

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: P457852

Luminaire Tested: **GALN-SA9B-727-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457852  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9B-727-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35307 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G5

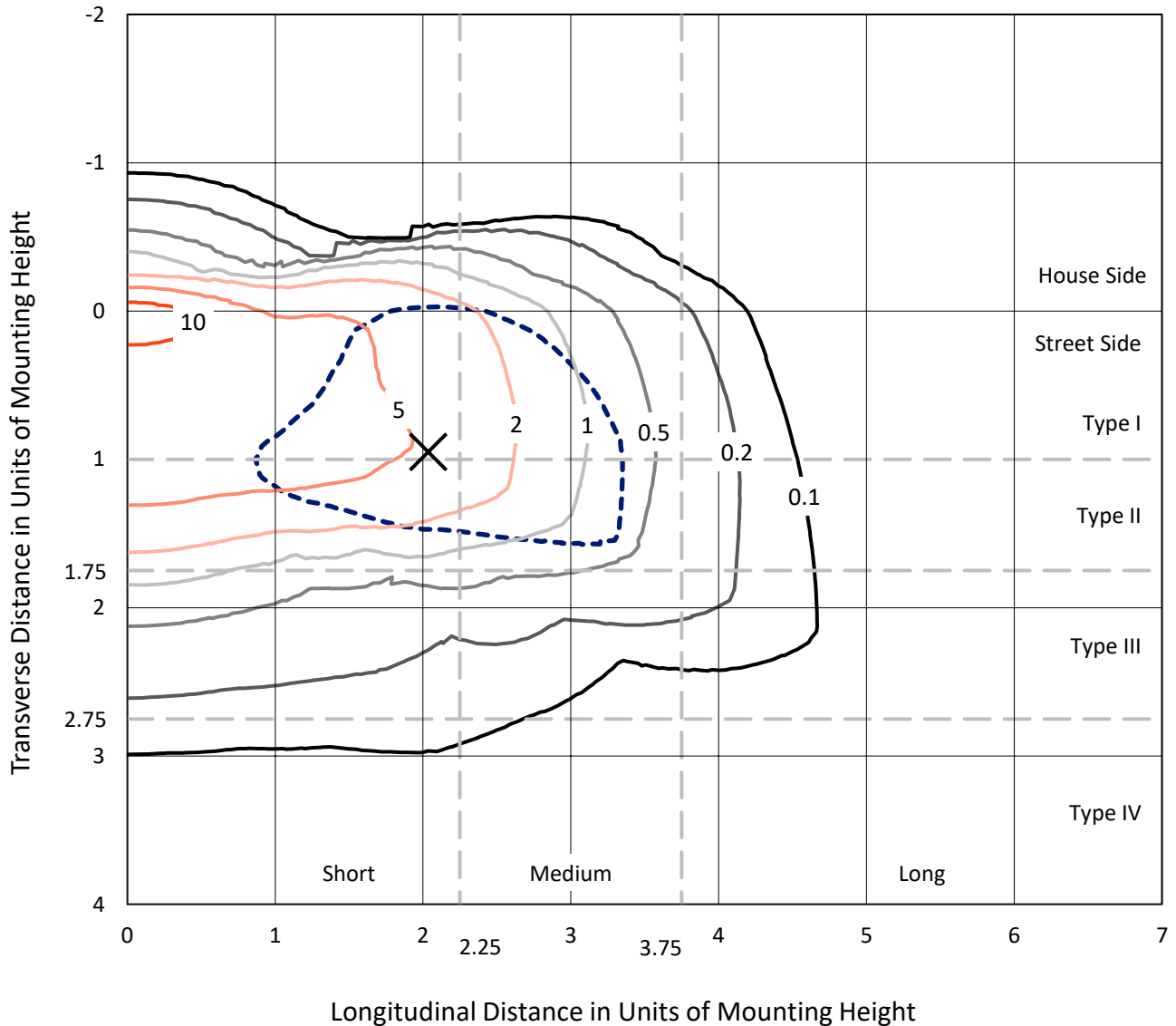
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

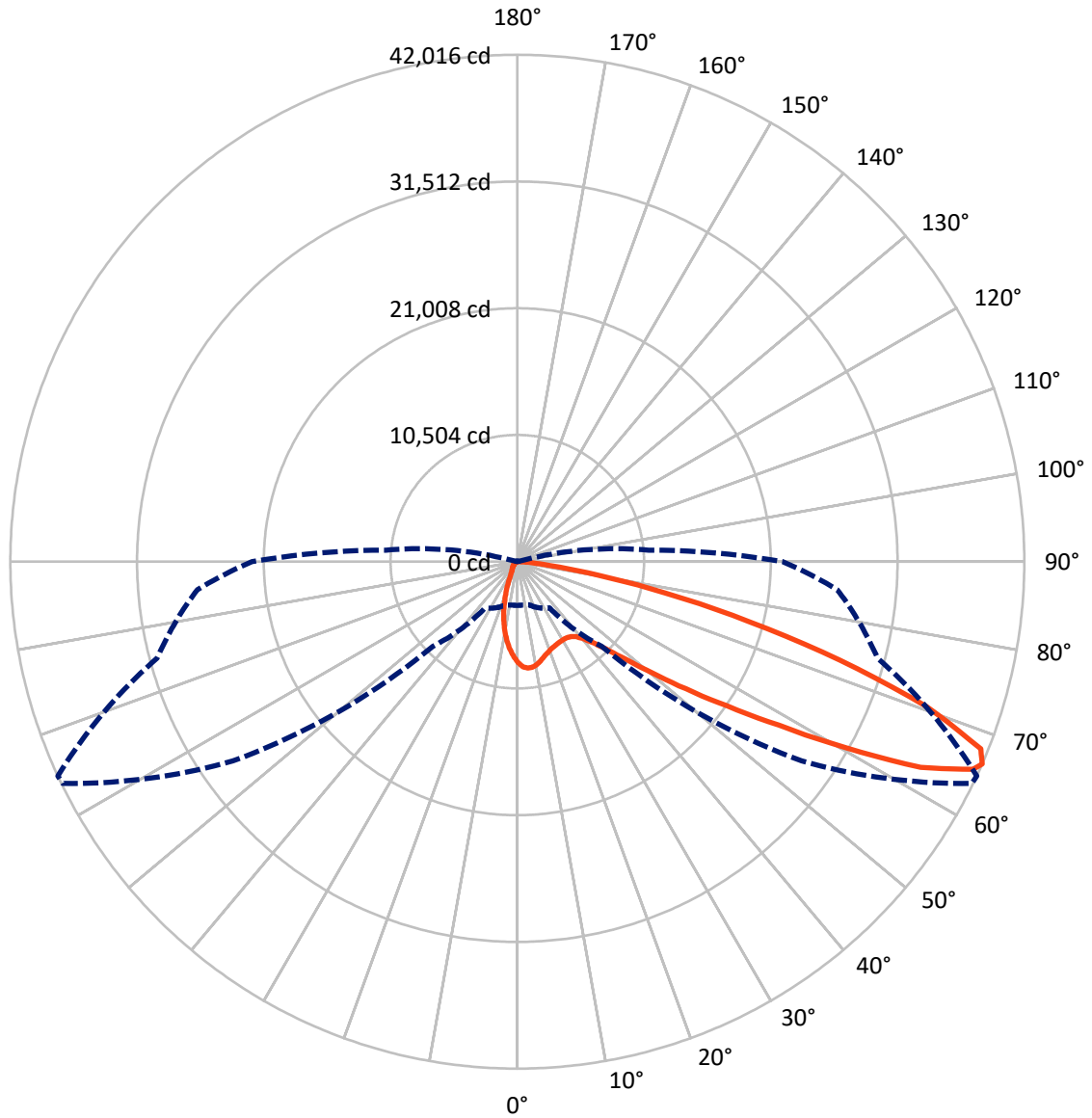
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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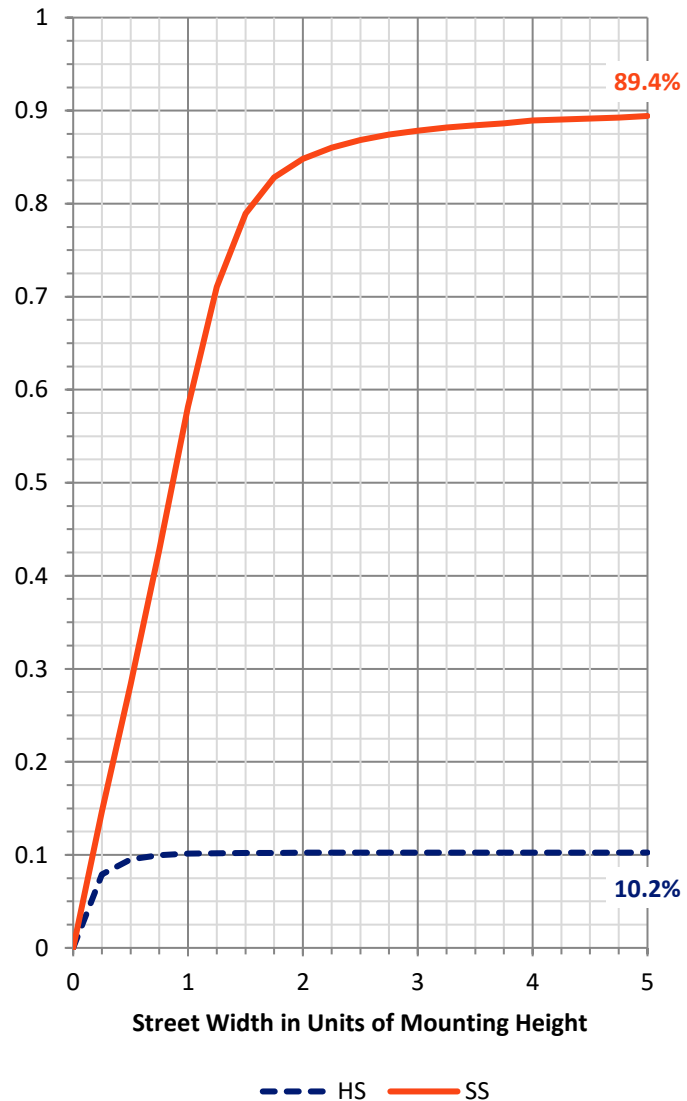
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3651.2	0.0	3651.2
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	31655.8	0.0	31655.8
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	35307.0	0.0	35307.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	684.7	1.9
10°-20°	1492.0	4.2
20°-30°	2137.2	6.1
30°-40°	3121.6	8.8
40°-50°	5234.4	14.8
50°-60°	8735.4	24.7
60°-70°	9272.4	26.3
70°-80°	4199.4	11.9
80°-90°	429.7	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°	35307.0	100.0
0°-180°	35307.0	100.0



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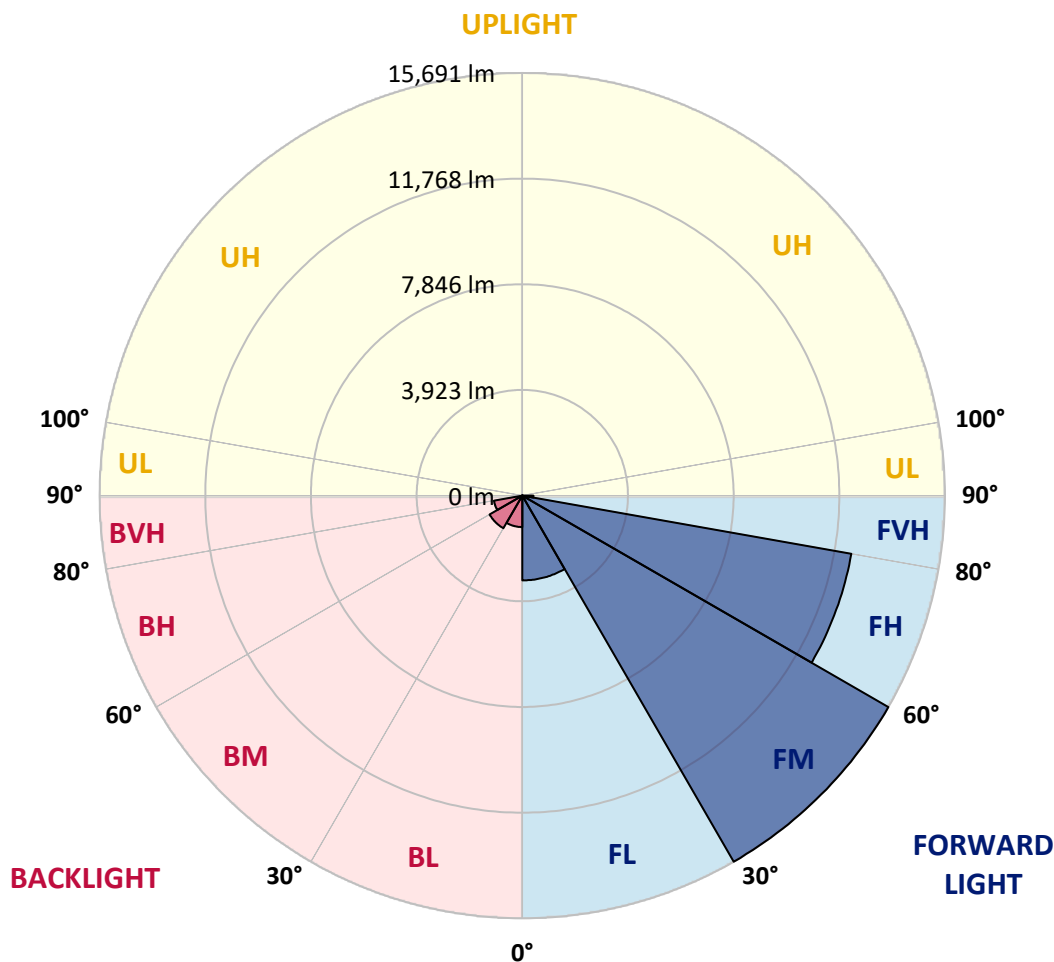
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3146.0	8.9			
FM (30°-60°)	15691.2	44.4			
FH (60°-80°)	12402.5	35.1			G5
FVH (80°-90°)	416.0	1.2			G3/500
BL (0°-30°)	1168.0	3.3	B3/2500		
BM (30°-60°)	1400.3	4.0	B2/2500		
BH (60°-80°)	1069.3	3.0	B3/2500		G3/2500
BVH (80°-90°)	13.7	0.0			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	8372.6	8372.6	8372.6	8372.6	8372.6	8372.6	8372.6	8372.6	8372.6	8372.6	8372.6
2.5°	8823.3	8832.8	8844.8	8861.5	8873.4	8837.6	8787.5	8730.3	8718.4	8596.8	8448.9
5°	8351.1	8365.4	8470.4	8527.6	8656.4	8773.2	8847.1	8856.7	8851.9	8737.4	8501.4
7.5°	7678.7	7719.2	7821.7	7921.9	8162.7	8384.5	8646.8	8830.4	8842.4	8811.4	8518.1
10°	7132.6	7158.8	7211.3	7409.2	7609.5	7948.1	8315.4	8661.1	8689.8	8813.8	8503.7
12.5°	6705.7	6743.9	6808.2	6960.9	7201.7	7521.3	7938.6	8403.6	8463.2	8768.4	8463.2
15°	6407.6	6426.7	6491.1	6641.3	6875.0	7170.7	7592.8	8134.1	8186.6	8708.8	8456.1
17.5°	6266.9	6288.4	6333.7	6452.9	6646.1	6920.3	7332.9	7917.1	7983.9	8670.7	8482.3
20°	6305.1	6324.2	6326.5	6388.5	6519.7	6751.0	7142.1	7714.4	7800.3	8646.8	8525.2
22.5°	6522.1	6524.5	6495.9	6467.2	6512.5	6679.5	7025.3	7585.6	7673.9	8642.1	8575.3
25°	6846.4	6853.6	6805.9	6705.7	6615.1	6700.9	6999.0	7502.2	7580.9	8630.1	8606.3
27.5°	7294.7	7292.3	7278.0	7111.1	6853.6	6796.3	7020.5	7456.9	7523.6	8596.8	8618.2
30°	7921.9	7902.8	7871.8	7683.4	7289.9	7027.6	7111.1	7428.3	7490.3	8549.1	8587.2
32.5°	8539.5	8611.1	8606.3	8427.4	7936.2	7440.2	7299.5	7466.4	7511.7	8518.1	8541.9
35°	9259.7	9257.3	9440.9	9374.2	8799.4	7967.2	7621.4	7592.8	7628.6	8539.5	8520.4
37.5°	9927.4	9989.4	10275.6	10344.7	9820.1	8711.2	8076.9	7864.7	7876.6	8685.0	8572.9
40°	10759.7	10878.9	11305.7	11537.1	11074.4	9815.3	8749.4	8363.1	8365.4	9042.7	8770.8
42.5°	11832.8	12021.1	12419.4	12805.7	12557.7	11122.1	9758.1	9152.4	9147.6	9672.2	9223.9
45°	13137.2	13268.3	13721.4	14334.3	14176.9	12946.4	11227.0	10375.7	10313.7	10704.8	10027.6
47.5°	14262.7	14441.6	14901.8	15600.5	16315.9	15173.7	12982.2	12056.9	12016.4	12347.8	11405.9
50°	14754.0	14911.4	15395.5	16375.6	18109.2	18097.3	15595.8	14510.7	14441.6	14620.4	13537.8
52.5°	14215.0	14362.9	14851.8	16072.7	18953.4	21660.0	19382.6	17589.4	17505.9	17277.0	16084.6
55°	12369.3	12490.9	13213.5	14615.7	18629.1	24035.1	24600.3	21392.9	21068.6	20179.1	18967.7
57.5°	9848.7	9786.7	10235.0	11863.8	16726.1	24831.6	29956.3	26131.3	25551.8	22687.8	21407.2
60°	6824.9	7015.7	7196.9	8270.1	12576.8	23450.9	33287.7	32088.2	31325.1	25155.9	23744.2
62.5°	5017.4	5143.7	5263.0	5759.0	7907.6	18724.5	33876.7	38207.3	37530.0	27776.7	25973.9
65°	3968.1	3977.6	4025.3	4514.2	5210.5	12176.1	31046.1	41657.9	41483.8	30299.7	26877.7
66°	3615.2	3617.6	3691.5	4216.1	4676.3	9915.5	28778.3	41920.2	42015.6	30905.4	26613.0
67.5°	3159.7	3150.2	3257.5	3789.2	4259.0	7149.3	24719.5	40856.6	41421.8	31370.4	25661.5
70°	2449.1	2437.1	2568.3	3178.8	3922.8	4769.3	16430.4	35080.9	35991.9	30418.9	22704.5
72.5°	1631.1	1640.7	1864.8	2508.7	3743.9	4199.4	9884.5	26686.9	27974.6	25120.2	17861.2
75°	951.5	968.2	1223.3	1864.8	3250.3	4003.9	5594.4	19029.7	19852.4	17346.1	11126.9
77.5°	498.4	505.6	684.4	1230.5	2492.0	3717.7	3727.2	12157.1	12543.4	8429.8	4404.5
80°	264.7	257.5	367.2	741.6	1714.6	3264.6	3023.8	6436.2	6691.4	2503.9	1113.6
82.5°	100.2	109.7	195.5	486.5	1013.5	2344.1	2604.1	2844.9	2756.7	550.9	467.4
85°	19.1	23.8	83.5	288.5	510.3	980.1	1919.7	1395.0	1292.5	207.5	269.5
87.5°	2.4	4.8	23.8	69.2	73.9	331.5	567.6	386.3	333.9	76.3	112.1
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°	8372.6	8372.6	8372.6	8372.6	8372.6	8372.6	8372.6	8372.6	8372.6	8372.6	8372.6
2.5°	8377.4	8313.0	8098.4	7886.1	7669.1	7473.6	7340.0	7123.0	7068.2	6989.5	6944.2
5°	8360.7	8210.4	7797.9	7347.2	6927.5	6474.4	6128.6	5794.8	5615.9	5525.3	5491.9
7.5°	8313.0	8074.5	7430.6	6724.8	6052.3	5375.1	4786.0	4337.7	4049.2	3851.2	3717.7
10°	8217.6	7888.5	7003.8	6033.2	5017.4	4123.1	3376.7	2809.1	2370.4	2232.1	2236.8
12.5°	8119.8	7681.0	6526.9	5265.4	4006.3	2878.3	2086.6	1638.3	1428.4	1359.3	1345.0
15°	8029.2	7483.1	6059.5	4521.3	2983.2	1864.8	1345.0	1187.6	1130.3	1118.4	1116.0
17.5°	7981.5	7299.5	5561.1	3670.0	2081.8	1266.3	1077.9	1034.9	1018.3	1006.3	1001.6
20°	7941.0	7139.7	5084.1	2873.5	1423.7	1037.3	965.8	925.3	896.6	884.7	877.6
22.5°	7912.3	6975.2	4590.5	2224.9	1089.8	920.5	856.1	803.6	763.1	748.8	739.2
25°	7869.4	6793.9	4092.1	1626.3	918.1	817.9	744.0	682.0	629.6	603.3	598.6
27.5°	7807.4	6588.9	3546.0	1204.3	820.3	727.3	636.7	560.4	507.9	479.3	481.7
30°	7707.3	6374.2	2999.9	956.3	741.6	634.3	536.6	462.6	412.5	391.1	388.7
32.5°	7588.0	6114.3	2499.1	820.3	670.1	550.9	448.3	383.9	345.8	329.1	326.7
35°	7476.0	5852.0	1988.8	736.9	596.2	474.6	376.8	321.9	293.3	279.0	281.4
37.5°	7414.0	5618.3	1550.0	670.1	536.6	407.8	324.3	276.6	250.4	238.5	236.1
40°	7454.5	5427.5	1232.9	610.5	469.8	350.5	279.0	238.5	212.2	195.5	195.5
42.5°	7645.3	5344.1	994.4	553.2	407.8	302.9	243.2	205.1	176.5	159.8	162.2
45°	8227.1	5432.3	832.3	500.8	350.5	262.3	209.9	169.3	143.1	131.2	128.8
47.5°	9192.9	5763.8	720.2	445.9	300.5	224.2	176.5	140.7	114.5	104.9	102.5
50°	10881.3	6448.2	636.7	391.1	255.2	190.8	145.5	112.1	90.6	81.1	81.1
52.5°	13203.9	7941.0	577.1	329.1	214.6	162.2	119.2	90.6	71.5	64.4	62.0
55°	15631.5	9514.9	546.1	276.6	178.9	133.5	95.4	71.5	54.8	47.7	45.3
57.5°	17966.1	10750.1	510.3	224.2	143.1	102.5	73.9	54.8	38.2	33.4	31.0
60°	20205.3	11749.3	434.0	178.9	112.1	73.9	54.8	38.2	26.2	21.5	21.5
62.5°	22208.5	12331.2	341.0	143.1	85.8	52.5	35.8	28.6	19.1	14.3	14.3
65°	22442.2	11575.2	257.5	109.7	62.0	33.4	21.5	21.5	14.3	9.5	9.5
66°	21972.4	10933.7	226.5	100.2	54.8	28.6	19.1	16.7	11.9	7.2	7.2
67.5°	20923.1	9839.2	195.5	85.8	45.3	21.5	14.3	14.3	9.5	4.8	4.8
70°	18078.2	8036.4	155.0	64.4	33.4	16.7	9.5	9.5	7.2	4.8	4.8
72.5°	13778.6	5999.8	126.4	47.7	23.8	11.9	7.2	7.2	7.2	4.8	4.8
75°	8310.6	3231.2	97.8	35.8	21.5	9.5	4.8	7.2	9.5	7.2	4.8
77.5°	3061.9	1099.3	76.3	28.6	16.7	9.5	4.8	4.8	9.5	7.2	7.2
80°	751.2	286.2	54.8	23.8	16.7	9.5	4.8	4.8	9.5	9.5	9.5
82.5°	348.2	121.6	38.2	21.5	16.7	9.5	4.8	4.8	7.2	9.5	9.5
85°	200.3	57.2	31.0	23.8	16.7	9.5	4.8	4.8	7.2	9.5	9.5
87.5°	81.1	28.6	28.6	23.8	19.1	11.9	4.8	4.8	4.8	7.2	7.2
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)