

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: P652610

Luminaire Tested: **GALN-SA9B-840-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652610  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-840-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35887.2 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G5

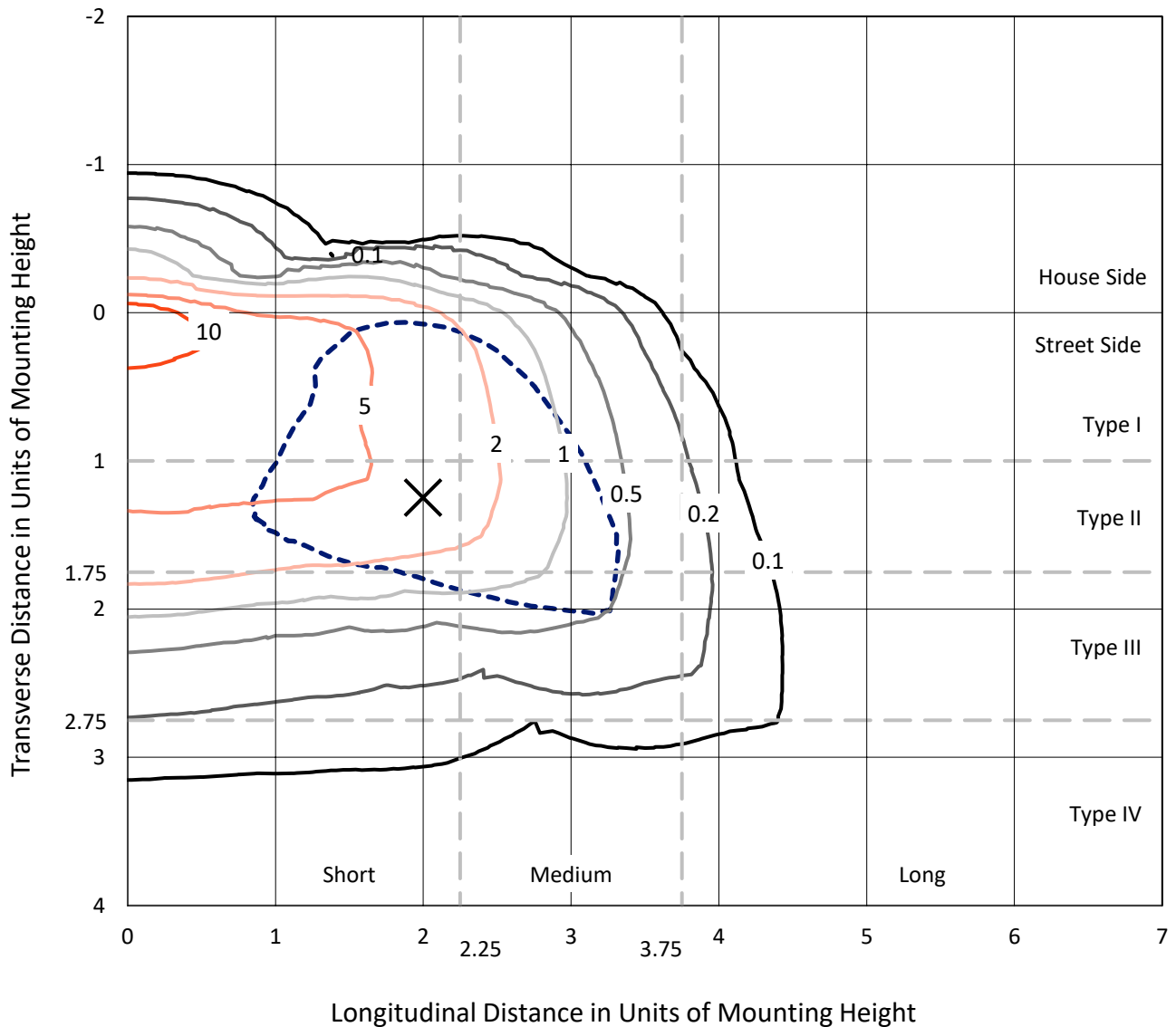
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

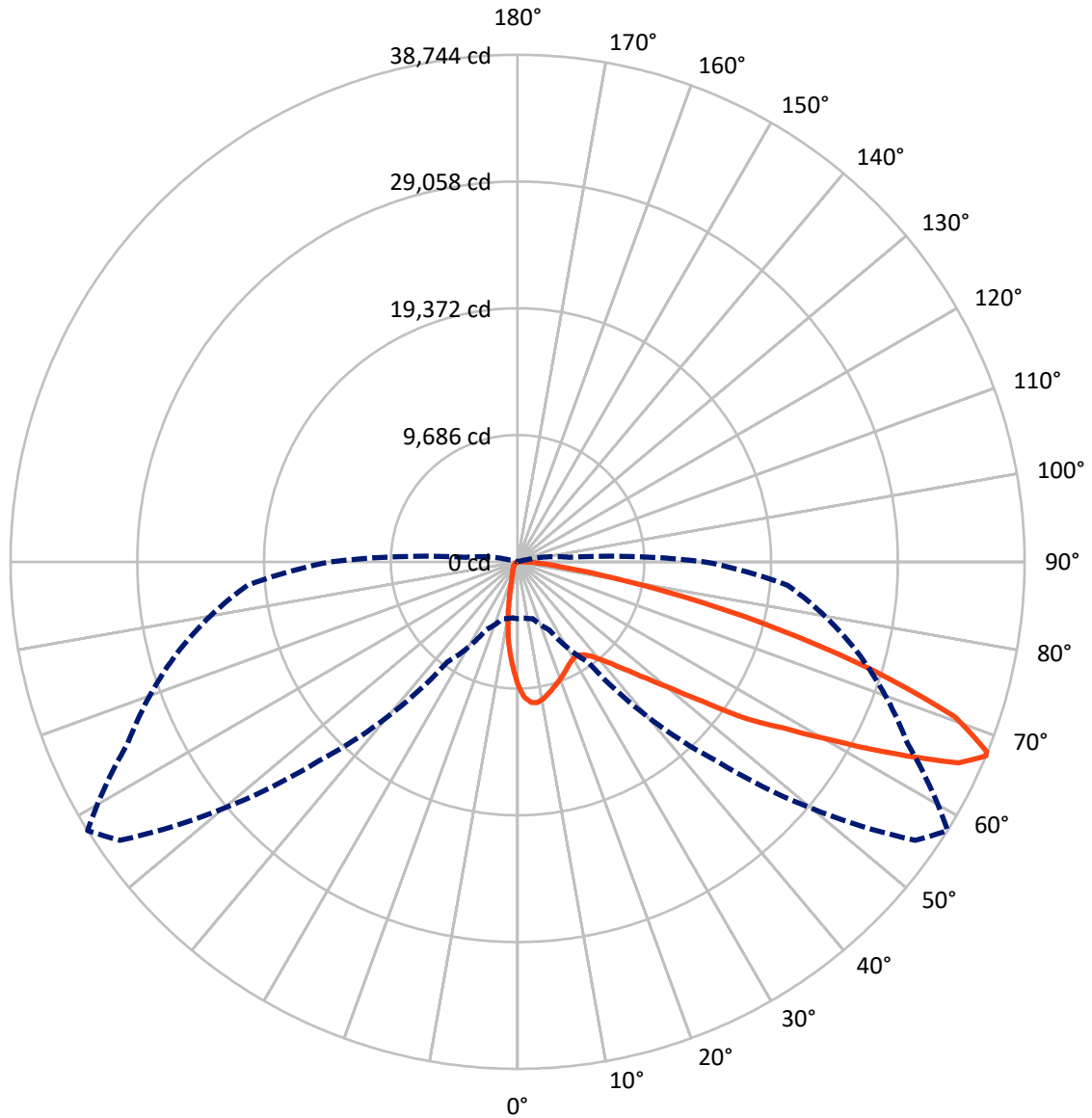
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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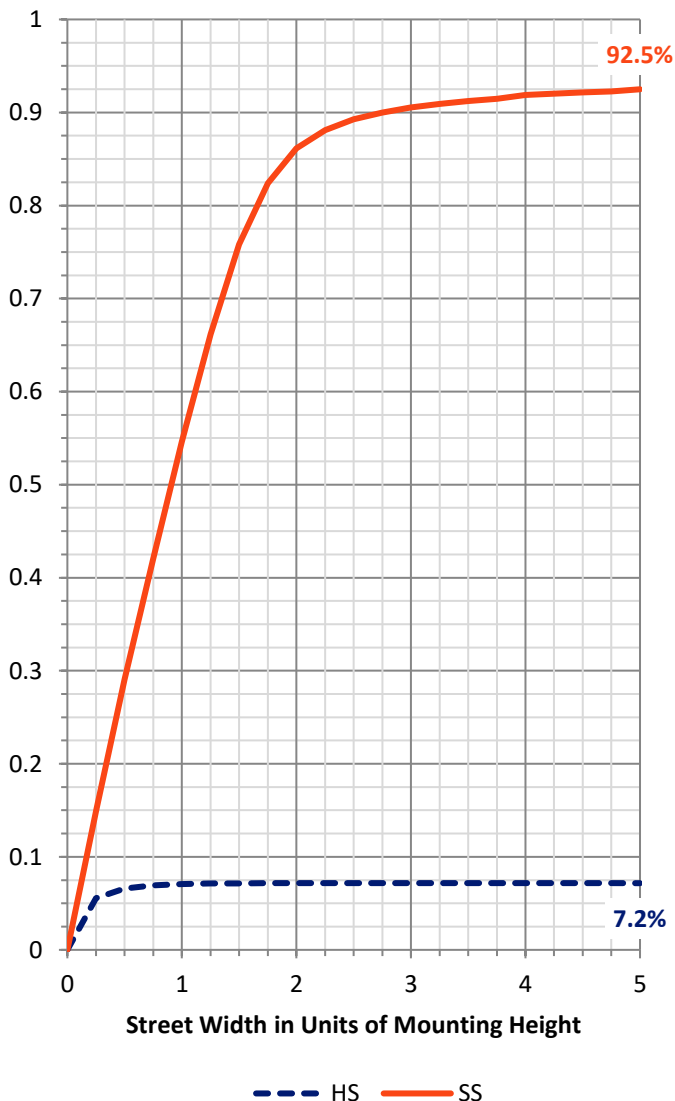
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2589.8	0.0	2589.8
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	33297.3	0.0	33297.3
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	35887.2	0.0	35887.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	772.0	2.2
10°-20°	1667.3	4.6
20°-30°	2259.3	6.3
30°-40°	3133.5	8.7
40°-50°	4997.6	13.9
50°-60°	8638.8	24.1
60°-70°	9868.2	27.5
70°-80°	4114.1	11.5
80°-90°	436.2	1.2
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°	35887.2	100.0
0°-180°	35887.2	100.0

**Coefficient of Utilization**

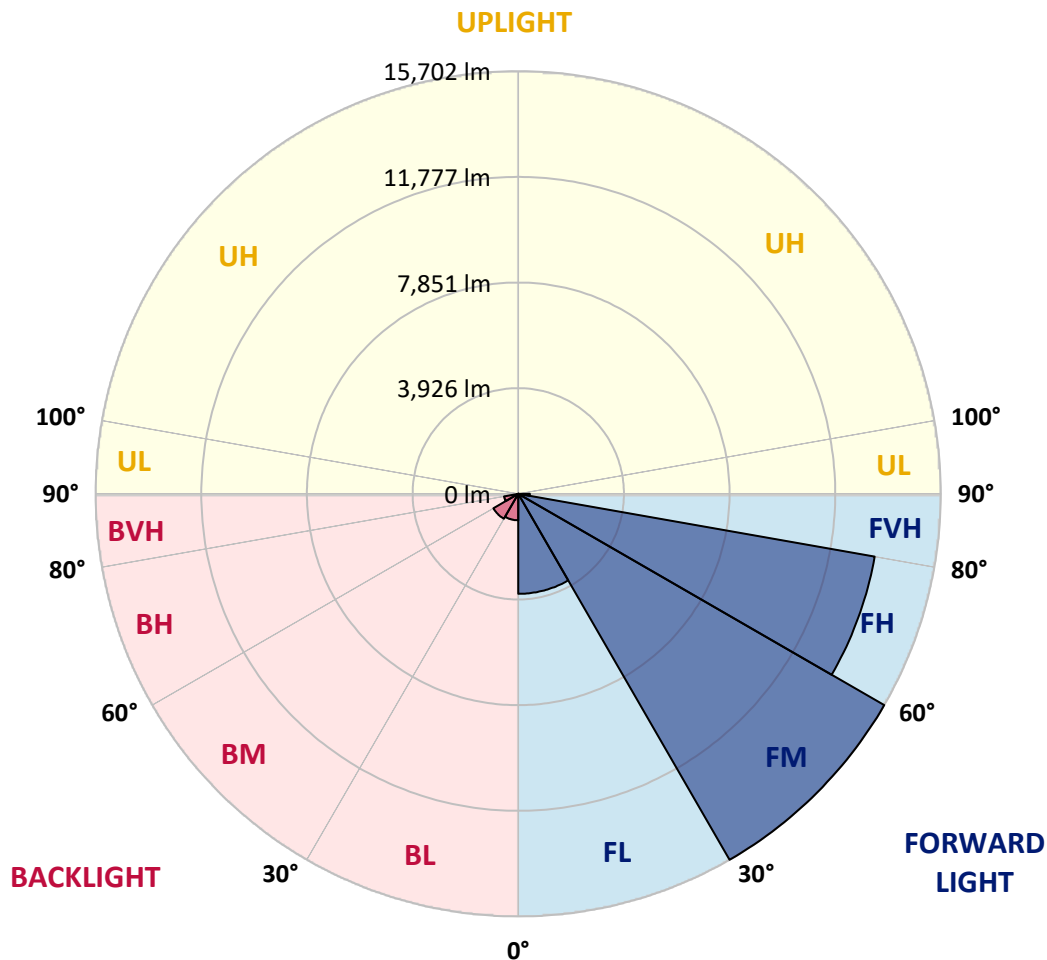


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3715.2	10.4			
FM (30°-60°)	15702.1	43.8			
FH (60°-80°)	13447.0	37.5			G5
FVH (80°-90°)	433.1	1.2			G3/500
BL (0°-30°)	983.4	2.7	B2/1000		
BM (30°-60°)	1067.8	3.0	B2/2500		
BH (60°-80°)	535.4	1.5	B2/1000		G2/1000
BVH (80°-90°)	3.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9513.4	9513.4	9513.4	9513.4	9513.4	9513.4	9513.4	9513.4	9513.4	9513.4	9513.4
2.5°	11041.0	11057.7	10995.4	10945.0	10815.5	10676.4	10491.8	10393.5	10225.6	9935.4	9614.1
5°	11299.9	11321.5	11312.0	11299.9	11249.6	11115.3	10880.3	10794.0	10547.0	10074.5	9494.1
7.5°	10724.4	10803.6	10813.2	10906.7	10995.4	11007.3	10918.6	10853.9	10626.1	10072.2	9280.8
10°	9961.8	10014.5	10091.3	10199.2	10412.7	10590.1	10676.4	10666.8	10535.0	9997.8	9031.3
12.5°	9192.0	9220.8	9338.3	9523.0	9784.4	10086.5	10316.7	10362.3	10364.7	9909.1	8822.7
15°	8530.1	8518.2	8609.2	8822.7	9189.6	9568.5	9981.0	10052.9	10168.0	9822.7	8628.4
17.5°	7964.2	8026.5	8040.9	8275.9	8614.0	9105.7	9630.9	9758.0	9988.2	9748.4	8467.8
20°	7614.1	7647.6	7678.8	7810.7	8115.2	8633.2	9302.3	9477.4	9820.3	9681.3	8287.9
22.5°	7510.9	7532.5	7506.1	7546.9	7762.8	8223.1	8945.0	9177.6	9659.6	9618.9	8141.6
25°	7590.0	7611.6	7549.3	7501.3	7575.6	7889.8	8599.6	8882.6	9530.1	9606.9	8031.3
27.5°	7781.9	7822.6	7736.4	7650.0	7606.8	7710.0	8328.7	8657.3	9441.4	9664.4	7980.9
30°	8081.7	8105.6	8040.9	7935.4	7837.0	7733.9	8187.2	8501.3	9417.4	9798.7	7976.1
32.5°	8407.8	8458.2	8422.2	8352.6	8225.6	7980.9	8227.9	8506.1	9475.0	9993.0	8036.1
35°	8810.7	8868.3	8901.8	8887.4	8724.4	8419.8	8487.0	8722.0	9628.4	10350.3	8199.2
37.5°	9206.4	9256.7	9446.2	9511.0	9367.1	9079.3	8990.5	9146.5	9966.6	10818.0	8494.2
40°	9659.6	9726.8	9993.0	10240.0	10170.5	9868.3	9705.2	9834.7	10484.6	11523.0	9052.9
42.5°	10093.7	10213.6	10618.9	11055.4	11120.1	10782.0	10674.1	10717.2	11252.0	12537.4	9832.3
45°	10710.1	10822.7	11345.5	11937.8	12242.4	11978.6	11868.3	11861.1	12304.8	13964.3	11096.2
47.5°	11599.7	11700.4	12316.8	12901.9	13443.9	13479.9	13271.2	13343.1	13628.6	15633.3	12645.3
50°	12690.9	12928.3	13333.6	13942.7	14667.0	15252.0	15316.8	15220.9	15465.5	17566.2	14506.2
52.5°	14276.1	14367.1	14738.9	15240.1	16089.0	17081.8	17851.7	17719.7	17643.0	19408.0	16386.4
55°	15458.3	15580.6	16158.6	16846.8	18091.4	19400.8	21069.9	21115.5	20146.7	21177.8	18225.7
57.5°	15101.0	15288.0	16163.3	17547.0	20283.3	22676.6	23918.9	23950.1	22463.2	22897.3	20302.5
60°	13266.4	13355.2	14609.3	16455.9	20470.4	26225.9	27959.7	27707.9	24820.6	24820.6	22137.1
62.5°	9407.8	9546.9	10563.7	13280.8	18487.1	27458.5	32799.2	32278.8	28067.6	26660.0	23230.6
65°	6012.1	5877.8	6551.6	8383.8	13772.4	25638.3	37012.7	37043.8	31122.8	27396.2	22633.5
67°	4355.0	4302.2	4496.5	5731.5	9338.3	21552.0	37101.4	38744.1	32878.3	26930.9	20724.6
67.5°	3983.3	4024.0	4165.6	5170.4	8484.6	19611.9	36698.5	38643.4	33274.0	26650.4	20033.9
70°	3019.3	2949.7	3103.2	3657.2	5086.5	12372.0	31568.9	35441.8	32782.3	23866.2	16007.5
72.5°	2220.7	2213.4	2426.9	2990.4	3916.1	6590.1	23698.3	28417.7	26782.2	18173.0	10079.3
75°	1498.8	1565.9	1906.5	2498.9	3549.2	4273.5	16156.1	20616.7	18592.7	10319.2	4120.0
77.5°	853.7	858.5	1227.9	2007.2	3187.1	3438.9	9573.3	13134.5	9841.9	3431.7	1223.1
80°	369.3	405.3	609.1	1458.0	2642.8	3045.6	5489.3	7218.4	3980.9	726.6	395.7
82.5°	136.7	160.7	268.6	896.9	1928.1	2508.5	3316.6	3446.1	1350.1	256.6	247.0
85°	0.0	4.8	98.3	419.7	1004.8	1120.0	2215.9	2043.2	597.1	122.3	160.7
87.5°	0.0	0.0	0.0	43.1	131.9	417.3	688.3	767.4	143.9	43.1	38.3
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°	9513.4	9513.4	9513.4	9513.4	9513.4	9513.4	9513.4	9513.4	9513.4	9513.4	9513.4
2.5°	9441.4	9285.6	8894.7	8503.8	8213.5	7971.3	7606.8	7407.8	7302.3	7146.4	7156.0
5°	9204.0	8887.4	8199.2	7486.9	6911.4	6350.2	5678.8	5407.8	5180.0	5050.5	4964.1
7.5°	8851.4	8383.8	7364.6	6415.0	5530.1	4549.2	3813.0	3321.4	2990.4	2868.1	2750.7
10°	8465.3	7844.3	6518.1	5201.5	3973.7	2961.7	2338.1	1887.3	1726.7	1578.0	1592.3
12.5°	8108.1	7352.6	5741.1	4105.6	2784.2	1882.5	1467.6	1283.0	1230.2	1213.5	1213.5
15°	7815.5	6882.6	4906.6	3086.4	1908.9	1352.6	1175.0	1124.8	1105.5	1100.7	1100.7
17.5°	7503.7	6436.6	4153.5	2280.6	1388.5	1131.9	1071.9	1038.4	1031.2	1026.4	1026.4
20°	7225.5	5988.1	3438.9	1697.9	1122.3	1019.2	980.9	959.2	952.1	947.2	949.7
22.5°	6961.7	5590.0	2767.4	1283.0	988.0	928.0	889.7	868.1	853.7	841.8	844.1
25°	6726.7	5206.3	2225.5	1050.4	889.7	837.0	798.6	767.4	736.2	721.8	719.5
27.5°	6561.2	4870.6	1733.8	899.3	801.0	743.4	695.4	657.1	616.3	594.8	590.0
30°	6424.6	4530.0	1371.8	793.8	712.2	657.1	597.1	541.9	498.8	477.3	467.6
32.5°	6335.8	4206.3	1081.5	707.4	637.9	570.8	503.6	448.4	400.5	378.9	374.1
35°	6321.5	3935.3	884.9	635.5	570.8	498.8	429.2	369.3	328.6	307.0	302.2
37.5°	6424.6	3726.7	741.0	577.9	515.6	436.5	359.7	304.5	268.6	251.8	249.4
40°	6700.3	3594.8	642.7	530.0	465.2	378.9	307.0	259.0	223.0	206.2	206.2
42.5°	7225.5	3599.6	577.9	484.4	414.9	323.8	261.4	215.8	184.7	170.3	165.5
45°	8045.7	3762.6	522.8	438.8	366.9	280.6	223.0	177.5	146.2	134.3	134.3
47.5°	9144.0	4086.4	474.8	393.3	323.8	239.9	189.5	143.9	117.5	105.5	105.5
50°	10580.5	4606.8	434.0	354.9	287.8	206.2	153.5	117.5	91.2	81.6	79.1
52.5°	12081.7	5249.5	386.1	321.3	247.0	175.1	124.7	91.2	69.6	62.3	60.0
55°	13738.8	5877.8	340.5	287.8	201.4	146.2	98.3	71.9	50.4	43.1	43.1
57.5°	15410.3	6494.1	285.4	239.9	158.3	107.9	76.7	52.7	33.6	26.4	26.4
60°	16825.2	6693.2	242.2	194.3	119.9	76.7	55.2	33.6	19.2	12.0	12.0
62.5°	17019.5	6021.7	203.9	148.7	86.4	52.7	28.8	19.2	7.2	4.8	4.8
65°	15964.3	4892.2	170.3	112.7	57.5	26.4	12.0	7.2	2.4	0.0	0.0
67°	14304.8	3966.5	139.1	83.9	40.8	16.8	7.2	2.4	0.0	0.0	0.0
67.5°	13880.4	3781.8	134.3	79.1	36.0	14.4	4.8	2.4	0.0	0.0	0.0
70°	10892.3	2832.2	96.0	47.9	21.6	9.6	0.0	0.0	0.0	0.0	0.0
72.5°	6769.9	1601.9	69.6	28.8	14.4	4.8	0.0	0.0	0.0	0.0	0.0
75°	2558.8	561.2	47.9	19.2	9.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	796.2	213.4	28.8	14.4	4.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	268.6	81.6	19.2	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	165.5	33.6	12.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	103.1	14.4	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.2	4.8	2.4	0.0	0.0	0.0	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)