

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: P194422

Luminaire Tested: **GLEON-AF-04-LED-E1-SL2-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194422
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-SL2-7060-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 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: 19005 lumens
Efficiency: N/A
Efficacy: 111.1 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

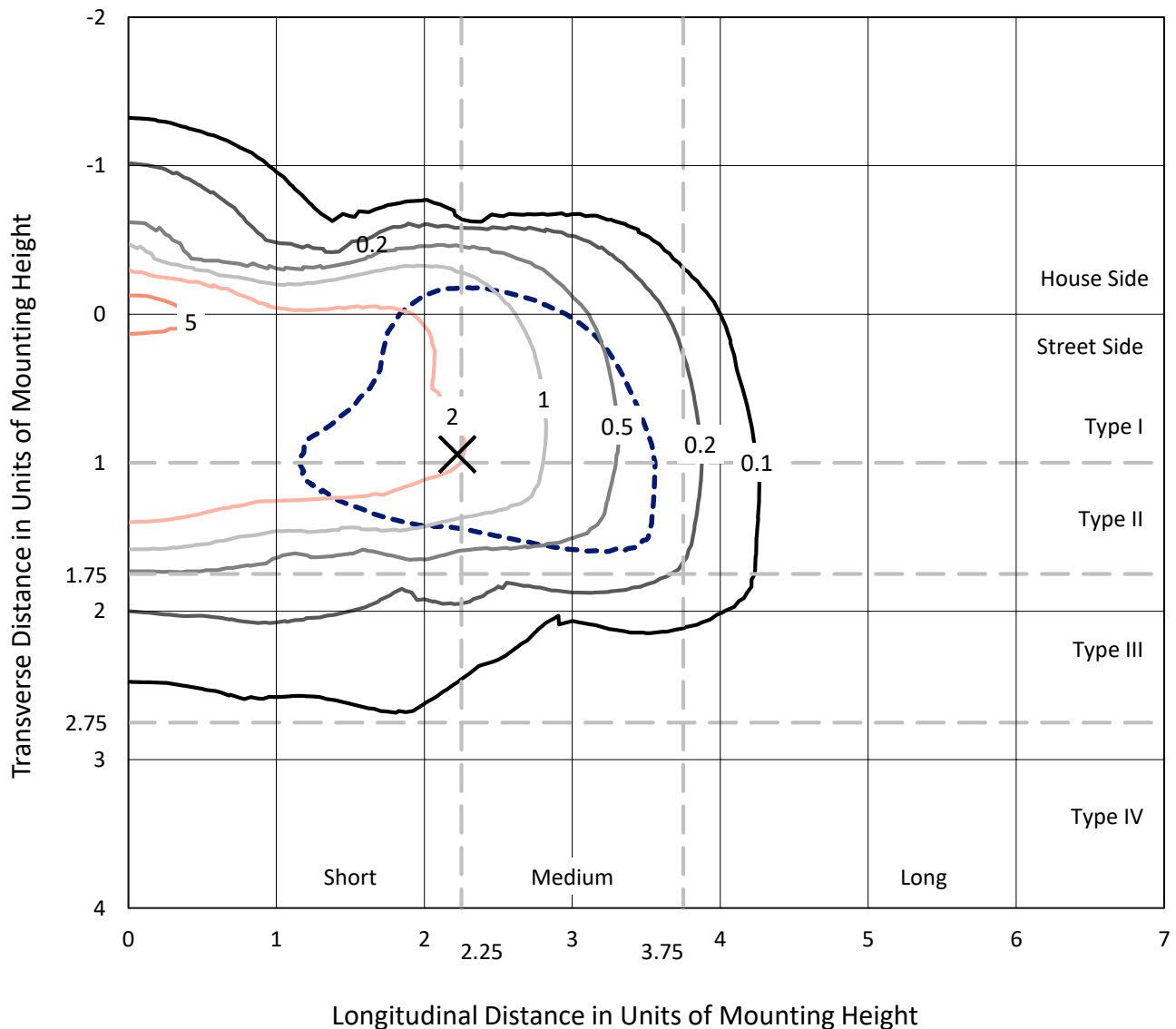


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

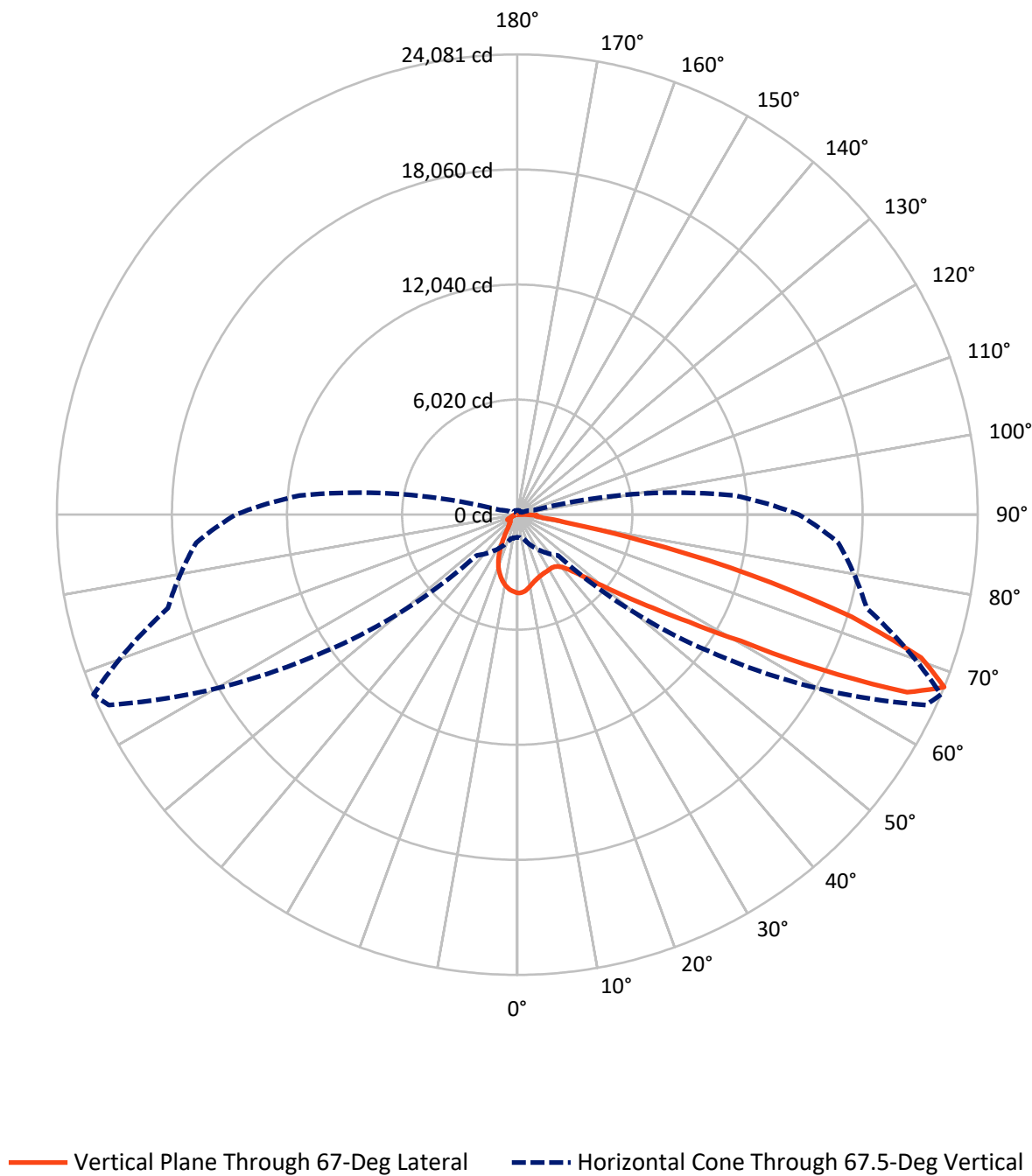


Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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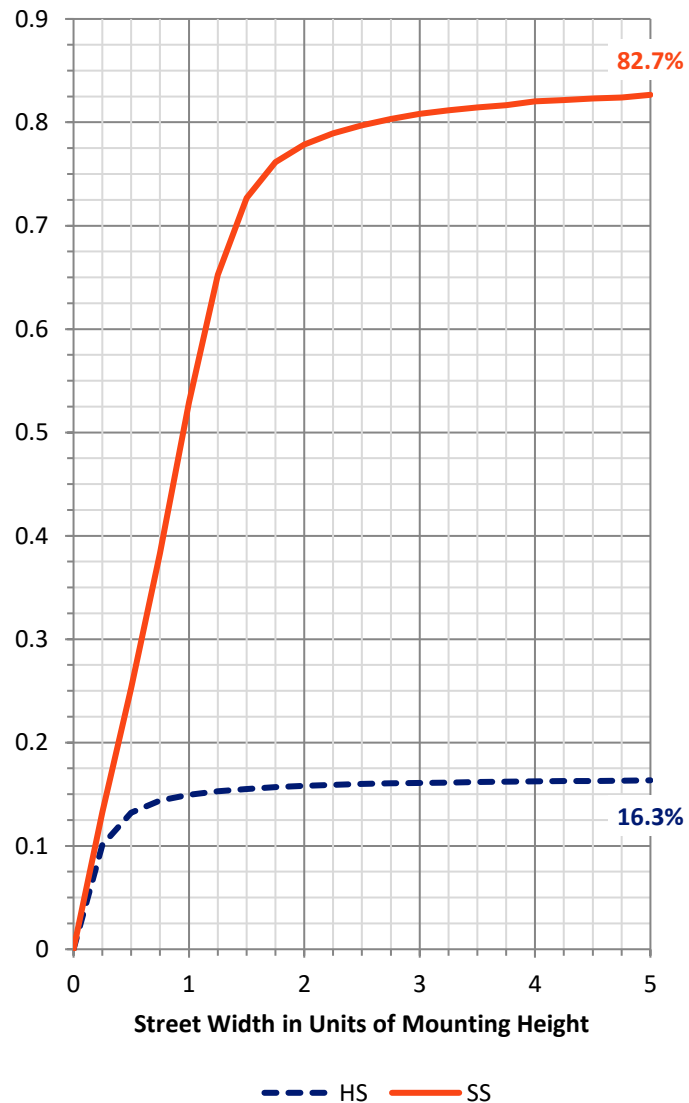
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3148.9	0.0	3148.9
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	15856.1	0.0	15856.1
	% Fixture	83.4	0.0	83.4
Total	Lumens	19005.0	0.0	19005.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.7	1.8
10°-20°	809.2	4.3
20°-30°	1096.9	5.8
30°-40°	1559.4	8.2
40°-50°	2608.9	13.7
50°-60°	4127.3	21.7
60°-70°	5257.8	27.7
70°-80°	2754.0	14.5
80°-90°	441.7	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°	19005.0	100.0
0°-180°	19005.0	100.0

Coefficient of Utilization



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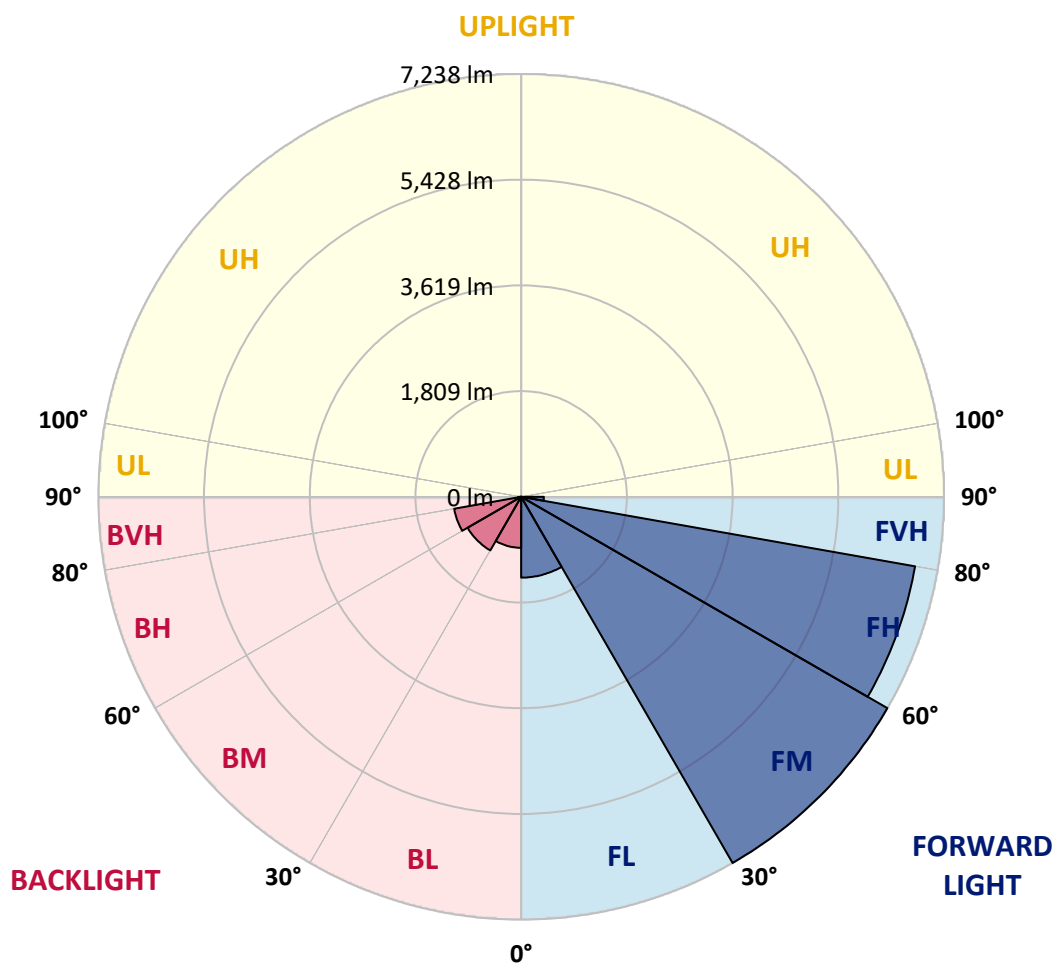
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1383.1	7.3			
FM	(30°-60°)	7237.5	38.1			
FH	(60°-80°)	6847.1	36.0			G3/7500
FVH	(80°-90°)	388.4	2.0			G3/500
BL	(0°-30°)	872.8	4.6	B2/1000		
BM	(30°-60°)	1058.1	5.6	B2/2500		
BH	(60°-80°)	1164.7	6.1	B3/2500		G3/2500
BVH	(80°-90°)	53.3	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°	4099.3	4099.3	4099.3	4099.3	4099.3	4099.3	4099.3	4099.3	4099.3	4099.3	4099.3
2.5°	3930.6	3937.2	3957.8	3970.9	4030.0	4055.3	4073.1	4090.9	4093.7	4102.1	4093.7
5°	3518.3	3532.3	3570.7	3613.9	3728.2	3818.2	3912.8	4011.2	4029.0	4092.8	4110.6
7.5°	3198.7	3194.9	3226.8	3278.3	3395.5	3520.1	3686.0	3881.9	3920.3	4063.7	4133.1
10°	2965.3	2962.5	2996.2	3049.7	3161.2	3279.3	3466.7	3734.8	3789.1	4017.8	4154.6
12.5°	2792.9	2793.8	2827.5	2886.6	3000.0	3119.0	3309.3	3592.3	3661.7	3964.4	4177.1
15°	2678.5	2686.0	2713.2	2776.0	2886.6	3005.6	3192.1	3485.5	3563.3	3922.2	4202.4
17.5°	2640.1	2652.3	2661.7	2707.6	2802.2	2921.3	3104.0	3406.7	3489.2	3893.1	4224.9
20°	2675.7	2689.8	2672.0	2687.9	2747.9	2852.9	3034.7	3344.9	3429.2	3860.3	4227.7
22.5°	2828.5	2841.6	2789.1	2743.2	2739.4	2803.2	2977.5	3296.1	3383.3	3836.0	4228.7
25°	3097.5	3105.9	3017.8	2911.0	2806.9	2785.4	2937.2	3262.4	3355.2	3814.4	4210.9
27.5°	3427.4	3433.9	3332.7	3175.2	2966.3	2827.5	2923.1	3242.7	3339.3	3795.7	4180.9
30°	3828.5	3859.4	3723.5	3524.8	3220.2	2952.2	2951.3	3232.4	3321.5	3763.8	4121.8
32.5°	4239.0	4252.1	4158.4	3956.9	3562.3	3171.5	3030.0	3239.9	3316.8	3725.4	4046.8
35°	4655.1	4672.0	4611.0	4448.9	4030.0	3493.0	3183.7	3284.0	3345.8	3712.3	3994.4
37.5°	5194.0	5216.5	5132.1	4944.7	4598.9	3928.8	3439.5	3394.6	3434.9	3749.8	3978.4
40°	6045.9	6035.6	5789.1	5509.8	5221.2	4486.4	3805.0	3582.0	3605.4	3870.7	4027.2
42.5°	7037.5	7012.2	6587.6	6149.0	5905.3	5161.2	4288.6	3907.2	3902.5	4108.7	4198.7
45°	7828.5	7807.8	7425.5	6884.7	6689.8	5929.7	4913.8	4391.7	4357.1	4486.4	4515.5
47.5°	8256.8	8257.7	8037.5	7596.0	7591.4	6906.3	5716.9	5092.8	5032.8	5093.7	5062.8
50°	8106.8	8126.5	8103.1	7962.5	8414.2	8186.5	6765.7	6070.3	5949.4	6009.4	5890.3
52.5°	7381.4	7406.7	7545.4	7761.0	8760.0	9733.8	8306.4	7284.9	7144.3	7122.8	6990.6
55°	6095.6	6126.5	6409.5	6995.3	8472.3	10773.2	10737.6	8833.2	8609.2	8405.8	8349.6
57.5°	4201.5	4253.0	4708.5	5578.2	7541.7	11087.1	13632.6	11040.3	10584.8	9874.4	9887.5
60°	2368.3	2428.3	2965.3	3755.4	5663.5	10746.0	15835.0	14383.3	13421.7	11594.2	11691.6
62.5°	1506.1	1570.8	1978.4	2609.2	3398.3	8909.1	16737.5	19030.9	17809.7	13714.1	13809.7
65°	1219.3	1247.4	1439.5	2153.7	2467.7	5367.4	16052.4	22859.4	22403.9	16404.8	15958.7
67.5°	1190.2	1199.6	1299.0	1807.9	2366.4	3016.9	12804.1	23575.4	24080.5	18917.5	16853.7
70°	1176.2	1209.0	1463.9	1725.4	2266.2	2544.5	7694.4	21612.9	22410.4	19574.5	15662.6
72.5°	570.8	568.9	736.6	1560.4	2552.9	2639.2	3953.1	17487.3	18287.7	16958.7	12870.6
75°	460.2	420.8	402.1	571.7	2454.5	2725.4	2519.2	12032.8	12612.0	11370.2	7911.9
77.5°	436.7	389.9	357.1	358.0	1037.5	2890.3	2134.0	6659.8	6828.5	5135.9	2167.8
80°	361.8	318.6	295.2	332.7	502.3	2752.6	2307.4	3014.0	2765.7	1261.5	721.6
82.5°	251.2	228.7	222.1	279.3	402.1	1961.6	2683.2	1619.5	1358.0	631.7	445.2
85°	160.3	136.8	151.8	203.4	313.0	905.3	2763.8	1262.4	1003.7	401.1	251.2
87.5°	74.0	60.0	75.0	112.5	204.3	312.1	2629.8	1418.0	1033.7	211.8	158.4
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°	4099.3	4099.3	4099.3	4099.3	4099.3	4099.3	4099.3	4099.3	4099.3	4099.3	4099.3
2.5°	4101.2	4083.4	4069.3	4043.1	4014.0	3985.9	3960.6	3928.8	3919.4	3911.0	3924.1
5°	4114.3	4096.5	4045.0	3964.4	3875.3	3791.9	3708.5	3637.3	3593.2	3568.9	3582.9
7.5°	4134.0	4108.7	4001.9	3853.8	3693.5	3547.3	3396.4	3275.5	3186.5	3144.3	3156.5
10°	4151.8	4103.1	3928.8	3706.6	3472.3	3254.9	3016.9	2820.0	2673.8	2597.0	2615.7
12.5°	4159.3	4081.5	3826.6	3523.0	3201.5	2882.8	2532.3	2238.0	2028.1	1951.3	1935.3
15°	4166.8	4057.2	3714.1	3314.0	2874.4	2423.6	1932.5	1580.1	1405.8	1367.4	1358.9
17.5°	4168.7	4015.0	3586.7	3087.2	2491.1	1877.2	1321.5	1097.5	1098.4	1160.3	1167.8
20°	4149.0	3952.2	3432.0	2805.1	2031.9	1298.0	907.2	868.8	1010.3	1164.9	1183.7
22.5°	4104.0	3868.8	3256.8	2476.1	1506.1	854.7	702.0	744.1	926.9	1116.2	1137.8
25°	4046.8	3767.6	3049.7	2094.7	997.2	611.1	588.6	640.1	763.8	890.3	902.5
27.5°	3969.1	3647.6	2817.2	1657.9	647.6	503.3	518.3	553.0	603.6	659.8	665.4
30°	3868.8	3504.2	2568.9	1209.0	489.2	452.7	474.2	493.0	514.5	546.4	549.2
32.5°	3753.5	3366.4	2314.0	835.0	433.9	426.4	443.3	452.7	469.5	489.2	491.1
35°	3657.0	3235.2	2049.7	590.4	410.5	406.7	418.0	421.7	437.7	459.2	461.1
37.5°	3601.7	3128.4	1776.9	476.1	394.6	388.9	395.5	395.5	418.0	449.9	454.5
40°	3605.4	3069.3	1504.2	430.2	381.4	373.9	374.9	374.9	403.9	438.6	441.4
42.5°	3707.6	3084.3	1262.4	412.4	371.1	362.7	358.0	360.8	385.2	407.7	409.6
45°	3947.5	3190.2	1035.6	401.1	360.8	358.0	347.7	346.8	356.1	366.4	366.4
47.5°	4341.1	3399.2	881.9	393.6	352.4	351.5	339.3	327.1	326.1	329.9	329.9
50°	4981.2	3759.1	778.8	385.2	346.8	339.3	325.2	306.5	299.9	302.7	302.7
52.5°	5940.9	4401.1	739.5	373.9	334.6	322.4	306.5	287.7	282.1	283.0	283.0
55°	7199.6	5387.1	733.8	360.8	321.5	301.8	288.7	274.6	268.0	269.9	269.9
57.5°	8737.6	6750.7	834.1	340.2	303.7	281.2	273.7	264.3	259.6	262.4	261.5
60°	10607.3	8535.1	1237.1	318.6	285.8	262.4	262.4	254.9	251.2	254.0	253.0
62.5°	12761.0	10584.8	1739.5	302.7	267.1	247.4	251.2	247.4	243.7	245.5	244.6
65°	14671.0	11920.3	1628.9	290.5	248.4	233.4	239.9	238.0	235.2	237.1	236.2
67.5°	14726.3	11425.5	914.7	277.4	230.6	219.3	228.7	227.7	225.9	227.7	226.8
70°	13142.4	9647.6	515.5	253.0	211.8	202.4	215.6	214.6	212.7	216.5	215.6
72.5°	10529.5	7000.9	376.8	223.1	193.1	184.6	199.6	198.7	198.7	204.3	201.5
75°	6059.0	3602.6	300.8	191.2	173.4	166.8	179.9	180.9	182.8	190.3	184.6
77.5°	1727.3	1122.8	245.5	162.1	149.0	146.2	159.3	161.2	162.1	170.6	163.1
80°	642.0	517.3	202.4	135.9	121.8	122.8	135.0	137.8	138.7	147.1	137.8
82.5°	409.6	341.1	164.0	105.0	95.6	94.7	109.7	113.4	113.4	114.3	108.7
85°	239.0	204.3	123.7	75.9	67.5	64.7	81.5	88.1	85.3	83.4	79.7
87.5°	160.3	140.6	75.9	42.2	36.6	34.7	47.8	52.5	50.6	47.8	45.0
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)