

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: P193304

Luminaire Tested: **GLEON-AF-06-LED-E1-T4W-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193304
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-T4W-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27624 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 249
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

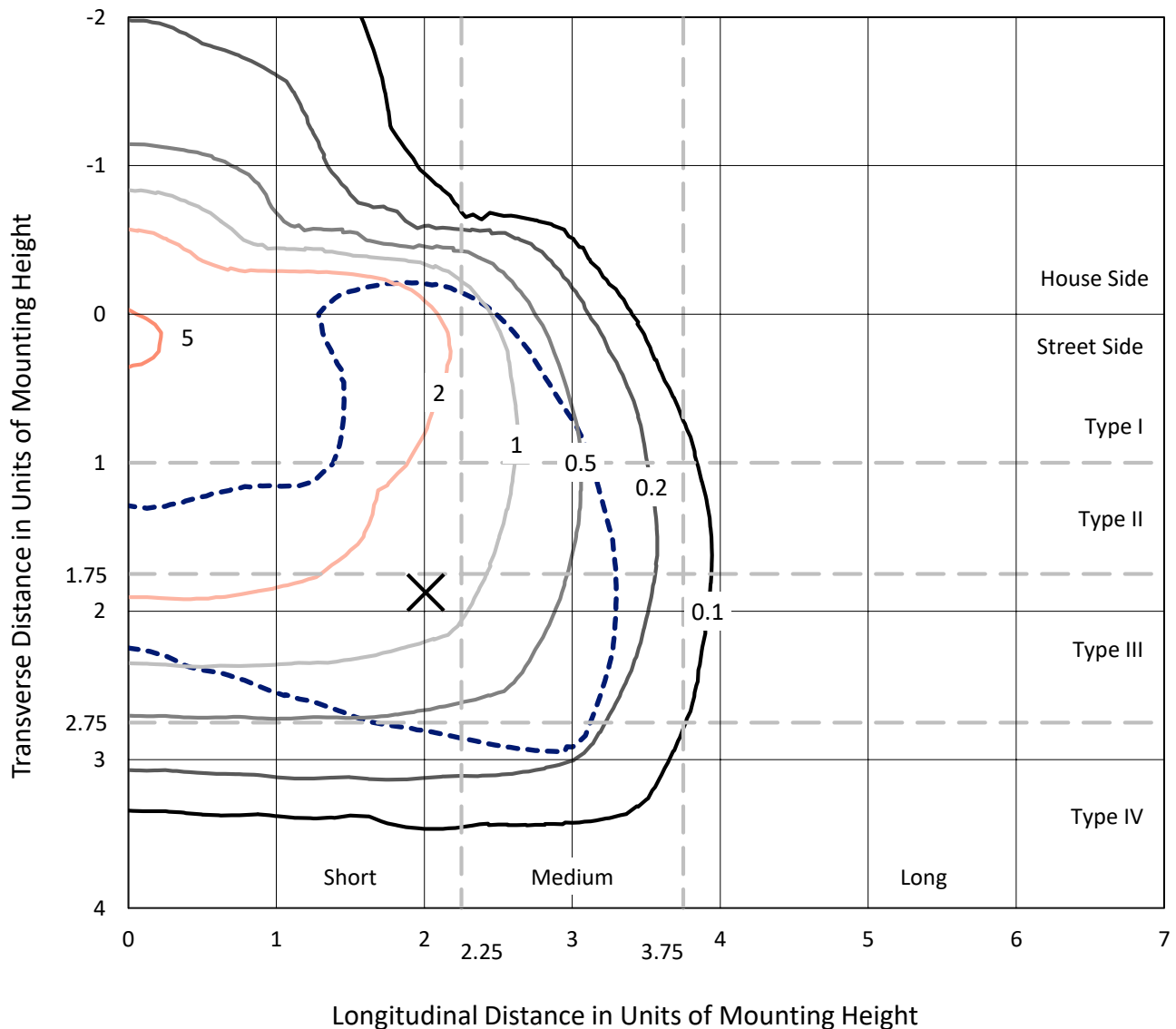


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

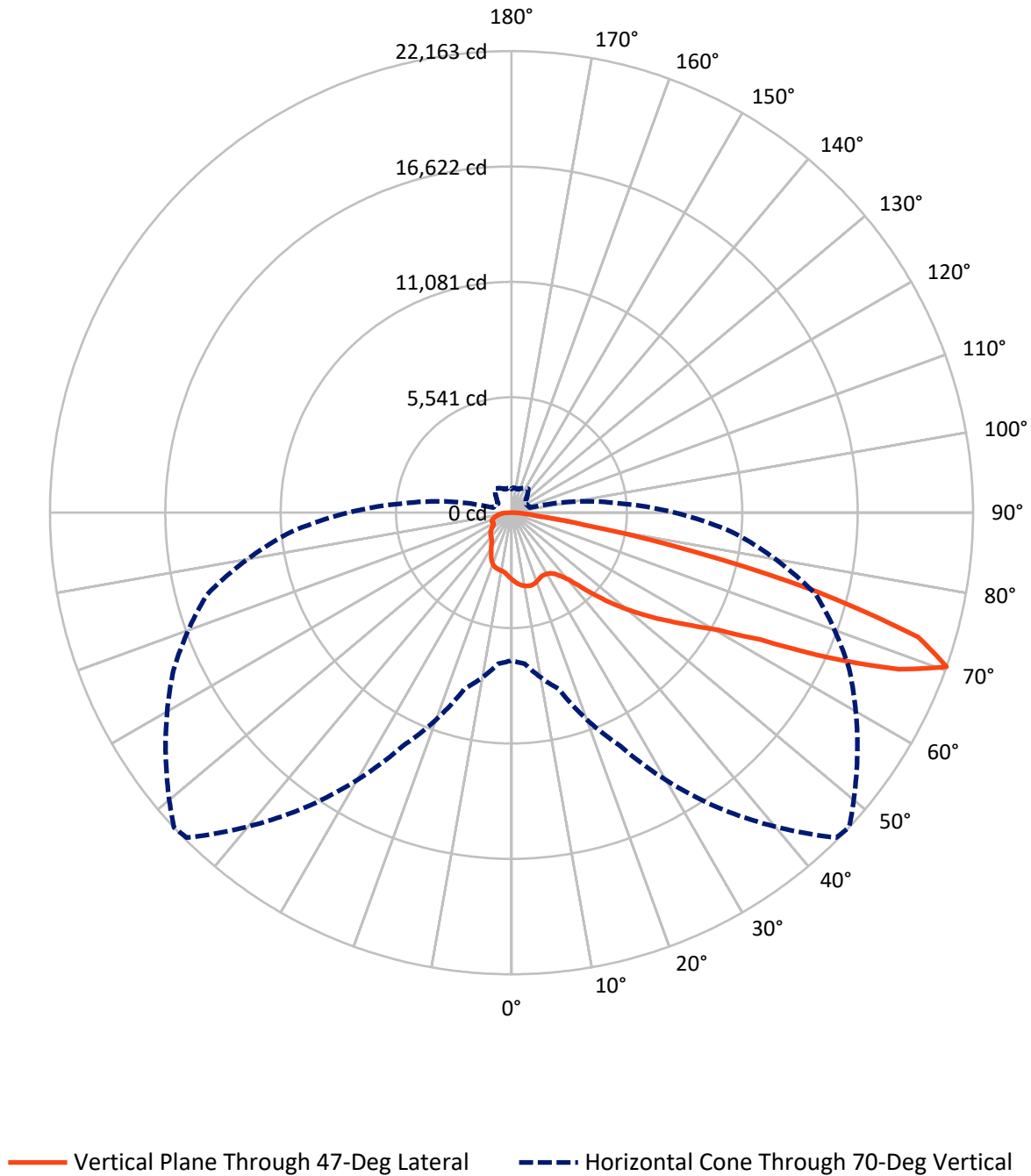


Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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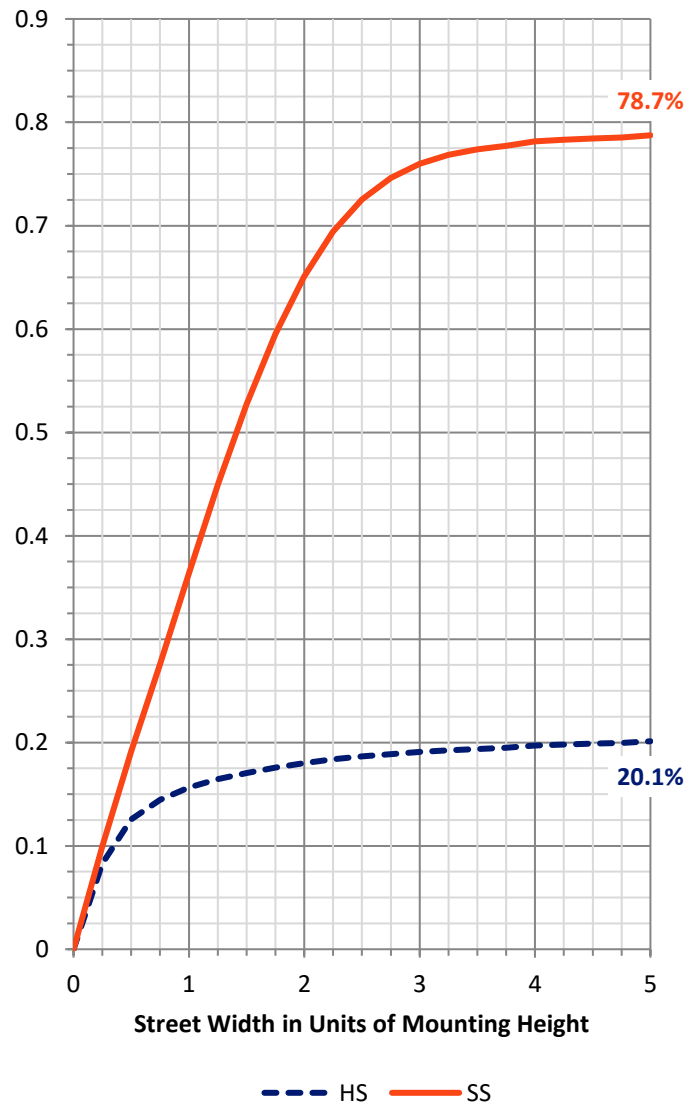
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5762.9	0.0	5762.9
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	21861.1	0.0	21861.1
	% Fixture	79.1	0.0	79.1
Total	Lumens	27624.0	0.0	27624.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.1	1.1
10°-20°	901.0	3.3
20°-30°	1330.5	4.8
30°-40°	1933.9	7.0
40°-50°	3480.4	12.6
50°-60°	6029.3	21.8
60°-70°	8605.6	31.2
70°-80°	4417.7	16.0
80°-90°	618.5	2.2
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°	27624.0	100.0
0°-180°	27624.0	100.0

Coefficient of Utilization



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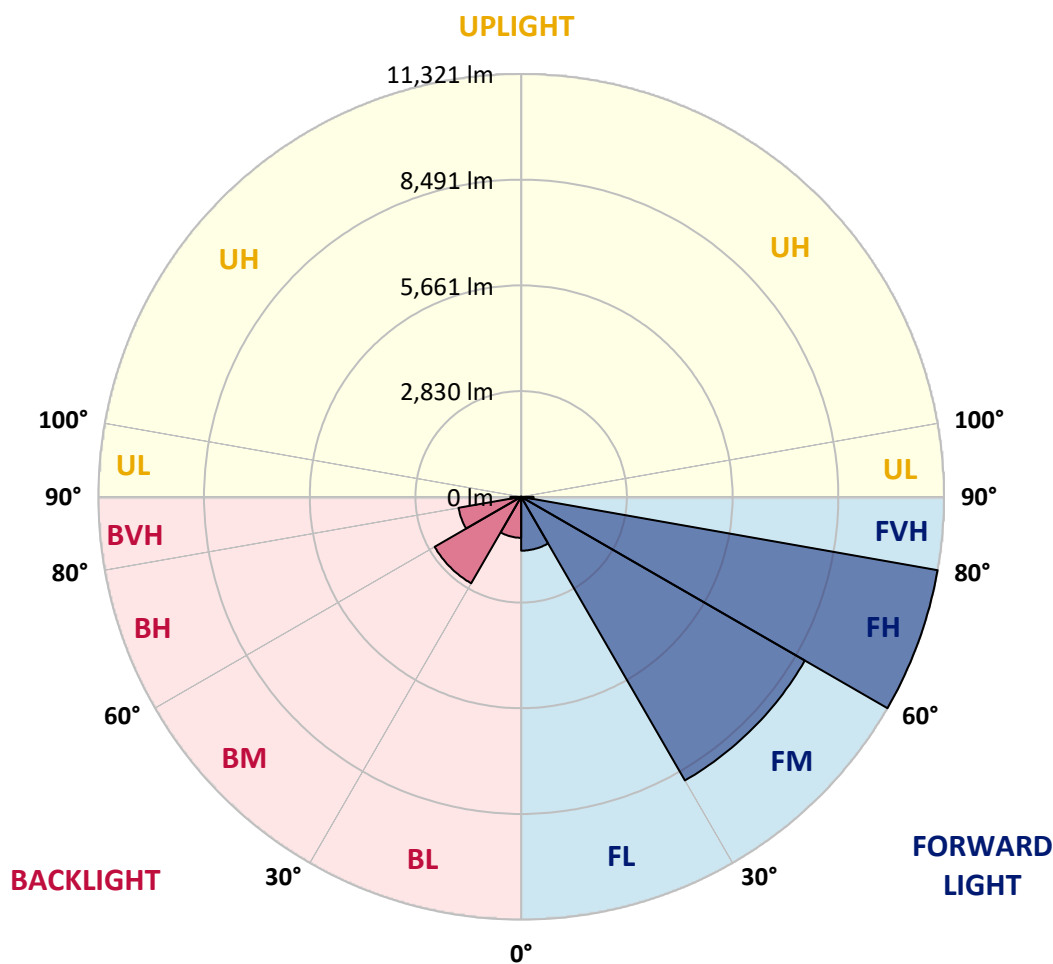
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1441.4	5.2			
FM	(30°-60°)	8768.6	31.7			
FH	(60°-80°)	11321.1	41.0			G4/12000
FVH	(80°-90°)	330.0	1.2			G3/500
BL	(0°-30°)	1097.3	4.0	B3/2500		
BM	(30°-60°)	2675.0	9.7	B3/5000		
BH	(60°-80°)	1702.2	6.2	B3/2500		G3/2500
BVH	(80°-90°)	288.5	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3205.2	3205.2	3205.2	3205.2	3205.2	3205.2	3205.2	3205.2	3205.2	3205.2	3205.2
2.5°	3393.4	3386.7	3384.0	3378.7	3371.8	3338.3	3331.6	3307.4	3273.7	3238.9	3202.6
5°	3616.5	3615.2	3600.3	3573.5	3530.5	3456.5	3439.1	3379.9	3300.6	3224.0	3147.4
7.5°	3812.7	3800.6	3772.4	3718.6	3643.4	3542.6	3518.3	3436.4	3327.5	3222.7	3119.3
10°	3956.5	3949.8	3888.0	3814.0	3715.9	3604.4	3576.2	3484.9	3365.1	3232.1	3103.1
12.5°	4038.4	4025.0	3953.8	3865.1	3748.1	3639.3	3611.1	3518.3	3384.0	3232.1	3080.2
15°	4033.1	4023.7	3952.5	3855.6	3737.4	3642.0	3616.5	3523.7	3379.9	3218.7	3050.7
17.5°	3925.5	3929.6	3869.1	3773.7	3677.0	3604.4	3581.5	3495.5	3353.0	3191.8	3015.8
20°	3737.4	3756.3	3715.9	3631.2	3577.4	3527.8	3513.0	3440.5	3311.4	3152.7	2978.1
22.5°	3549.3	3566.8	3550.6	3479.4	3471.3	3441.7	3433.7	3381.2	3275.1	3128.6	2955.3
25°	3410.8	3427.0	3424.3	3362.5	3386.7	3385.3	3378.7	3353.0	3267.1	3128.6	2959.3
27.5°	3373.3	3378.7	3373.3	3316.8	3350.4	3377.3	3371.8	3367.8	3291.2	3167.7	3010.4
30°	3502.3	3494.2	3452.5	3338.3	3369.2	3406.8	3401.5	3404.2	3363.9	3269.8	3124.6
32.5°	4017.0	3980.7	3848.9	3527.8	3445.8	3465.9	3468.7	3513.0	3519.7	3427.0	3302.1
35°	4787.0	4746.8	4576.0	4035.8	3683.6	3613.7	3613.7	3681.0	3721.3	3652.7	3577.4
37.5°	5602.9	5558.4	5467.2	4740.0	4183.6	3870.5	3863.7	3910.8	3968.7	3984.6	4003.6
40°	6530.1	6483.1	6508.6	5530.2	4881.1	4315.3	4219.9	4186.3	4342.2	4445.6	4596.2
42.5°	7544.8	7523.3	7532.7	6410.5	5675.4	4980.6	4844.8	4671.5	4859.7	5043.7	5359.5
45°	8484.2	8503.0	8493.6	7352.6	6559.7	5792.3	5648.4	5312.5	5496.7	5812.5	6327.2
47.5°	9306.6	9228.7	9349.7	8382.1	7550.2	6700.8	6523.5	6073.1	6260.0	6649.7	7520.6
50°	10305.2	10294.4	10117.0	9755.5	8747.6	7613.3	7380.8	6859.4	7149.6	7691.2	9024.4
52.5°	11354.8	11159.8	10997.3	10823.9	10017.6	8548.7	8263.8	7642.9	8195.2	8876.6	10857.5
55°	11569.8	11482.5	11684.0	11975.7	11241.9	9520.3	9188.3	8625.3	9372.5	10231.2	12971.5
57.5°	12029.5	12028.1	12444.7	12964.8	12502.4	10551.0	10216.5	9811.9	10696.3	11783.5	15215.9
60°	12339.8	12427.2	13201.4	14210.6	13740.2	11741.8	11434.1	11181.4	12201.4	13518.4	17307.0
62.5°	12502.4	12620.7	13677.1	14715.9	15490.0	13724.0	13416.4	13052.1	14193.1	15421.5	18530.0
65°	11826.4	12059.0	13603.1	15152.7	17022.0	16937.4	16798.9	16159.2	16683.5	16925.4	18087.8
67.5°	9955.7	10193.7	11991.8	14745.5	18116.1	20036.5	20066.0	18973.4	18215.4	17054.3	15207.8
70°	7093.2	7280.1	8767.7	12362.6	17282.8	22061.7	22162.5	20270.4	17910.5	15124.4	10625.0
72.5°	3367.8	3482.1	4890.6	8046.1	13714.7	20213.8	20408.7	18614.6	15229.3	11197.6	5796.3
75°	1237.8	1272.7	1653.0	3423.0	7954.6	14906.8	15136.6	13343.8	10095.5	5574.6	2208.0
77.5°	741.9	764.7	927.3	1444.7	3128.6	8520.5	8860.5	7257.1	4412.1	2075.1	1085.9
80°	518.8	535.0	665.3	899.1	1478.3	3246.8	3549.3	2962.0	1757.9	1313.0	790.3
82.5°	350.7	358.8	467.6	607.5	982.4	1159.8	1251.2	1317.0	1185.4	977.0	501.3
85°	229.8	237.8	317.2	400.4	625.0	599.4	612.8	775.4	865.5	663.9	278.2
87.5°	131.6	137.1	190.8	213.7	306.4	254.0	256.6	408.5	553.7	447.5	169.4
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°	3205.2	3205.2	3205.2	3205.2	3205.2	3205.2	3205.2	3205.2	3205.2	3205.2	3205.2
2.5°	3193.1	3175.7	3136.8	3112.5	3089.7	3084.3	3074.9	3073.6	3072.2	3072.2	3068.2
5°	3122.0	3092.4	3031.8	2998.3	2970.1	2967.4	2966.1	2972.7	2975.4	2978.1	2974.1
7.5°	3076.2	3035.9	2960.7	2912.3	2878.7	2870.6	2884.0	2914.9	2935.1	2943.2	2939.2
10°	3048.0	2998.3	2910.8	2858.5	2830.3	2826.2	2843.7	2880.0	2921.7	2937.8	2936.5
12.5°	3015.8	2959.3	2866.5	2811.5	2795.4	2803.4	2826.2	2859.9	2902.9	2928.3	2929.8
15°	2983.6	2917.7	2822.2	2773.9	2767.1	2777.9	2799.3	2824.9	2858.5	2884.0	2886.7
17.5°	2944.5	2876.0	2780.5	2730.8	2725.5	2730.8	2732.1	2745.5	2767.1	2791.3	2798.0
20°	2902.9	2833.0	2733.5	2683.9	2659.6	2638.1	2613.9	2616.6	2623.4	2647.6	2653.0
22.5°	2873.3	2803.4	2697.3	2628.7	2564.2	2499.8	2451.3	2444.5	2447.3	2467.4	2474.1
25°	2876.0	2802.1	2687.9	2569.6	2428.5	2324.9	2260.5	2249.7	2248.3	2263.2	2272.6
27.5°	2928.3	2854.5	2722.7	2509.1	2280.7	2127.4	2058.9	2050.8	2040.1	2044.1	2054.8
30°	3045.3	2976.8	2807.4	2447.3	2120.7	1933.9	1862.7	1854.5	1839.8	1833.2	1841.1
32.5°	3236.2	3179.7	2931.1	2388.2	1960.7	1768.6	1696.0	1678.5	1669.2	1661.1	1667.9
35°	3553.3	3529.2	3096.4	2323.6	1819.7	1641.0	1575.1	1548.2	1534.8	1549.6	1560.3
37.5°	4050.6	4064.0	3312.7	2222.9	1710.8	1556.3	1501.1	1470.2	1450.1	1462.2	1474.2
40°	4754.8	4764.1	3552.0	2080.4	1616.7	1506.5	1447.3	1419.2	1391.0	1369.4	1368.2
42.5°	5679.4	5584.0	3787.2	1925.8	1507.9	1475.6	1409.8	1374.8	1331.9	1272.7	1260.7
45°	6776.0	6441.4	3965.9	1748.4	1385.6	1438.0	1368.2	1319.8	1252.5	1187.9	1181.3
47.5°	8039.3	7362.0	4053.3	1564.4	1271.3	1382.9	1317.0	1240.4	1155.8	1123.5	1119.5
50°	9582.1	8454.6	4094.9	1385.6	1172.0	1310.3	1243.2	1153.1	1081.8	1075.1	1071.1
52.5°	11338.6	9769.0	4108.3	1239.1	1090.0	1216.3	1182.6	1095.4	1038.8	1044.2	1044.2
55°	13177.1	11126.3	3925.5	1132.9	1014.7	1119.5	1142.3	1072.5	1025.4	1046.9	1055.0
57.5°	14865.0	12329.2	3350.4	1051.0	943.5	1045.6	1127.5	1093.9	1061.7	1149.1	1154.5
60°	16160.6	13040.1	2502.4	977.0	891.0	1020.1	1166.6	1175.9	1184.1	1392.3	1420.5
62.5°	16432.0	12803.5	1720.2	919.2	866.9	1041.6	1237.8	1239.1	1229.7	1374.8	1392.3
65°	15186.3	11307.7	1251.2	886.9	846.6	1080.5	1298.2	1270.0	1208.2	1318.4	1286.1
67.5°	12060.4	8519.1	1041.6	862.8	817.1	1077.9	1362.7	1298.2	1196.1	1291.6	1239.1
70°	7828.3	5151.2	927.3	842.6	782.2	1026.7	1400.3	1295.5	1161.1	1201.5	1139.7
72.5°	3819.3	2303.5	850.7	813.1	745.9	955.5	1399.1	1271.3	1124.9	1122.2	1088.5
75°	1494.4	1055.0	780.7	768.7	684.1	874.8	1361.4	1236.4	1081.8	1038.8	1026.7
77.5°	874.8	752.6	692.1	702.9	610.1	794.2	1306.3	1175.9	1022.7	971.7	958.2
80°	637.0	563.1	590.0	607.5	521.5	713.6	1232.3	1102.0	956.9	982.4	963.5
82.5°	408.5	362.8	478.4	495.9	434.1	631.6	1151.7	1024.1	864.1	784.8	766.0
85°	208.3	229.8	356.1	377.6	334.7	518.8	1053.6	920.6	759.4	653.2	663.9
87.5°	116.9	157.3	227.2	254.0	236.5	399.2	854.7	759.4	619.5	504.0	443.5
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)