

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: P533304

Luminaire Tested: **GALN-SA8D-727-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533304  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-727-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 44197 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

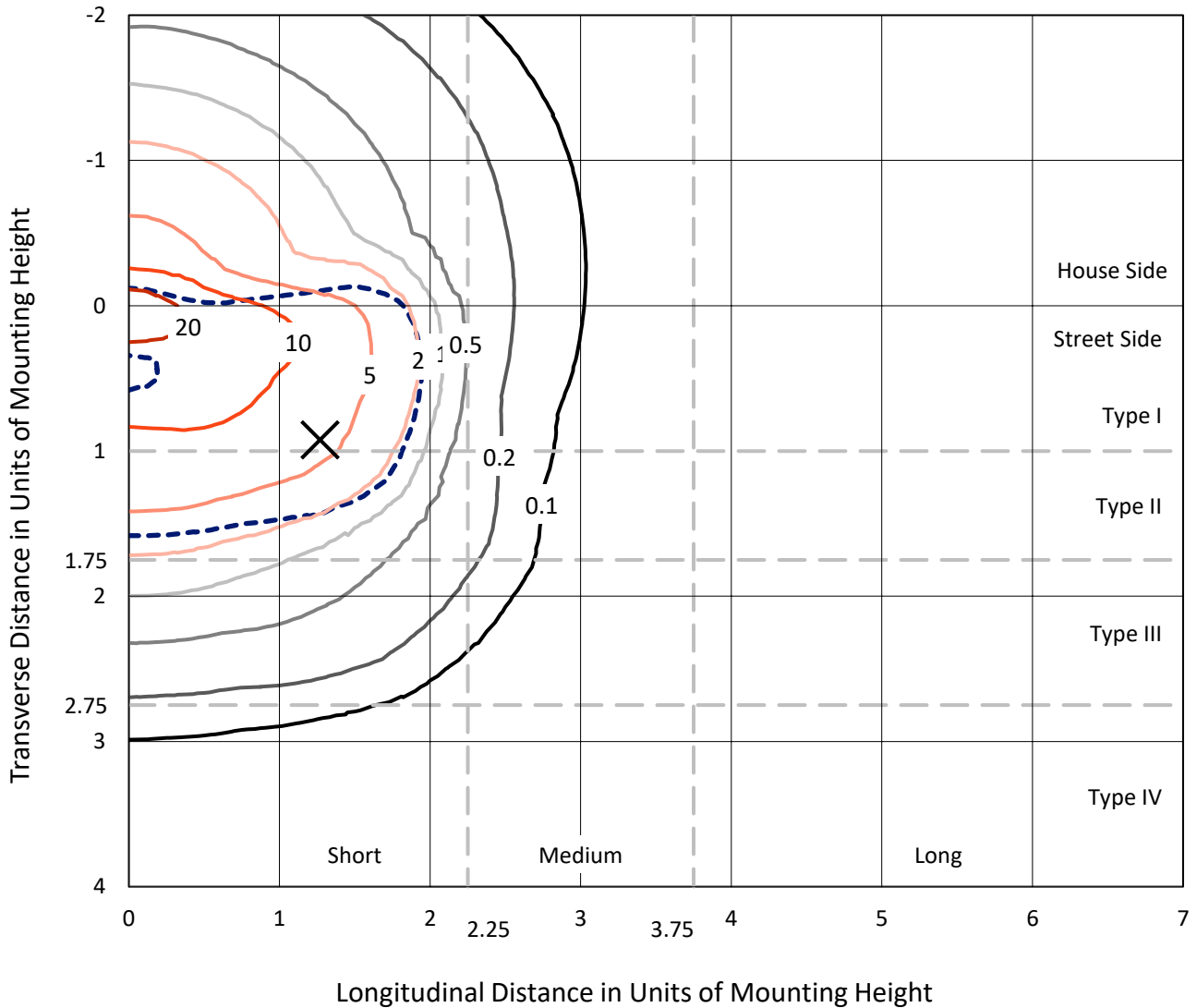
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

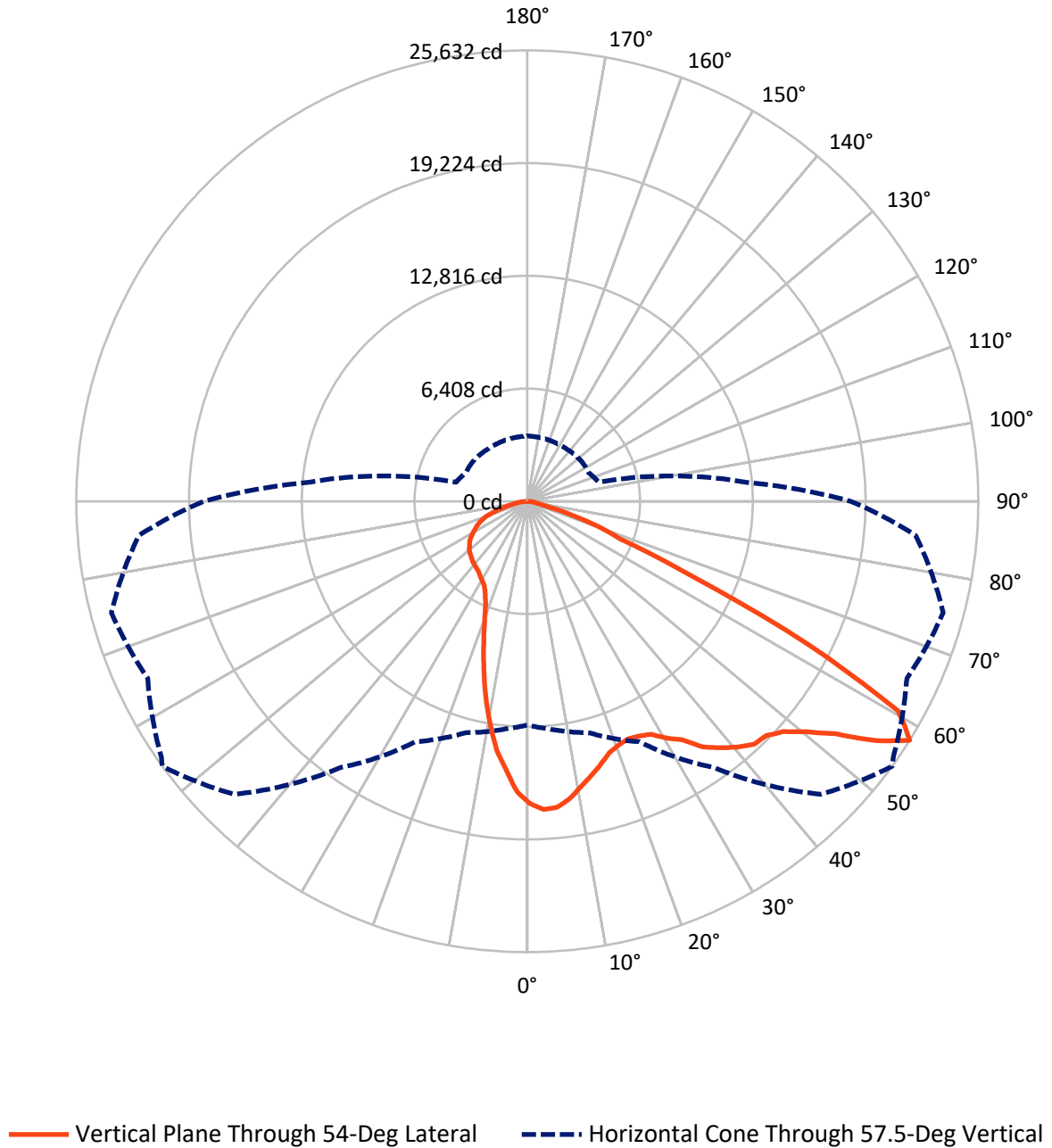
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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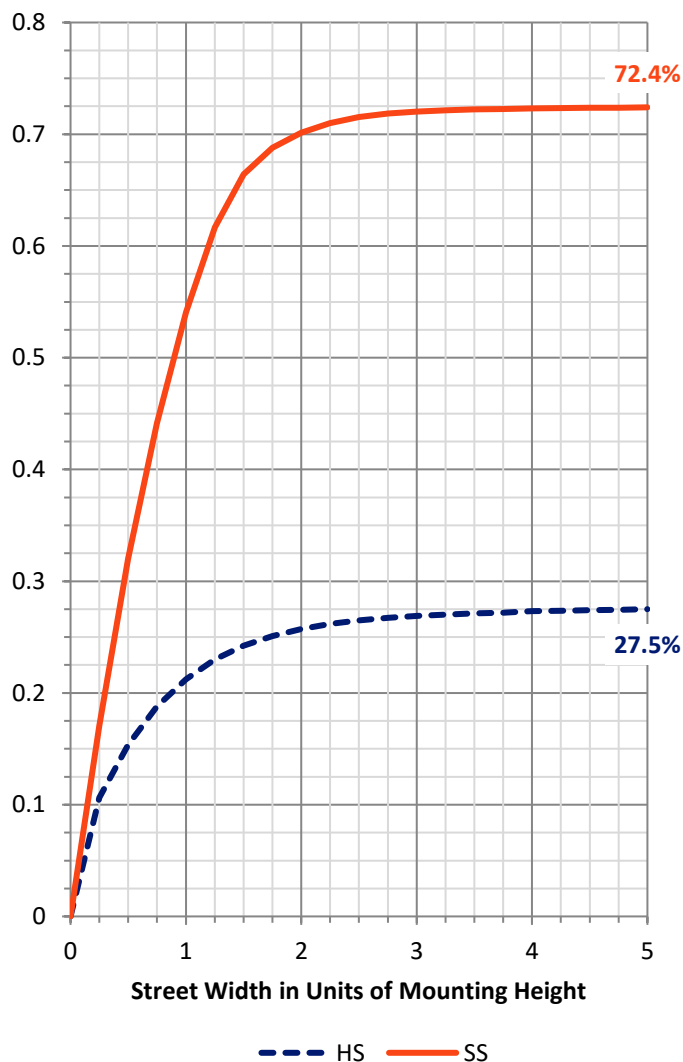
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12227.4	0.0	12227.4
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	31969.7	0.0	31969.7
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	44197.0	0.0	44197.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1481.5	3.4
10°-20°	3430.2	7.8
20°-30°	4819.5	10.9
30°-40°	6737.7	15.2
40°-50°	9121.6	20.6
50°-60°	11110.5	25.1
60°-70°	5786.8	13.1
70°-80°	1482.8	3.4
80°-90°	226.2	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°	44197.0	100.0
0°-180°	44197.0	100.0

**Coefficient of Utilization**



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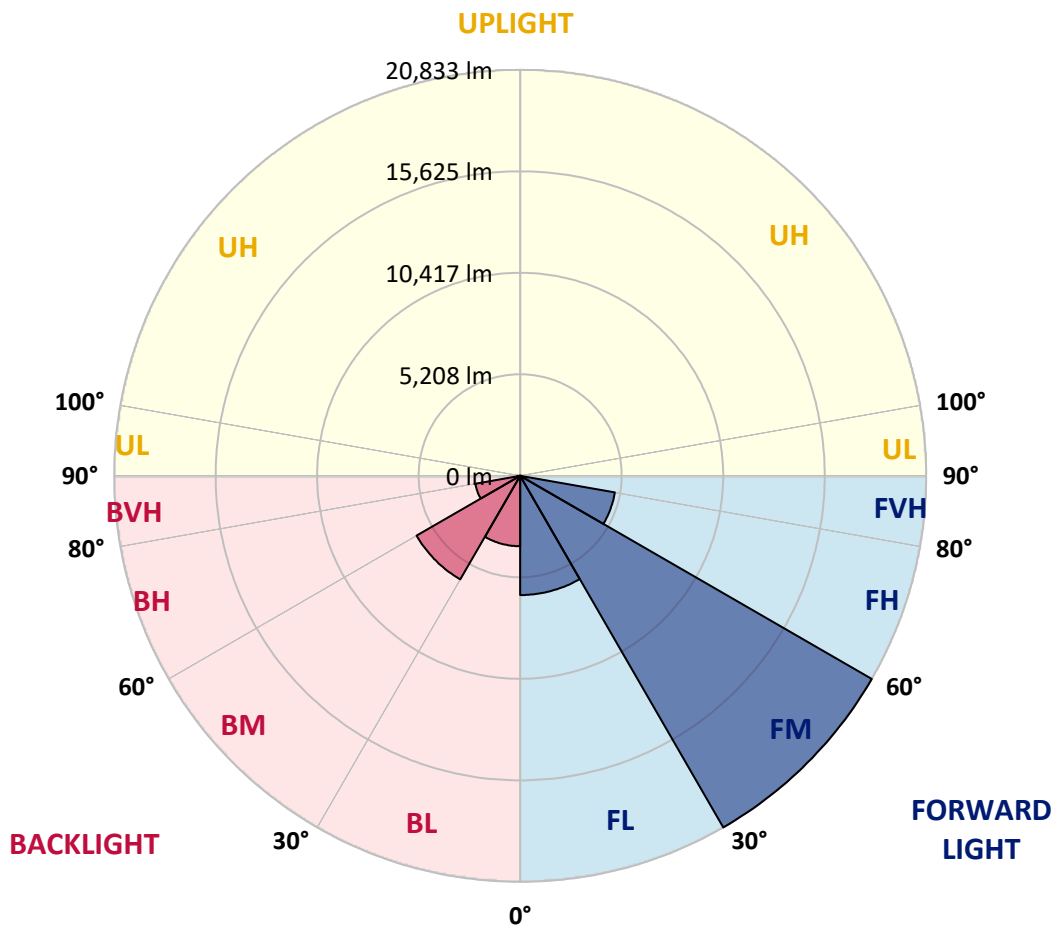
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6117.5	13.8			
FM (30°-60°)	20833.1	47.1			
FH (60°-80°)	4933.6	11.2			G2/5000
FVH (80°-90°)	85.5	0.2			G1/100
BL (0°-30°)	3613.8	8.2	B4/5000		
BM (30°-60°)	6136.8	13.9	B4/8500		
BH (60°-80°)	2336.0	5.3	B3/2500		G3/2500
BVH (80°-90°)	140.7	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	17178.9	17178.9	17178.9	17178.9	17178.9	17178.9	17178.9	17178.9	17178.9	17178.9	17178.9
2.5°	17667.4	17599.3	17610.6	17701.5	17587.9	17542.4	17542.4	17320.9	17337.9	17184.5	17144.8
5°	17258.4	17099.3	17207.3	17343.6	17366.3	17411.8	17485.6	17428.8	17269.8	17105.0	16838.0
7.5°	16190.4	16332.4	16372.2	16468.8	16673.3	16860.7	17093.7	16934.6	16928.9	16764.2	16605.1
10°	15253.1	15167.8	15383.7	15525.7	15866.6	16179.0	16536.9	16519.9	16605.1	16417.6	16145.0
12.5°	14321.4	14253.2	14355.5	14679.3	15156.5	15611.0	16037.0	15878.0	16332.4	16298.3	15713.2
15°	13332.9	13384.1	13531.8	13832.9	14457.7	15003.1	15542.8	15548.5	15951.8	16088.1	15304.2
17.5°	12639.9	12583.1	12770.5	13219.3	13776.0	14429.3	15042.9	15167.8	15787.1	15866.6	15179.2
20°	12122.9	12202.4	12446.7	12674.0	13315.9	14105.5	14798.6	14844.0	15753.0	15968.8	14980.4
22.5°	11997.9	11952.5	12032.0	12401.3	12929.6	13787.4	14667.9	14838.4	15747.3	15934.8	14605.4
25°	11867.3	12015.0	12009.3	12378.6	12764.9	13531.8	14775.9	14963.3	16048.4	16110.9	14656.6
27.5°	12162.7	12145.6	12304.7	12333.1	12810.3	13599.9	15003.1	15145.1	16548.3	16497.2	14696.3
30°	12458.1	12372.9	12469.4	12804.6	13026.2	13991.9	15628.0	15616.6	17195.9	17161.8	14821.3
32.5°	12821.7	12781.9	12844.4	13139.8	13514.7	14514.6	16156.3	16491.5	17854.9	18070.8	15253.1
35°	12889.8	13054.6	13202.3	13599.9	14133.9	15361.0	17150.5	17428.8	18616.1	19292.1	16076.8
37.5°	13321.6	13384.1	13730.6	14435.0	14923.6	16491.5	17781.0	17957.1	19309.2	20076.1	16946.0
40°	13781.7	13855.6	14378.2	15116.7	15787.1	17230.0	18371.8	18428.7	19530.7	20678.3	17514.0
42.5°	14406.6	14474.8	14991.7	15917.7	16815.3	17860.6	18894.5	18957.0	19513.7	21371.3	18417.3
45°	15054.2	15219.0	15826.8	16877.8	17684.5	18599.1	19013.8	19269.4	19672.8	21990.5	19150.1
47.5°	15963.2	16116.6	16616.5	17644.7	18587.7	19246.7	19564.8	19814.8	20053.4	22530.2	19621.6
50°	16928.9	16957.3	17565.2	18496.8	19189.9	19979.5	20593.1	20678.3	20553.3	23155.1	20422.6
52.5°	17639.0	17729.9	18201.4	19110.4	20144.3	21115.7	21956.5	22047.3	21803.1	23388.0	20695.3
55°	16463.1	16412.0	17178.9	18388.9	20786.2	22808.6	24030.0	24098.1	22712.0	24109.5	21587.2
57.5°	12725.1	12969.4	13622.7	15082.6	18468.4	23558.5	25632.0	25387.7	23802.7	24473.1	22155.3
60°	9248.4	9191.6	9629.0	10606.1	13918.1	20303.3	24234.5	24484.4	22910.8	22058.7	18269.6
62.5°	7532.8	7453.3	7487.4	7521.4	8981.4	13475.0	17940.1	17934.4	17644.7	15855.2	12321.7
65°	6021.7	6209.2	6226.2	6481.8	6669.3	8049.8	10395.9	10952.7	9538.1	7822.5	5675.2
67.5°	4539.0	4470.8	4698.1	5607.0	5959.2	5811.5	5675.2	5737.7	4078.8	2942.7	2772.3
70°	2675.7	2647.3	2920.0	3908.4	4908.2	4618.5	4277.7	4283.4	2800.7	2056.5	2289.4
72.5°	1465.7	1460.0	1516.8	1982.6	2789.3	2897.2	2567.7	2647.3	1670.2	1664.5	1789.5
75°	818.0	801.0	784.0	874.8	1005.5	1062.3	1085.0	1096.4	1147.5	1283.9	1335.0
77.5°	301.1	289.7	289.7	335.2	426.1	534.0	676.0	687.4	812.4	931.7	982.8
80°	102.3	113.6	153.4	210.2	284.0	380.6	460.1	471.5	573.8	653.3	670.3
82.5°	62.5	68.2	102.3	147.7	204.5	267.0	340.9	346.5	426.1	477.2	499.9
85°	28.4	34.1	56.8	90.9	130.7	176.1	181.8	181.8	176.1	181.8	170.4
87.5°	0.0	0.0	11.4	11.4	11.4	17.0	22.7	17.0	28.4	34.1	34.1
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°	17178.9	17178.9	17178.9	17178.9	17178.9	17178.9	17178.9	17178.9	17178.9	17178.9	17178.9
2.5°	17025.5	16963.0	16769.8	16599.4	16548.3	16321.1	15985.9	16025.7	15781.4	15895.0	15775.7
5°	16792.6	16582.4	16088.1	15878.0	15326.9	15077.0	14906.5	14480.5	14281.6	14241.9	14071.4
7.5°	16196.1	16065.4	15446.2	14878.1	14293.0	13793.1	13151.2	12713.7	12401.3	12316.1	12066.1
10°	15724.6	15434.8	14577.0	13713.6	12878.5	12009.3	11174.2	10520.9	10202.8	9833.5	9708.6
12.5°	15258.7	14821.3	13662.4	12554.7	11475.3	10378.9	9367.7	8572.4	7879.3	7714.6	7657.8
15°	14969.0	14207.8	12844.4	11509.4	9975.6	8544.0	7532.8	7010.2	6584.1	6408.0	6533.0
17.5°	14588.4	13702.2	12060.4	10282.3	8595.1	7277.2	6430.7	6106.9	5953.5	5970.6	5919.4
20°	14111.2	13225.0	11032.2	9168.9	7362.4	6311.4	5828.5	5709.2	5732.0	5771.7	5754.7
22.5°	13770.4	12645.6	10288.0	8032.7	6362.5	5777.4	5578.6	5493.4	5567.2	5601.3	5572.9
25°	13509.0	12151.3	9384.8	7027.2	5783.1	5476.3	5385.4	5379.8	5493.4	5538.8	5510.4
27.5°	13270.4	11691.2	8487.2	6260.3	5396.8	5243.4	5215.0	5283.2	5357.0	5402.5	5442.2
30°	13128.4	11339.0	7646.4	5618.4	5203.7	5129.8	5078.7	5141.2	5180.9	5226.4	5203.7
32.5°	13264.8	11089.0	6834.1	5254.8	5044.6	4970.7	5038.9	4999.1	5067.3	5107.1	5044.6
35°	13690.8	10867.5	6254.6	5061.6	4862.8	4891.2	4902.6	4885.5	4913.9	4879.8	4953.7
37.5°	14111.2	10787.9	5720.6	4896.9	4777.6	4777.6	4766.2	4732.1	4789.0	4777.6	4811.7
40°	14645.2	10839.0	5266.1	4720.8	4698.1	4686.7	4641.2	4635.6	4612.8	4618.5	4629.9
42.5°	15111.0	10952.7	5004.8	4607.2	4624.2	4646.9	4561.7	4493.5	4522.0	4465.1	4465.1
45°	15605.3	11054.9	4771.9	4527.6	4510.6	4504.9	4436.7	4397.0	4374.2	4379.9	4431.1
47.5°	16383.5	11202.6	4595.8	4419.7	4431.1	4345.8	4328.8	4277.7	4300.4	4334.5	4340.2
50°	16934.6	11515.1	4459.5	4294.7	4334.5	4277.7	4175.4	4152.7	4152.7	4209.5	4198.1
52.5°	17320.9	11952.5	4328.8	4158.4	4175.4	4130.0	4095.9	4044.8	4010.7	4090.2	4130.0
55°	18502.5	12679.6	4294.7	4044.8	4039.1	3993.6	3931.1	3880.0	3863.0	3874.3	3953.9
57.5°	18388.9	12452.4	4186.8	3845.9	3834.6	3772.1	3709.6	3692.5	3686.9	3698.2	3721.0
60°	14929.3	9197.3	3738.0	3618.7	3601.7	3590.3	3527.8	3459.6	3425.5	3459.6	3431.2
62.5°	9879.0	6158.0	3294.9	3346.0	3357.4	3329.0	3226.7	3158.5	3169.9	3209.7	3147.2
65°	4851.4	3618.7	2988.1	3124.5	3135.8	3056.3	2959.7	2880.2	2840.4	2874.5	2846.1
67.5°	2772.3	2766.6	2738.2	2880.2	2874.5	2795.0	2641.6	2573.4	2505.3	2516.6	2499.6
70°	2351.9	2397.3	2454.1	2539.3	2533.7	2442.8	2261.0	2209.8	2113.3	2101.9	2073.5
72.5°	1852.0	1931.5	2056.5	2119.0	2067.8	1954.2	1834.9	1749.7	1664.5	1613.4	1630.4
75°	1374.8	1488.4	1556.6	1596.3	1516.8	1454.3	1357.7	1255.5	1153.2	1107.8	1090.7
77.5°	999.8	1033.9	1096.4	1124.8	1073.7	1011.2	954.4	852.1	755.6	693.1	676.0
80°	698.7	721.5	766.9	766.9	766.9	738.5	664.7	562.4	499.9	443.1	431.7
82.5°	488.6	511.3	556.7	534.0	528.3	494.2	448.8	369.3	301.1	261.3	250.0
85°	170.4	187.5	227.2	272.7	289.7	284.0	255.6	204.5	159.1	130.7	119.3
87.5°	39.8	39.8	45.4	39.8	39.8	45.4	39.8	39.8	39.8	28.4	22.7
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)