

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: P192762

Luminaire Tested: **GLEON-AF-04-LED-E1-RW-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192762
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
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-RW-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26040.9 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - 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



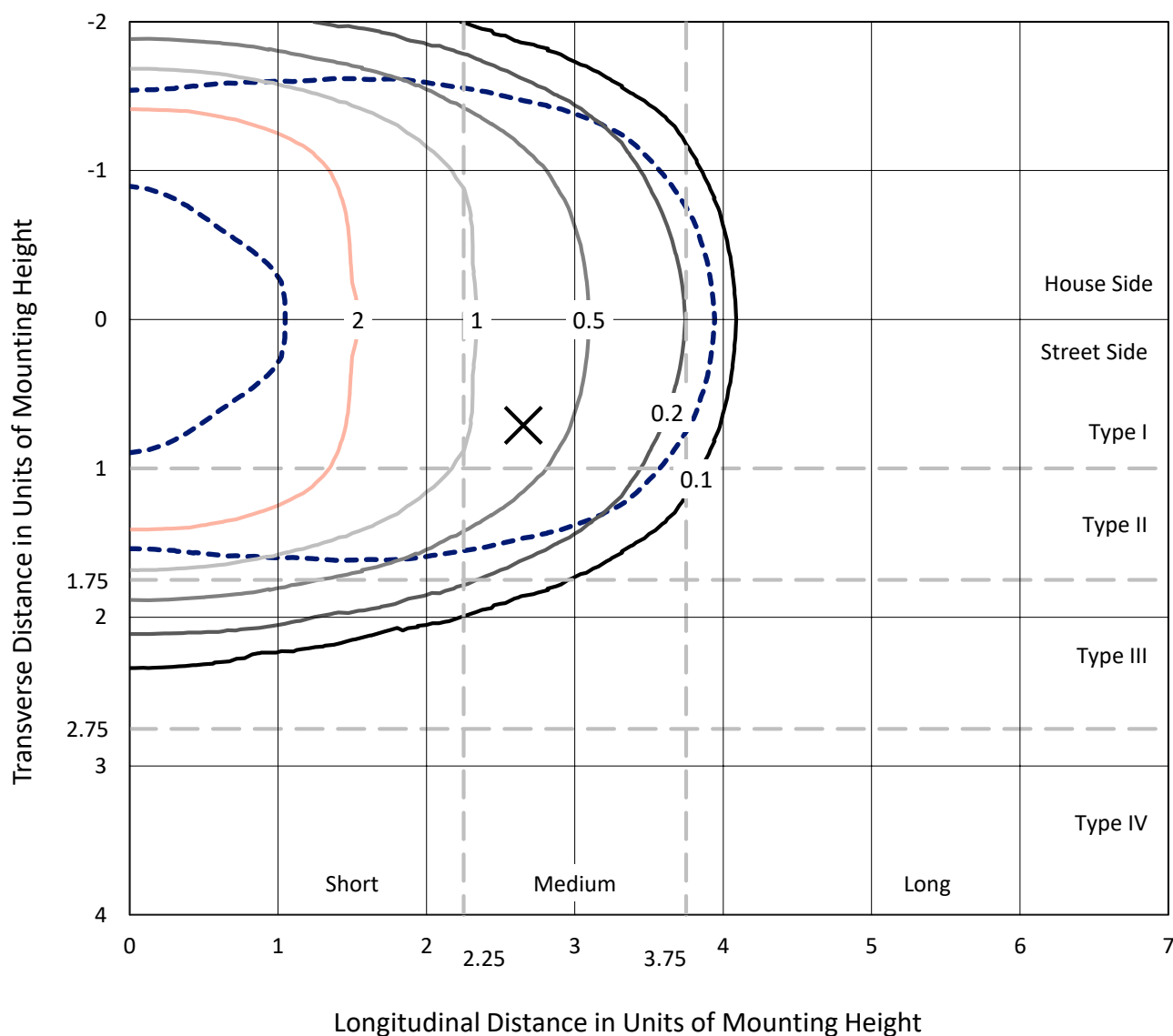
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

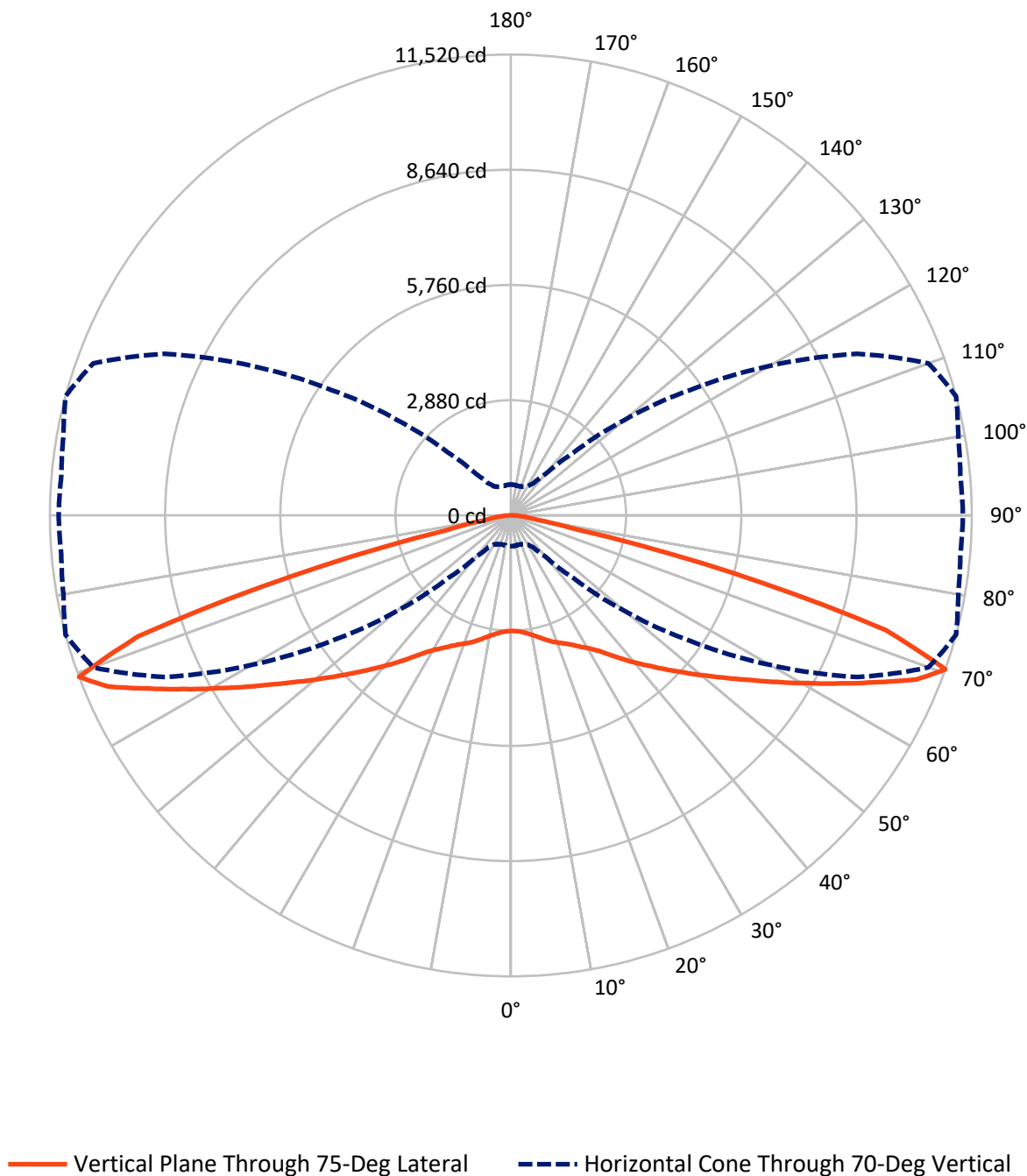


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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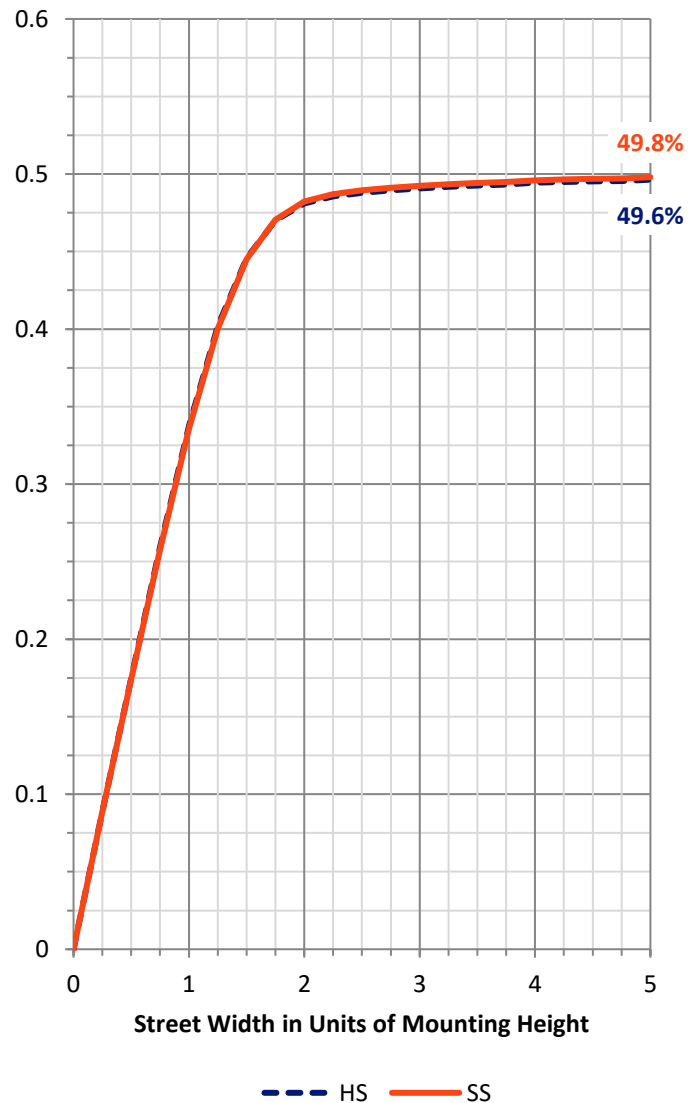
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13020.4	0.0	13020.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13020.4	0.0	13020.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	26040.9	0.0	26040.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.0	1.1
10°-20°	860.8	3.3
20°-30°	1620.1	6.2
30°-40°	2868.9	11.0
40°-50°	4797.8	18.4
50°-60°	6685.7	25.7
60°-70°	6199.9	23.8
70°-80°	2470.8	9.5
80°-90°	259.7	1.0
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°	26040.9	100.0
0°-180°	26040.9	100.0

Coefficient of Utilization



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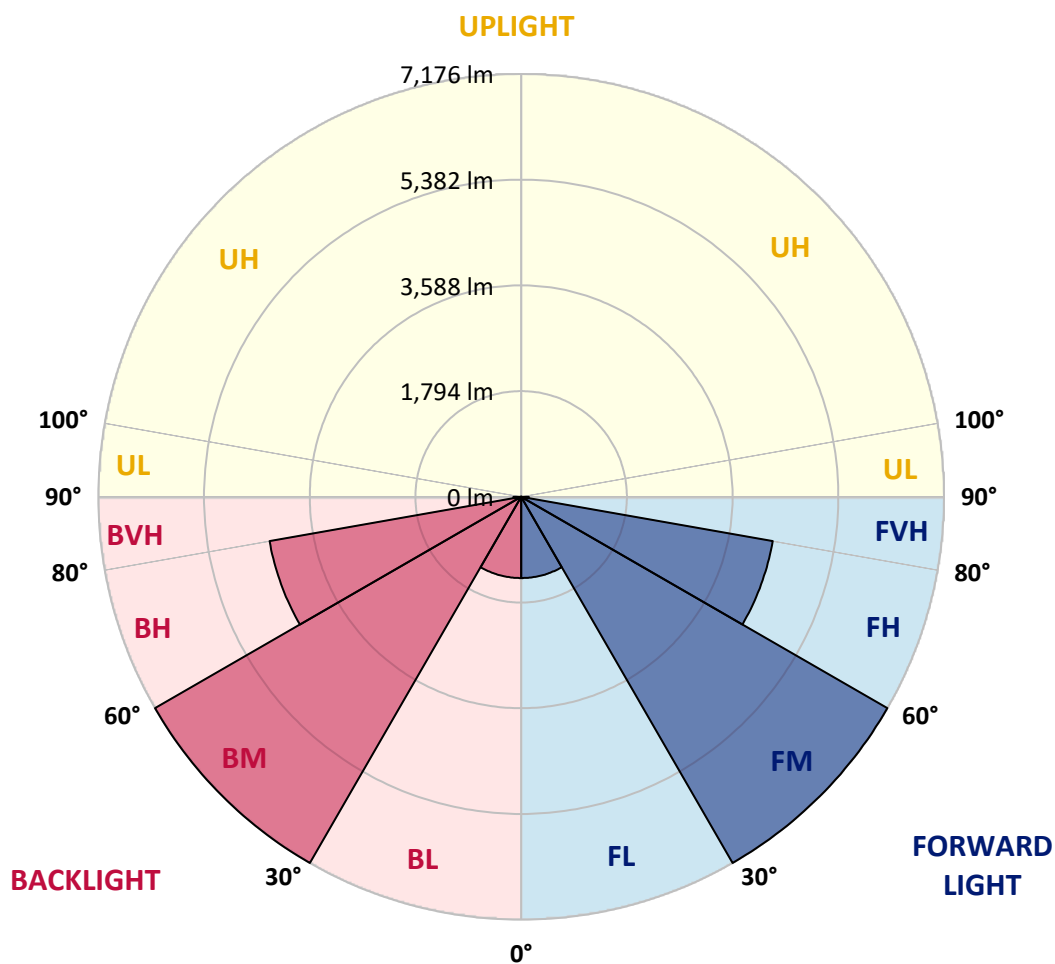
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1379.0	5.3			
FM	(30°-60°)	7176.2	27.6			
FH	(60°-80°)	4335.4	16.6			G2/5000
FVH	(80°-90°)	129.9	0.5			G2/225
BL	(0°-30°)	1379.0	5.3	B3/2500		
BM	(30°-60°)	7176.2	27.6	B4/8500		
BH	(60°-80°)	4335.4	16.6	B4/5000		G4/5000
BVH	(80°-90°)	129.9	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2888.5	2888.5	2888.5	2888.5	2888.5	2888.5	2888.5	2888.5	2888.5	2888.5	2888.5
2.5°	2883.6	2881.1	2883.6	2882.4	2884.9	2884.9	2887.2	2892.2	2892.2	2895.9	2894.8
5°	2855.3	2854.1	2857.7	2861.5	2865.1	2872.5	2880.0	2891.0	2899.6	2905.8	2911.9
7.5°	2799.9	2799.9	2804.8	2813.4	2822.0	2838.1	2855.3	2877.5	2899.6	2918.1	2934.0
10°	2754.4	2756.8	2762.9	2777.8	2792.5	2817.1	2840.5	2872.5	2903.3	2934.0	2958.7
12.5°	2727.3	2731.1	2742.1	2764.3	2788.9	2822.0	2857.7	2898.4	2932.8	2969.7	2994.4
15°	2736.0	2738.4	2754.4	2781.4	2813.4	2855.3	2903.3	2951.3	2991.9	3031.3	3064.5
17.5°	2783.9	2787.6	2806.1	2836.8	2870.0	2919.3	2971.0	3025.2	3075.6	3119.9	3160.6
20°	2870.0	2873.7	2897.1	2930.4	2969.7	3020.3	3072.0	3128.5	3185.1	3231.9	3277.4
22.5°	2991.9	2998.1	3020.3	3053.5	3097.7	3151.9	3213.5	3273.7	3327.9	3370.9	3411.6
25°	3151.9	3165.5	3186.3	3223.2	3270.0	3319.3	3385.7	3447.2	3499.0	3539.6	3569.2
27.5°	3378.4	3396.9	3412.8	3448.6	3494.1	3540.9	3607.3	3661.4	3710.7	3750.1	3772.1
30°	3678.6	3697.2	3713.1	3747.6	3789.4	3833.7	3896.5	3944.5	3975.3	4006.1	4004.8
32.5°	4042.9	4062.7	4068.9	4105.8	4148.8	4196.7	4253.5	4280.4	4305.2	4308.8	4286.7
35°	4450.3	4460.2	4484.8	4534.0	4583.2	4622.6	4676.9	4690.3	4690.3	4671.9	4622.6
37.5°	4897.1	4903.2	4937.8	4993.1	5043.5	5084.2	5121.1	5148.2	5134.6	5095.2	5012.9
40°	5386.9	5398.0	5447.2	5496.5	5553.1	5591.3	5630.5	5635.6	5622.1	5564.1	5452.1
42.5°	5854.6	5864.5	5913.6	5991.2	6065.1	6118.0	6154.9	6162.3	6119.2	6066.3	5927.2
45°	6257.1	6283.0	6346.9	6438.0	6545.0	6620.1	6670.6	6691.5	6653.4	6584.4	6423.3
47.5°	6575.8	6601.7	6692.7	6801.1	6933.9	7055.9	7139.5	7183.8	7174.0	7122.3	6946.2
50°	6809.7	6834.2	6932.7	7065.7	7220.7	7372.2	7514.9	7620.8	7657.7	7634.3	7473.0
52.5°	6836.8	6877.4	6993.0	7171.4	7373.4	7580.1	7783.2	7962.9	8084.7	8103.2	7983.8
55°	6458.9	6499.5	6659.5	6924.1	7224.4	7561.7	7886.6	8189.3	8429.4	8552.4	8489.7
57.5°	5567.9	5640.5	5809.1	6119.2	6561.0	7065.7	7583.8	8121.7	8610.1	8936.5	8999.1
60°	4267.0	4353.1	4523.0	4852.8	5345.1	5946.9	6638.6	7433.7	8296.4	9029.9	9468.1
62.5°	2737.2	2818.4	2996.9	3283.6	3684.9	4337.1	5079.3	6023.3	7182.6	8340.8	9384.4
65°	1406.7	1451.1	1544.6	1718.1	2030.7	2518.1	3184.0	4125.4	5451.0	6879.8	8388.7
67.5°	891.0	899.6	920.6	945.2	1025.2	1193.7	1504.0	2091.0	3181.4	4671.9	6438.0
70°	770.4	770.4	760.6	756.9	766.8	790.2	838.1	974.7	1342.7	2217.8	3713.1
72.5°	705.2	697.8	680.5	667.0	664.7	664.7	674.4	695.3	754.4	903.3	1453.4
75°	649.9	628.9	605.6	589.6	583.3	577.2	576.1	579.7	591.9	615.3	694.2
77.5°	582.2	555.0	527.9	512.0	504.6	496.0	488.6	479.9	473.8	481.2	515.7
80°	501.0	470.2	449.2	439.3	432.0	419.7	403.7	389.0	375.5	372.9	393.9
82.5°	403.7	367.9	369.2	372.9	359.4	342.1	324.9	308.8	285.5	273.2	285.5
85°	326.1	307.7	299.1	322.5	302.7	276.9	249.8	221.6	184.6	155.0	168.6
87.5°	126.7	126.7	189.6	291.7	262.1	214.1	183.3	156.3	97.2	75.1	76.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2888.5	2888.5	2888.5	2888.5	2888.5	2888.5	2888.5	2888.5
2.5°	2893.5	2895.9	2894.8	2893.5	2893.5	2892.2	2893.5	2893.5
5°	2915.6	2921.8	2921.8	2924.3	2924.3	2925.4	2926.7	2925.4
7.5°	2948.8	2960.0	2967.3	2975.9	2977.1	2978.4	2980.8	2978.4
10°	2982.1	3004.2	3020.3	3036.2	3043.6	3046.0	3048.6	3048.6
12.5°	3024.0	3054.7	3083.0	3111.2	3124.9	3132.3	3132.3	3137.2
15°	3092.8	3123.6	3156.8	3195.0	3218.3	3230.7	3234.4	3234.4
17.5°	3190.1	3217.1	3245.4	3282.3	3311.8	3327.9	3331.7	3330.3
20°	3303.4	3329.1	3345.2	3368.6	3394.3	3412.8	3417.7	3417.7
22.5°	3432.5	3447.2	3449.8	3457.2	3478.0	3502.7	3513.8	3516.2
25°	3575.3	3579.0	3569.2	3569.2	3582.7	3606.1	3617.1	3618.3
27.5°	3759.9	3741.5	3716.8	3708.3	3716.8	3743.9	3757.4	3762.4
30°	3990.0	3945.8	3889.1	3858.4	3853.5	3889.1	3913.7	3917.4
32.5°	4253.5	4189.4	4114.3	4051.6	4035.6	4057.8	4087.3	4086.1
35°	4566.1	4489.7	4398.7	4318.7	4281.8	4303.8	4345.7	4350.7
37.5°	4926.6	4827.0	4722.3	4621.4	4563.5	4569.8	4614.0	4628.8
40°	5329.1	5199.8	5068.2	4932.8	4850.3	4834.2	4888.5	4897.1
42.5°	5759.8	5593.7	5427.6	5260.2	5154.3	5129.7	5192.4	5188.8
45°	6218.9	6007.2	5812.8	5628.2	5502.7	5465.7	5517.4	5517.4
47.5°	6712.5	6451.5	6220.1	6010.9	5874.4	5821.4	5870.6	5874.4
50°	7235.4	6958.6	6686.5	6454.0	6290.3	6222.7	6286.6	6296.4
52.5°	7756.1	7486.6	7212.1	6946.2	6748.2	6665.7	6739.5	6771.6
55°	8284.0	8019.5	7757.3	7497.6	7262.6	7165.3	7244.1	7284.8
57.5°	8841.6	8596.7	8346.9	8084.7	7858.3	7706.8	7790.5	7844.7
60°	9495.1	9286.0	9026.2	8737.0	8508.1	8354.2	8402.2	8450.2
62.5°	10012.1	10093.3	9873.0	9538.3	9244.1	9047.1	9093.8	9144.4
65°	9762.2	10595.4	10791.1	10452.7	10045.3	9738.9	9719.1	9745.0
67.5°	8159.8	9778.1	10958.4	11280.9	10940.0	10514.1	10435.5	10473.6
70°	5458.3	7474.2	9556.7	11107.4	11519.6	11354.8	11277.2	11300.5
72.5°	2621.4	4353.1	6483.6	8544.9	9800.3	10376.4	10560.9	10650.8
75°	958.7	1727.9	3124.9	4708.7	5684.8	6580.8	7165.3	7404.1
77.5°	578.4	697.8	998.1	1502.8	1702.2	1905.2	1826.4	1865.8
80°	428.3	483.7	547.7	615.3	637.5	637.5	613.0	593.2
82.5°	300.4	336.0	366.8	403.7	413.5	395.1	324.9	258.5
85°	193.3	209.2	222.8	246.2	240.1	228.9	153.8	136.6
87.5°	88.6	100.9	105.9	116.9	112.0	107.1	76.3	64.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)