

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: P193766

Luminaire Tested: **GLEON-AF-08-LED-E1-SL4-8030-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193766  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-08-LED-E1-SL4-8030-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34659 lumens  
Efficiency: N/A  
Efficacy: 67.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G5

Input Watts (W): 511  
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: 25 FT

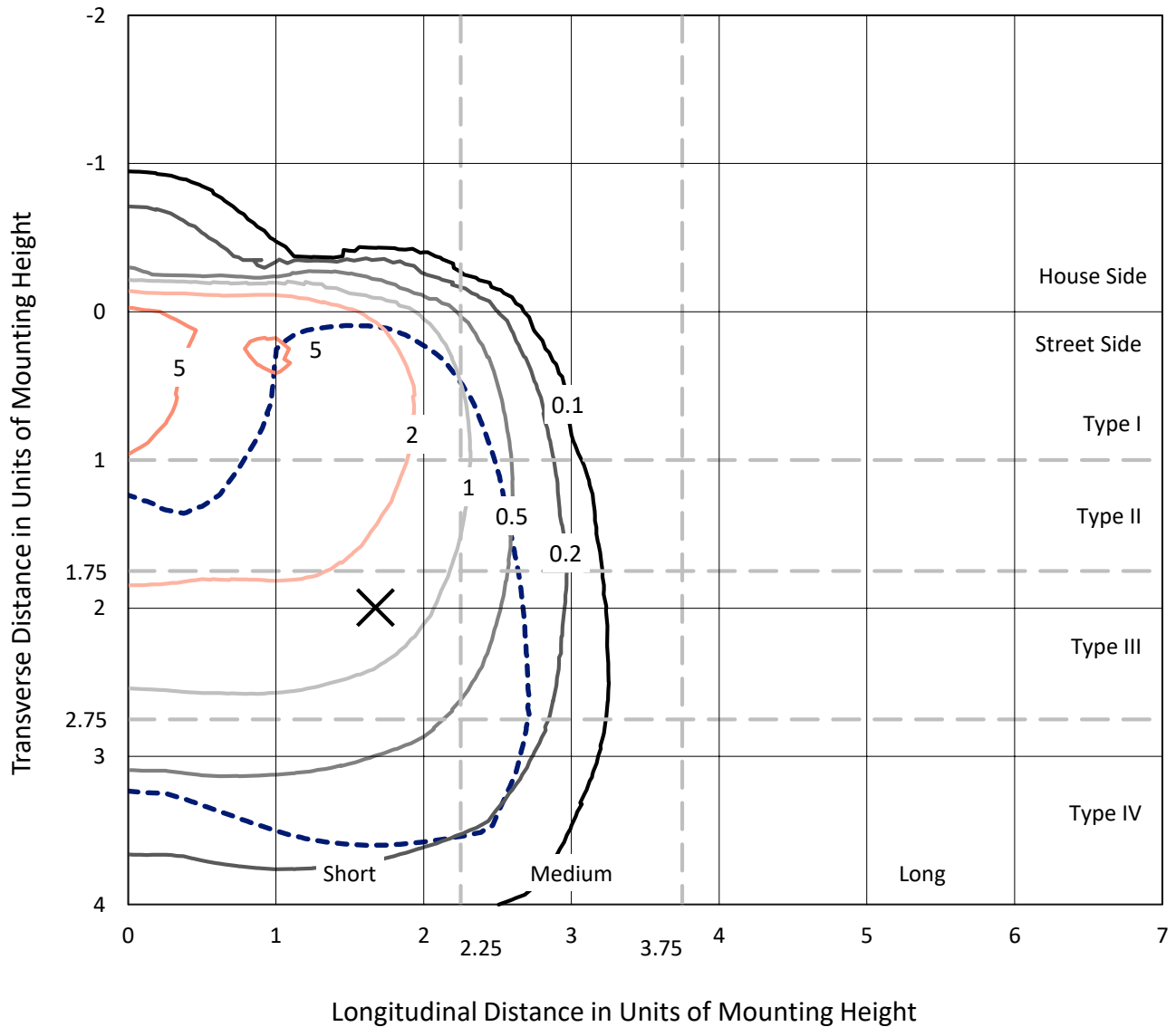


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

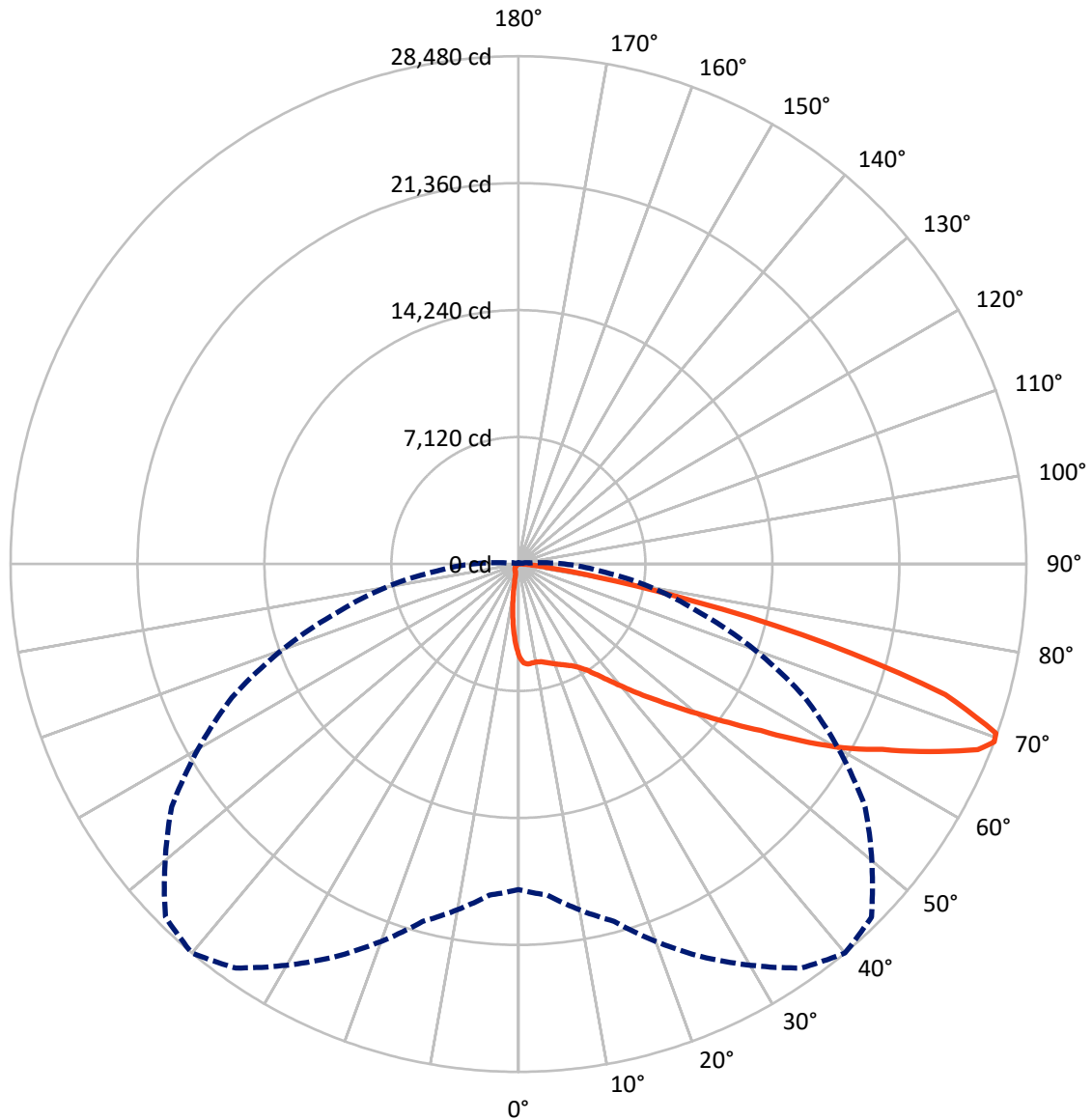


Based on 30 foot mounting height. Maximum calculated value = 6.3 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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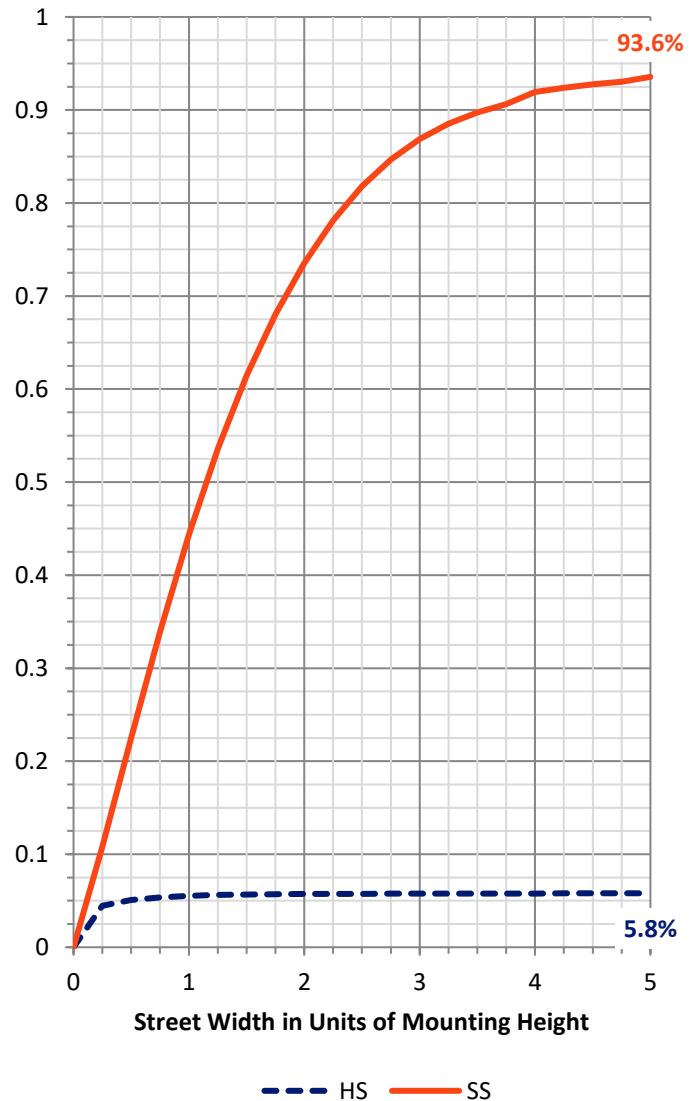
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2027.7	0.0	2027.7
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	32631.3	0.0	32631.3
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	34659.0	0.0	34659.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	419.8	1.2
10°-20°	1032.5	3.0
20°-30°	1739.1	5.0
30°-40°	2846.9	8.2
40°-50°	4929.4	14.2
50°-60°	7764.2	22.4
60°-70°	10139.8	29.3
70°-80°	5222.4	15.1
80°-90°	564.9	1.6
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°	34659.0	100.0
0°-180°	34659.0	100.0



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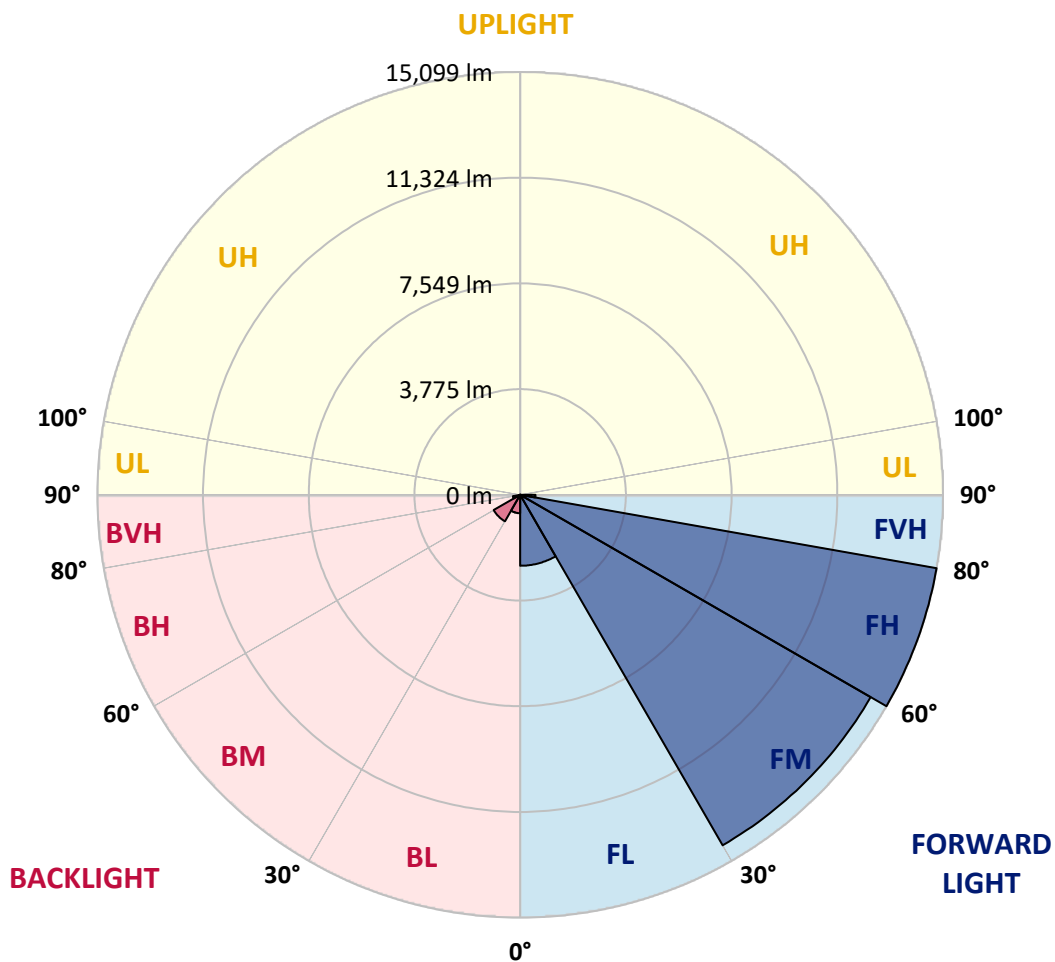
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2534.6	7.3			
FM	(30°-60°)	14450.6	41.7			
FH	(60°-80°)	15098.9	43.6			G5
FVH	(80°-90°)	547.2	1.6			G4/750
BL	(0°-30°)	656.8	1.9	B2/1000		
BM	(30°-60°)	1089.9	3.1	B2/2500		
BH	(60°-80°)	263.3	0.8	B1/500		G1/500
BVH	(80°-90°)	17.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5178.2	5178.2	5178.2	5178.2	5178.2	5178.2	5178.2	5178.2	5178.2	5178.2	5178.2
2.5°	5685.7	5654.8	5636.2	5611.5	5580.5	5553.7	5543.4	5467.1	5394.9	5295.8	5182.4
5°	5791.0	5780.6	5747.6	5714.6	5677.5	5636.2	5613.5	5522.8	5419.6	5275.2	5077.1
7.5°	5801.3	5788.9	5747.6	5702.2	5650.7	5601.2	5562.0	5471.2	5376.3	5229.8	4988.4
10°	5784.8	5770.3	5739.4	5689.9	5625.9	5578.5	5539.3	5452.6	5372.2	5240.1	4971.9
12.5°	5766.2	5751.8	5737.3	5712.6	5656.9	5623.8	5590.8	5508.3	5436.1	5324.7	5031.8
15°	5784.8	5776.5	5793.0	5782.7	5751.8	5722.9	5689.9	5615.6	5549.6	5456.7	5141.1
17.5°	5863.2	5863.2	5914.7	5920.9	5892.0	5850.8	5803.3	5729.1	5673.4	5595.0	5271.1
20°	6046.8	6040.6	6106.6	6119.0	6048.8	5984.9	5914.7	5824.0	5780.6	5731.1	5399.0
22.5°	6362.4	6333.5	6372.7	6360.4	6222.1	6123.1	6036.5	5925.1	5902.4	5879.7	5541.3
25°	6773.0	6756.5	6783.3	6661.6	6418.1	6284.0	6180.9	6055.0	6055.0	6077.7	5702.2
27.5°	7369.2	7307.3	7216.5	7002.0	6636.8	6465.6	6354.2	6220.1	6255.1	6339.7	5914.7
30°	7979.8	7911.8	7703.4	7373.3	6902.9	6723.5	6593.5	6453.2	6535.7	6690.4	6199.4
32.5°	8582.3	8505.9	8210.9	7794.2	7284.6	7105.1	6979.3	6824.5	6962.8	7222.7	6616.2
35°	9166.1	9098.0	8757.6	8266.6	7792.1	7643.6	7528.0	7393.9	7571.4	7934.5	7204.1
37.5°	9822.1	9747.9	9333.2	8800.9	8409.0	8301.7	8217.1	8083.0	8392.5	8924.7	8023.2
40°	10628.8	10502.9	9943.9	9413.7	9122.8	9071.2	9013.4	8994.9	9475.5	10212.1	9114.5
42.5°	11553.0	11346.7	10583.4	10059.4	9906.7	9943.9	9929.4	10011.9	10831.0	11813.0	10443.1
45°	12477.3	12211.1	11295.1	10748.4	10769.1	10899.0	10979.5	11309.6	12528.8	13649.1	11872.8
47.5°	13261.2	12999.2	11978.0	11493.2	11740.8	11996.6	12215.3	12840.4	14274.2	15456.3	12984.8
50°	13931.7	13684.2	12702.1	12312.2	12869.2	13281.9	13636.7	14563.0	16151.5	16832.4	13764.6
52.5°	14480.5	14315.4	13453.1	13250.9	14158.7	14763.1	15283.0	16392.9	17814.4	17950.5	14371.1
55°	15014.8	14897.2	14259.7	14367.0	15672.9	16496.1	17154.2	18334.2	19246.1	18883.0	14952.9
57.5°	15629.6	15522.3	15179.9	15782.3	17663.8	18699.4	19417.3	20054.8	20506.6	19836.1	15501.7
60°	16256.8	16194.9	16203.1	17354.3	19949.6	20944.0	21340.1	21505.1	21744.5	20733.6	15532.6
62.5°	16855.0	16972.6	17372.9	19103.8	22138.5	22901.8	23101.9	23264.9	22984.3	20875.9	14350.5
65°	17868.0	18059.9	19015.0	21445.3	24546.1	25363.0	25569.3	25010.2	23180.3	19035.7	11672.7
67.5°	18363.1	18713.8	20417.9	23628.0	26881.4	27789.2	27712.8	25123.7	20801.6	14515.6	7490.9
69°	18260.0	18633.4	20741.8	24296.4	27657.1	28480.3	27995.5	23735.3	17721.5	10515.3	4598.5
70°	17851.5	18229.0	20574.7	24271.7	27756.2	28408.1	27471.5	22020.9	14983.9	7689.0	2875.9
72.5°	14907.5	15233.5	18266.2	21938.4	25569.3	25039.1	22982.3	15256.2	7301.1	2094.0	647.8
75°	9176.4	9358.0	13106.5	16527.0	19312.1	17950.5	15311.9	7589.9	2176.5	592.1	359.0
77.5°	4848.1	4930.7	7175.3	9741.7	12242.1	10129.5	7847.8	2960.5	1002.6	371.3	259.9
80°	2865.6	2927.5	3864.1	4454.1	5297.9	4425.2	3137.9	1817.5	717.9	233.1	231.1
82.5°	1640.1	1679.3	2801.6	2475.6	2087.8	1782.5	1561.7	1722.6	431.2	156.8	239.3
85°	602.4	610.7	1576.2	1883.6	1242.0	738.6	775.7	1427.6	115.5	99.0	187.7
87.5°	280.6	274.4	810.8	1153.2	726.2	468.3	604.5	313.6	45.4	64.0	51.6
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°	5178.2	5178.2	5178.2	5178.2	5178.2	5178.2	5178.2	5178.2	5178.2	5178.2	5178.2
2.5°	5116.3	5040.0	4901.8	4759.4	4615.0	4503.6	4394.3	4307.6	4278.7	4225.1	4229.2
5°	4959.6	4819.3	4530.4	4237.5	3932.2	3680.5	3443.2	3251.4	3158.5	3063.6	3063.6
7.5°	4823.4	4619.1	4167.3	3690.8	3197.7	2783.0	2409.6	2129.1	1974.3	1850.5	1848.5
10°	4771.8	4495.4	3864.1	3181.2	2494.2	1928.9	1485.4	1200.7	1054.2	959.3	955.2
12.5°	4794.5	4452.0	3631.0	2710.8	1848.5	1239.9	860.3	676.7	614.8	585.9	585.9
15°	4860.5	4439.7	3397.8	2250.8	1305.9	775.7	571.5	521.9	517.8	517.8	517.8
17.5°	4941.0	4443.8	3158.5	1803.1	889.2	555.0	493.1	486.9	491.0	491.0	491.0
20°	5023.5	4445.9	2900.6	1388.4	627.2	482.8	464.2	462.1	466.2	466.2	468.3
22.5°	5124.6	4456.2	2642.8	1037.7	517.8	455.9	441.5	441.5	443.6	443.6	441.5
25°	5240.1	4476.8	2374.6	769.5	472.4	437.4	425.0	422.9	425.0	422.9	420.9
27.5°	5384.5	4505.7	2075.4	602.4	451.8	418.8	408.5	408.5	406.4	404.4	402.3
30°	5566.1	4538.7	1739.1	511.6	431.2	402.3	392.0	389.9	387.9	383.7	383.7
32.5°	5842.5	4610.9	1407.0	464.2	408.5	379.6	371.3	371.3	367.2	363.1	361.0
35°	6267.5	4753.2	1109.9	435.3	383.7	354.8	344.5	344.5	340.4	338.3	336.3
37.5°	6855.5	4969.9	862.4	408.5	359.0	328.0	317.7	315.6	311.5	307.4	305.3
40°	7637.4	5238.1	678.7	383.7	334.2	301.2	293.0	288.8	280.6	274.4	274.4
42.5°	8619.4	5543.4	550.8	356.9	305.3	276.4	270.3	264.1	249.6	243.4	241.4
45°	9646.8	5817.8	466.2	326.0	276.4	251.7	247.6	237.2	218.7	212.5	212.5
47.5°	10387.4	5881.7	410.5	297.1	249.6	224.9	222.8	204.2	187.7	183.6	181.5
50°	10849.5	5755.9	365.2	268.2	224.9	200.1	193.9	171.2	160.9	156.8	154.7
52.5°	11161.1	5531.0	328.0	243.4	202.2	177.4	163.0	146.5	138.2	134.1	134.1
55°	11410.7	5213.3	290.9	220.7	183.6	158.9	138.2	125.8	117.6	113.5	113.5
57.5°	11480.8	4782.1	253.8	202.2	165.0	140.3	117.6	109.3	99.0	97.0	97.0
60°	10971.3	4004.4	224.9	179.5	148.5	121.7	103.2	92.8	82.5	80.5	78.4
62.5°	9628.2	3098.7	198.1	158.9	130.0	105.2	88.7	76.3	68.1	68.1	68.1
65°	7344.4	2077.5	173.3	138.2	113.5	88.7	76.3	61.9	57.8	57.8	59.8
67.5°	4396.3	1130.5	148.5	117.6	97.0	74.3	64.0	53.6	51.6	53.6	53.6
69°	2576.7	664.3	134.1	105.2	84.6	66.0	55.7	47.4	51.6	53.6	53.6
70°	1590.6	447.7	123.8	94.9	76.3	59.8	51.6	45.4	49.5	51.6	51.6
72.5°	443.6	231.1	99.0	74.3	61.9	49.5	41.3	41.3	47.4	49.5	49.5
75°	288.8	171.2	76.3	55.7	47.4	39.2	35.1	39.2	45.4	47.4	47.4
77.5°	239.3	140.3	61.9	45.4	39.2	37.1	33.0	35.1	41.3	43.3	43.3
80°	218.7	99.0	49.5	41.3	35.1	33.0	30.9	28.9	37.1	39.2	39.2
82.5°	208.4	78.4	43.3	37.1	33.0	28.9	26.8	28.9	33.0	35.1	37.1
85°	130.0	51.6	39.2	35.1	28.9	26.8	26.8	26.8	30.9	33.0	33.0
87.5°	47.4	41.3	35.1	28.9	24.8	24.8	24.8	24.8	26.8	30.9	30.9
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)