

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: P191146

Luminaire Tested: **GLEON-AF-08-LED-E1-SL3-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191146  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)  
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-SL3-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1200mA 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: 45734.1 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

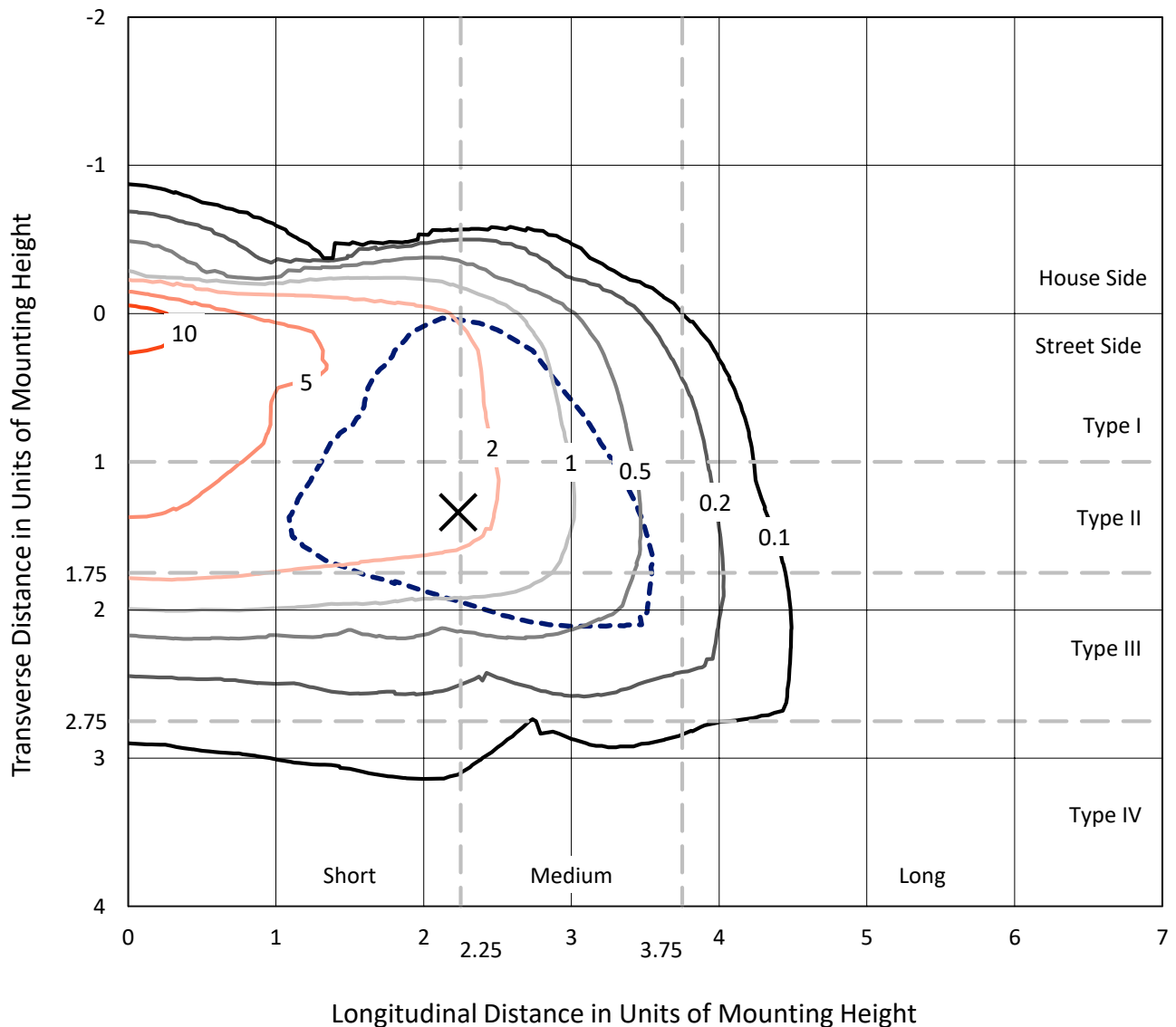
Input Watts (W): 511  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

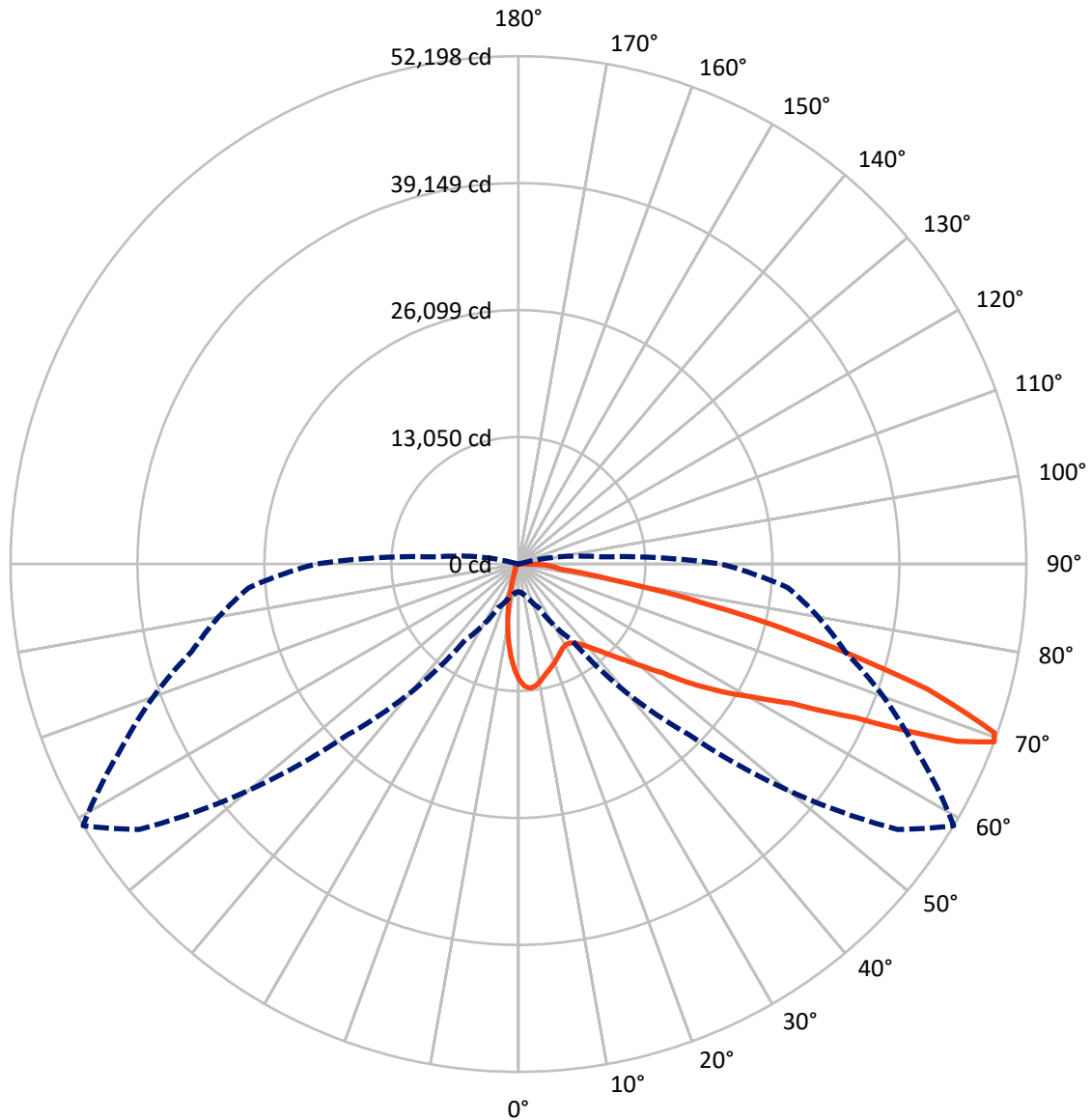
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.3 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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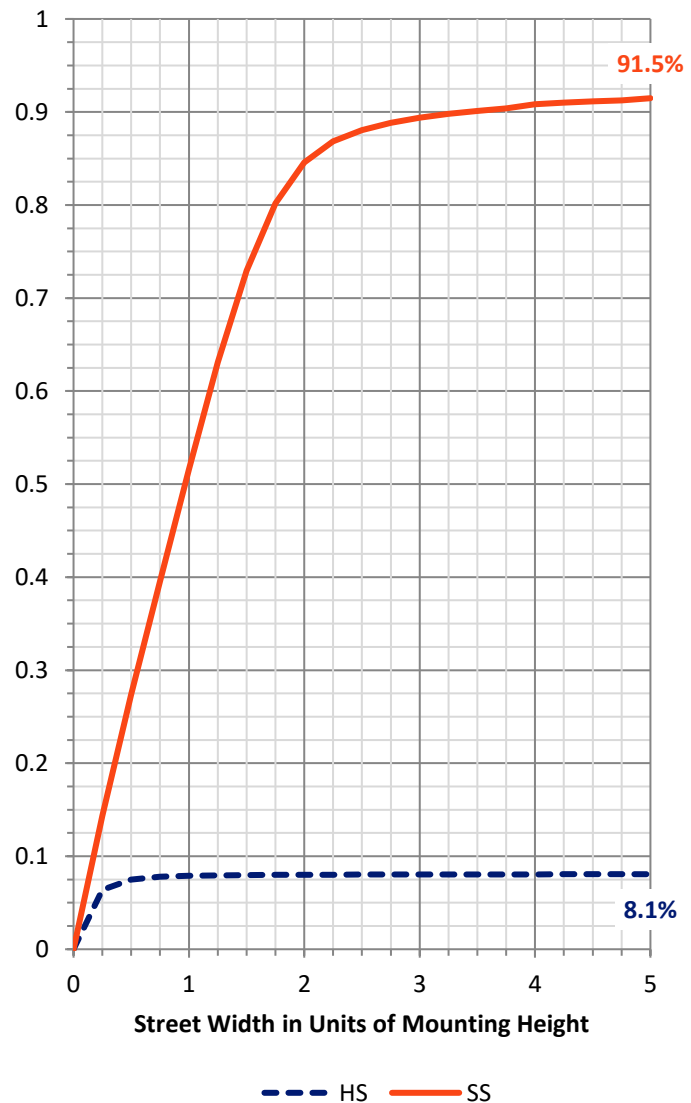
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3724.4	0.0	3724.4
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	42009.6	0.0	42009.6
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	45734.1	0.0	45734.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	966.3	2.1
10°-20°	1996.5	4.4
20°-30°	2686.6	5.9
30°-40°	3900.8	8.5
40°-50°	6495.1	14.2
50°-60°	10132.2	22.2
60°-70°	12537.8	27.4
70°-80°	6354.0	13.9
80°-90°	664.9	1.5
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°	45734.1	100.0
0°-180°	45734.1	100.0

**Coefficient of Utilization**



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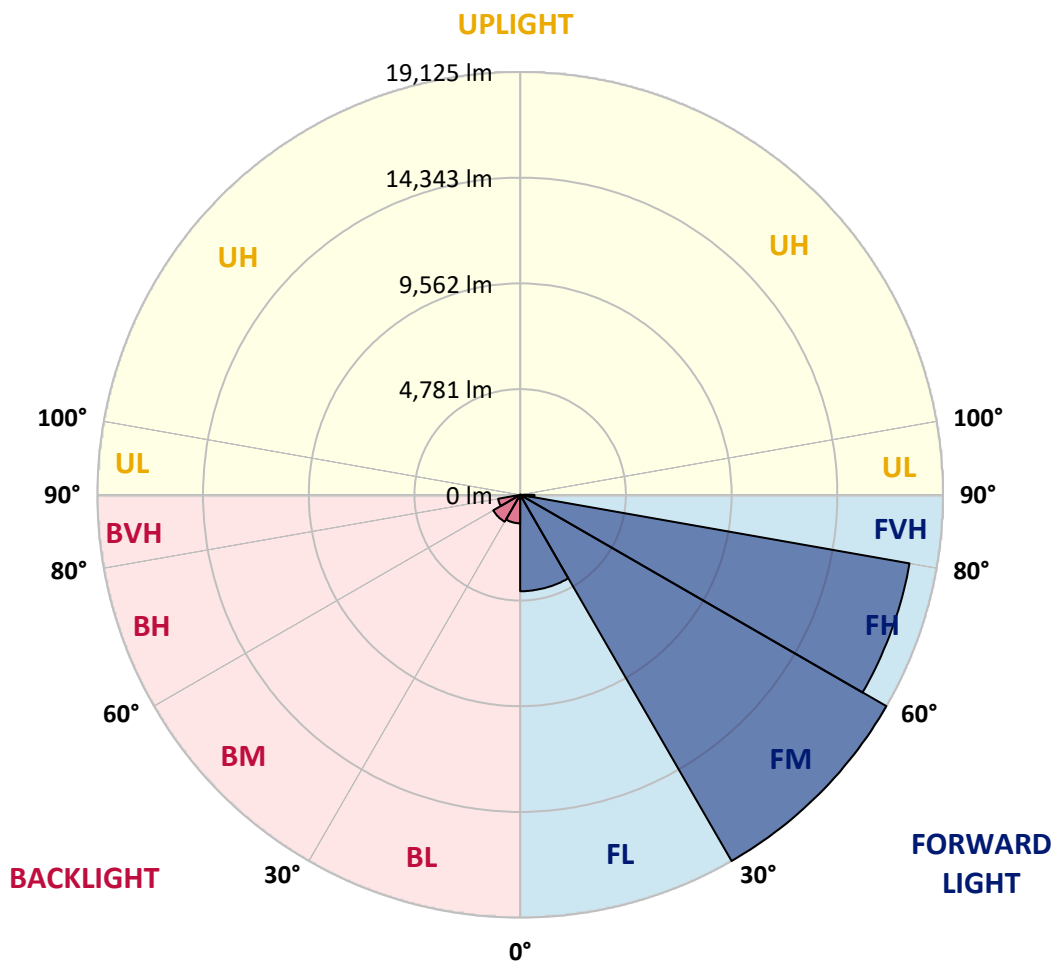
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4360.2	9.5			
FM	(30°-60°)	19124.7	41.8			
FH	(60°-80°)	17880.4	39.1			G5
FVH	(80°-90°)	644.4	1.4			G4/750
BL	(0°-30°)	1289.1	2.8	B3/2500		
BM	(30°-60°)	1403.4	3.1	B2/2500		
BH	(60°-80°)	1011.5	2.2	B3/2500		G3/2500
BVH	(80°-90°)	20.5	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	11904.0	11904.0	11904.0	11904.0	11904.0	11904.0	11904.0	11904.0	11904.0	11904.0	11904.0
2.5°	13047.0	13041.8	12984.9	12959.0	12912.5	12814.3	12661.7	12581.5	12452.2	12227.2	11924.6
5°	12928.1	12990.1	13023.7	13026.4	13059.9	13023.7	12886.7	12819.4	12641.0	12278.9	11735.8
7.5°	12121.1	12144.5	12240.1	12322.9	12483.3	12635.8	12685.0	12656.6	12550.5	12162.6	11441.0
10°	11257.4	11280.7	11394.4	11503.1	11720.4	11955.6	12203.9	12255.7	12299.7	11997.1	11156.6
12.5°	10512.7	10535.9	10652.3	10794.5	11048.0	11337.6	11722.9	11808.2	12002.2	11839.3	10929.0
15°	9871.3	9881.6	9995.4	10171.2	10473.8	10846.2	11283.2	11420.3	11717.8	11728.1	10729.8
17.5°	9325.6	9351.4	9421.3	9589.3	9920.4	10380.7	10890.2	11086.7	11435.9	11635.0	10535.9
20°	8991.9	9017.8	9015.3	9108.4	9405.7	9897.2	10497.1	10732.4	11156.6	11539.3	10362.6
22.5°	8927.3	8927.3	8860.1	8847.2	9023.0	9434.2	10088.4	10375.6	10905.7	11498.0	10241.1
25°	9157.5	9147.1	8979.1	8842.0	8849.8	9095.5	9692.8	10034.2	10693.6	11526.4	10176.4
27.5°	9643.7	9630.8	9418.7	9157.5	8948.0	8945.4	9392.8	9760.1	10525.6	11660.8	10202.3
30°	10316.0	10310.9	10080.8	9752.3	9372.2	9023.0	9289.4	9623.0	10416.9	11904.0	10261.7
32.5°	11050.5	11042.8	10869.5	10523.0	10041.9	9372.2	9398.0	9677.3	10448.0	12227.2	10406.6
35°	11829.0	11816.0	11741.0	11438.4	10908.3	10016.1	9754.9	9972.1	10644.5	12710.8	10691.1
37.5°	12672.0	12685.0	12739.3	12449.6	11893.6	10918.7	10352.3	10499.7	11040.2	13367.7	11153.9
40°	13915.9	13913.4	13931.5	13551.3	13016.0	12022.9	11187.6	11234.1	11702.3	14239.3	11857.4
42.5°	16173.7	16015.9	15537.5	14761.6	14223.7	13285.0	12240.1	12191.0	12511.7	15317.7	12842.7
45°	19207.1	18871.0	17629.6	16142.6	15454.7	14707.3	13535.8	13378.0	13582.3	16613.3	14058.2
47.5°	21816.6	21467.4	19711.4	17580.5	16760.7	16057.3	15053.8	14769.4	14836.6	18064.1	15599.5
50°	22703.6	22532.9	20999.3	18832.2	18025.3	17756.4	16815.0	16468.5	16372.7	19742.5	17386.6
52.5°	22395.9	22383.0	21361.5	19644.2	19183.9	19514.9	19031.3	18630.5	18278.8	21511.4	19204.6
55°	21901.9	21966.5	21508.9	20355.4	20339.9	21120.9	22062.3	21728.7	20709.7	23432.9	20771.8
57.5°	20539.0	20815.7	21426.1	21700.2	22336.4	23135.5	24586.3	24782.8	23577.7	24904.5	22072.6
60°	16665.0	17272.7	19269.2	21894.1	24909.6	26900.9	27632.8	27800.8	25931.1	26127.7	23828.6
62.5°	11829.0	12449.6	14981.4	19421.8	24948.3	31848.1	32171.4	31512.0	28522.4	27940.6	26857.0
65°	6279.1	6757.5	8826.4	14019.4	21630.4	32996.4	40108.3	38142.8	33094.7	31506.8	30769.7
67.5°	3212.0	3356.8	4179.2	6861.0	14870.2	29308.6	47222.7	48606.3	40974.6	35044.7	30581.0
69°	2842.2	2927.5	3473.1	4960.2	9522.1	24824.3	47569.3	52198.4	45099.4	34749.8	27790.5
70°	2751.6	2826.6	3323.2	4489.5	7442.9	20818.4	46242.6	51882.9	46154.6	33627.5	25706.1
72.5°	2335.3	2399.9	2958.6	3967.1	6048.9	10334.2	37563.5	43964.2	41416.8	28012.9	18607.2
75°	1562.0	1774.1	2839.6	3718.8	5627.5	5870.5	24764.7	31770.6	29512.9	18894.2	9692.8
77.5°	375.0	403.5	801.7	2958.6	5146.4	5167.1	12736.7	19750.2	16109.0	6734.3	2291.3
80°	201.7	194.0	224.9	587.1	4792.1	4849.0	5733.4	9586.8	5751.5	1117.2	755.1
82.5°	142.2	134.5	144.8	245.7	1507.7	4417.1	4148.2	4339.6	2384.4	429.3	338.8
85°	51.8	49.1	80.2	222.4	473.2	2539.6	4261.9	3579.2	1931.8	196.5	248.3
87.5°	18.1	15.5	31.0	121.5	144.8	1081.0	2630.1	2705.1	760.4	119.0	116.4
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°	11904.0	11904.0	11904.0	11904.0	11904.0	11904.0	11904.0	11904.0	11904.0	11904.0	11904.0
2.5°	11797.9	11637.6	11342.8	11040.2	10760.9	10424.7	10256.6	10091.1	10021.2	9995.4	9873.8
5°	11456.5	11185.0	10559.2	9930.7	9351.4	8735.9	8329.9	8004.1	7812.7	7719.6	7572.2
7.5°	11019.5	10574.7	9625.6	8655.8	7753.3	6863.6	6204.1	5697.2	5348.1	5180.0	5027.4
10°	10595.4	10003.1	8653.1	7331.7	6105.9	4926.5	4016.2	3356.8	2935.3	2741.3	2617.1
12.5°	10215.2	9447.2	7714.4	6041.2	4502.4	3121.4	2195.7	1670.7	1409.4	1318.9	1275.0
15°	9876.4	8935.1	6827.4	4815.3	3049.0	1784.4	1199.9	1021.5	980.2	980.2	975.0
17.5°	9555.8	8433.4	5971.4	3664.5	1913.7	1091.4	912.9	889.7	889.7	900.0	900.0
20°	9248.0	7955.0	5143.8	2630.1	1205.1	866.3	825.0	819.8	825.0	837.9	837.9
22.5°	8984.2	7520.4	4370.6	1805.1	894.8	781.0	760.4	752.6	755.1	762.9	768.0
25°	8787.7	7153.2	3641.3	1223.2	770.7	711.2	687.9	674.9	664.6	664.6	669.8
27.5°	8663.6	6842.9	2935.3	889.7	693.0	646.5	610.3	589.6	566.4	553.4	558.6
30°	8573.0	6548.1	2273.2	726.7	620.6	574.1	527.5	494.0	460.3	444.8	450.0
32.5°	8539.4	6310.2	1699.1	641.4	556.0	504.3	447.4	403.5	367.2	354.4	356.9
35°	8629.9	6121.3	1243.9	579.3	504.3	439.7	375.0	325.8	297.4	289.6	292.3
37.5°	8867.9	6020.5	931.0	527.5	457.8	385.3	312.9	266.4	248.3	248.3	250.8
40°	9317.9	6017.9	747.4	491.3	416.3	333.6	258.6	224.9	214.6	219.8	222.4
42.5°	9974.7	6155.0	651.7	457.8	380.1	284.5	214.6	191.4	188.8	194.0	196.5
45°	10872.1	6405.8	600.0	429.3	341.4	237.9	181.1	165.5	165.5	173.3	175.8
47.5°	11971.2	6773.1	556.0	400.9	302.6	199.2	155.2	144.8	147.4	155.2	157.7
50°	13295.3	7235.9	512.1	369.8	274.2	165.5	134.5	126.7	129.3	139.6	142.2
52.5°	14803.0	7859.2	475.9	341.4	237.9	137.1	113.8	108.6	113.8	124.1	126.7
55°	16096.0	8417.9	431.9	318.1	191.4	113.8	93.1	93.1	98.3	111.2	113.8
57.5°	17340.0	9002.3	393.1	274.2	150.0	90.5	77.5	80.2	88.0	100.9	103.4
60°	19165.8	9992.8	346.6	230.2	113.8	72.4	64.7	67.2	77.5	90.5	93.1
62.5°	22266.6	11500.5	300.0	191.4	88.0	56.9	51.8	56.9	69.9	85.3	88.0
65°	25064.8	12113.5	245.7	160.3	67.2	44.0	44.0	51.8	67.2	82.8	85.3
67.5°	23505.4	10197.1	191.4	126.7	51.8	33.7	36.2	49.1	64.7	82.8	85.3
69°	20787.3	8337.7	163.0	100.9	44.0	31.0	33.7	49.1	64.7	80.2	82.8
70°	18669.3	7039.4	144.8	85.3	38.8	31.0	33.7	46.5	64.7	80.2	82.8
72.5°	12503.9	3801.6	116.4	62.1	36.2	28.4	28.4	46.5	62.1	77.5	80.2
75°	5374.0	1050.0	93.1	44.0	31.0	25.9	25.9	44.0	59.4	75.0	80.2
77.5°	982.7	266.4	75.0	38.8	31.0	25.9	23.3	41.3	56.9	72.4	75.0
80°	390.5	131.9	59.4	33.7	28.4	23.3	20.7	38.8	54.3	69.9	72.4
82.5°	235.4	75.0	49.1	31.0	28.4	20.7	18.1	33.7	51.8	67.2	69.9
85°	191.4	51.8	38.8	31.0	25.9	20.7	15.5	31.0	46.5	64.7	67.2
87.5°	93.1	36.2	36.2	28.4	25.9	20.7	15.5	28.4	44.0	62.1	64.7
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)