

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: P193241

Luminaire Tested: **GLEON-AF-03-LED-E1-T3R-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193241
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
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-T3R-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19712.5 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 191
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



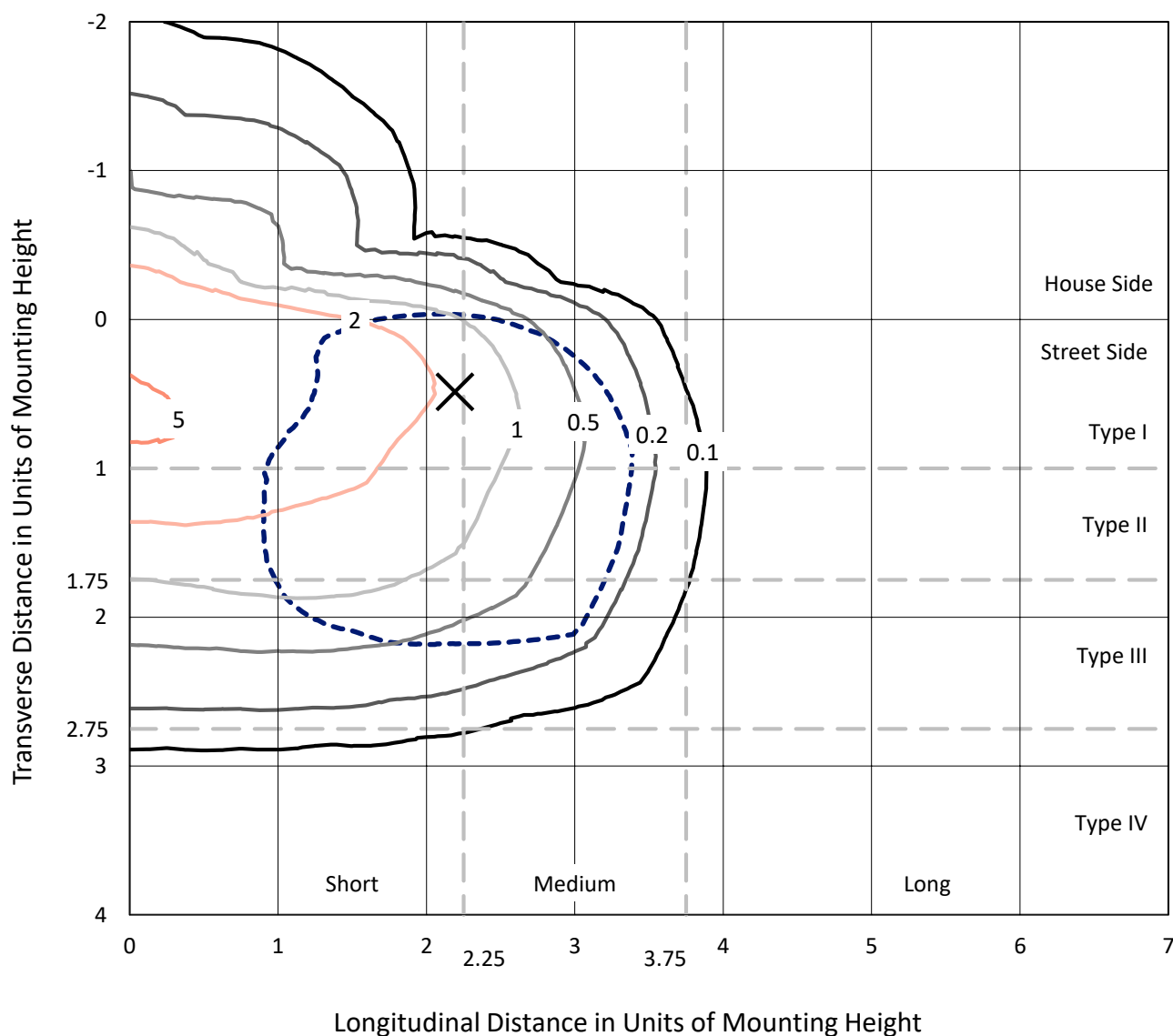
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

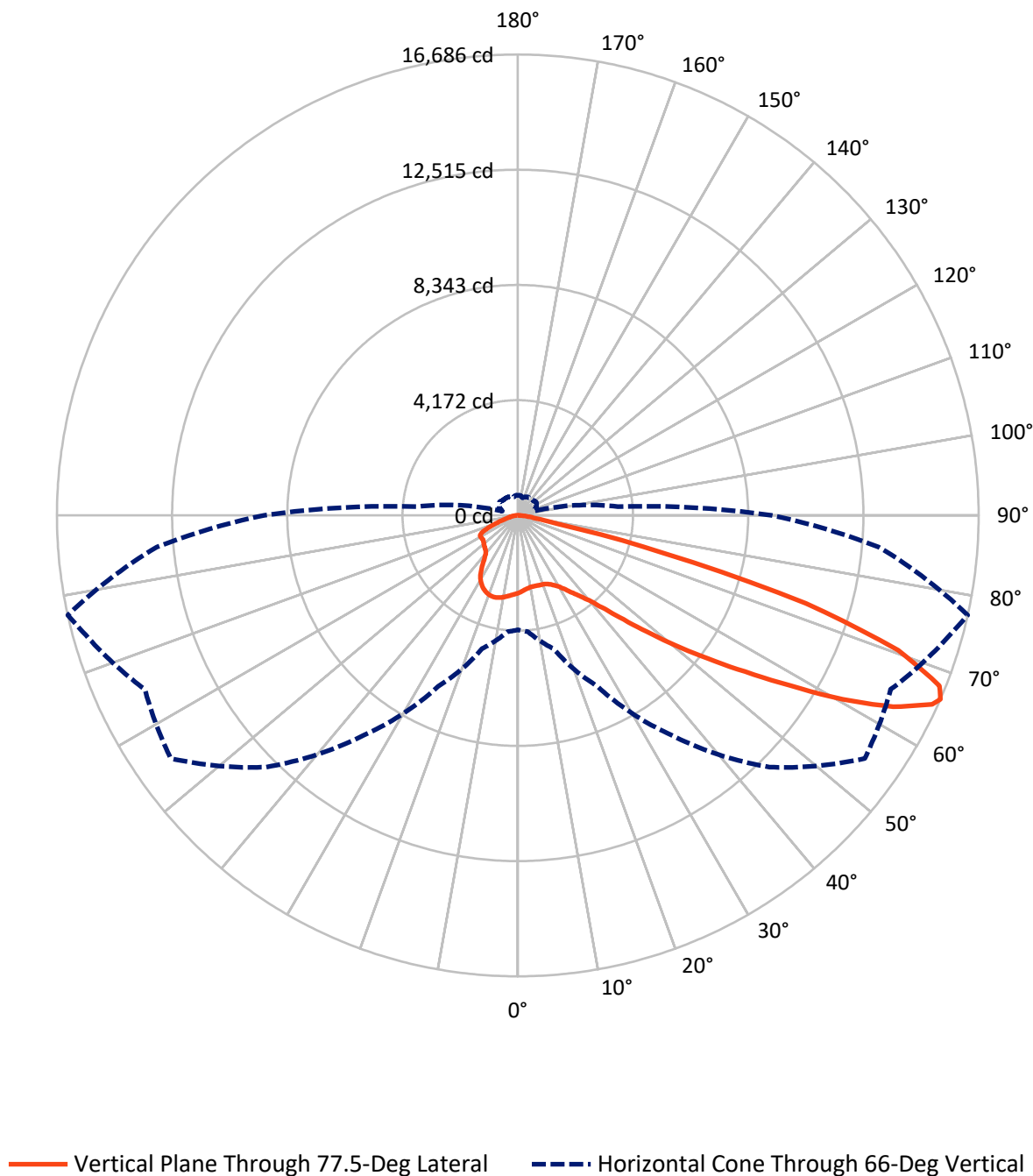


Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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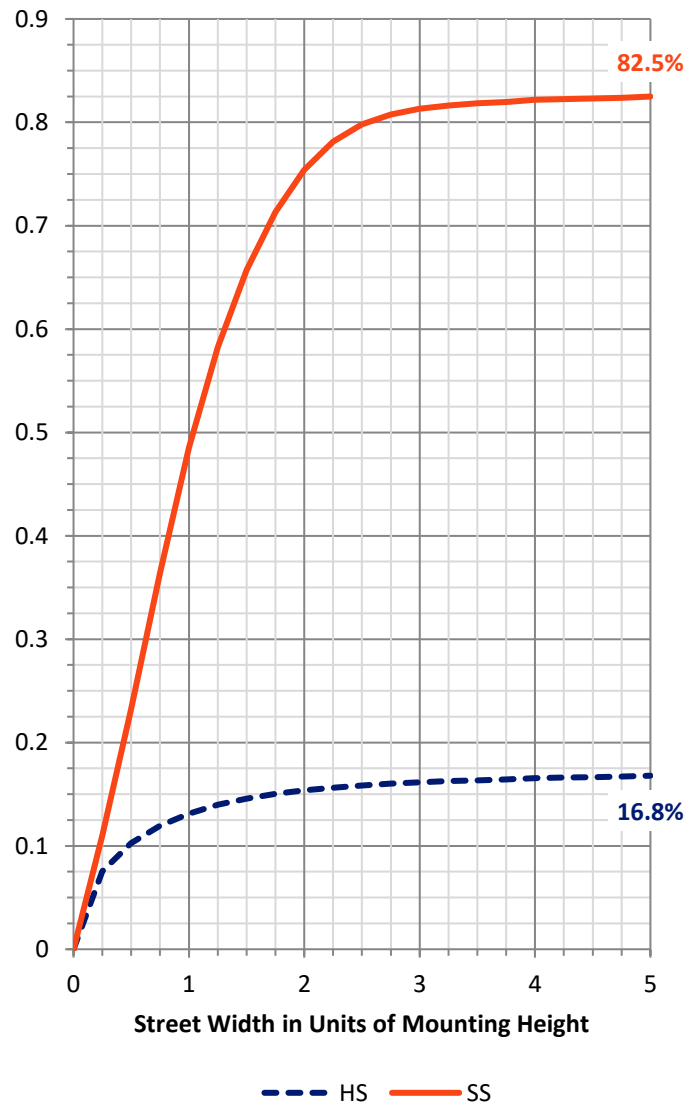
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3367.7	0.0	3367.7
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	16344.8	0.0	16344.8
	% Fixture	82.9	0.0	82.9
Total	Lumens	19712.5	0.0	19712.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.0	1.3
10°-20°	708.0	3.6
20°-30°	1208.4	6.1
30°-40°	1934.4	9.8
40°-50°	2988.4	15.2
50°-60°	4238.6	21.5
60°-70°	5670.2	28.8
70°-80°	2462.4	12.5
80°-90°	251.1	1.3
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°	19712.5	100.0
0°-180°	19712.5	100.0

Coefficient of Utilization



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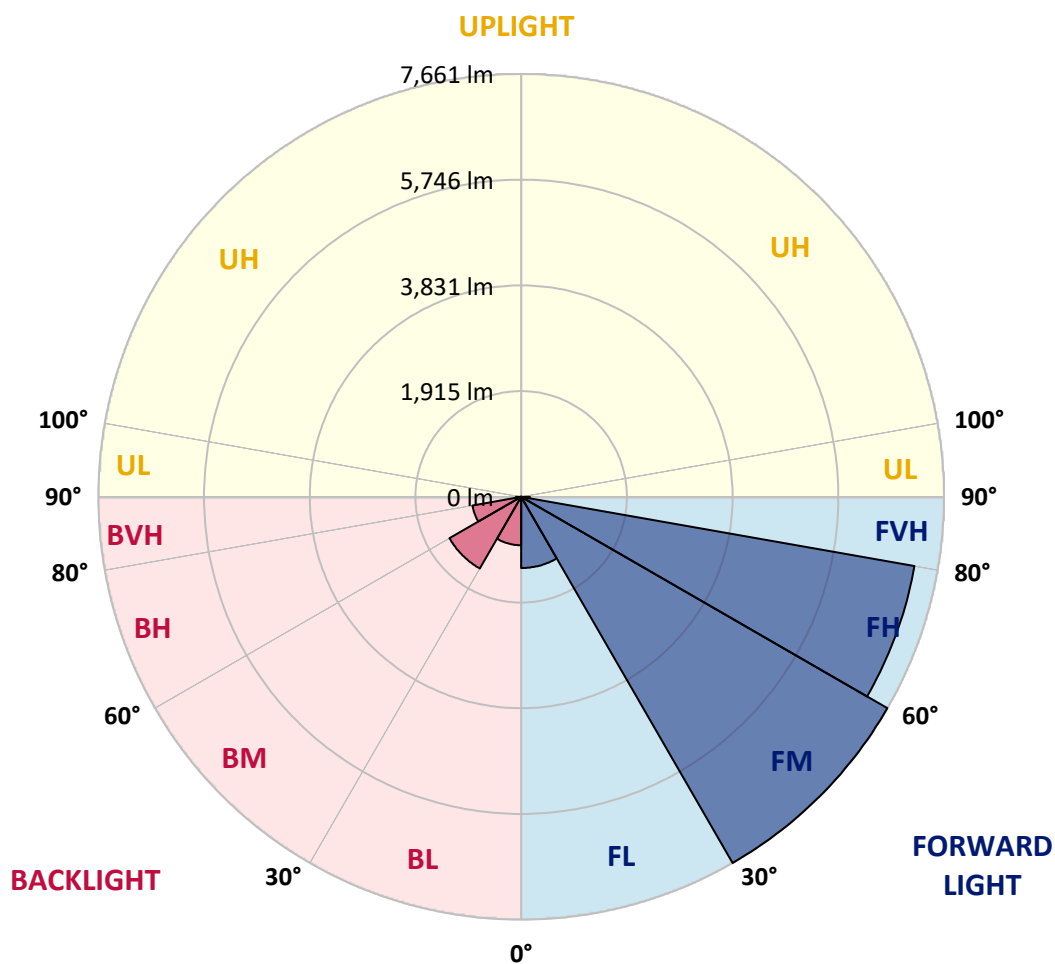
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1290.3	6.5			
FM	(30°-60°)	7661.3	38.9			
FH	(60°-80°)	7235.7	36.7			G3/7500
FVH	(80°-90°)	157.5	0.8			G2/225
BL	(0°-30°)	877.1	4.4	B2/1000		
BM	(30°-60°)	1500.1	7.6	B2/2500		
BH	(60°-80°)	896.9	4.5	B2/1000		G2/1000
BVH	(80°-90°)	93.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	2809.2	2809.2	2809.2	2809.2	2809.2	2809.2	2809.2	2809.2	2809.2	2809.2	2809.2
2.5°	2485.0	2501.8	2515.7	2528.8	2554.8	2597.7	2647.1	2687.1	2744.8	2756.1	2786.7
5°	2256.9	2256.9	2268.0	2287.6	2323.0	2387.2	2454.3	2543.7	2669.4	2699.2	2781.2
7.5°	2146.0	2147.0	2153.4	2170.2	2200.9	2259.6	2333.2	2438.4	2608.9	2658.3	2797.9
10°	2187.0	2177.6	2163.7	2155.2	2159.9	2194.4	2264.3	2381.7	2571.6	2635.0	2835.2
12.5°	2416.0	2398.3	2349.9	2285.7	2224.2	2199.1	2240.1	2354.6	2555.8	2629.4	2884.6
15°	2790.5	2783.1	2692.7	2559.5	2410.5	2285.7	2257.8	2344.3	2557.6	2635.9	2943.2
17.5°	3260.0	3249.7	3130.5	2936.8	2693.7	2450.5	2320.1	2352.8	2564.2	2647.1	3000.0
20°	3734.1	3702.4	3573.9	3342.8	3030.9	2675.0	2423.5	2374.2	2572.5	2659.2	3059.7
22.5°	4087.9	4061.9	3946.3	3721.9	3362.4	2934.9	2562.3	2411.5	2599.6	2694.6	3133.2
25°	4399.0	4401.0	4286.3	4069.4	3697.7	3210.6	2741.1	2511.1	2668.4	2767.2	3233.8
27.5°	4783.7	4761.4	4654.2	4439.1	4029.3	3489.0	2957.2	2648.0	2771.0	2870.6	3366.2
30°	5243.8	5228.0	5104.1	4860.1	4397.1	3788.0	3204.0	2807.3	2903.2	3006.6	3539.4
32.5°	5784.9	5777.5	5649.0	5335.1	4821.9	4140.2	3493.7	3017.7	3100.7	3207.8	3788.0
35°	6420.2	6421.1	6269.3	5892.2	5286.7	4550.0	3822.6	3288.8	3340.9	3452.7	4084.2
37.5°	6811.4	6858.9	6802.1	6417.5	5812.9	5008.2	4249.1	3648.3	3614.9	3727.5	4401.8
40°	6895.3	6952.9	7132.8	6937.1	6401.6	5513.0	4627.2	3993.9	3952.0	4089.8	4810.6
42.5°	6777.9	6857.9	7238.0	7375.9	7026.6	6135.2	5135.8	4507.1	4454.0	4639.3	5319.3
45°	6708.0	6767.6	7207.3	7604.0	7568.6	6838.4	5783.1	5151.7	5132.0	5375.1	5906.1
47.5°	6586.9	6641.0	7063.8	7657.1	7887.2	7482.9	6560.8	5939.6	5977.8	6296.3	6568.3
50°	6652.1	6674.5	6903.6	7522.1	7979.4	7955.1	7429.8	6852.4	6982.8	7380.5	7318.0
52.5°	6642.9	6700.6	6885.0	7300.3	7991.6	8246.7	8285.7	7870.4	8145.2	8601.6	8149.8
55°	5370.5	5476.7	6666.1	7244.6	8034.4	8532.6	9047.8	8943.4	9455.7	9987.5	9088.7
57.5°	5128.3	5195.4	5854.8	7361.9	8261.6	9078.5	9895.3	10124.4	10981.3	11598.9	10232.4
60°	5080.9	5163.7	5846.5	7505.3	8722.6	9967.9	11151.8	11554.1	12837.6	13513.8	11558.7
62.5°	4932.7	5022.2	5791.5	7486.7	9377.4	11198.3	12760.3	13074.2	14598.0	15255.6	12668.1
65°	4463.3	4547.2	5343.6	7185.9	9818.9	12511.6	14664.1	14467.6	15987.7	16482.2	13221.4
66°	4142.0	4224.0	4990.5	6831.9	9716.4	12884.2	15338.5	14898.8	16298.7	16686.2	13113.3
67.5°	3554.3	3618.5	4305.0	6039.3	9171.6	12988.5	15905.8	15223.0	16331.3	16468.2	12495.8
70°	2245.6	2264.3	2797.9	4169.0	6942.8	11264.5	15042.3	14418.2	14984.6	14613.9	10475.6
72.5°	974.3	967.7	1343.2	2120.8	3930.6	7558.4	12167.9	11896.9	11754.4	10908.7	7333.1
75°	542.0	549.6	697.6	984.5	1597.4	3712.6	7959.9	7617.1	6431.4	5487.9	3325.1
77.5°	435.0	445.2	578.4	698.6	717.2	1294.6	3724.7	3030.9	1824.6	1464.2	924.0
80°	343.7	362.3	504.8	543.9	483.4	533.7	1203.4	962.1	721.8	662.2	478.8
82.5°	271.9	285.0	433.1	411.7	338.0	359.6	576.6	561.6	469.4	427.5	276.7
85°	195.6	219.8	355.7	310.2	221.7	242.1	382.9	367.0	269.3	219.8	122.1
87.5°	80.1	104.4	251.6	205.9	123.9	112.6	190.9	179.7	127.7	93.1	60.5
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°	2809.2	2809.2	2809.2	2809.2	2809.2	2809.2	2809.2	2809.2	2809.2	2809.2	2809.2
2.5°	2806.4	2828.7	2857.5	2875.2	2884.6	2891.1	2901.4	2900.4	2903.2	2904.1	2907.8
5°	2825.0	2862.3	2904.1	2915.4	2915.4	2905.1	2894.9	2878.1	2871.6	2869.7	2871.6
7.5°	2873.4	2914.4	2950.6	2937.7	2909.7	2868.7	2815.6	2769.0	2743.9	2735.6	2733.6
10°	2934.9	2984.2	2999.1	2949.8	2867.8	2769.0	2663.8	2587.5	2543.7	2531.5	2527.8
12.5°	3009.4	3056.0	3035.4	2931.1	2779.3	2620.0	2474.7	2352.8	2261.4	2232.6	2230.7
15°	3091.4	3127.6	3056.0	2873.4	2647.1	2412.3	2153.4	1942.9	1829.3	1793.0	1790.2
17.5°	3167.8	3186.3	3043.9	2772.8	2452.5	2072.4	1728.7	1566.7	1527.6	1536.8	1538.7
20°	3232.9	3232.9	3002.9	2628.4	2146.0	1624.3	1407.4	1404.5	1432.5	1460.5	1466.0
22.5°	3304.6	3261.8	2931.1	2424.5	1712.0	1329.1	1297.5	1323.5	1355.3	1386.0	1390.6
25°	3393.1	3285.1	2831.5	2115.3	1345.8	1207.1	1219.3	1240.6	1256.5	1276.0	1278.9
27.5°	3491.8	3314.9	2700.2	1689.5	1168.0	1130.8	1140.0	1147.5	1145.6	1153.1	1155.0
30°	3610.2	3349.4	2520.4	1320.7	1094.4	1065.5	1048.8	1042.3	1042.3	1054.4	1059.0
32.5°	3768.5	3400.5	2262.4	1131.7	1059.0	1019.0	965.0	940.7	950.0	991.0	1000.4
35°	3942.6	3455.6	1913.1	1067.4	1051.5	997.5	913.7	869.0	869.9	908.2	920.2
37.5°	4132.6	3525.4	1530.2	1055.3	1068.3	998.5	886.7	825.2	800.1	800.1	804.7
40°	4375.8	3597.2	1238.8	1063.6	1103.7	1009.7	872.8	790.8	720.0	721.8	725.6
42.5°	4692.4	3658.5	1082.3	1081.3	1146.5	1024.6	871.8	745.1	683.6	725.6	763.7
45°	5044.5	3689.3	1013.4	1097.2	1181.0	1033.8	856.9	737.7	688.4	813.1	885.8
47.5°	5449.7	3671.6	975.1	1102.8	1189.4	1033.8	840.1	755.4	720.9	941.7	1026.4
50°	5894.0	3620.5	937.9	1091.6	1186.7	1032.0	855.9	773.1	733.0	964.0	1022.6
52.5°	6416.5	3577.5	898.7	1067.4	1167.1	1021.8	874.6	765.6	694.8	876.5	917.4
55°	7012.6	3589.6	855.1	1032.9	1136.3	1002.2	868.1	735.9	654.8	772.1	797.3
57.5°	7774.5	3734.1	802.8	989.2	1094.4	969.5	844.8	721.8	642.7	700.5	715.3
60°	8624.8	3985.4	737.7	945.4	1042.3	917.4	827.1	728.3	648.2	694.8	702.3
62.5°	9248.9	4131.7	681.8	881.0	971.5	859.7	804.7	736.7	663.2	714.3	712.5
65°	9418.3	3891.4	612.0	787.0	875.5	799.1	776.9	746.0	669.6	730.2	721.8
66°	9180.9	3632.6	581.1	743.3	827.1	769.3	762.8	745.1	666.9	732.0	718.2
67.5°	8604.3	3101.6	528.2	679.0	749.7	724.6	740.4	736.7	659.5	730.2	710.6
70°	7017.2	2116.2	451.8	565.4	624.1	638.0	697.6	706.9	635.3	697.6	654.8
72.5°	4902.9	1289.0	399.6	438.6	504.8	543.9	638.9	665.9	602.7	609.1	568.1
75°	2369.5	684.6	362.3	340.1	392.1	454.5	568.1	610.1	551.4	509.4	494.6
77.5°	738.6	418.3	307.3	273.8	307.3	367.0	475.1	534.6	490.9	426.5	420.9
80°	396.8	307.3	236.5	219.8	243.1	287.8	373.4	446.1	422.0	382.9	341.9
82.5°	261.6	199.3	175.2	170.5	185.3	219.8	277.5	369.8	369.8	327.9	238.4
85°	135.1	122.1	120.1	120.1	129.5	146.2	189.1	285.0	303.6	173.2	143.4
87.5°	67.0	69.8	65.2	68.0	72.6	71.7	90.3	143.4	171.4	105.2	87.5
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)