

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: P192831

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192831
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA 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: 17218.2 lumens
Efficiency: N/A
Efficacy: 103.7 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): 166
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

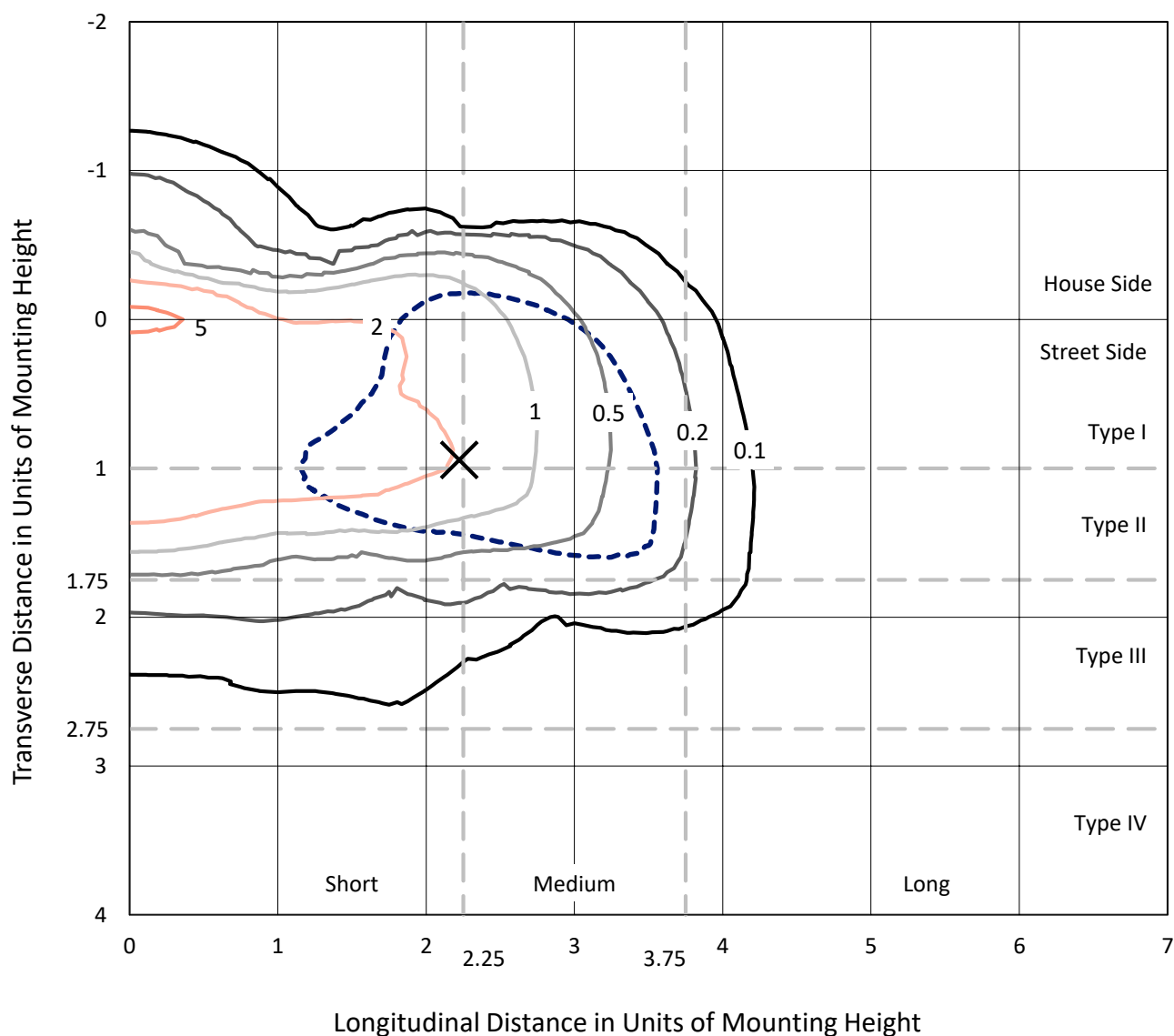


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

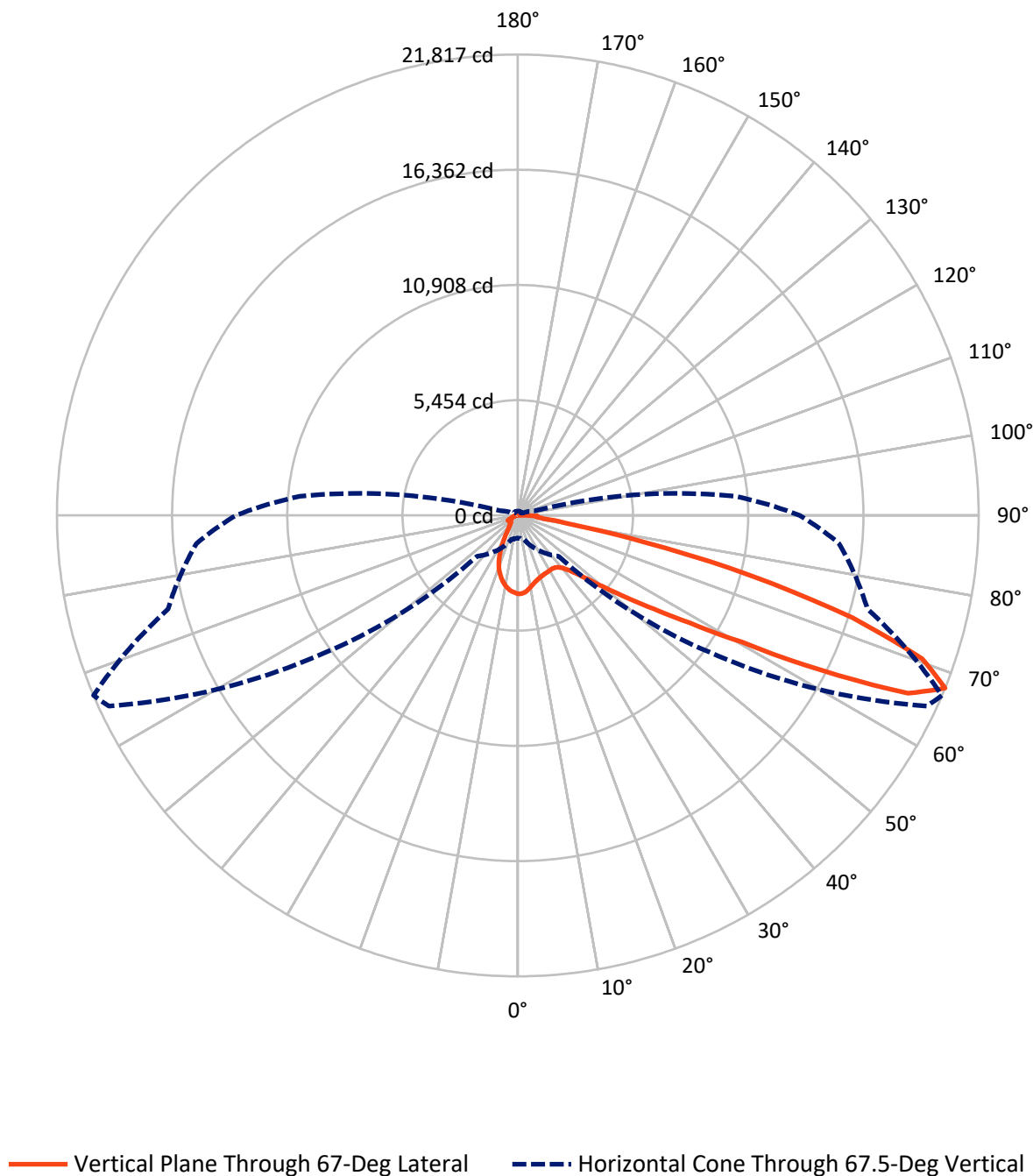


Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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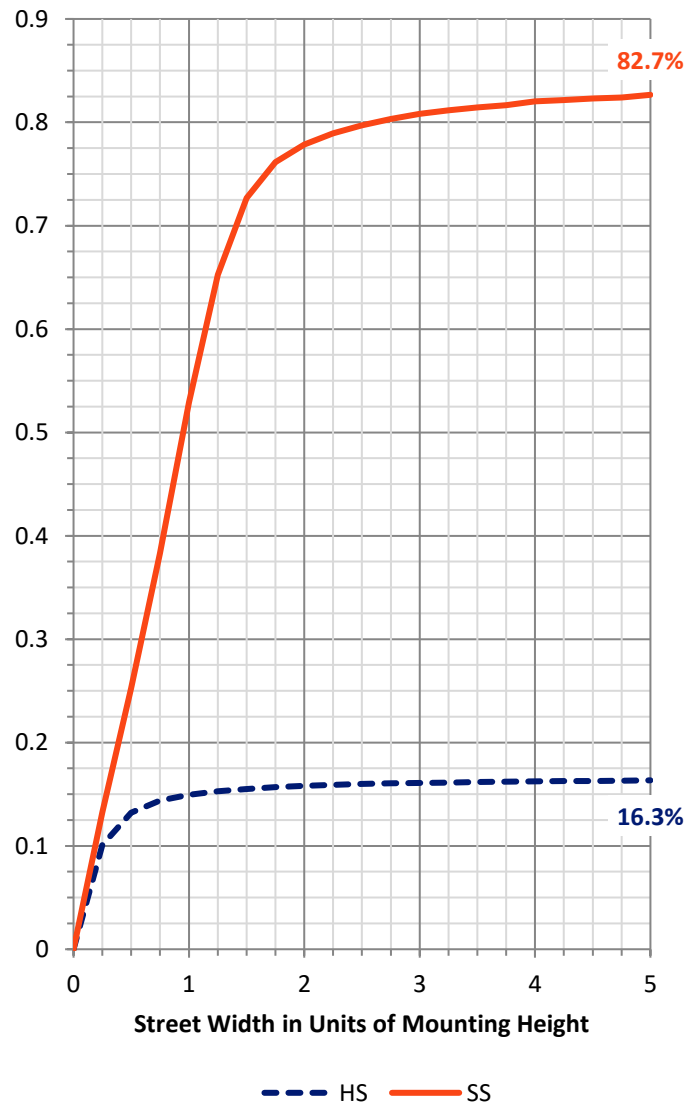
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2852.9	0.0	2852.9
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	14365.3	0.0	14365.3
	% Fixture	83.4	0.0	83.4
Total	Lumens	17218.2	0.0	17218.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.9	1.8
10°-20°	733.2	4.3
20°-30°	993.8	5.8
30°-40°	1412.8	8.2
40°-50°	2363.6	13.7
50°-60°	3739.3	21.7
60°-70°	4763.4	27.7
70°-80°	2495.1	14.5
80°-90°	400.2	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°	17218.2	100.0
0°-180°	17218.2	100.0

Coefficient of Utilization



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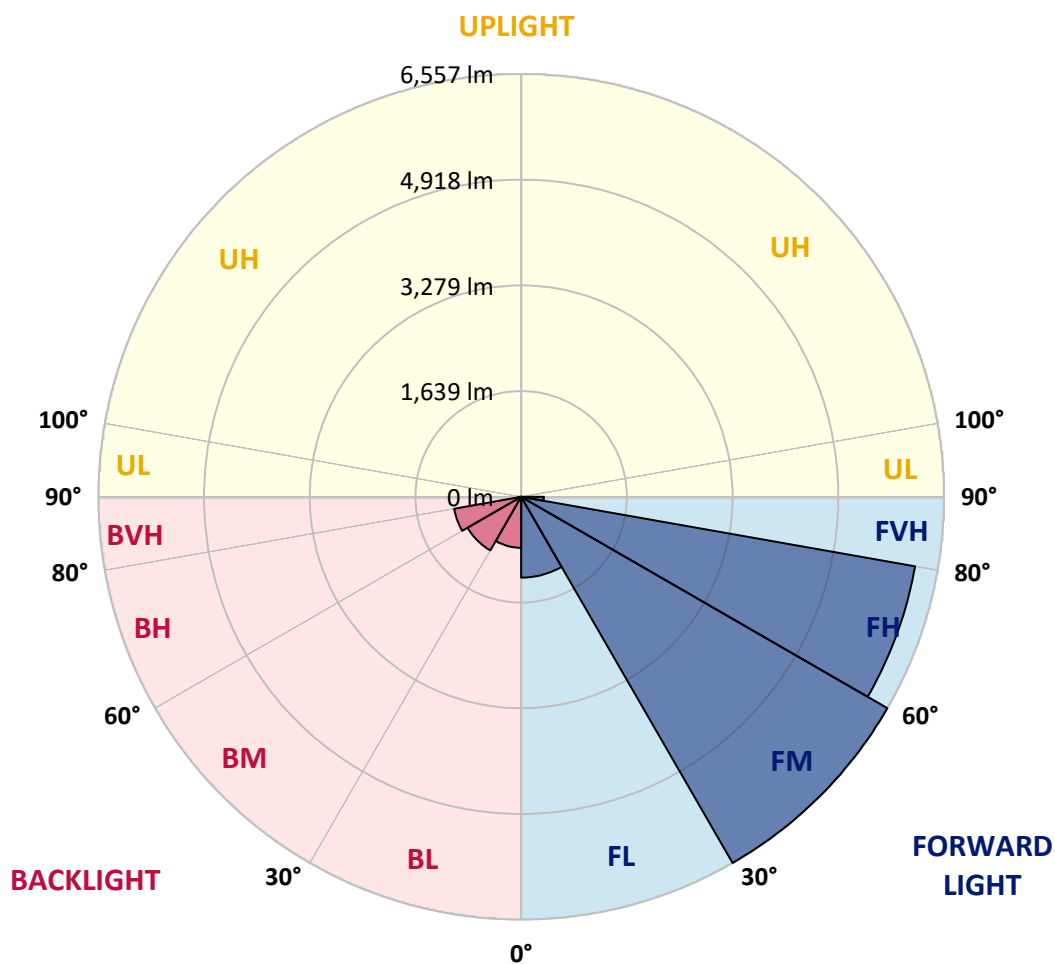
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1253.1	7.3			
FM	(30°-60°)	6557.0	38.1			
FH	(60°-80°)	6203.4	36.0			G3/7500
FVH	(80°-90°)	351.9	2.0			G3/500
BL	(0°-30°)	790.7	4.6	B2/1000		
BM	(30°-60°)	958.6	5.6	B1/1000		
BH	(60°-80°)	1055.2	6.1	B3/2500		G3/2500
BVH	(80°-90°)	48.3	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°	3713.9	3713.9	3713.9	3713.9	3713.9	3713.9	3713.9	3713.9	3713.9	3713.9	3713.9
2.5°	3561.1	3567.0	3585.7	3597.6	3651.1	3674.1	3690.1	3706.3	3708.8	3716.5	3708.8
5°	3187.5	3200.2	3235.0	3274.1	3377.6	3459.1	3544.9	3634.1	3650.3	3707.9	3724.1
7.5°	2898.0	2894.5	2923.4	2970.1	3076.3	3189.2	3339.5	3516.9	3551.7	3681.6	3744.6
10°	2686.4	2684.0	2714.5	2762.9	2864.0	2971.0	3140.7	3383.6	3432.8	3640.1	3764.0
12.5°	2530.3	2531.1	2561.7	2615.2	2718.0	2825.8	2998.2	3254.5	3317.4	3591.7	3784.4
15°	2426.6	2433.5	2458.2	2515.0	2615.2	2723.1	2892.0	3157.8	3228.3	3553.4	3807.3
17.5°	2391.9	2402.9	2411.5	2453.0	2538.7	2646.6	2812.3	3086.5	3161.2	3527.1	3827.7
20°	2424.1	2436.9	2420.7	2435.2	2489.6	2584.6	2749.4	3030.5	3106.8	3497.4	3830.2
22.5°	2562.5	2574.4	2526.8	2485.3	2482.0	2539.6	2697.6	2986.3	3065.2	3475.3	3831.0
25°	2806.3	2813.9	2734.1	2637.3	2543.0	2523.5	2661.0	2955.7	3039.7	3455.8	3815.0
27.5°	3105.1	3111.0	3019.4	2876.7	2687.3	2561.7	2648.3	2937.9	3025.3	3438.8	3787.8
30°	3468.6	3496.6	3373.4	3193.4	2917.4	2674.6	2673.8	2928.4	3009.2	3410.0	3734.3
32.5°	3840.5	3852.4	3767.4	3584.9	3227.4	2873.3	2745.1	2935.2	3004.9	3375.1	3666.4
35°	4217.4	4232.7	4177.5	4030.6	3651.1	3164.5	2884.3	2975.2	3031.3	3363.2	3618.7
37.5°	4705.7	4726.0	4649.6	4479.8	4166.5	3559.3	3116.2	3075.4	3111.9	3397.2	3604.4
40°	5477.5	5468.1	5244.8	4991.8	4730.3	4064.6	3447.3	3245.2	3266.5	3506.7	3648.5
42.5°	6375.9	6352.9	5968.3	5570.9	5350.1	4676.0	3885.5	3539.9	3535.6	3722.4	3804.0
45°	7092.4	7073.8	6727.3	6237.4	6060.8	5372.2	4451.8	3978.7	3947.4	4064.6	4090.8
47.5°	7480.4	7481.3	7281.8	6881.9	6877.7	6256.9	5179.4	4613.9	4559.6	4614.8	4586.8
50°	7344.6	7362.4	7341.2	7213.9	7623.1	7416.8	6129.6	5499.6	5390.0	5444.4	5336.6
52.5°	6687.4	6710.3	6836.1	7031.3	7936.5	8818.7	7525.4	6600.1	6472.6	6453.1	6333.3
55°	5522.5	5550.5	5806.9	6337.6	7675.8	9760.2	9728.0	8002.7	7799.7	7615.5	7564.6
57.5°	3806.5	3853.1	4265.8	5053.8	6832.6	10044.8	12350.8	10002.2	9589.5	8946.0	8957.8
60°	2145.7	2200.1	2686.4	3402.4	5131.1	9735.6	14346.2	13031.1	12159.8	10504.0	10592.3
62.5°	1364.5	1423.1	1792.4	2363.9	3078.8	8071.4	15163.9	17241.6	16135.2	12424.8	12511.3
65°	1104.6	1130.2	1304.2	1951.3	2235.7	4862.7	14543.2	20710.1	20297.5	14862.4	14458.3
67.5°	1078.4	1086.8	1176.8	1637.9	2144.0	2733.2	11600.3	21358.9	21816.5	17138.9	15269.2
70°	1065.6	1095.4	1326.3	1563.2	2053.1	2305.3	6971.1	19580.9	20303.4	17734.1	14189.9
72.5°	517.2	515.3	667.3	1413.7	2312.9	2391.0	3581.4	15843.1	16568.3	15364.2	11660.5
75°	417.0	381.2	364.3	518.0	2223.8	2469.2	2282.3	10901.5	11426.3	10301.2	7168.1
77.5°	395.6	353.2	323.5	324.4	939.9	2618.6	1933.4	6033.7	6186.5	4653.1	1963.9
80°	327.8	288.7	267.4	301.4	455.1	2493.8	2090.4	2730.7	2505.7	1142.9	653.8
82.5°	227.6	207.1	201.2	253.1	364.3	1777.1	2430.9	1467.3	1230.4	572.3	403.2
85°	145.2	124.0	137.5	184.2	283.6	820.2	2504.0	1143.7	909.4	363.4	227.6
87.5°	67.0	54.3	68.0	101.9	185.0	282.8	2382.5	1284.7	936.6	191.9	143.4
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°	3713.9	3713.9	3713.9	3713.9	3713.9	3713.9	3713.9	3713.9	3713.9	3713.9	3713.9
2.5°	3715.6	3699.5	3686.7	3662.9	3636.7	3611.1	3588.3	3559.3	3550.9	3543.3	3555.2
5°	3727.5	3711.3	3664.7	3591.7	3510.9	3435.4	3359.8	3295.4	3255.4	3233.3	3246.1
7.5°	3745.3	3722.4	3625.7	3491.5	3346.3	3213.8	3077.1	2967.6	2886.9	2848.7	2859.8
10°	3761.5	3717.3	3559.3	3358.2	3145.9	2948.9	2733.2	2554.9	2422.5	2352.8	2369.9
12.5°	3768.3	3697.8	3466.8	3191.7	2900.5	2611.9	2294.2	2027.7	1837.4	1767.9	1753.4
15°	3775.0	3675.7	3364.9	3002.3	2604.2	2195.8	1750.8	1431.6	1273.6	1238.8	1231.2
17.5°	3776.8	3637.5	3249.5	2796.9	2256.9	1700.7	1197.3	994.3	995.2	1051.2	1057.9
20°	3758.9	3580.7	3109.4	2541.4	1840.8	1175.9	821.9	787.1	915.3	1055.5	1072.4
22.5°	3718.2	3505.0	2950.5	2243.3	1364.5	774.3	636.0	674.1	839.7	1011.3	1030.8
25°	3666.4	3413.4	2762.9	1897.8	903.5	553.6	533.1	579.9	692.0	806.7	817.7
27.5°	3595.9	3304.6	2552.4	1502.0	586.7	455.9	469.6	501.0	546.9	597.7	602.9
30°	3505.0	3174.7	2327.3	1095.4	443.3	410.2	429.6	446.7	466.1	495.1	497.5
32.5°	3400.5	3050.0	2096.3	756.5	393.2	386.3	401.6	410.2	425.3	443.3	444.9
35°	3313.2	2931.1	1857.0	535.0	371.9	368.5	378.7	382.1	396.5	416.1	417.7
37.5°	3263.0	2834.3	1609.8	431.3	357.5	352.4	358.3	358.3	378.7	407.5	411.8
40°	3266.5	2780.7	1362.8	389.7	345.6	338.8	339.7	339.7	365.9	397.3	399.9
42.5°	3358.9	2794.3	1143.7	373.5	336.2	328.7	324.4	326.9	349.0	369.4	371.1
45°	3576.4	2890.4	938.2	363.4	326.9	324.4	315.0	314.1	322.7	332.0	332.0
47.5°	3933.0	3079.7	799.0	356.6	319.2	318.4	307.3	296.3	295.4	299.0	299.0
50°	4513.0	3405.7	705.6	349.0	314.1	307.3	294.7	277.6	271.7	274.2	274.2
52.5°	5382.3	3987.3	670.0	338.8	303.0	292.0	277.6	260.7	255.5	256.4	256.4
55°	6522.7	4880.6	664.9	326.9	291.2	273.3	261.5	248.8	242.9	244.5	244.5
57.5°	7916.1	6116.0	755.6	308.2	275.2	254.7	247.9	239.5	235.2	237.7	236.9
60°	9610.0	7732.6	1120.8	288.7	259.0	237.7	237.7	231.0	227.6	230.1	229.2
62.5°	11561.2	9589.5	1575.9	274.2	242.0	224.2	227.6	224.2	220.8	222.5	221.6
65°	13291.6	10799.5	1475.8	263.2	225.0	211.4	217.3	215.7	213.2	214.8	213.9
67.5°	13341.7	10351.2	828.7	251.3	208.9	198.7	207.1	206.3	204.7	206.3	205.5
70°	11906.7	8740.5	467.0	229.2	191.9	183.4	195.2	194.5	192.8	196.1	195.2
72.5°	9539.5	6342.7	341.3	202.1	175.0	167.2	180.9	180.1	180.1	185.0	182.6
75°	5489.4	3263.9	272.6	173.1	157.2	151.1	163.1	163.9	165.5	172.4	167.2
77.5°	1564.9	1017.2	222.5	146.9	135.1	132.4	144.3	146.1	146.9	154.5	147.7
80°	581.6	468.7	183.4	123.1	110.4	111.2	122.3	124.8	125.6	133.3	124.8
82.5°	371.1	309.1	148.6	95.0	86.7	85.8	99.3	102.7	102.7	103.6	98.5
85°	216.6	185.0	112.1	68.8	61.1	58.6	73.9	79.9	77.2	75.6	72.2
87.5°	145.2	127.4	68.8	38.2	33.1	31.4	43.2	47.5	45.9	43.2	40.8
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)