

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: P192822

Luminaire Tested: **GLEON-AF-04-LED-E1-SL2-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192822
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-04-LED-E1-SL2-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA 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: 18380.7 lumens
Efficiency: N/A
Efficacy: 107.5 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): 171
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

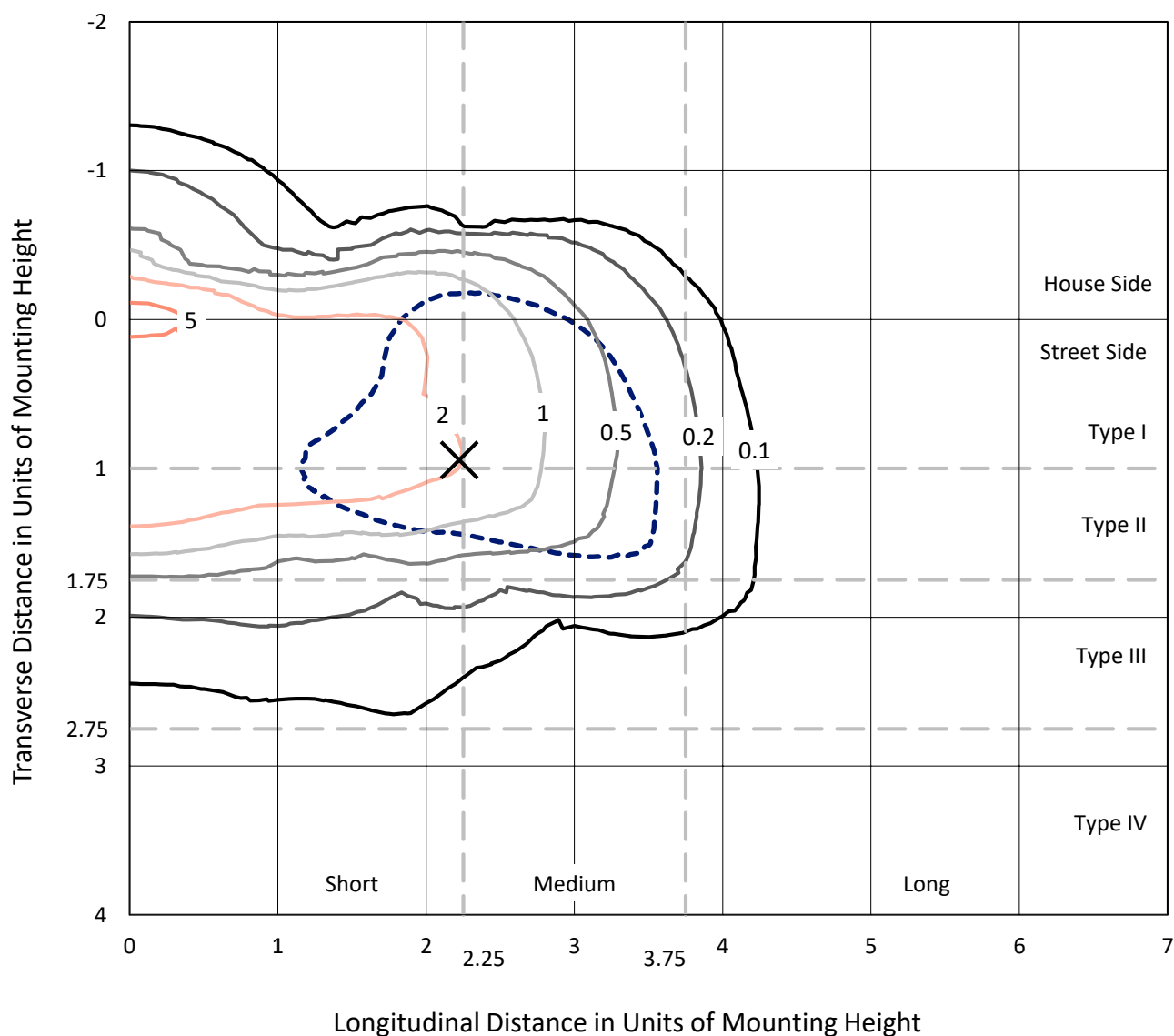


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

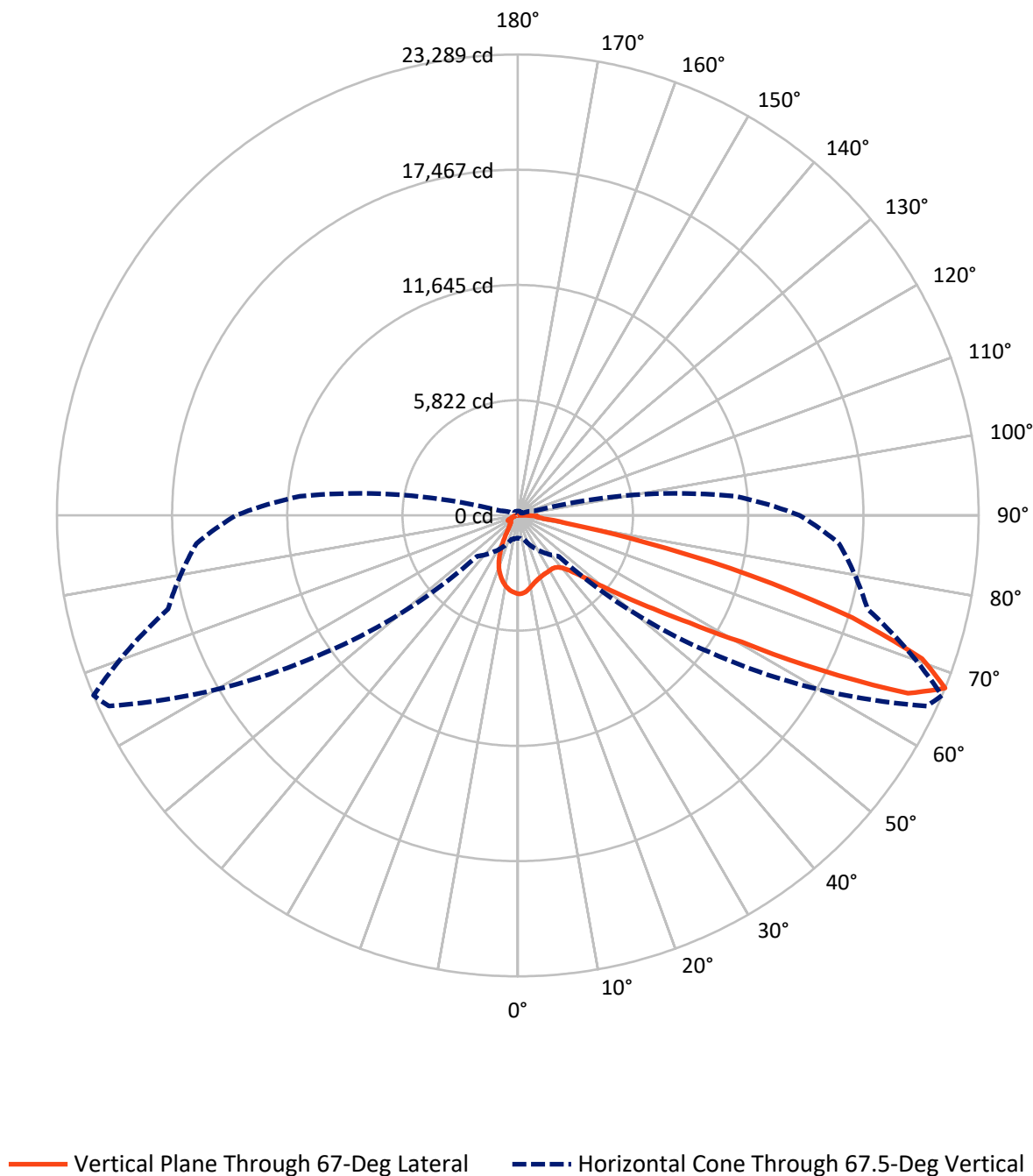


Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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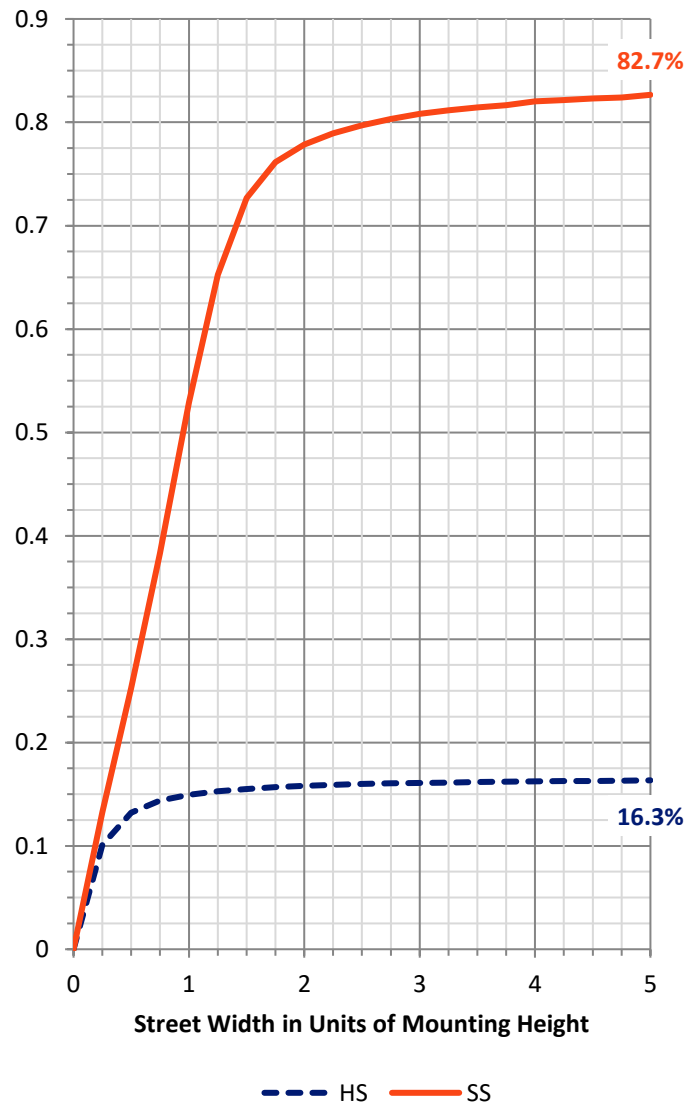
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3045.5	0.0	3045.5
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	15335.2	0.0	15335.2
	% Fixture	83.4	0.0	83.4
Total	Lumens	18380.7	0.0	18380.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.2	1.8
10°-20°	782.6	4.3
20°-30°	1060.9	5.8
30°-40°	1508.2	8.2
40°-50°	2523.2	13.7
50°-60°	3991.7	21.7
60°-70°	5085.0	27.7
70°-80°	2663.5	14.5
80°-90°	427.2	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°	18380.7	100.0
0°-180°	18380.7	100.0

Coefficient of Utilization



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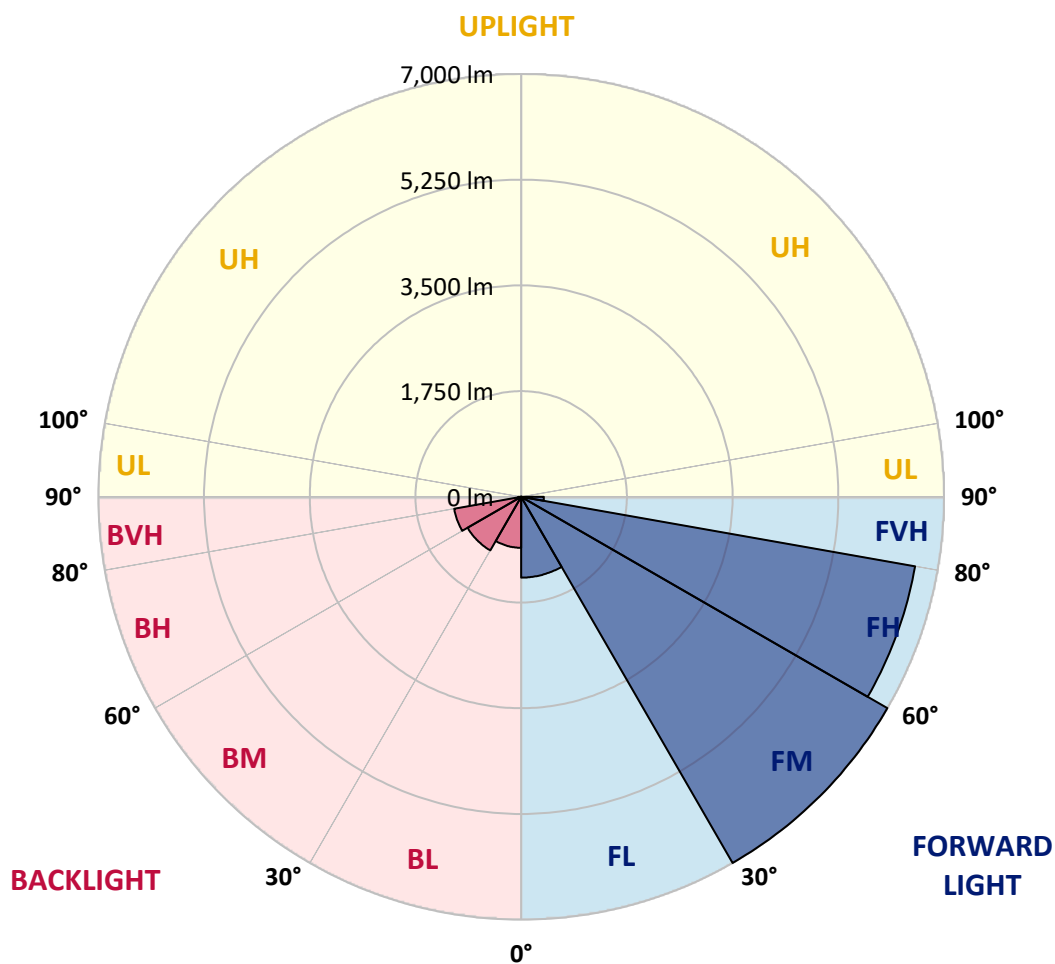
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1337.7	7.3			
FM	(30°-60°)	6999.7	38.1			
FH	(60°-80°)	6622.2	36.0			G3/7500
FVH	(80°-90°)	375.6	2.0			G3/500
BL	(0°-30°)	844.1	4.6	B2/1000		
BM	(30°-60°)	1023.4	5.6	B2/2500		
BH	(60°-80°)	1126.4	6.1	B3/2500		G3/2500
BVH	(80°-90°)	51.6	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°	3964.7	3964.7	3964.7	3964.7	3964.7	3964.7	3964.7	3964.7	3964.7	3964.7	3964.7
2.5°	3801.5	3807.9	3827.8	3840.5	3897.6	3922.1	3939.4	3956.5	3959.2	3967.4	3959.2
5°	3402.7	3416.3	3453.4	3495.1	3605.8	3692.8	3784.3	3879.5	3896.7	3958.4	3975.5
7.5°	3093.5	3090.0	3120.8	3170.6	3283.9	3404.5	3564.9	3754.3	3791.6	3930.3	3997.2
10°	2867.9	2865.3	2897.8	2949.5	3057.3	3171.6	3352.8	3612.1	3664.7	3885.8	4018.1
12.5°	2701.1	2702.0	2734.6	2791.8	2901.5	3016.5	3200.5	3474.3	3541.4	3834.1	4039.9
15°	2590.5	2597.7	2624.1	2684.8	2791.8	2906.9	3087.2	3370.9	3446.1	3793.4	4064.3
17.5°	2553.4	2565.2	2574.2	2618.6	2710.1	2825.3	3002.0	3294.8	3374.6	3765.3	4086.1
20°	2587.8	2601.5	2584.2	2599.6	2657.6	2759.2	2935.0	3235.0	3316.6	3733.5	4088.8
22.5°	2735.6	2748.3	2697.5	2653.1	2649.4	2711.0	2879.6	3187.8	3272.2	3710.0	4089.8
25°	2995.7	3003.9	2918.7	2815.3	2714.8	2693.9	2840.7	3155.2	3245.0	3689.1	4072.5
27.5°	3314.8	3321.2	3223.2	3071.0	2868.8	2734.6	2827.1	3136.2	3229.6	3671.0	4043.5
30°	3702.7	3732.7	3601.1	3409.0	3114.4	2855.2	2854.3	3126.2	3212.3	3640.2	3986.5
32.5°	4099.7	4112.4	4021.8	3827.0	3445.3	3067.4	2930.5	3133.4	3207.9	3603.1	3913.8
35°	4502.1	4518.5	4459.5	4302.7	3897.6	3378.2	3079.2	3176.0	3235.9	3590.4	3863.2
37.5°	5023.4	5045.1	4963.5	4782.3	4447.8	3799.7	3326.5	3283.0	3322.0	3626.6	3847.8
40°	5847.3	5837.2	5599.0	5328.8	5049.6	4339.0	3680.1	3464.3	3487.0	3743.6	3894.9
42.5°	6806.3	6781.8	6371.2	5947.0	5711.3	4991.6	4147.8	3778.8	3774.4	3973.8	4060.7
45°	7571.3	7551.4	7181.5	6658.6	6470.0	5734.9	4752.3	4247.5	4213.9	4339.0	4367.1
47.5°	7985.5	7986.5	7773.5	7346.5	7342.0	6679.3	5529.2	4925.5	4867.5	4926.4	4896.5
50°	7840.6	7859.6	7836.8	7700.9	8137.8	7917.6	6543.4	5870.8	5753.9	5811.9	5696.8
52.5°	7138.9	7163.4	7297.5	7506.0	8472.3	9414.0	8033.7	7045.6	6909.7	6888.8	6761.0
55°	5895.3	5925.2	6199.0	6765.6	8194.0	10419.3	10384.9	8543.0	8326.3	8129.7	8075.3
57.5°	4063.5	4113.3	4553.8	5395.0	7293.9	10722.9	13184.8	10677.6	10237.0	9550.1	9562.7
60°	2290.5	2348.5	2867.9	3632.0	5477.5	10393.0	15314.9	13910.8	12980.8	11213.3	11307.6
62.5°	1456.7	1519.1	1913.4	2523.5	3286.6	8616.4	16187.8	18405.7	17224.6	13263.6	13356.1
65°	1179.2	1206.4	1392.3	2082.9	2386.5	5191.0	15525.0	22108.4	21667.9	15866.0	15434.5
67.5°	1151.1	1160.3	1256.3	1748.4	2288.7	2917.8	12383.5	22800.9	23289.4	18296.0	16300.1
70°	1137.6	1169.3	1415.8	1668.7	2191.7	2460.9	7441.6	20902.9	21674.2	18931.5	15148.0
72.5°	552.0	550.2	712.5	1509.2	2469.0	2552.6	3823.3	16912.8	17686.9	16401.7	12447.8
75°	445.0	407.0	388.9	553.0	2373.8	2635.9	2436.5	11637.5	12197.7	10996.6	7652.0
77.5°	422.4	377.1	345.4	346.3	1003.4	2795.4	2063.9	6441.1	6604.1	4967.2	2096.5
80°	349.8	308.2	285.5	321.8	485.8	2662.1	2231.6	2915.0	2674.8	1220.0	697.9
82.5°	242.9	221.1	214.8	270.1	388.9	1897.2	2595.1	1566.3	1313.4	611.0	430.6
85°	155.0	132.3	146.9	196.6	302.7	875.6	2673.0	1221.0	970.8	388.0	242.9
87.5°	71.6	58.0	72.5	108.8	197.6	301.9	2543.4	1371.4	999.8	204.9	153.2
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°	3964.7	3964.7	3964.7	3964.7	3964.7	3964.7	3964.7	3964.7	3964.7	3964.7	3964.7
2.5°	3966.4	3949.2	3935.6	3910.3	3882.2	3855.0	3830.5	3799.7	3790.6	3782.4	3795.1
5°	3979.2	3962.0	3912.1	3834.1	3748.0	3667.4	3586.7	3517.8	3475.2	3451.6	3465.2
7.5°	3998.3	3973.8	3870.4	3727.2	3572.2	3430.7	3284.9	3168.0	3081.7	3041.0	3052.8
10°	4015.4	3968.3	3799.7	3584.9	3358.3	3148.0	2917.8	2727.4	2586.0	2511.7	2529.8
12.5°	4022.7	3947.4	3700.9	3407.2	3096.3	2788.2	2449.1	2164.5	1961.5	1887.1	1871.7
15°	4029.9	3923.8	3592.1	3205.1	2780.0	2344.0	1869.0	1528.2	1359.6	1322.5	1314.3
17.5°	4031.7	3883.1	3468.9	2985.7	2409.2	1815.6	1278.0	1061.5	1062.3	1122.1	1129.4
20°	4012.6	3822.3	3319.3	2712.9	1965.1	1255.4	877.5	840.2	977.1	1126.7	1144.8
22.5°	3969.2	3741.7	3149.8	2394.8	1456.7	826.6	678.9	719.7	896.5	1079.6	1100.4
25°	3913.8	3643.8	2949.5	2025.8	964.4	591.0	569.2	619.1	738.7	861.1	872.9
27.5°	3838.8	3527.8	2724.7	1603.5	626.4	486.7	501.3	534.9	583.8	638.1	643.5
30°	3741.7	3389.1	2484.4	1169.3	473.2	437.8	458.7	476.8	497.6	528.5	531.1
32.5°	3630.2	3255.8	2237.9	807.7	419.7	412.5	428.8	437.8	454.1	473.2	474.9
35°	3536.8	3128.9	1982.3	571.0	397.0	393.4	404.3	407.9	423.3	444.1	446.0
37.5°	3483.4	3025.6	1718.5	460.4	381.7	376.2	382.5	382.5	404.3	435.1	439.7
40°	3487.0	2968.5	1454.8	416.1	368.9	361.6	362.5	362.5	390.7	424.3	426.8
42.5°	3585.8	2983.0	1221.0	398.8	358.9	350.8	346.3	349.0	372.6	394.3	396.1
45°	3817.8	3085.5	1001.6	388.0	349.0	346.3	336.3	335.4	344.3	354.4	354.4
47.5°	4198.5	3287.6	853.0	380.7	340.8	339.9	328.1	316.3	315.4	319.0	319.0
50°	4817.6	3635.6	753.3	372.6	335.4	328.1	314.5	296.4	290.1	292.9	292.9
52.5°	5745.7	4256.5	715.2	361.6	323.6	311.8	296.4	278.3	272.8	273.7	273.7
55°	6963.1	5210.1	709.7	349.0	311.0	291.8	279.1	265.6	259.3	261.0	261.0
57.5°	8450.5	6528.9	806.7	329.0	293.7	271.9	264.6	255.5	251.1	253.8	252.9
60°	10258.8	8254.7	1196.5	308.2	276.4	253.8	253.8	246.6	242.9	245.7	244.7
62.5°	12341.8	10237.0	1682.3	292.9	258.3	239.3	242.9	239.3	235.7	237.5	236.5
65°	14189.1	11528.7	1575.3	281.1	240.2	225.7	232.0	230.2	227.5	229.3	228.5
67.5°	14242.5	11050.2	884.7	268.3	223.0	212.1	221.1	220.2	218.4	220.2	219.4
70°	12710.6	9330.6	498.6	244.7	204.9	195.8	208.4	207.6	205.7	209.3	208.4
72.5°	10183.6	6770.9	364.4	215.7	186.8	178.5	193.1	192.2	192.2	197.6	194.9
75°	5860.0	3484.3	290.9	184.8	167.7	161.3	174.0	175.0	176.8	184.0	178.5
77.5°	1670.6	1085.9	237.5	156.8	144.1	141.4	154.0	155.9	156.8	165.0	157.8
80°	620.9	500.3	195.8	131.4	117.8	118.8	130.6	133.3	134.2	142.2	133.3
82.5°	396.1	330.0	158.7	101.5	92.5	91.6	106.1	109.7	109.7	110.6	105.1
85°	231.1	197.6	119.6	73.4	65.2	62.5	78.8	85.2	82.5	80.7	77.0
87.5°	155.0	135.9	73.4	40.8	35.4	33.6	46.2	50.8	48.9	46.2	43.4
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)