

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: P458213

Luminaire Tested: **GALN-SA9C-760-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458213  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-760-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51028 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

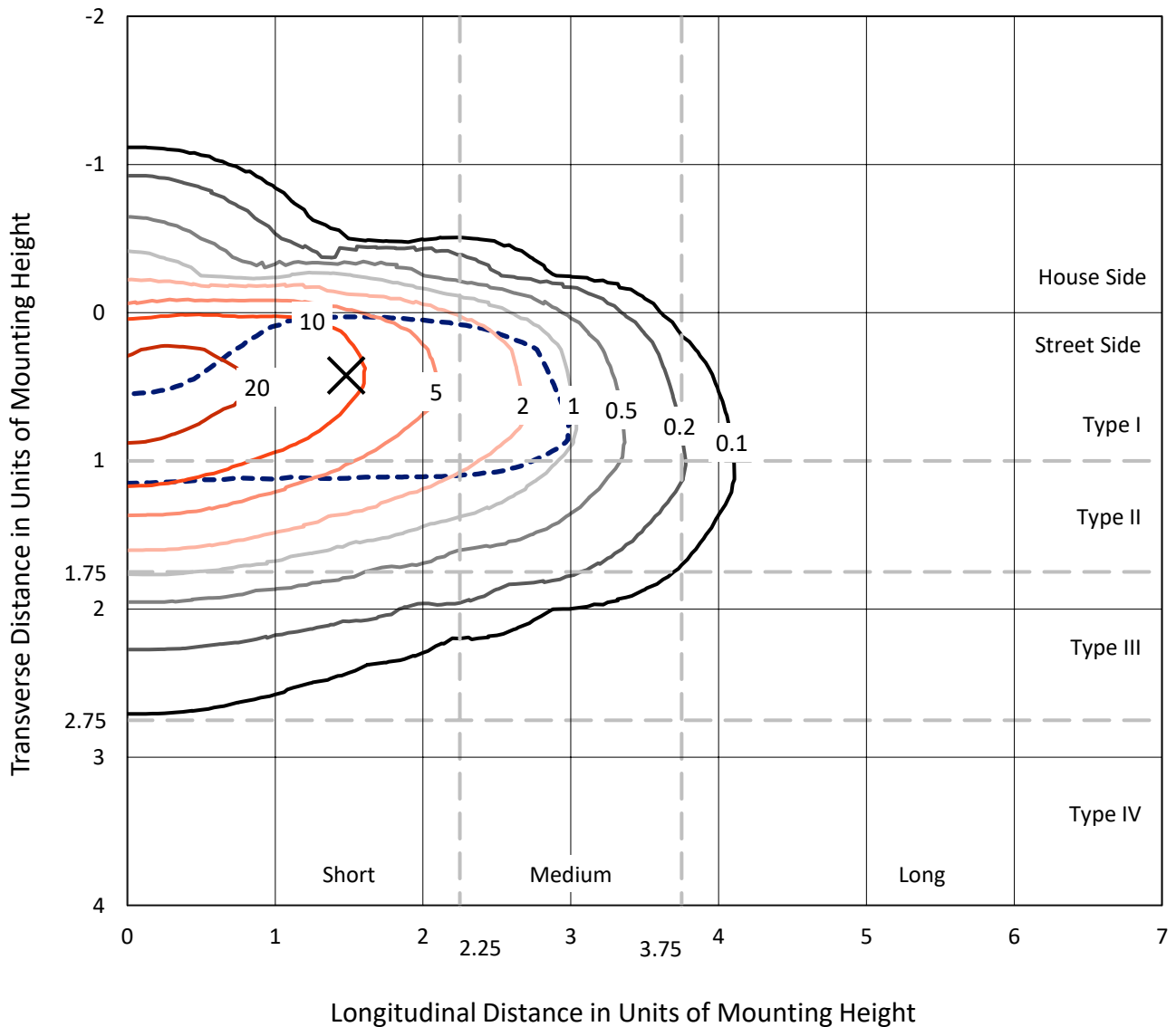
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

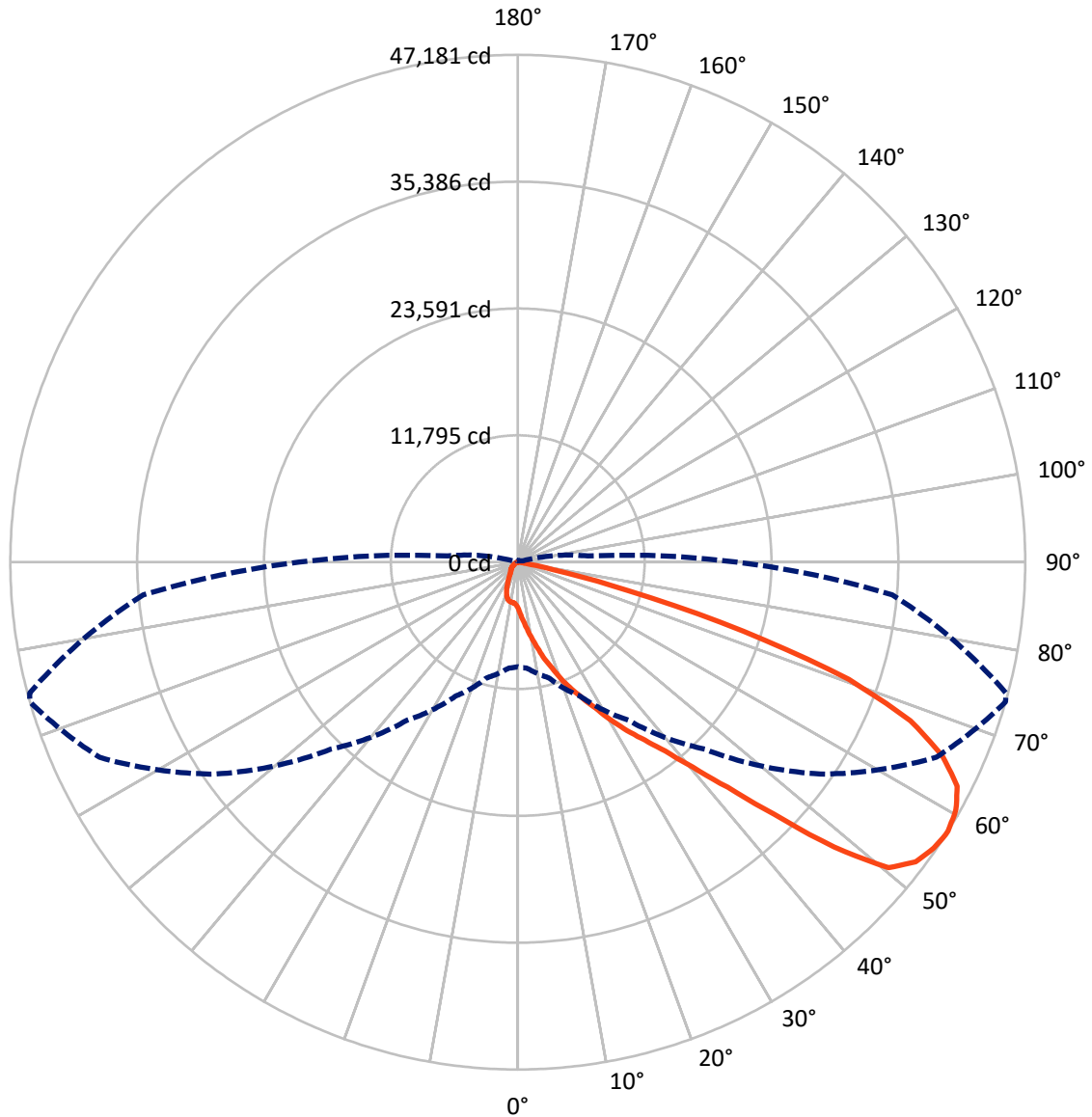
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical



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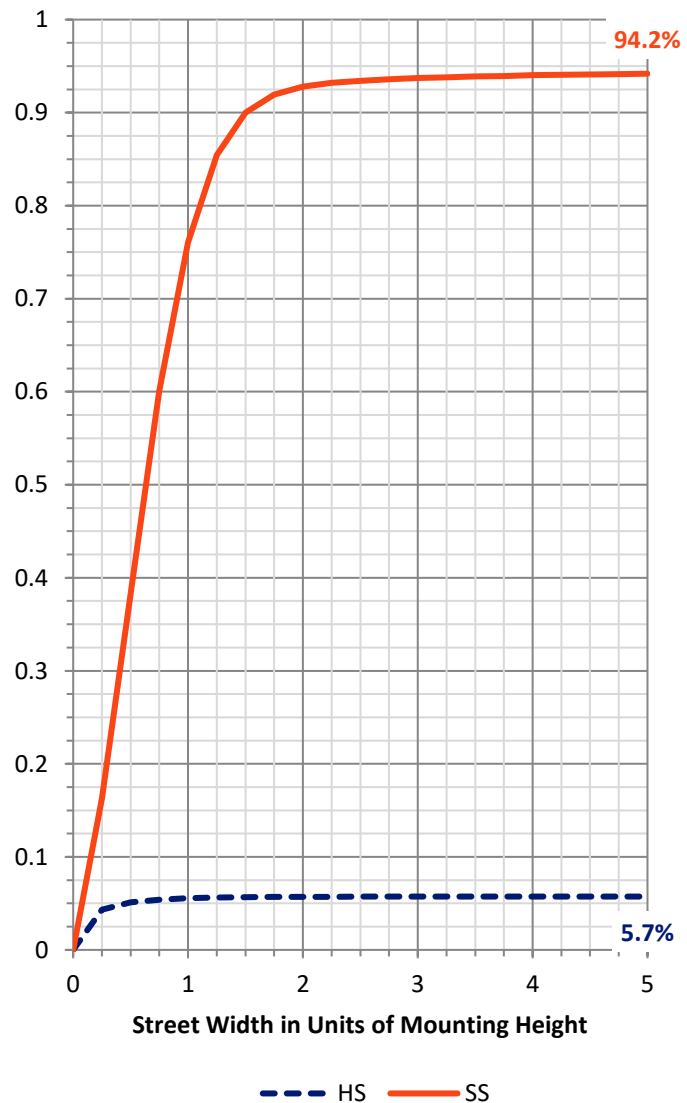
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2943.1	0.0	2943.1
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	48084.9	0.0	48084.9
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	51028.0	0.0	51028.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	515.8	1.0
10°-20°	2033.2	4.0
20°-30°	4350.5	8.5
30°-40°	7996.2	15.7
40°-50°	12258.2	24.0
50°-60°	12967.6	25.4
60°-70°	8468.2	16.6
70°-80°	2313.8	4.5
80°-90°	124.6	0.2
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°	51028.0	100.0
0°-180°	51028.0	100.0



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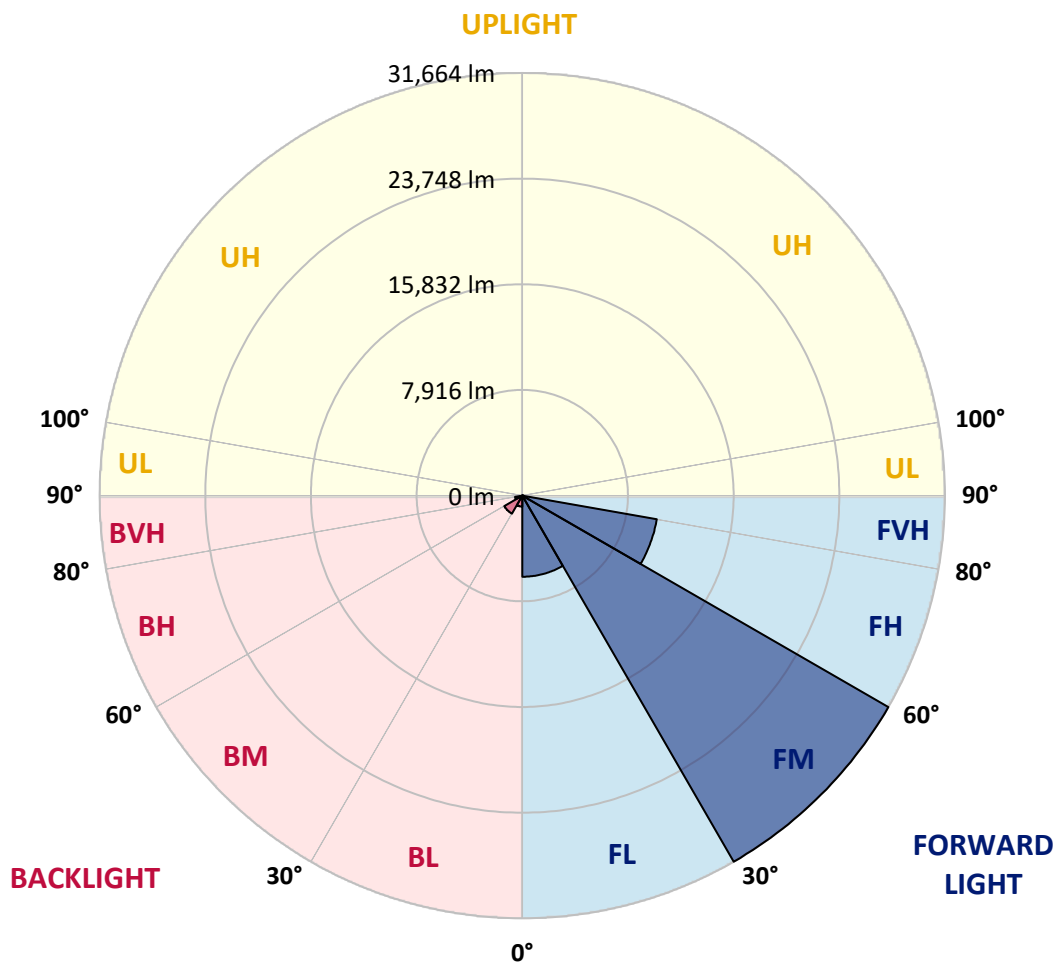
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6077.4	11.9			
FM	(30°-60°)	31663.8	62.1			
FH	(60°-80°)	10229.4	20.0			G4/12000
FVH	(80°-90°)	114.3	0.2			G2/225
BL	(0°-30°)	822.1	1.6	B2/1000		
BM	(30°-60°)	1558.2	3.1	B2/2500		
BH	(60°-80°)	552.5	1.1	B2/1000		G2/1000
BVH	(80°-90°)	10.3	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	4273.5	4273.5	4273.5	4273.5	4273.5	4273.5	4273.5	4273.5	4273.5	4273.5	4273.5
2.5°	6253.5	6197.1	6084.4	6045.7	5880.1	5622.9	5397.4	5094.4	4854.8	4830.2	4541.3
5°	8374.4	8247.6	8194.7	7941.1	7543.0	7169.5	6528.3	6042.1	5482.0	5439.7	4858.4
7.5°	10417.8	10241.7	10188.8	9949.3	9484.2	8895.8	8064.4	7180.1	6292.3	6211.2	5284.7
10°	11897.5	11922.2	11827.1	11668.5	11291.6	10692.6	9667.4	8459.0	7194.2	7092.0	5763.8
12.5°	12958.0	12954.5	12972.1	12968.6	12767.7	12313.3	11235.2	9843.6	8187.7	7986.9	6313.4
15°	13648.5	13659.1	13711.9	13895.1	13916.3	13634.4	12736.0	11168.2	9339.8	9089.6	6908.8
17.5°	14346.1	14420.1	14504.6	14677.3	14832.3	14719.5	14085.4	12549.3	10382.6	10195.9	7546.5
20°	15498.1	15600.3	15551.0	15656.7	15737.7	15748.3	15258.6	13824.7	11647.4	11333.8	8275.8
22.5°	17340.7	17337.2	17210.4	17020.1	16861.6	16854.5	16410.6	15135.3	12795.9	12492.9	9008.6
25°	19669.5	19680.1	19433.5	18890.9	18496.3	18013.6	17502.8	16283.8	14025.5	13652.0	9780.1
27.5°	22340.0	22273.1	21899.6	21152.7	20370.6	19546.2	18809.9	17619.1	15329.0	15019.0	10664.4
30°	24739.3	24714.6	24277.7	23365.2	22336.5	21508.6	20441.1	19292.5	17016.6	16636.1	11654.4
32.5°	26972.9	27008.1	26402.2	25458.0	24464.5	23509.7	22382.3	20892.0	18672.5	18133.4	12732.5
35°	28716.8	28752.1	28125.0	27339.3	26317.6	25524.9	24450.4	22597.2	20307.2	19852.7	13972.6
37.5°	29646.9	29692.7	29329.9	28738.0	28100.3	27702.2	26701.6	24792.1	22294.2	22019.4	15438.3
40°	29823.1	29875.9	29717.4	29558.9	29523.6	29809.0	29516.6	27378.1	25049.3	24619.5	17622.6
42.5°	29294.6	29365.1	29435.6	29787.9	30506.6	31552.9	32571.1	30887.1	28597.1	28019.3	20293.1
45°	27906.5	27899.5	28177.8	29090.3	30700.4	32934.0	35763.1	35280.4	33430.8	32743.8	24066.3
47.5°	25532.0	25496.7	26099.2	27399.2	29907.7	33187.7	38366.6	40614.4	39599.7	38965.6	28121.4
50°	21913.7	22086.4	23034.1	24848.5	27938.2	32419.6	39169.9	44112.8	44662.4	43989.5	31397.9
52.5°	17675.4	17668.4	19155.1	21617.8	25021.1	30728.5	38609.7	44747.0	46307.7	45793.3	33011.5
55°	13081.3	13172.9	14719.5	17203.3	21233.8	27642.3	36781.2	44095.2	46934.8	46571.9	34075.5
57°	9730.8	9892.9	11133.0	13761.3	17936.1	24587.8	34346.8	42929.1	47181.4	46984.2	34959.8
57.5°	9082.6	9089.6	10298.0	12686.7	16970.8	23414.6	33649.2	42442.9	47174.4	47065.2	35104.2
60°	5591.2	5767.3	6602.3	8575.2	12422.5	18274.4	28974.0	39649.0	46808.0	46966.5	35720.8
62.5°	3347.0	3420.9	3963.5	5168.4	8008.0	13338.5	23710.5	36073.1	45853.2	46335.9	35678.5
65°	2152.6	2170.2	2416.9	3128.5	5006.3	9015.6	18270.8	31348.6	43383.5	44271.4	34283.4
67.5°	1662.9	1691.1	1789.7	2054.0	2903.0	5615.8	12922.8	26307.0	39388.3	40533.3	30901.2
70°	1476.2	1490.3	1525.5	1610.1	1920.1	3170.8	8039.7	20550.3	32662.7	32986.8	24182.6
72.5°	1204.9	1243.7	1352.9	1381.1	1522.0	1980.0	4474.3	13793.0	21945.4	22026.5	13528.7
75°	933.6	940.7	1102.7	1183.8	1282.4	1363.4	1997.6	6954.6	10541.1	9977.4	5214.2
77.5°	697.6	729.3	803.3	905.4	1046.4	975.9	894.9	2621.2	3273.0	3213.1	1514.9
80°	447.4	465.1	560.2	680.0	813.8	637.7	503.8	768.0	718.7	739.9	362.9
82.5°	225.5	229.0	359.4	553.1	517.9	320.6	317.1	313.6	267.8	264.2	169.1
85°	24.7	52.8	232.5	317.1	232.5	105.7	148.0	144.4	140.9	144.4	98.6
87.5°	3.5	3.5	38.8	45.8	31.7	35.2	42.3	45.8	56.4	52.8	42.3
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°	4273.5	4273.5	4273.5	4273.5	4273.5	4273.5	4273.5	4273.5	4273.5	4273.5	4273.5
2.5°	4400.4	4259.4	3998.7	3748.6	3561.9	3442.1	3287.1	3230.7	3149.7	3139.1	3100.3
5°	4590.6	4322.9	3868.4	3509.0	3220.1	3001.7	2811.4	2652.9	2526.1	2497.9	2512.0
7.5°	4861.9	4463.8	3829.6	3339.9	2938.3	2564.8	2261.8	2075.1	1941.2	1891.9	1899.0
10°	5168.4	4650.5	3822.6	3160.2	2547.2	2089.2	1758.0	1592.4	1514.9	1486.8	1455.0
12.5°	5531.3	4865.4	3805.0	2881.9	2117.4	1666.4	1430.4	1331.7	1257.7	1236.6	1236.6
15°	5940.0	5094.4	3720.4	2536.6	1719.3	1377.5	1219.0	1141.5	1116.8	1095.7	1095.7
17.5°	6366.3	5319.9	3544.2	2110.3	1426.9	1180.2	1081.6	1035.8	1000.6	975.9	975.9
20°	6852.4	5541.8	3262.4	1733.4	1204.9	1053.4	975.9	923.1	894.9	873.7	866.7
22.5°	7314.0	5721.5	2903.0	1423.3	1049.9	947.7	877.3	820.9	792.7	782.1	782.1
25°	7793.1	5830.7	2469.7	1176.7	958.3	859.6	782.1	736.3	711.7	704.6	701.1
27.5°	8258.2	5894.2	2089.2	1028.7	873.7	778.6	704.6	669.4	644.7	637.7	641.2
30°	8821.9	5904.7	1719.3	923.1	799.7	701.1	634.2	602.5	588.4	581.3	577.8
32.5°	9392.6	5890.6	1444.5	859.6	729.3	634.2	577.8	553.1	542.6	532.0	532.0
35°	10033.8	5816.6	1229.6	796.2	662.3	577.8	528.5	507.3	493.2	482.7	479.1
37.5°	10830.0	5777.9	1106.3	725.8	602.5	524.9	479.1	458.0	447.4	433.3	429.8
40°	12084.3	5950.5	1067.5	662.3	542.6	475.6	433.3	408.7	394.6	380.5	377.0
42.5°	13648.5	6253.5	1004.1	598.9	489.7	429.8	387.5	359.4	334.7	317.1	310.0
45°	15674.3	6651.6	905.4	532.0	443.9	380.5	341.7	306.5	274.8	260.7	257.2
47.5°	17798.7	7035.6	817.4	479.1	394.6	338.2	295.9	257.2	229.0	218.4	214.9
50°	19102.3	7113.2	761.0	419.2	345.3	292.4	250.1	214.9	197.3	186.7	186.7
52.5°	19697.7	6989.8	683.5	366.4	299.5	257.2	214.9	186.7	176.2	169.1	165.6
55°	20113.4	6799.6	581.3	317.1	257.2	218.4	190.2	169.1	155.0	148.0	144.4
57°	20356.5	6542.4	503.8	278.3	222.0	190.2	169.1	151.5	137.4	123.3	123.3
57.5°	20367.1	6443.8	482.7	274.8	211.4	183.2	165.6	148.0	130.4	116.3	112.7
60°	20053.5	5767.3	387.5	232.5	169.1	155.0	137.4	116.3	91.6	77.5	74.0
62.5°	19045.9	4907.7	320.6	197.3	137.4	119.8	98.6	88.1	63.4	45.8	45.8
65°	17520.4	3981.1	274.8	158.5	112.7	88.1	66.9	63.4	38.8	21.1	17.6
67.5°	15314.9	3100.3	232.5	130.4	95.1	63.4	45.8	42.3	21.1	7.0	0.0
70°	11668.5	2113.9	193.8	105.7	70.5	45.8	31.7	24.7	14.1	3.5	0.0
72.5°	6725.6	1162.6	162.1	81.0	52.8	35.2	24.7	14.1	14.1	0.0	0.0
75°	2402.8	500.3	123.3	59.9	42.3	28.2	17.6	7.0	10.6	3.5	0.0
77.5°	764.5	267.8	81.0	45.8	35.2	21.1	14.1	7.0	7.0	3.5	0.0
80°	225.5	140.9	49.3	38.8	24.7	17.6	10.6	3.5	7.0	3.5	0.0
82.5°	123.3	70.5	38.8	28.2	24.7	14.1	10.6	3.5	3.5	3.5	0.0
85°	63.4	42.3	31.7	28.2	24.7	14.1	10.6	3.5	0.0	3.5	3.5
87.5°	35.2	31.7	31.7	28.2	24.7	17.6	10.6	3.5	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)