

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: P192841

Luminaire Tested: **GLEON-AF-03-LED-E1-SL2-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192841
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-SL2-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18887.7 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 191
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

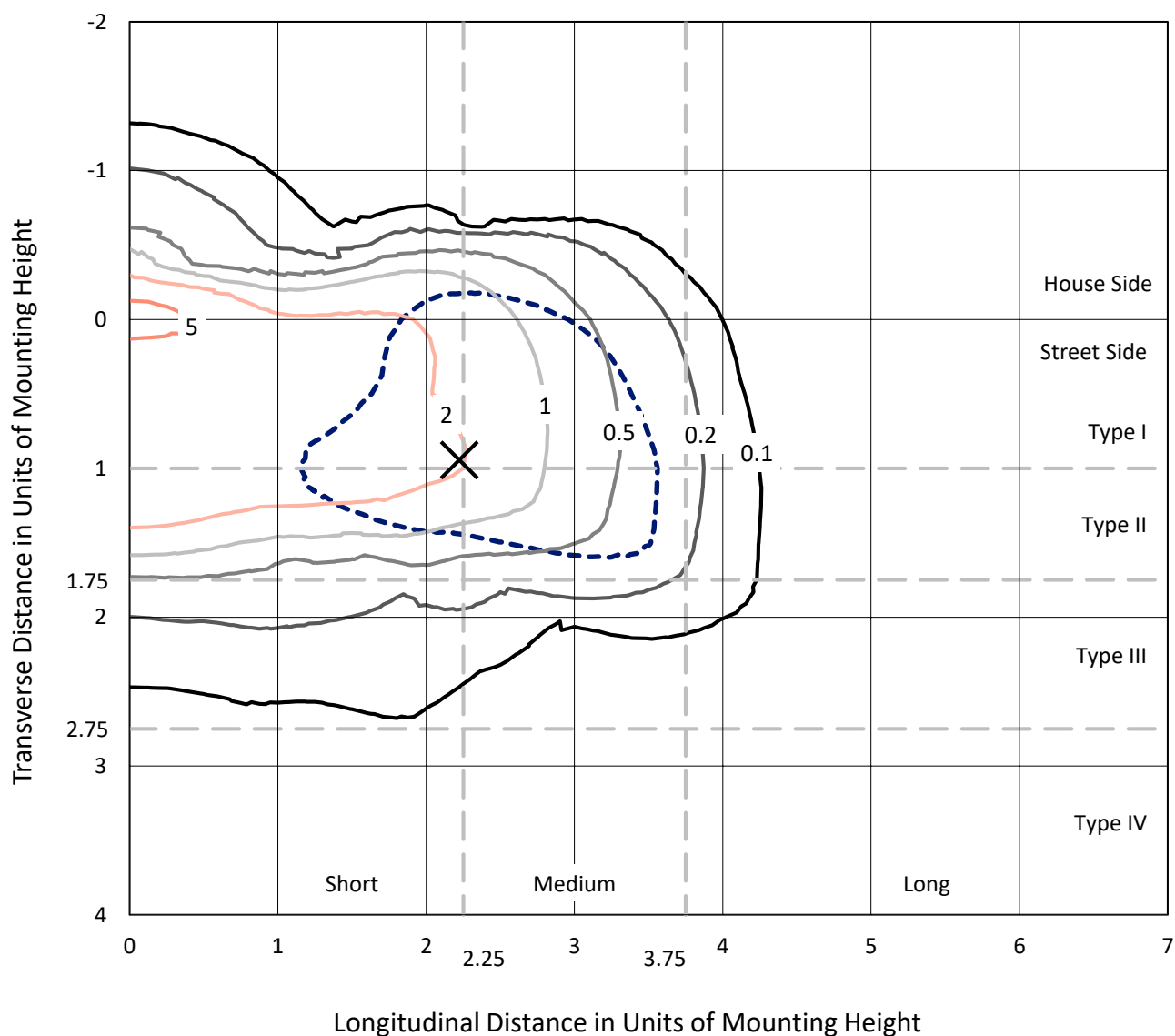


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

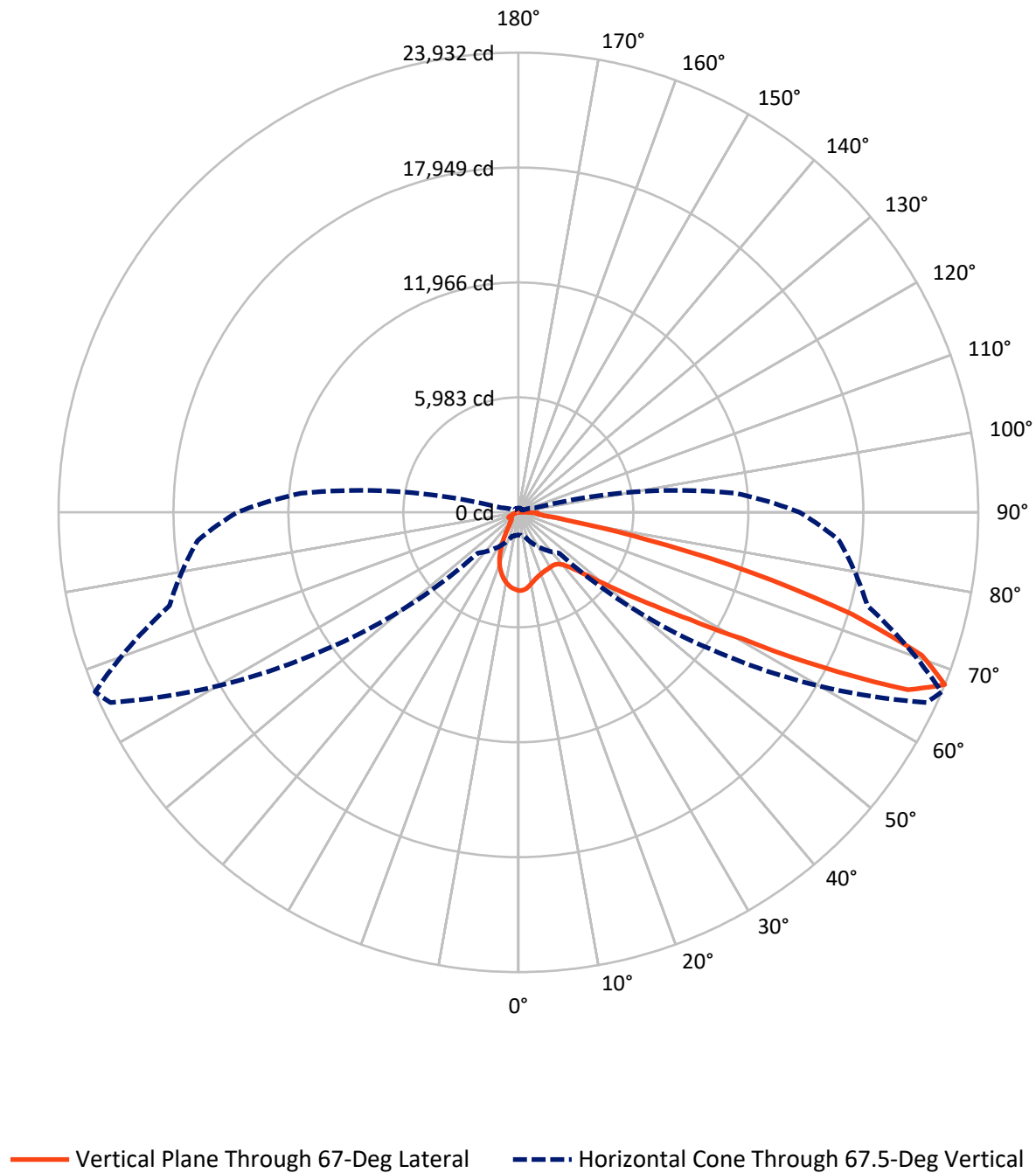


Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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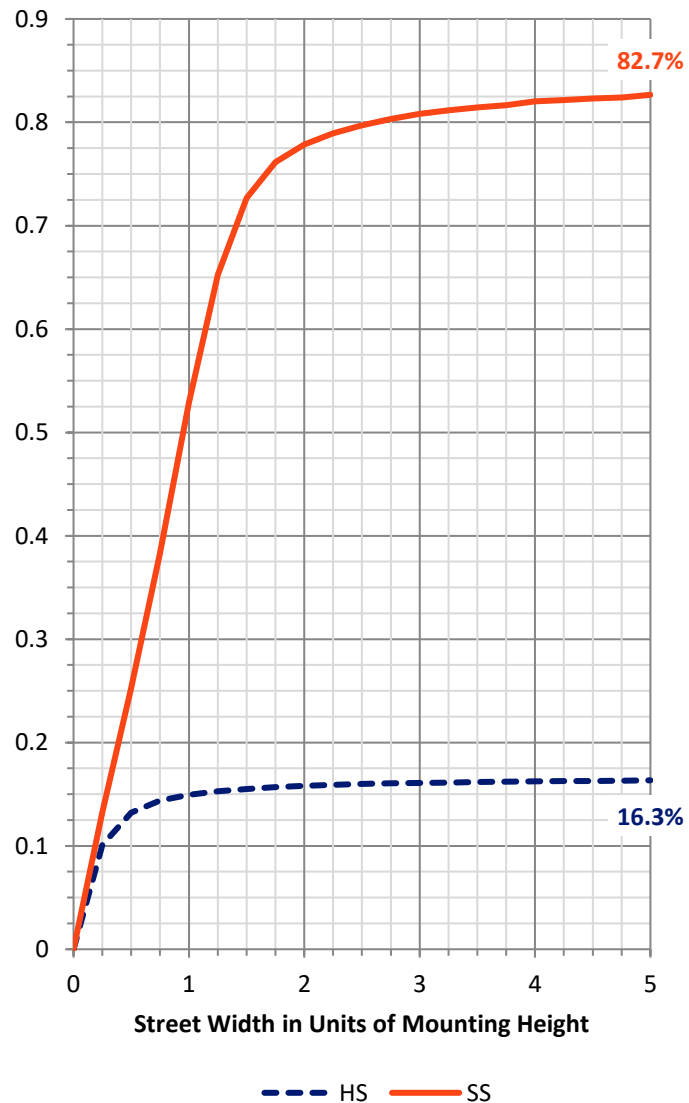
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3129.5	0.0	3129.5
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	15758.2	0.0	15758.2
	% Fixture	83.4	0.0	83.4
Total	Lumens	18887.7	0.0	18887.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.6	1.8
10°-20°	804.2	4.3
20°-30°	1090.2	5.8
30°-40°	1549.8	8.2
40°-50°	2592.8	13.7
50°-60°	4101.8	21.7
60°-70°	5225.3	27.7
70°-80°	2737.0	14.5
80°-90°	439.0	2.3
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°	18887.7	100.0
0°-180°	18887.7	100.0

Coefficient of Utilization



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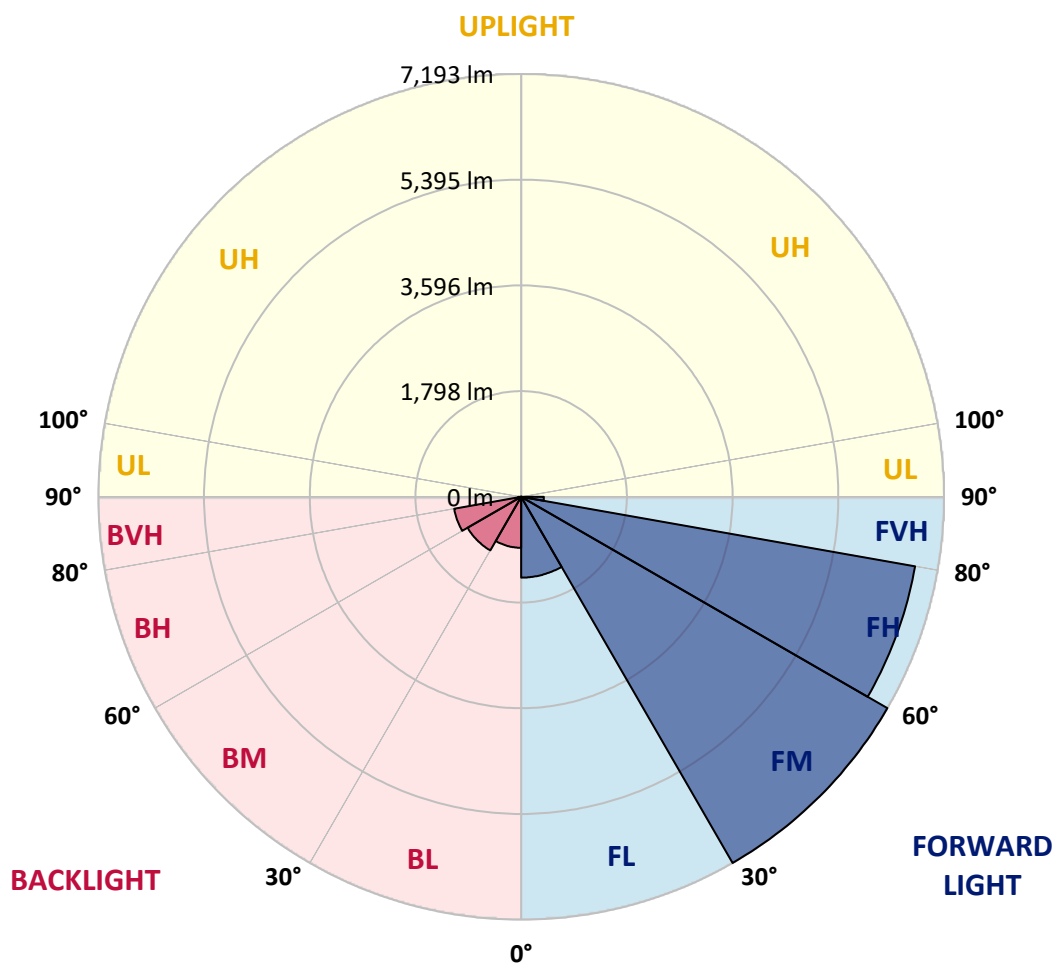
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1374.6	7.3			
FM	(30°-60°)	7192.8	38.1			
FH	(60°-80°)	6804.8	36.0			G3/7500
FVH	(80°-90°)	386.0	2.0			G3/500
BL	(0°-30°)	867.4	4.6	B2/1000		
BM	(30°-60°)	1051.6	5.6	B2/2500		
BH	(60°-80°)	1157.5	6.1	B3/2500		G3/2500
BVH	(80°-90°)	53.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4074.1	4074.1	4074.1	4074.1	4074.1	4074.1	4074.1	4074.1	4074.1	4074.1	4074.1
2.5°	3906.3	3912.9	3933.4	3946.5	4005.1	4030.2	4047.9	4065.6	4068.4	4076.8	4068.4
5°	3496.6	3510.5	3548.7	3591.6	3705.2	3794.6	3888.6	3986.5	4004.2	4067.5	4085.2
7.5°	3178.9	3175.2	3206.9	3258.1	3374.5	3498.4	3663.3	3858.0	3896.0	4038.7	4107.6
10°	2947.0	2944.2	2977.8	3030.9	3141.6	3258.9	3445.3	3711.6	3765.7	3993.0	4129.0
12.5°	2775.6	2776.6	2810.0	2868.7	2981.4	3099.8	3288.8	3570.1	3639.1	3939.9	4151.3
15°	2662.0	2669.4	2696.4	2758.9	2868.7	2987.0	3172.5	3463.9	3541.2	3898.0	4176.4
17.5°	2623.8	2635.9	2645.2	2690.8	2784.9	2903.2	3084.8	3385.7	3467.7	3869.1	4198.9
20°	2659.2	2673.1	2655.4	2671.3	2730.9	2835.3	3015.9	3324.2	3408.1	3836.5	4201.7
22.5°	2811.0	2824.1	2771.9	2726.2	2722.5	2785.9	2959.1	3275.8	3362.5	3812.3	4202.5
25°	3078.4	3086.7	2999.1	2892.9	2789.6	2768.2	2919.1	3242.3	3334.5	3790.9	4184.8
27.5°	3406.1	3412.7	3312.0	3155.6	2948.0	2810.0	2905.1	3222.7	3318.6	3772.2	4155.0
30°	3804.9	3835.5	3700.5	3503.1	3200.3	2933.9	2933.1	3212.4	3300.9	3740.6	4096.3
32.5°	4212.8	4225.8	4132.7	3932.5	3540.3	3151.9	3011.3	3219.9	3296.3	3702.4	4021.9
35°	4626.4	4643.1	4582.6	4421.4	4005.1	3471.3	3164.0	3263.7	3325.2	3689.3	3969.7
37.5°	5162.0	5184.3	5100.4	4914.2	4570.5	3904.5	3418.2	3373.6	3413.7	3726.7	3953.9
40°	6008.6	5998.4	5753.4	5475.8	5188.9	4458.7	3781.6	3559.8	3583.1	3846.8	4002.2
42.5°	6994.0	6968.9	6547.0	6111.0	5868.9	5129.2	4262.2	3883.1	3878.3	4083.3	4172.7
45°	7780.2	7759.6	7379.6	6842.2	6648.4	5893.1	4883.5	4364.6	4330.2	4458.7	4487.6
47.5°	8205.8	8206.7	7987.8	7549.2	7544.5	6863.6	5681.7	5061.3	5001.7	5062.2	5031.5
50°	8056.8	8076.3	8053.1	7913.3	8362.2	8135.9	6724.0	6032.8	5912.7	5972.2	5854.0
52.5°	7335.8	7361.1	7498.8	7713.0	8706.0	9673.7	8255.2	7239.9	7100.2	7078.8	6947.5
55°	6058.0	6088.7	6370.0	6952.0	8420.1	10706.7	10671.3	8778.7	8556.0	8353.9	8298.0
57.5°	4175.6	4226.8	4679.5	5543.9	7495.0	11018.7	13548.3	10972.2	10519.5	9813.4	9826.4
60°	2353.7	2413.3	2947.0	3732.2	5628.6	10679.6	15737.2	14294.5	13338.8	11522.6	11619.4
62.5°	1496.8	1561.1	1966.2	2593.0	3377.3	8854.1	16634.1	18913.4	17699.7	13629.4	13724.4
65°	1211.8	1239.8	1430.6	2140.4	2452.5	5334.2	15953.3	22718.2	22265.5	16303.5	15860.2
67.5°	1183.0	1192.2	1290.9	1796.7	2351.8	2998.2	12725.0	23429.8	23931.8	18800.7	16749.7
70°	1169.0	1201.6	1454.9	1714.8	2252.2	2528.8	7646.9	21479.4	22272.1	19453.6	15565.8
72.5°	567.3	565.4	732.1	1550.8	2537.2	2622.9	3928.8	17379.4	18174.7	16854.0	12791.2
75°	457.4	418.3	399.6	568.1	2439.4	2708.5	2503.6	11958.4	12534.1	11299.9	7863.1
77.5°	434.1	387.5	354.9	355.7	1031.1	2872.5	2120.8	6618.6	6786.3	5104.1	2154.4
80°	359.6	316.7	293.4	330.6	499.2	2735.6	2293.2	2995.5	2748.6	1253.6	717.2
82.5°	249.6	227.3	220.7	277.5	399.6	1949.4	2666.7	1609.5	1349.6	627.8	442.4
85°	159.3	136.0	150.9	202.1	311.1	899.7	2746.8	1254.7	997.5	398.7	249.6
87.5°	73.5	59.6	74.6	111.8	203.0	310.2	2613.6	1409.2	1027.4	210.6	157.5
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°	4074.1	4074.1	4074.1	4074.1	4074.1	4074.1	4074.1	4074.1	4074.1	4074.1	4074.1
2.5°	4075.9	4058.2	4044.2	4018.1	3989.3	3961.3	3936.2	3904.5	3895.2	3886.8	3899.8
5°	4088.9	4071.2	4019.9	3939.9	3851.4	3768.5	3685.7	3614.9	3571.0	3546.9	3560.8
7.5°	4108.4	4083.3	3977.1	3830.0	3670.7	3525.5	3375.4	3255.3	3166.8	3125.0	3137.1
10°	4126.1	4077.8	3904.5	3683.7	3451.0	3234.8	2998.2	2802.6	2657.3	2580.9	2599.6
12.5°	4133.6	4056.4	3803.0	3501.2	3181.7	2865.0	2516.7	2224.2	2015.7	1939.3	1923.4
15°	4141.0	4032.1	3691.3	3293.5	2856.7	2408.6	1920.6	1570.4	1397.1	1358.9	1350.6
17.5°	4142.9	3990.1	3564.6	3068.1	2475.7	1865.6	1313.3	1090.7	1091.6	1153.1	1160.6
20°	4123.3	3927.8	3410.8	2787.8	2019.3	1290.1	901.6	863.4	1004.1	1157.7	1176.4
22.5°	4078.6	3845.0	3236.7	2460.8	1496.8	849.5	697.6	739.5	921.2	1109.3	1130.8
25°	4021.9	3744.4	3030.9	2081.7	991.0	607.3	585.0	636.1	759.2	884.9	896.9
27.5°	3944.6	3625.1	2799.9	1647.6	643.6	500.2	515.0	549.6	599.9	655.7	661.3
30°	3845.0	3482.5	2553.1	1201.6	486.2	449.8	471.4	489.9	511.4	543.0	545.9
32.5°	3730.3	3345.6	2299.7	830.0	431.2	423.8	440.6	449.8	466.6	486.2	488.1
35°	3634.4	3215.3	2037.0	586.8	408.0	404.3	415.4	419.1	435.0	456.3	458.3
37.5°	3579.5	3109.1	1765.9	473.2	392.1	386.6	393.0	393.0	415.4	447.1	451.8
40°	3583.1	3050.4	1494.8	427.5	379.1	371.6	372.6	372.6	401.4	436.0	438.6
42.5°	3684.7	3065.3	1254.7	409.8	368.9	360.4	355.7	358.6	382.9	405.2	407.0
45°	3923.2	3170.6	1029.2	398.7	358.6	355.7	345.6	344.6	353.9	364.2	364.2
47.5°	4314.3	3378.3	876.5	391.1	350.1	349.3	337.2	325.0	324.2	327.9	327.9
50°	4950.5	3735.9	774.0	382.9	344.6	337.2	323.2	304.7	298.1	300.9	300.9
52.5°	5904.3	4373.9	734.9	371.6	332.4	320.4	304.7	285.9	280.4	281.4	281.4
55°	7155.2	5353.8	729.3	358.6	319.5	299.9	287.0	272.9	266.4	268.2	268.2
57.5°	8683.6	6708.9	829.0	338.1	301.8	279.3	271.9	262.7	258.0	260.8	259.8
60°	10541.8	8482.5	1229.5	316.7	284.1	260.8	260.8	253.4	249.6	252.4	251.6
62.5°	12682.2	10519.5	1728.7	300.9	265.5	246.0	249.6	246.0	242.1	244.0	243.1
65°	14580.4	11846.7	1618.7	288.8	246.8	231.9	238.4	236.5	233.9	235.7	234.7
67.5°	14635.4	11354.9	909.0	275.7	229.1	218.0	227.3	226.3	224.4	226.3	225.4
70°	13061.3	9588.0	512.3	251.6	210.6	201.1	214.2	213.3	211.4	215.1	214.2
72.5°	10464.6	6957.7	374.4	221.7	191.9	183.4	198.5	197.4	197.4	203.0	200.3
75°	6021.6	3580.3	299.0	190.0	172.3	165.7	178.8	179.7	181.6	189.1	183.4
77.5°	1716.6	1115.9	244.0	161.1	148.0	145.4	158.3	160.2	161.1	169.6	162.0
80°	638.1	514.2	201.1	135.1	121.1	122.1	134.2	136.9	137.8	146.2	136.9
82.5°	407.0	339.0	163.1	104.4	95.0	94.1	108.9	112.7	112.7	113.6	108.0
85°	237.5	203.0	122.9	75.5	67.0	64.3	81.1	87.5	84.7	82.9	79.2
87.5°	159.3	139.8	75.5	41.9	36.3	34.4	47.5	52.1	50.3	47.5	44.7
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)