

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: P269563

Luminaire Tested: **GLEON-AF-08-LED-E1-SL4-7027-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269563  
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-SL4-7027-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 615mA 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: 22162.9 lumens  
Efficiency: N/A  
Efficacy: 86.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G4

Input Watts (W): 257  
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

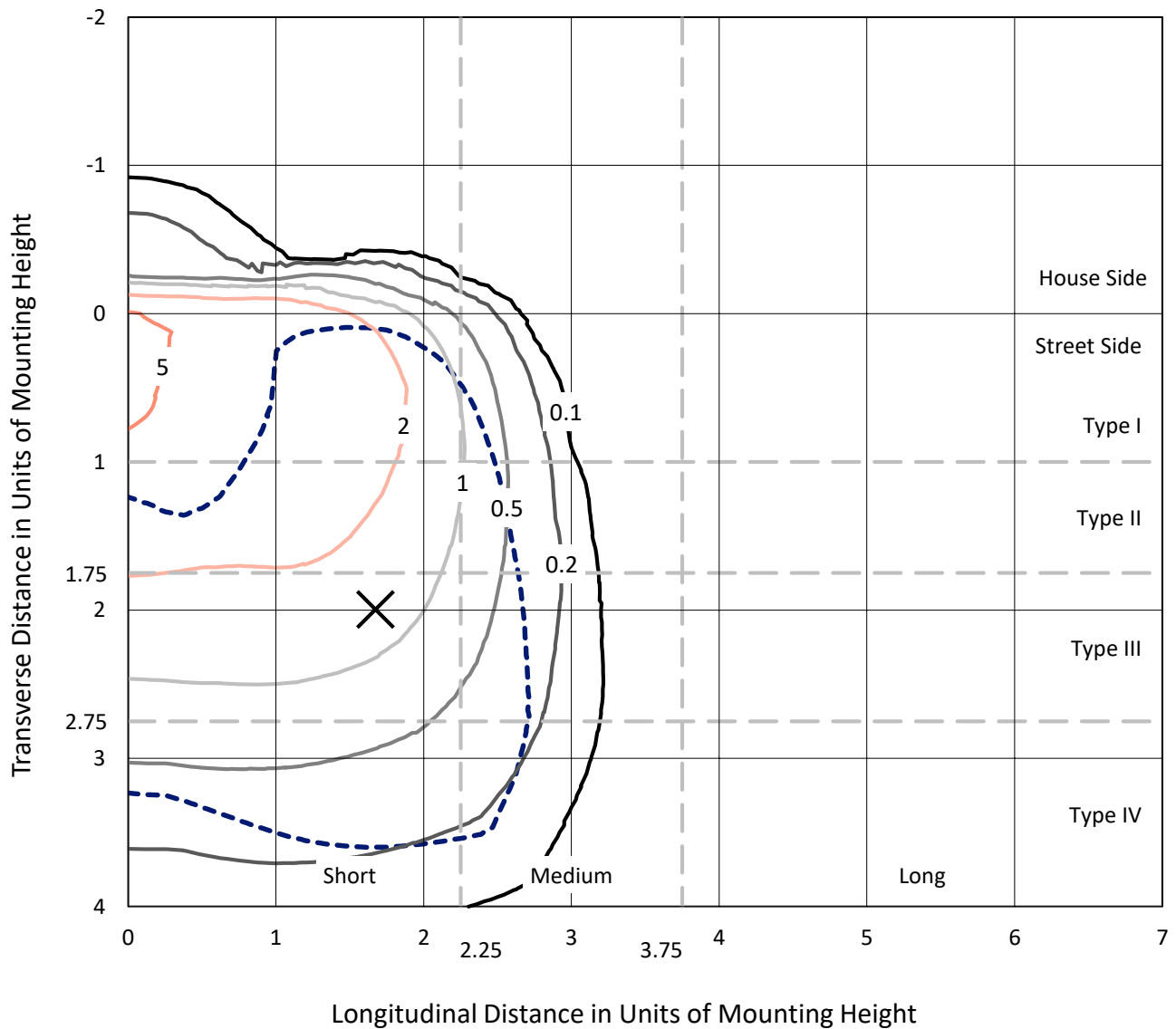


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

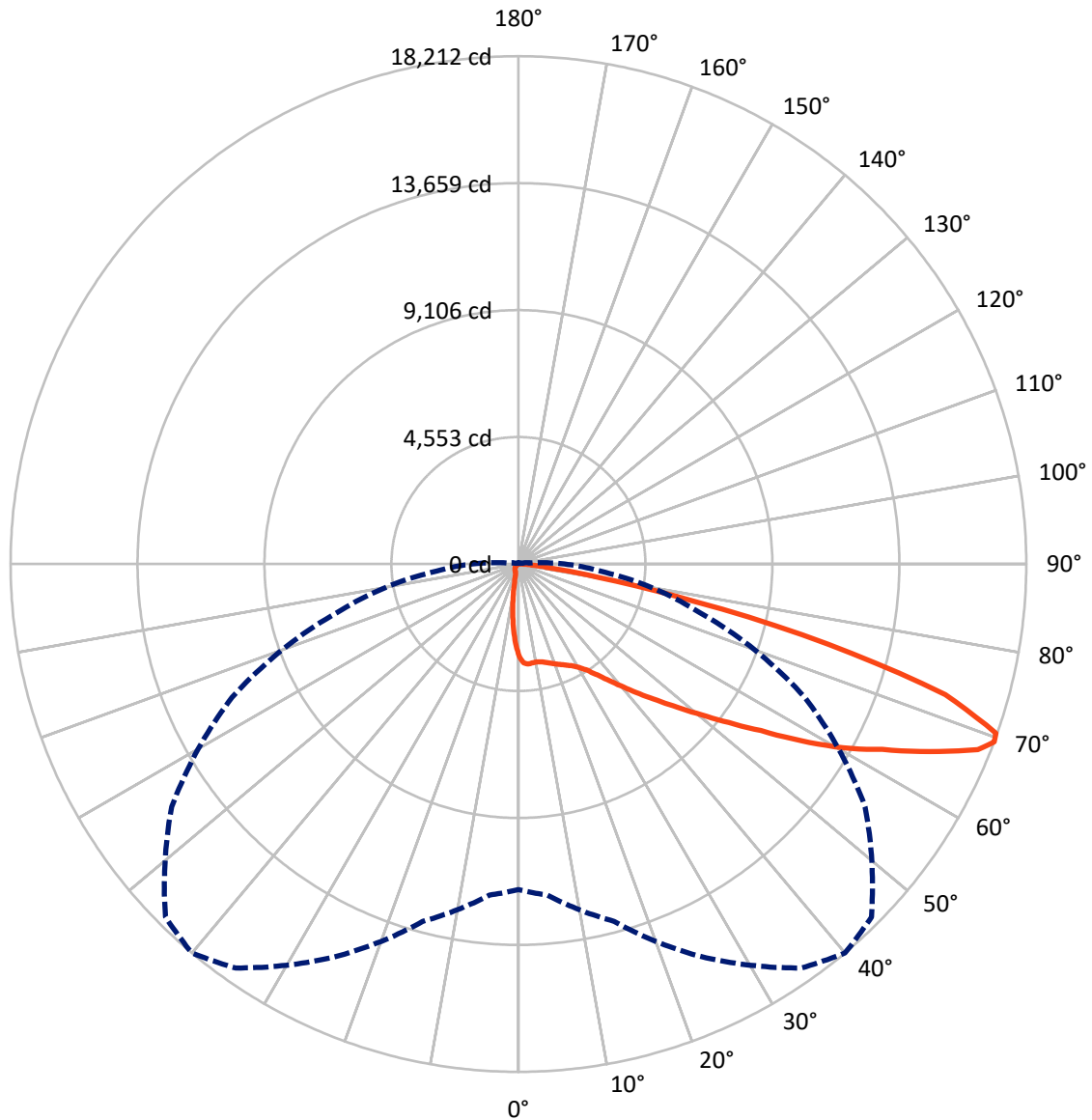


Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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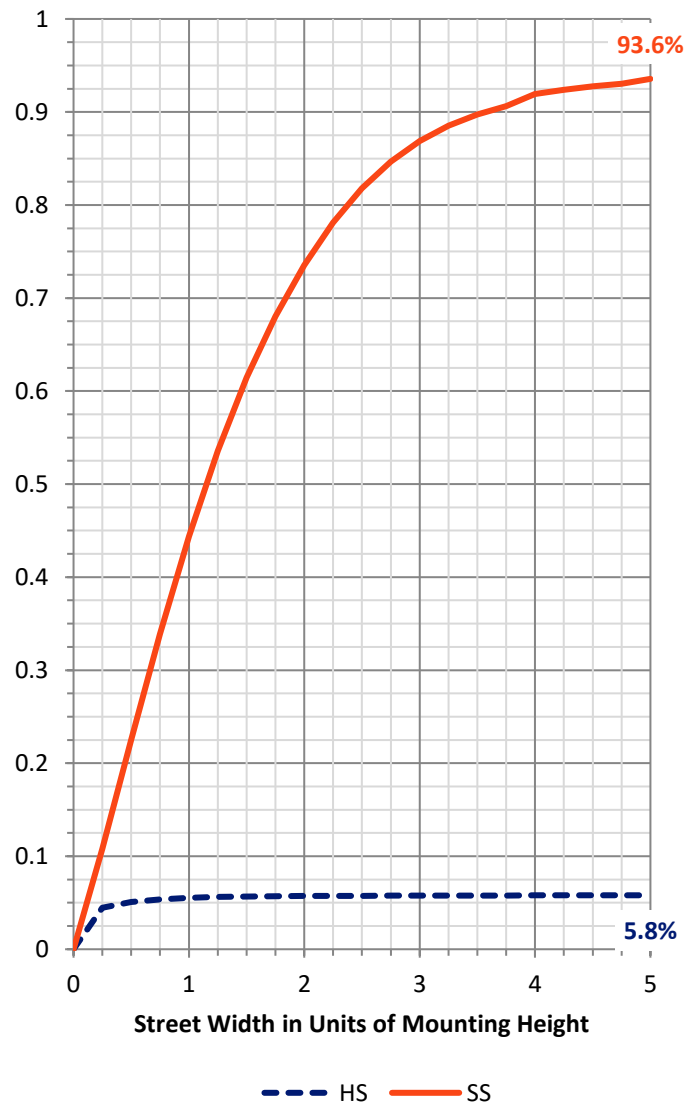
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1296.7	0.0	1296.7
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	20866.2	0.0	20866.2
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	22162.9	0.0	22162.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	268.5	1.2
10°-20°	660.2	3.0
20°-30°	1112.1	5.0
30°-40°	1820.5	8.2
40°-50°	3152.1	14.2
50°-60°	4964.9	22.4
60°-70°	6483.9	29.3
70°-80°	3339.5	15.1
80°-90°	361.2	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°	22162.9	100.0
0°-180°	22162.9	100.0



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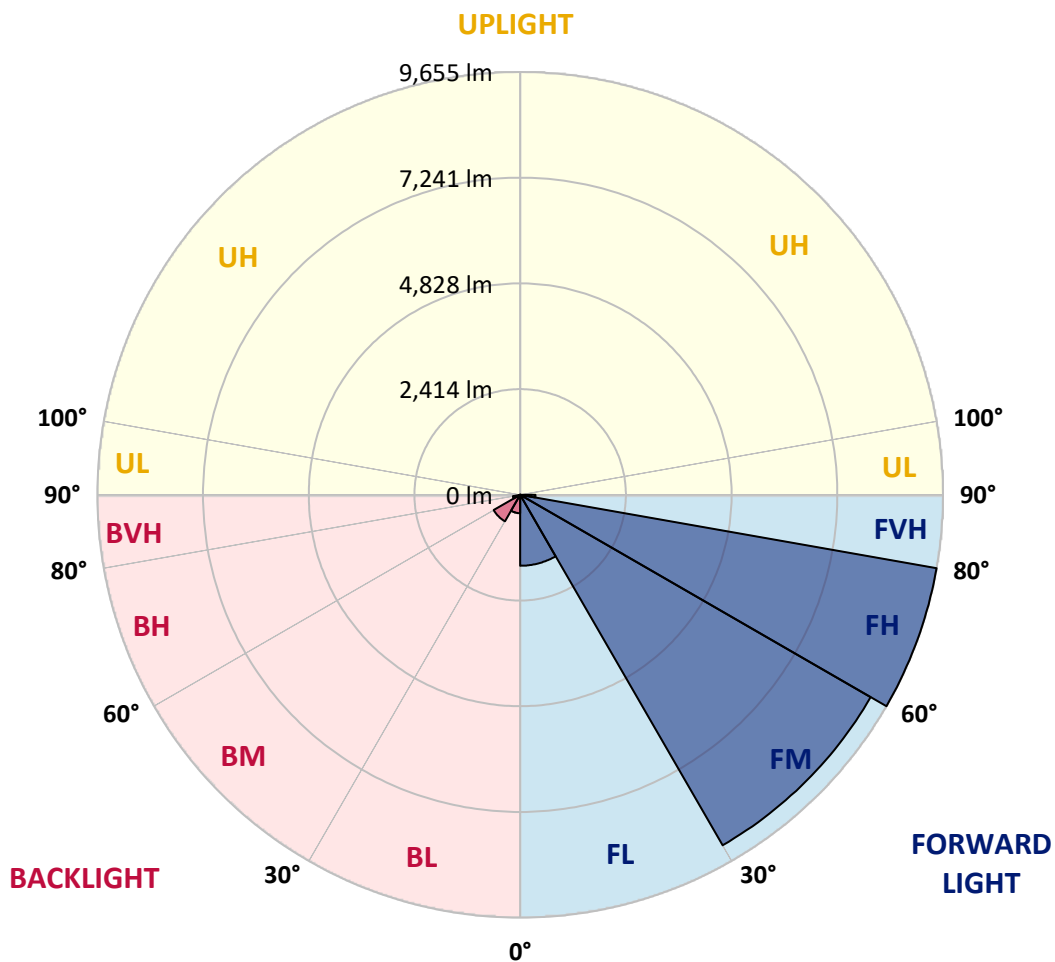
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1620.7	7.3			
FM	(30°-60°)	9240.5	41.7			
FH	(60°-80°)	9655.1	43.6			G4/12000
FVH	(80°-90°)	349.9	1.6			G3/500
BL	(0°-30°)	420.0	1.9	B1/500		
BM	(30°-60°)	696.9	3.1	B1/1000		
BH	(60°-80°)	168.4	0.8	B1/500		G1/500
BVH	(80°-90°)	11.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3311.2	3311.2	3311.2	3311.2	3311.2	3311.2	3311.2	3311.2	3311.2	3311.2	3311.2
2.5°	3635.8	3615.9	3604.1	3588.3	3568.4	3551.3	3544.7	3495.9	3449.8	3386.4	3313.8
5°	3703.1	3696.4	3675.3	3654.2	3630.5	3604.1	3589.5	3531.5	3465.7	3373.2	3246.7
7.5°	3709.6	3701.7	3675.3	3646.3	3613.3	3581.7	3556.6	3498.5	3438.0	3344.2	3189.9
10°	3699.1	3689.9	3670.0	3638.4	3597.5	3567.2	3542.0	3486.7	3435.3	3350.8	3179.3
12.5°	3687.3	3678.0	3668.8	3652.9	3617.4	3596.2	3575.1	3522.3	3476.1	3404.8	3217.5
15°	3699.1	3693.8	3704.4	3697.8	3678.0	3659.5	3638.4	3591.0	3548.8	3489.3	3287.4
17.5°	3749.3	3749.3	3782.3	3786.1	3767.8	3741.4	3711.0	3663.5	3627.9	3577.7	3370.6
20°	3866.7	3862.7	3904.9	3912.7	3867.9	3827.0	3782.3	3724.2	3696.4	3664.7	3452.4
22.5°	4068.5	4050.0	4075.2	4067.2	3978.8	3915.4	3860.0	3788.8	3774.3	3759.8	3543.5
25°	4331.0	4320.5	4337.6	4259.8	4104.0	4018.4	3952.5	3872.0	3872.0	3886.3	3646.3
27.5°	4712.2	4672.7	4614.7	4477.4	4244.0	4134.4	4063.3	3977.4	3999.9	4054.1	3782.3
30°	5102.7	5059.3	4925.9	4714.9	4414.1	4299.4	4216.3	4126.5	4179.3	4278.3	3964.3
32.5°	5487.9	5439.1	5250.6	4983.9	4658.3	4543.4	4462.9	4364.0	4452.4	4618.5	4230.7
35°	5861.4	5817.8	5600.0	5286.2	4982.7	4887.7	4813.8	4728.0	4841.5	5073.6	4606.7
37.5°	6280.8	6233.2	5968.2	5627.8	5377.2	5308.5	5254.5	5168.7	5366.6	5706.9	5130.4
40°	6796.7	6716.2	6358.7	6019.6	5833.7	5800.6	5763.6	5751.8	6059.2	6530.0	5828.4
42.5°	7387.7	7255.7	6767.7	6432.6	6334.8	6358.7	6349.4	6402.2	6925.9	7553.8	6677.9
45°	7978.7	7808.4	7222.7	6873.1	6886.3	6969.4	7021.0	7232.0	8011.7	8727.9	7592.1
47.5°	8479.9	8312.3	7659.4	7349.4	7507.7	7671.3	7811.1	8210.8	9127.7	9883.6	8303.2
50°	8908.8	8750.4	8122.5	7873.1	8229.4	8493.1	8720.0	9312.4	10328.2	10763.5	8801.9
52.5°	9259.5	9154.1	8602.6	8473.4	9053.7	9440.4	9772.8	10482.5	11391.4	11478.5	9189.8
55°	9601.3	9526.0	9118.4	9187.1	10022.1	10548.4	10969.4	11723.9	12307.0	12074.7	9561.6
57.5°	9994.5	9925.8	9706.8	10092.0	11295.2	11957.3	12416.6	12824.2	13113.1	12684.2	9912.5
60°	10395.5	10355.9	10361.1	11097.3	12756.8	13392.7	13646.1	13751.6	13904.5	13258.2	9932.4
62.5°	10778.0	10853.2	11109.2	12216.1	14156.6	14644.7	14772.6	14876.8	14697.3	13349.3	9176.5
65°	11425.7	11548.4	12159.3	13713.3	15696.1	16218.4	16350.4	15993.0	14822.8	12172.5	7464.1
67.5°	11742.4	11966.6	13056.3	15109.0	17189.4	17769.9	17721.0	16065.5	13301.7	9282.0	4790.1
69°	11676.3	11915.2	13263.5	15536.5	17685.4	18211.8	17901.9	15177.7	11332.1	6724.1	2940.5
70°	11415.2	11656.6	13156.5	15520.6	17748.8	18165.6	17566.7	14081.3	9581.5	4916.8	1839.0
72.5°	9532.6	9741.1	11680.4	14028.7	16350.4	16011.4	14696.1	9755.7	4668.8	1339.1	414.3
75°	5867.9	5984.0	8380.9	10568.3	12349.2	11478.5	9791.3	4853.5	1391.7	378.6	229.5
77.5°	3100.2	3153.0	4588.3	6229.3	7828.3	6477.4	5018.3	1893.1	641.1	237.4	166.2
80°	1832.5	1872.0	2470.9	2848.2	3387.8	2829.8	2006.5	1162.2	459.2	149.1	147.7
82.5°	1048.9	1073.8	1791.5	1583.1	1335.1	1139.8	998.6	1101.5	275.7	100.3	153.0
85°	385.3	390.6	1007.9	1204.4	794.2	472.2	496.0	912.9	73.9	63.3	120.1
87.5°	179.4	175.4	518.4	737.5	464.3	299.4	386.5	200.5	29.0	41.0	33.0
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°	3311.2	3311.2	3311.2	3311.2	3311.2	3311.2	3311.2	3311.2	3311.2	3311.2	3311.2
2.5°	3271.6	3222.8	3134.5	3043.5	2951.1	2879.8	2810.0	2754.6	2736.1	2701.7	2704.3
5°	3171.3	3081.6	2897.0	2709.6	2514.4	2353.5	2201.7	2079.0	2019.7	1959.1	1959.1
7.5°	3084.3	2953.7	2664.8	2360.0	2044.8	1779.6	1540.9	1361.4	1262.5	1183.3	1182.0
10°	3051.4	2874.5	2470.9	2034.2	1594.9	1233.5	949.9	767.8	674.1	613.5	610.8
12.5°	3065.8	2846.9	2321.8	1733.5	1182.0	792.8	550.1	432.8	393.1	374.7	374.7
15°	3108.0	2839.0	2172.8	1439.3	835.1	496.0	365.4	333.8	331.1	331.1	331.1
17.5°	3159.5	2841.6	2019.7	1153.1	568.5	354.9	315.2	311.4	314.0	314.0	314.0
20°	3212.2	2843.0	1854.8	887.9	401.1	308.7	296.8	295.5	298.1	298.1	299.4
22.5°	3276.9	2849.6	1689.9	663.6	331.1	291.5	282.2	282.2	283.7	283.7	282.2
25°	3350.8	2862.7	1518.5	492.1	302.1	279.7	271.7	270.4	271.7	270.4	269.1
27.5°	3443.2	2881.1	1327.2	385.3	289.0	267.9	261.1	261.1	259.9	258.5	257.3
30°	3559.3	2902.2	1112.1	327.2	275.7	257.3	250.6	249.3	248.0	245.3	245.3
32.5°	3736.1	2948.4	899.7	296.8	261.1	242.7	237.4	237.4	234.8	232.2	230.9
35°	4007.8	3039.4	709.8	278.4	245.3	226.9	220.4	220.4	217.7	216.3	215.1
37.5°	4383.8	3178.1	551.4	261.1	229.5	209.8	203.1	201.8	199.2	196.5	195.2
40°	4883.7	3349.5	434.1	245.3	213.6	192.5	187.3	184.7	179.4	175.4	175.4
42.5°	5511.7	3544.7	352.2	228.2	195.2	176.7	172.8	168.8	159.5	155.6	154.4
45°	6168.8	3720.2	298.1	208.4	176.7	160.9	158.3	151.8	139.9	135.9	135.9
47.5°	6642.2	3761.2	262.6	190.0	159.5	143.8	142.6	130.7	120.1	117.4	116.2
50°	6937.8	3680.6	233.5	171.4	143.8	128.0	124.0	109.6	102.9	100.3	99.0
52.5°	7136.9	3536.8	209.8	155.6	129.3	113.5	104.3	93.7	88.5	85.8	85.8
55°	7296.7	3333.7	185.9	141.2	117.4	101.6	88.5	80.5	75.2	72.6	72.6
57.5°	7341.5	3057.9	162.2	129.3	105.6	89.7	75.2	69.9	63.3	62.1	62.1
60°	7015.7	2560.6	143.8	114.8	95.0	77.9	65.9	59.4	52.8	51.5	50.1
62.5°	6156.9	1981.5	126.7	101.6	83.2	67.3	56.8	48.8	43.6	43.6	43.6
65°	4696.3	1328.5	110.9	88.5	72.6	56.8	48.8	39.5	36.9	36.9	38.3
67.5°	2811.2	723.0	95.0	75.2	62.1	47.5	41.0	34.2	33.0	34.2	34.2
69°	1647.8	424.8	85.8	67.3	54.1	42.2	35.7	30.4	33.0	34.2	34.2
70°	1017.2	286.3	79.1	60.6	48.8	38.3	33.0	29.0	31.7	33.0	33.0
72.5°	283.7	147.7	63.3	47.5	39.5	31.7	26.4	26.4	30.4	31.7	31.7
75°	184.7	109.6	48.8	35.7	30.4	25.1	22.4	25.1	29.0	30.4	30.4
77.5°	153.0	89.7	39.5	29.0	25.1	23.7	21.1	22.4	26.4	27.7	27.7
80°	139.9	63.3	31.7	26.4	22.4	21.1	19.9	18.4	23.7	25.1	25.1
82.5°	133.3	50.1	27.7	23.7	21.1	18.4	17.2	18.4	21.1	22.4	23.7
85°	83.2	33.0	25.1	22.4	18.4	17.2	17.2	17.2	19.9	21.1	21.1
87.5°	30.4	26.4	22.4	18.4	15.8	15.8	15.8	15.8	17.2	19.9	19.9
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)