

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: P194562

Luminaire Tested: **GLEON-AF-04-LED-E1-SL4-7060-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194562
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-04-LED-E1-SL4-7060-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 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: 21378 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

Input Watts (W): 258
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

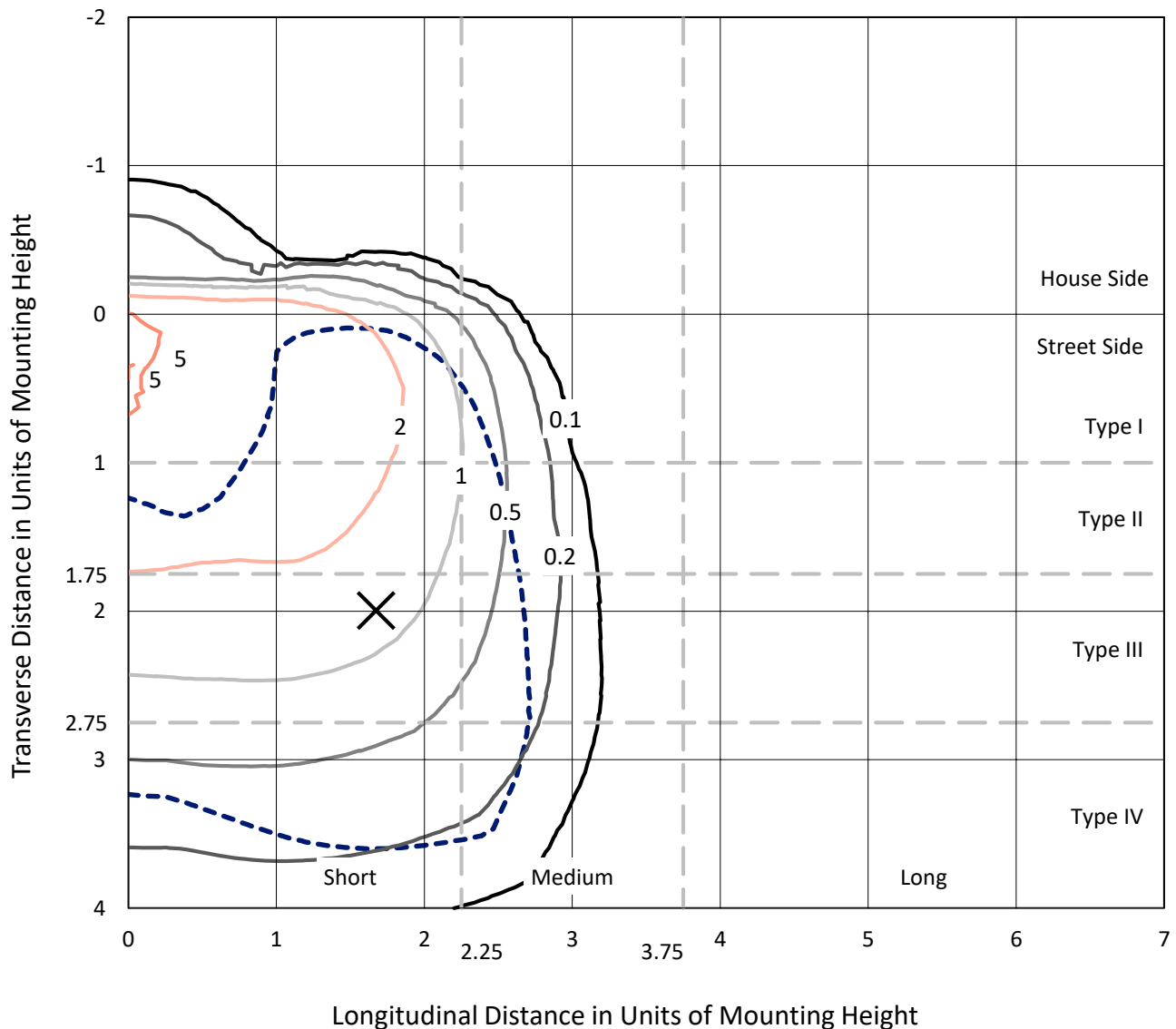


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

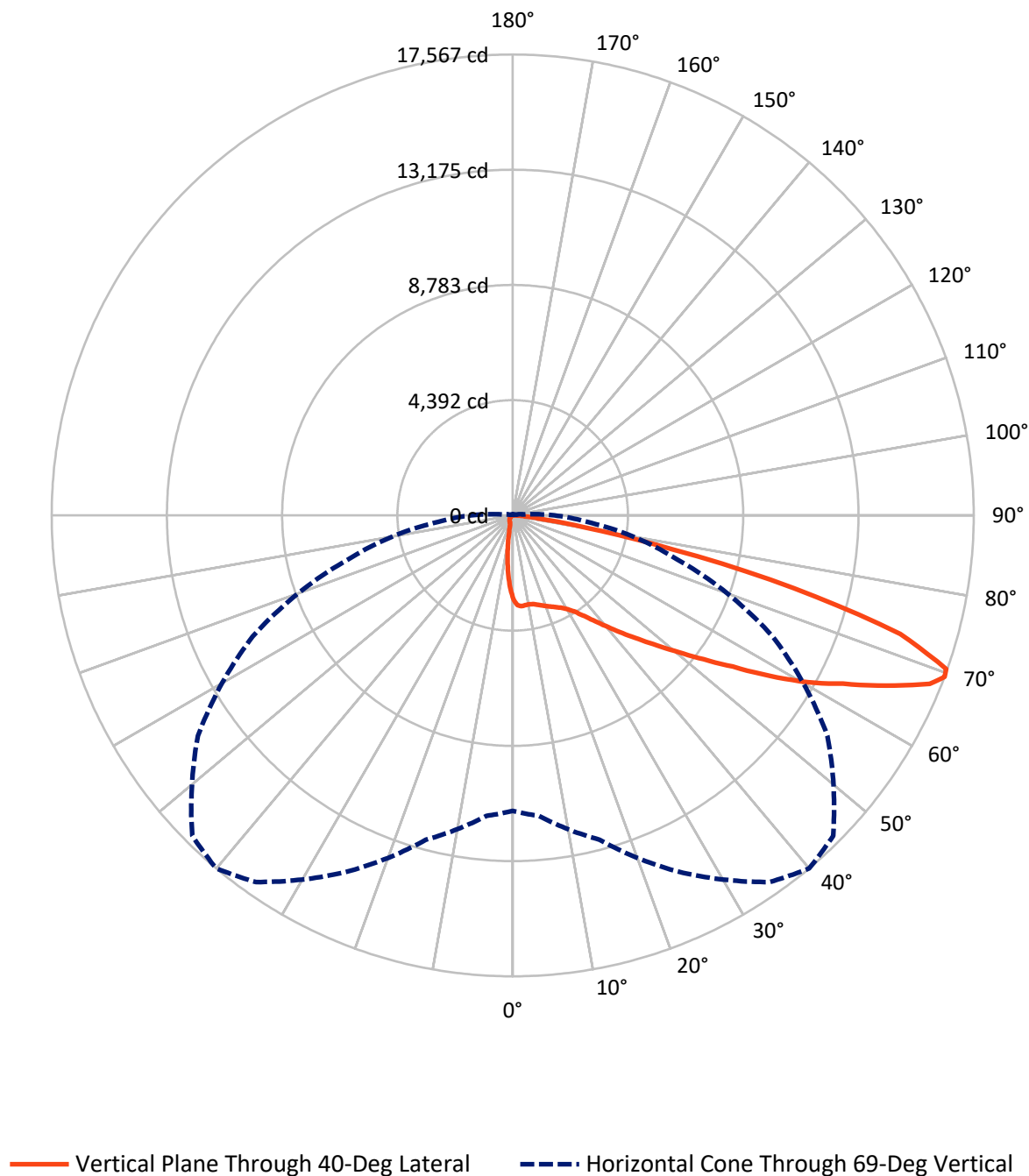


Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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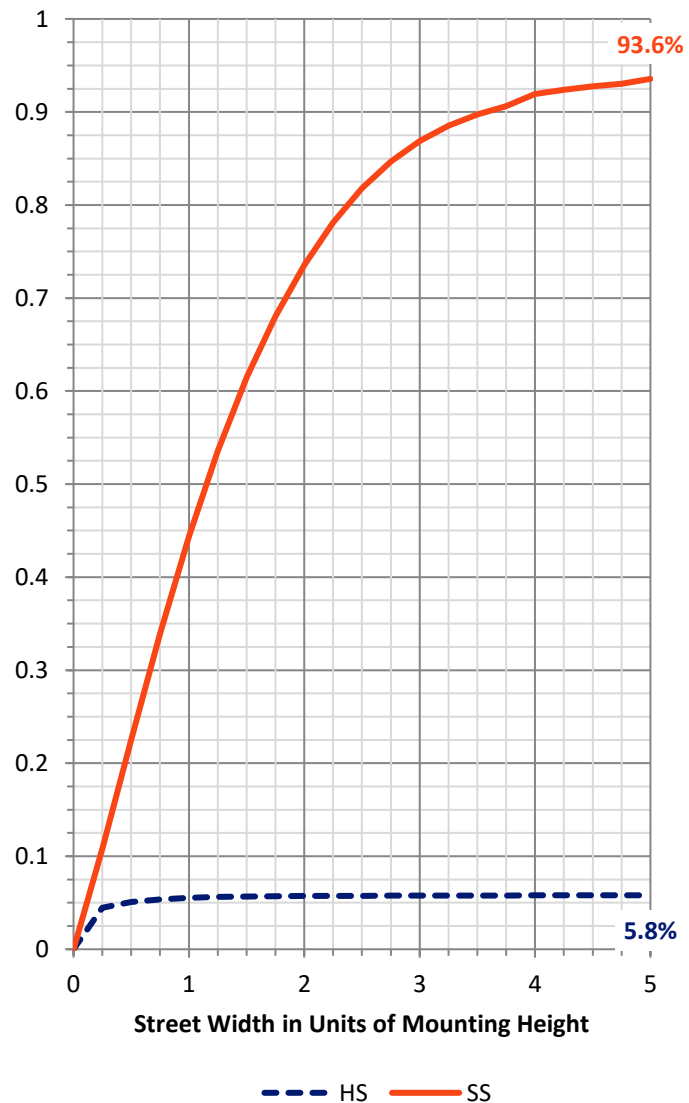
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1250.7	0.0	1250.7
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	20127.3	0.0	20127.3
	% Fixture	94.1	0.0	94.1
Total	Lumens	21378.0	0.0	21378.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.0	1.2
10°-20°	636.8	3.0
20°-30°	1072.7	5.0
30°-40°	1756.0	8.2
40°-50°	3040.5	14.2
50°-60°	4789.0	22.4
60°-70°	6254.3	29.3
70°-80°	3221.2	15.1
80°-90°	348.4	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°	21378.0	100.0
0°-180°	21378.0	100.0

Coefficient of Utilization



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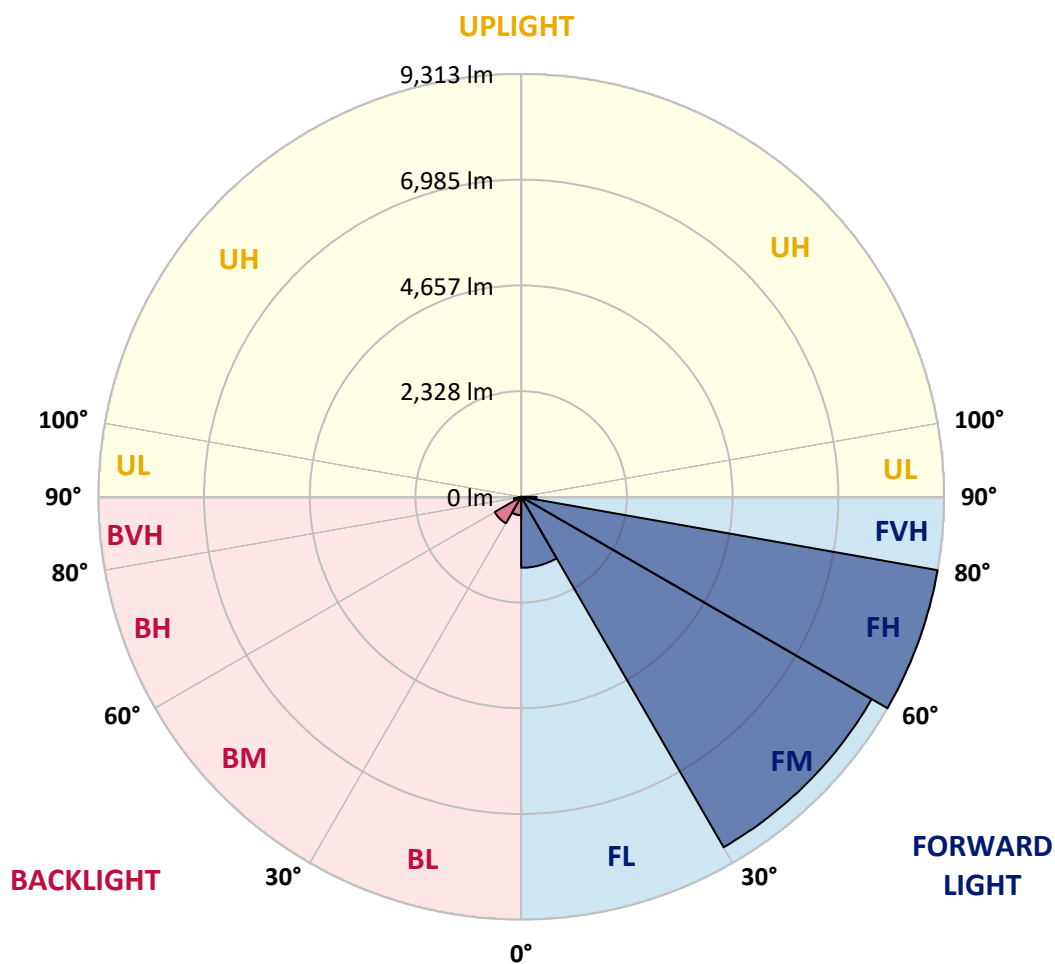
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1563.3	7.3			
FM	(30°-60°)	8913.3	41.7			
FH	(60°-80°)	9313.1	43.6			G4/12000
FVH	(80°-90°)	337.5	1.6			G3/500
BL	(0°-30°)	405.2	1.9	B1/500		
BM	(30°-60°)	672.2	3.1	B1/1000		
BH	(60°-80°)	162.4	0.8	B1/500		G1/500
BVH	(80°-90°)	10.9	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°	3194.0	3194.0	3194.0	3194.0	3194.0	3194.0	3194.0	3194.0	3194.0	3194.0	3194.0
2.5°	3507.0	3487.9	3476.5	3461.2	3442.1	3425.6	3419.2	3372.1	3327.6	3266.5	3196.5
5°	3571.9	3565.6	3545.2	3524.8	3501.9	3476.5	3462.5	3406.5	3342.9	3253.8	3131.6
7.5°	3578.3	3570.6	3545.2	3517.2	3485.4	3454.8	3430.7	3374.7	3316.1	3225.8	3076.9
10°	3568.1	3559.2	3540.1	3509.6	3470.1	3440.8	3416.7	3363.2	3313.6	3232.2	3066.7
12.5°	3556.6	3547.7	3538.8	3523.6	3489.2	3468.8	3448.5	3397.6	3353.0	3284.3	3103.6
15°	3568.1	3563.0	3573.2	3566.8	3547.7	3529.9	3509.6	3463.8	3423.0	3365.8	3171.1
17.5°	3616.5	3616.5	3648.3	3652.1	3634.3	3608.8	3579.6	3533.7	3499.4	3451.0	3251.2
20°	3729.7	3725.9	3766.6	3774.2	3731.0	3691.5	3648.3	3592.3	3565.6	3535.0	3330.1
22.5°	3924.4	3906.6	3930.8	3923.1	3837.9	3776.8	3723.3	3654.6	3640.6	3626.6	3417.9
25°	4177.6	4167.4	4184.0	4108.9	3958.8	3876.0	3812.4	3734.8	3734.8	3748.8	3517.2
27.5°	4545.4	4507.2	4451.2	4318.9	4093.6	3988.0	3919.3	3836.6	3858.2	3910.4	3648.3
30°	4922.0	4880.0	4751.5	4547.9	4257.8	4147.1	4066.9	3980.4	4031.3	4126.7	3823.9
32.5°	5293.6	5246.5	5064.6	4807.5	4493.2	4382.5	4304.9	4209.4	4294.7	4455.0	4080.9
35°	5653.7	5611.7	5401.8	5098.9	4806.2	4714.6	4643.4	4560.7	4670.1	4894.0	4443.6
37.5°	6058.4	6012.6	5756.8	5428.5	5186.7	5120.6	5068.4	4985.7	5176.5	5504.8	4948.8
40°	6555.9	6478.3	6133.5	5806.4	5627.0	5595.2	5559.6	5548.1	5844.6	6298.9	5621.9
42.5°	7126.0	6998.8	6527.9	6204.7	6110.6	6133.5	6124.6	6175.5	6680.6	7286.4	6441.4
45°	7696.1	7531.9	6967.0	6629.7	6642.5	6722.6	6772.3	6975.9	7727.9	8418.9	7323.3
47.5°	8179.7	8018.0	7388.2	7089.1	7241.8	7399.6	7534.5	7920.1	8804.4	9533.6	8009.1
50°	8593.2	8440.5	7834.8	7594.3	7937.9	8192.4	8411.2	8982.6	9962.4	10382.4	8490.1
52.5°	8931.7	8829.9	8298.0	8173.3	8733.2	9106.0	9426.7	10111.3	10988.1	11072.1	8864.3
55°	9261.3	9188.7	8795.5	8861.7	9667.2	10174.9	10580.9	11308.7	11871.2	11647.2	9223.1
57.5°	9640.5	9574.3	9363.1	9734.6	10895.2	11534.0	11976.8	12370.0	12648.7	12235.1	9561.6
60°	10027.3	9989.2	9994.2	10704.3	12305.1	12918.5	13162.8	13264.6	13412.2	12788.7	9580.7
62.5°	10396.4	10468.9	10715.7	11783.4	13655.2	14126.1	14249.5	14350.0	14177.0	12876.5	8851.5
65°	11021.2	11139.5	11728.7	13227.7	15140.2	15644.2	15771.4	15426.6	14297.8	11741.4	7199.8
67.5°	11326.6	11542.9	12594.0	14574.0	16580.7	17140.6	17093.5	15496.5	12830.7	8953.3	4620.5
69°	11262.9	11493.2	12793.7	14986.3	17059.2	17566.9	17267.9	14640.1	10930.8	6485.9	2836.4
70°	11011.0	11243.8	12690.7	14971.0	17120.3	17522.4	16944.7	13582.7	9242.2	4742.6	1773.9
72.5°	9195.1	9396.2	11266.7	13531.8	15771.4	15444.4	14175.7	9410.2	4503.4	1291.6	399.6
75°	5660.1	5772.1	8084.2	10194.0	11911.9	11072.1	9444.5	4681.5	1342.5	365.2	221.4
77.5°	2990.4	3041.3	4425.8	6008.8	7551.0	6248.0	4840.6	1826.0	618.4	229.1	160.3
80°	1767.5	1805.7	2383.4	2747.3	3267.8	2729.5	1935.5	1121.1	442.8	143.8	142.5
82.5°	1011.6	1035.8	1728.1	1527.0	1287.8	1099.4	963.3	1062.5	266.0	96.7	147.6
85°	371.6	376.7	972.2	1161.8	766.0	455.6	478.5	880.6	71.3	61.1	115.8
87.5°	173.1	169.2	500.1	711.3	447.9	288.9	372.8	193.4	28.0	39.4	31.8
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°	3194.0	3194.0	3194.0	3194.0	3194.0	3194.0	3194.0	3194.0	3194.0	3194.0	3194.0
2.5°	3155.8	3108.7	3023.5	2935.7	2846.6	2777.9	2710.4	2657.0	2639.2	2606.1	2608.6
5°	3059.1	2972.6	2794.4	2613.7	2425.4	2270.1	2123.8	2005.5	1948.2	1889.7	1889.7
7.5°	2975.1	2849.1	2570.5	2276.5	1972.4	1716.6	1486.3	1313.2	1217.8	1141.4	1140.2
10°	2943.3	2772.8	2383.4	1962.2	1538.5	1189.8	916.2	740.6	650.2	591.7	589.2
12.5°	2957.3	2746.1	2239.6	1672.1	1140.2	764.8	530.6	417.4	379.2	361.4	361.4
15°	2998.0	2738.4	2095.8	1388.3	805.5	478.5	352.5	321.9	319.4	319.4	319.4
17.5°	3047.6	2741.0	1948.2	1112.2	548.4	342.3	304.1	300.3	302.9	302.9	302.9
20°	3098.5	2742.2	1789.1	856.4	386.8	297.8	286.3	285.0	287.6	287.6	288.9
22.5°	3160.9	2748.6	1630.1	640.1	319.4	281.2	272.3	272.3	273.6	273.6	272.3
25°	3232.2	2761.3	1464.7	474.6	291.4	269.8	262.1	260.9	262.1	260.9	259.6
27.5°	3321.2	2779.1	1280.1	371.6	278.7	258.3	252.0	252.0	250.7	249.4	248.1
30°	3433.2	2799.5	1072.7	315.6	266.0	248.1	241.8	240.5	239.2	236.7	236.7
32.5°	3603.7	2844.0	867.8	286.3	252.0	234.1	229.1	229.1	226.5	224.0	222.7
35°	3865.9	2931.8	684.6	268.5	236.7	218.9	212.5	212.5	210.0	208.7	207.4
37.5°	4228.5	3065.5	531.9	252.0	221.4	202.3	196.0	194.7	192.1	189.6	188.3
40°	4710.8	3230.9	418.7	236.7	206.1	185.8	180.7	178.2	173.1	169.2	169.2
42.5°	5316.5	3419.2	339.8	220.1	188.3	170.5	166.7	162.9	154.0	150.2	148.9
45°	5950.2	3588.5	287.6	201.1	170.5	155.2	152.7	146.3	134.9	131.1	131.1
47.5°	6407.1	3627.9	253.2	183.2	154.0	138.7	137.4	126.0	115.8	113.3	112.0
50°	6692.1	3550.3	225.2	165.4	138.7	123.4	119.6	105.6	99.3	96.7	95.4
52.5°	6884.2	3411.6	202.3	150.2	124.7	109.4	100.5	90.3	85.3	82.7	82.7
55°	7038.2	3215.6	179.4	136.2	113.3	98.0	85.3	77.6	72.5	70.0	70.0
57.5°	7081.5	2949.7	156.5	124.7	101.8	86.5	72.5	67.4	61.1	59.8	59.8
60°	6767.2	2469.9	138.7	110.7	91.6	75.1	63.6	57.3	50.9	49.6	48.4
62.5°	5938.8	1911.3	122.2	98.0	80.2	64.9	54.7	47.1	42.0	42.0	42.0
65°	4530.1	1281.4	106.9	85.3	70.0	54.7	47.1	38.2	35.6	35.6	36.9
67.5°	2711.7	697.3	91.6	72.5	59.8	45.8	39.4	33.1	31.8	33.1	33.1
69°	1589.4	409.7	82.7	64.9	52.2	40.7	34.4	29.3	31.8	33.1	33.1
70°	981.1	276.1	76.4	58.5	47.1	36.9	31.8	28.0	30.5	31.8	31.8
72.5°	273.6	142.5	61.1	45.8	38.2	30.5	25.5	25.5	29.3	30.5	30.5
75°	178.2	105.6	47.1	34.4	29.3	24.2	21.6	24.2	28.0	29.3	29.3
77.5°	147.6	86.5	38.2	28.0	24.2	22.9	20.4	21.6	25.5	26.7	26.7
80°	134.9	61.1	30.5	25.5	21.6	20.4	19.1	17.8	22.9	24.2	24.2
82.5°	128.5	48.4	26.7	22.9	20.4	17.8	16.5	17.8	20.4	21.6	22.9
85°	80.2	31.8	24.2	21.6	17.8	16.5	16.5	16.5	19.1	20.4	20.4
87.5°	29.3	25.5	21.6	17.8	15.3	15.3	15.3	15.3	16.5	19.1	19.1
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)