40°	16078.9	16073.0	16753.6	17010.4	17255.1	17141.7	17846.2	17989.6	18849.3	19530.0	18825.4
42.5°	17410.4	17326.8	18019.4	18419.4	18735.9	18747.8	18879.1	18831.4	18921.0	19135.9	18700.1
45°	18676.2	18855.3	19553.9	20270.3	20586.8	20622.6	19750.9	19661.4	19046.3	19022.4	18461.3
47.5°	20222.5	20264.4	20837.5	21780.9	22515.3	22264.5	20879.3	20682.3	19595.7	19780.8	18861.3
50°	20312.1	20622.6	21136.1	22246.6	24503.5	24437.8	22342.1	21972.0	20479.3	20855.4	19977.8
52.5°	18437.4	18365.7	18974.7	20789.7	24354.3	26599.2	24766.2	23882.6	22378.0	22091.4	21786.9
55°	14048.9	14216.1	14753.4	16586.4	21148.0	26629.0	28068.0	27345.6	24408.0	23918.4	23566.1
56°	12323.4	12347.3	12854.8	14526.6	19297.1	25679.7	28694.9	28109.8	25417.0	24670.7	24133.3
57.5°	10215.8	10078.5	10341.2	11254.7	16287.9	23673.6	28008.3	28581.5	26599.2	25482.7	24736.4
60°	8042.4	8012.6	7905.2	8072.3	10293.4	17834.3	23315.4	24605.0	26479.8	24718.4	23691.5
62.5°	6567.7	6418.4	6633.4	6872.2	7152.9	11063.6	16383.4	17141.7	21022.6	19733.0	17798.5
65°	5092.9	5021.3	5290.0	6066.1	6233.4	7027.4	9332.1	9917.2	12413.0	12192.0	10735.2
67.5°	3504.8	3516.7	3749.6	4931.7	5779.6	5707.9	5713.9	6018.4	6478.2	4812.3	4191.4
70°	2221.1	2215.1	2340.5	3176.4	4651.1	4698.9	4460.0	4370.5	4143.6	2507.6	2657.0
72.5°	1427.0	1385.2	1450.9	1755.4	2406.2	2782.3	2865.9	2919.7	2400.2	1970.3	2137.5
75°	806.0	764.2	740.3	818.0	949.3	1098.6	1206.1	1241.9	1391.2	1492.6	1582.2
77.5°	244.8	220.9	268.6	358.2	471.7	632.9	770.2	794.1	937.4	1056.8	1146.4
80°	107.5	119.4	167.2	238.8	334.3	447.8	543.3	579.2	674.7	764.2	788.1
82.5°	65.7	71.6	113.5	161.2	232.9	316.4	388.1	400.0	495.6	567.2	585.1
85°	23.9	29.8	59.7	95.5	149.2	203.0	203.0	220.9	203.0	203.0	220.9
87.5°	0.0	0.0	6.0	12.0	12.0	17.9	23.9	23.9	29.8	35.9	41.8
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°	15398.3	15398.3	15398.3	15398.3	15398.3	15398.3	15398.3	15398.3	15398.3	15398.3	15398.3
2.5°	15440.1	15410.2	15362.5	15189.3	15171.4	15117.7	14819.1	14771.4	14819.1	14675.8	14687.7
5°	15410.2	15499.8	15141.6	14968.4	14646.0	14413.2	14144.4	14007.2	13762.3	13607.1	13780.3
7.5°	15541.6	15505.7	15058.0	14681.8	14198.2	13607.1	13135.5	12866.7	12436.9	12317.5	12407.0
10°	15493.8	15302.8	14777.3	14281.8	13368.2	12848.8	12084.6	11344.2	10938.2	10729.2	10699.4
12.5°	15428.2	15374.4	14496.7	13642.9	12681.6	11589.0	10514.3	9815.8	9153.0	8866.4	8908.2
15°	15505.7	15052.0	13971.3	12890.6	11612.9	10179.9	9021.6	8120.1	7660.3	7475.2	7475.2
17.5°	15470.0	14896.7	13720.5	12048.7	10430.7	8735.1	7463.3	6920.0	6728.9	6728.9	6782.7
20°	15487.8	14998.3	13213.0	11206.9	9033.5	7355.8	6430.4	6233.4	6316.9	6346.8	6376.7
22.5°	15589.4	14663.9	12717.5	10281.4	7737.9	6293.0	5839.3	5845.3	5994.5	6155.7	6125.9
25°	15714.7	14532.6	12114.4	9361.9	6746.8	5773.6	5630.3	5612.4	5725.8	5809.5	5821.4
27.5°	15607.2	14305.6	11499.5	8215.6	5934.8	5427.3	5397.5	5409.4	5445.2	5612.4	5558.7
30°	15959.5	14371.3	10729.2	7254.3	5487.0	5313.9	5278.0	5260.1	5313.9	5361.7	5319.9
32.5°	16395.4	14138.5	10156.1	6328.9	5266.1	5230.3	5158.6	5134.8	5164.6	5116.8	5140.7
35°	16586.4	14096.7	9409.7	5666.1	5092.9	5063.1	5021.3	5015.3	5021.3	4979.5	4943.7
37.5°	16694.0	14293.7	8555.9	5361.7	4985.5	5015.3	4919.8	4907.8	4800.4	4824.3	4842.2
40°	16879.0	13989.2	7863.4	5069.1	4919.8	4860.1	4776.5	4758.6	4687.0	4645.1	4687.0
42.5°	16610.3	13899.7	7182.7	4943.7	4824.3	4758.6	4698.9	4597.4	4573.5	4537.7	4513.8
45°	16395.4	13386.2	6573.7	4788.4	4710.8	4675.0	4561.6	4454.1	4364.5	4400.4	4346.6
47.5°	16556.6	13207.1	5970.6	4657.1	4555.6	4513.8	4400.4	4316.8	4227.2	4185.4	4173.5
50°	17201.4	13541.4	5463.1	4561.6	4424.3	4400.4	4251.1	4155.5	4072.0	4042.2	4054.1
52.5°	18741.8	14455.0	5116.8	4364.5	4298.8	4191.4	4107.8	3988.4	3934.7	3839.1	3898.8
55°	20694.2	15941.6	5027.3	4179.4	4143.6	4048.1	3934.7	3845.1	3743.6	3666.0	3648.1
56°	21321.2	16652.1	4955.6	4107.8	4048.1	3994.4	3845.1	3791.4	3630.1	3612.2	3600.3
57.5°	21828.6	17279.0	4967.6	3970.5	3910.8	3863.0	3773.4	3642.1	3534.6	3468.9	3498.8
60°	20682.3	16174.5	4740.7	3761.5	3749.6	3660.0	3534.6	3474.9	3343.6	3266.0	3248.0
62.5°	15374.4	10980.0	3845.1	3492.8	3486.9	3391.3	3248.0	3182.3	3158.5	3051.0	3051.0
65°	8854.5	6884.1	3325.6	3271.9	3224.2	3128.6	2985.3	2931.6	2871.9	2836.0	2806.2
67.5°	3779.4	3570.5	3021.1	3015.2	2961.5	2842.1	2698.8	2615.1	2537.5	2465.9	2501.7
70°	2740.5	2782.3	2728.6	2698.8	2633.1	2483.8	2358.4	2256.9	2137.5	2089.7	2125.5
72.5°	2173.3	2262.9	2340.5	2346.5	2268.8	2095.7	1958.4	1821.0	1689.7	1624.0	1653.9
75°	1647.9	1707.6	1785.2	1803.2	1689.7	1570.3	1438.9	1295.6	1194.2	1116.5	1128.5
77.5°	1188.1	1176.2	1247.9	1235.9	1182.2	1098.6	979.2	847.8	734.4	662.7	668.7
80°	812.0	829.9	871.7	865.8	800.1	746.4	656.8	549.3	465.7	406.0	394.1
82.5°	567.2	597.0	632.9	603.1	549.3	495.6	429.9	352.3	286.6	238.8	226.9
85°	203.0	232.9	268.6	286.6	304.5	292.5	244.8	197.0	143.3	119.4	113.5
87.5°	41.8	47.8	53.7	53.7	53.7	47.8	41.8	41.8	35.9	17.9	17.9
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)