

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: P269407

Luminaire Tested: **GLEON-AF-06-LED-E1-SL4-7027-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269407  
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-06-LED-E1-SL4-7027-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 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: 27538.4 lumens  
Efficiency: N/A  
Efficacy: 72.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G4

Input Watts (W): 382  
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

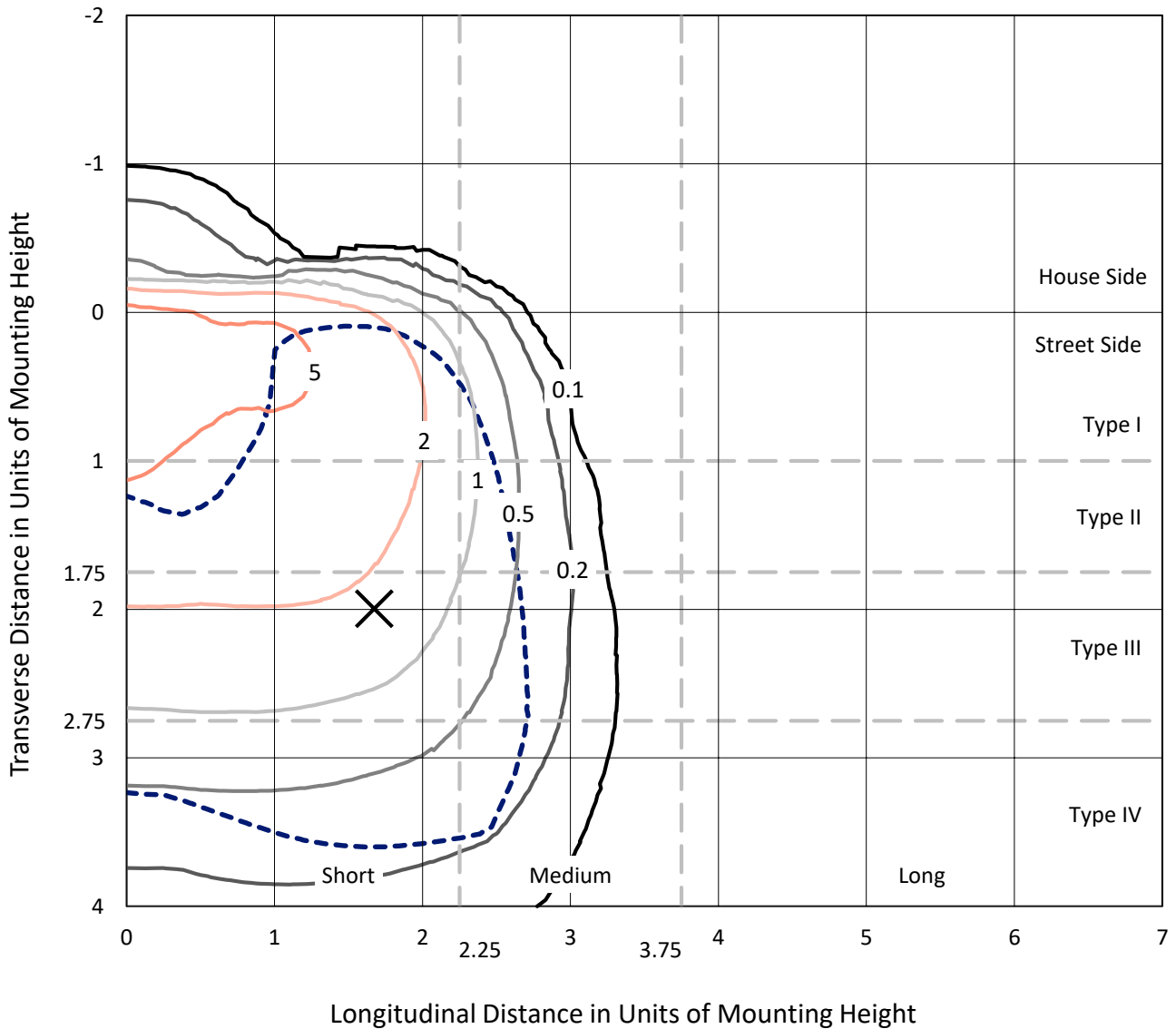


REPORT NUMBER: P269407

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL4-7027-1200-HSS

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

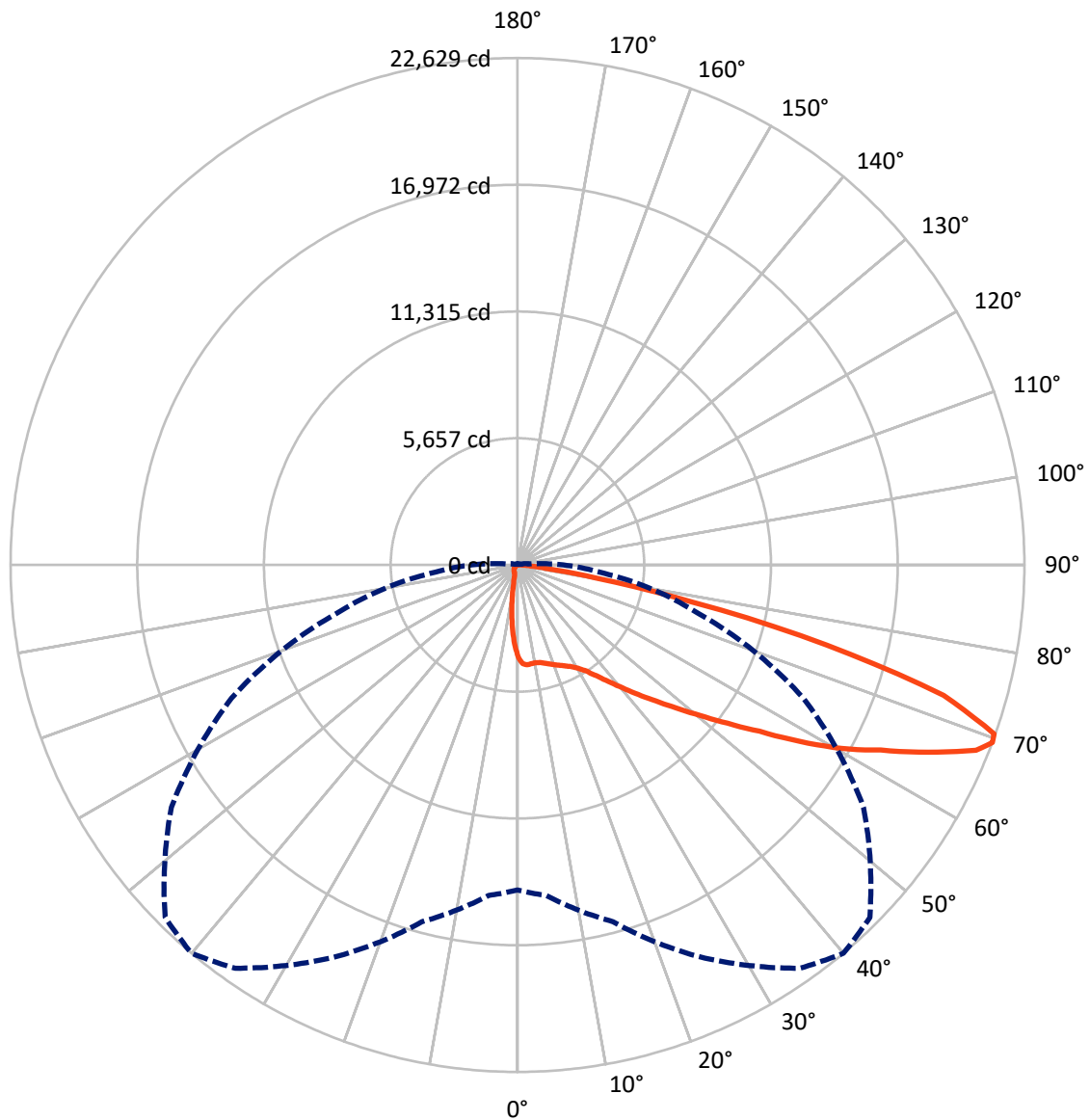


Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P269407

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL4-7027-1200-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P269407

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL4-7027-1200-HSS

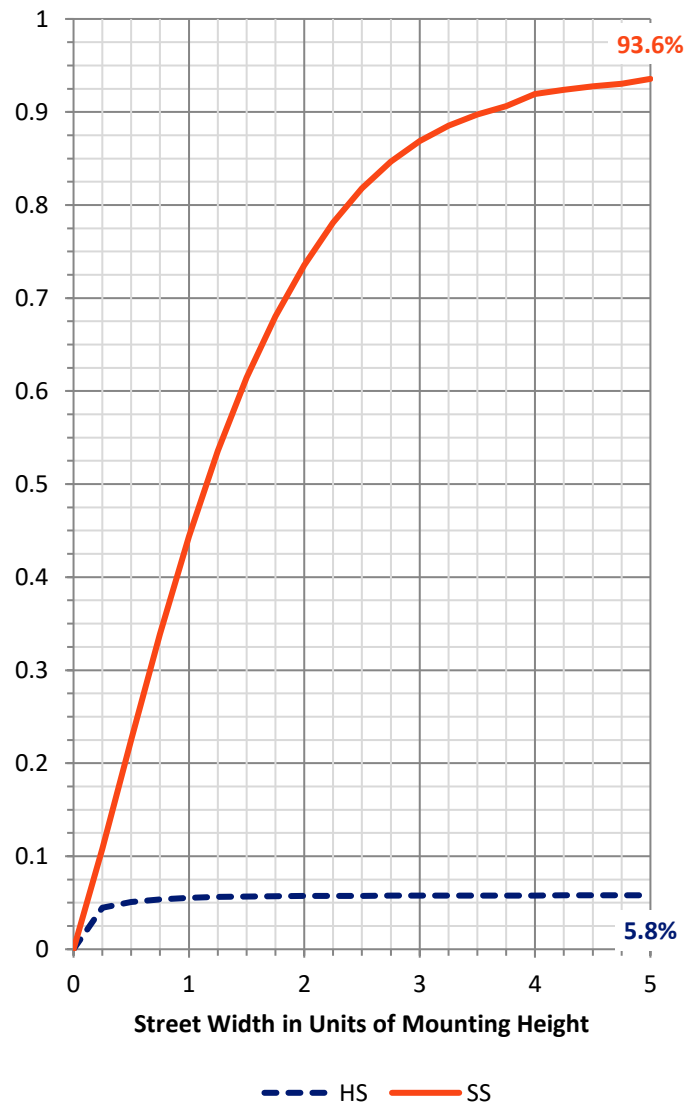
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1611.1	0.0	1611.1
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	25927.2	0.0	25927.2
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	27538.4	0.0	27538.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	333.6	1.2
10°-20°	820.4	3.0
20°-30°	1381.8	5.0
30°-40°	2262.0	8.2
40°-50°	3916.6	14.2
50°-60°	6169.1	22.4
60°-70°	8056.6	29.3
70°-80°	4149.5	15.1
80°-90°	448.9	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°	27538.4	100.0
0°-180°	27538.4	100.0



REPORT NUMBER: P269407

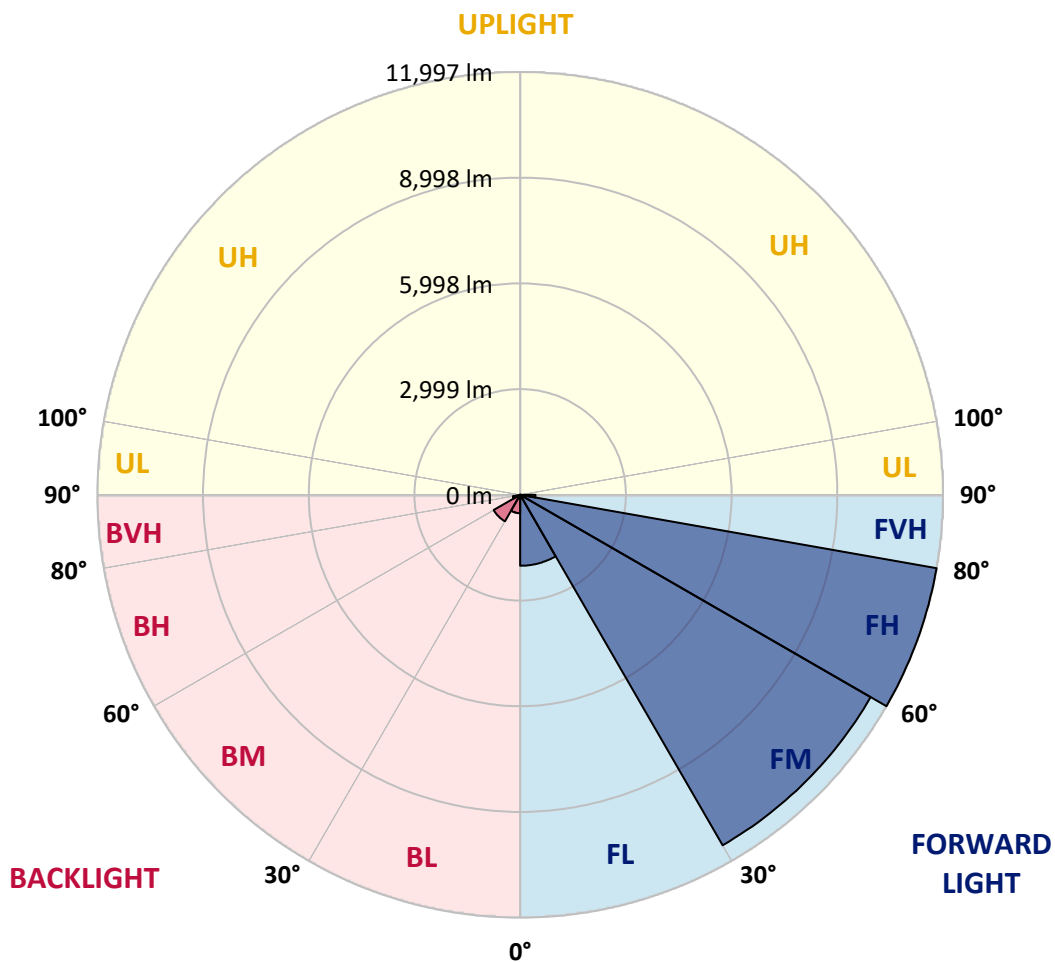
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2013.8	7.3			
FM	(30°-60°)	11481.8	41.7			
FH	(60°-80°)	11996.9	43.6			G4/12000
FVH	(80°-90°)	434.8	1.6			G3/500
BL	(0°-30°)	521.9	1.9	B2/1000		
BM	(30°-60°)	866.0	3.1	B1/1000		
BH	(60°-80°)	209.2	0.8	B1/500		G1/500
BVH	(80°-90°)	14.1	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4114.3	4114.3	4114.3	4114.3	4114.3	4114.3	4114.3	4114.3	4114.3	4114.3	4114.3
2.5°	4517.7	4493.1	4478.3	4458.6	4434.0	4412.7	4404.5	4343.8	4286.5	4207.8	4117.7
5°	4601.2	4593.0	4566.9	4540.6	4511.1	4478.3	4460.3	4388.1	4306.1	4191.4	4034.1
7.5°	4609.5	4599.6	4566.9	4530.7	4489.8	4450.5	4419.3	4347.2	4271.7	4155.4	3963.6
10°	4596.3	4584.8	4560.2	4520.9	4470.1	4432.3	4401.2	4332.3	4268.4	4163.6	3950.4
12.5°	4581.5	4570.0	4558.5	4539.0	4494.7	4468.4	4442.2	4376.6	4319.3	4230.7	3997.9
15°	4596.3	4589.7	4602.8	4594.7	4570.0	4547.1	4520.9	4461.9	4409.4	4335.7	4084.9
17.5°	4658.6	4658.6	4699.6	4704.6	4681.5	4648.8	4611.1	4552.0	4507.8	4445.5	4188.2
20°	4804.4	4799.6	4852.0	4861.8	4806.1	4755.3	4699.6	4627.4	4593.0	4553.7	4289.8
22.5°	5055.3	5032.3	5063.4	5053.7	4943.8	4865.1	4796.3	4707.7	4689.7	4671.7	4403.0
25°	5381.4	5368.5	5389.7	5293.0	5099.6	4993.0	4911.0	4811.1	4811.1	4829.1	4530.7
27.5°	5855.2	5806.0	5733.9	5563.5	5273.3	5137.2	5048.7	4942.1	4970.1	5037.2	4699.6
30°	6340.3	6286.2	6120.7	5858.4	5484.7	5342.1	5238.8	5127.3	5193.0	5315.9	4925.8
32.5°	6819.0	6758.4	6524.0	6192.8	5788.0	5645.4	5545.3	5422.4	5532.3	5738.8	5256.9
35°	7283.0	7228.8	6958.5	6568.2	6191.3	6073.3	5981.5	5874.8	6015.9	6304.3	5724.1
37.5°	7804.3	7745.1	7415.7	6992.8	6681.4	6596.2	6528.9	6422.3	6668.3	7091.2	6374.8
40°	8445.1	8345.2	7901.0	7479.6	7248.6	7207.6	7161.6	7146.8	7528.9	8114.0	7242.0
42.5°	9179.5	9015.6	8409.0	7992.7	7871.4	7901.0	7889.5	7955.0	8605.8	9386.0	8297.6
45°	9913.9	9702.5	8974.5	8540.1	8556.5	8659.9	8723.8	8986.0	9954.8	10844.9	9433.6
47.5°	10536.8	10328.5	9517.2	9132.0	9328.7	9531.9	9705.6	10202.3	11341.6	12280.9	10317.2
50°	11069.5	10872.7	10092.5	9782.7	10225.2	10553.2	10835.0	11571.1	12833.2	13374.1	10936.8
52.5°	11505.5	11374.3	10689.2	10528.6	11249.8	11730.1	12143.2	13025.1	14154.5	14262.6	11418.6
55°	11930.1	11836.6	11330.1	11415.3	12452.9	13107.0	13630.0	14567.5	15292.0	15003.5	11881.0
57.5°	12418.6	12333.3	12061.3	12539.8	14034.8	14857.6	15428.1	15934.7	16293.5	15760.9	12316.9
60°	12916.9	12867.7	12874.1	13789.0	15851.0	16641.1	16955.9	17087.0	17277.1	16473.8	12341.5
62.5°	13392.2	13485.6	13803.6	15178.9	17590.3	18196.6	18355.6	18485.2	18262.3	16587.1	11402.2
65°	14197.1	14349.5	15108.5	17039.4	19503.1	20152.2	20316.2	19871.9	18417.9	15124.9	9274.6
67.5°	14590.5	14869.1	16223.1	18773.7	21358.7	22080.0	22019.3	19962.1	16528.0	11533.3	5951.9
69°	14508.5	14805.2	16480.5	19304.8	21975.1	22629.2	22243.9	18858.9	14080.8	8355.0	3653.8
70°	14184.0	14483.9	16347.6	19285.2	22053.7	22571.7	21827.6	17496.7	11905.4	6109.3	2285.1
72.5°	11844.8	12103.9	14513.5	17431.3	20316.2	19894.9	18260.7	12121.9	5801.2	1663.8	514.6
75°	7291.2	7435.5	10413.8	13131.7	15344.5	14262.6	12166.1	6030.6	1729.3	470.4	285.2
77.5°	3852.1	3917.7	5701.2	7740.2	9726.9	8048.5	6235.5	2352.2	796.6	295.1	206.5
80°	2276.8	2326.0	3070.1	3539.1	4209.5	3516.1	2493.2	1444.1	570.5	185.2	183.7
82.5°	1303.1	1334.3	2226.0	1967.0	1658.9	1416.3	1240.9	1368.7	342.7	124.5	190.1
85°	478.6	485.3	1252.3	1496.5	986.8	586.9	616.3	1134.3	91.7	78.7	149.2
87.5°	222.9	218.0	644.3	916.4	577.0	372.1	480.2	249.2	36.0	50.8	41.1
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°	4114.3	4114.3	4114.3	4114.3	4114.3	4114.3	4114.3	4114.3	4114.3	4114.3	4114.3
2.5°	4065.2	4004.6	3894.7	3781.7	3666.9	3578.4	3491.5	3422.6	3399.6	3357.1	3360.4
5°	3940.7	3829.1	3599.7	3366.8	3124.3	2924.3	2735.8	2583.3	2509.7	2434.1	2434.1
7.5°	3832.3	3670.1	3311.2	2932.5	2540.8	2211.3	1914.6	1691.7	1568.7	1470.3	1468.6
10°	3791.4	3571.8	3070.1	2527.7	1981.8	1532.7	1180.3	954.0	837.6	762.2	759.0
12.5°	3809.5	3537.3	2884.9	2153.9	1468.6	985.1	683.5	537.6	488.5	465.5	465.5
15°	3862.0	3527.6	2699.8	1788.3	1037.6	616.3	454.1	414.7	411.5	411.5	411.5
17.5°	3925.9	3530.8	2509.7	1432.6	706.4	441.0	391.8	386.8	390.1	390.1	390.1
20°	3991.4	3532.4	2304.7	1103.2	498.3	383.5	368.8	367.1	370.5	370.5	372.1
22.5°	4071.7	3540.7	2099.8	824.6	411.5	362.2	350.8	350.8	352.4	352.4	350.8
25°	4163.6	3557.1	1886.7	611.4	375.4	347.6	337.7	336.1	337.7	336.1	334.3
27.5°	4278.3	3579.9	1649.0	478.6	359.1	332.7	324.6	324.6	322.9	321.2	319.6
30°	4422.5	3606.2	1381.9	406.6	342.7	319.6	311.4	309.8	308.2	304.9	304.9
32.5°	4642.3	3663.6	1117.9	368.8	324.6	301.7	295.1	295.1	291.8	288.4	286.9
35°	4979.8	3776.7	881.9	345.8	304.9	282.0	273.8	273.8	270.5	268.9	267.2
37.5°	5447.1	3948.8	685.1	324.6	285.2	260.6	252.5	250.7	247.6	244.2	242.6
40°	6068.3	4161.8	539.3	304.9	265.5	239.3	232.8	229.4	222.9	218.0	218.0
42.5°	6848.6	4404.5	437.7	283.5	242.6	219.6	214.8	209.8	198.3	193.4	191.8
45°	7664.9	4622.5	370.5	259.0	219.6	200.1	196.6	188.6	173.7	168.8	168.8
47.5°	8253.4	4673.3	326.3	236.1	198.3	178.7	177.1	162.2	149.2	145.9	144.3
50°	8620.6	4573.4	290.2	213.1	178.7	159.0	154.1	136.1	127.9	124.5	123.0
52.5°	8868.1	4394.7	260.6	193.4	160.6	140.9	129.4	116.4	109.9	106.5	106.5
55°	9066.5	4142.3	231.1	175.3	145.9	126.2	109.9	100.0	93.5	90.2	90.2
57.5°	9122.1	3799.7	201.6	160.6	131.2	111.5	93.5	86.9	78.7	77.1	77.1
60°	8717.2	3181.6	178.7	142.7	117.9	96.7	81.9	73.8	65.5	63.9	62.3
62.5°	7650.1	2462.1	157.4	126.2	103.2	83.6	70.4	60.6	54.1	54.1	54.1
65°	5835.5	1650.6	137.7	109.9	90.2	70.4	60.6	49.1	46.0	46.0	47.5
67.5°	3493.1	898.2	117.9	93.5	77.1	59.0	50.8	42.6	41.1	42.6	42.6
69°	2047.3	527.8	106.5	83.6	67.3	52.5	44.2	37.6	41.1	42.6	42.6
70°	1263.8	355.6	98.4	75.4	60.6	47.5	41.1	36.0	39.3	41.1	41.1
72.5°	352.4	183.7	78.7	59.0	49.1	39.3	32.8	32.8	37.6	39.3	39.3
75°	229.4	136.1	60.6	44.2	37.6	31.1	27.8	31.1	36.0	37.6	37.6
77.5°	190.1	111.5	49.1	36.0	31.1	29.6	26.2	27.8	32.8	34.5	34.5
80°	173.7	78.7	39.3	32.8	27.8	26.2	24.7	22.9	29.6	31.1	31.1
82.5°	165.6	62.3	34.5	29.6	26.2	22.9	21.3	22.9	26.2	27.8	29.6
85°	103.2	41.1	31.1	27.8	22.9	21.3	21.3	21.3	24.7	26.2	26.2
87.5°	37.6	32.8	27.8	22.9	19.7	19.7	19.7	19.7	21.3	24.7	24.7
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)