

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: P192742

Luminaire Tested: **GLEON-AF-04-LED-E1-RW-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192742
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-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19179.4 lumens
Efficiency: N/A
Efficacy: 112.2 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): 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

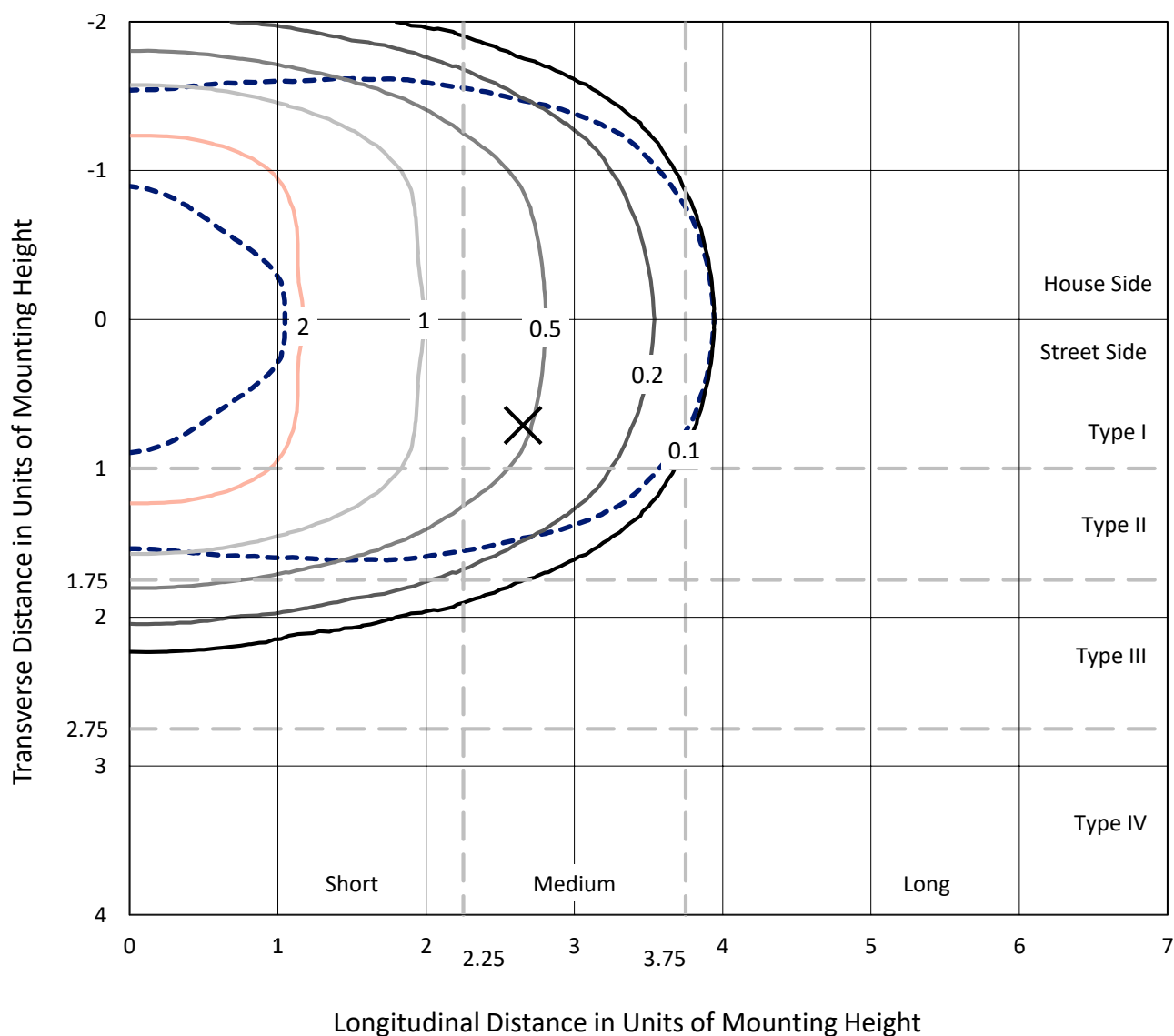


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

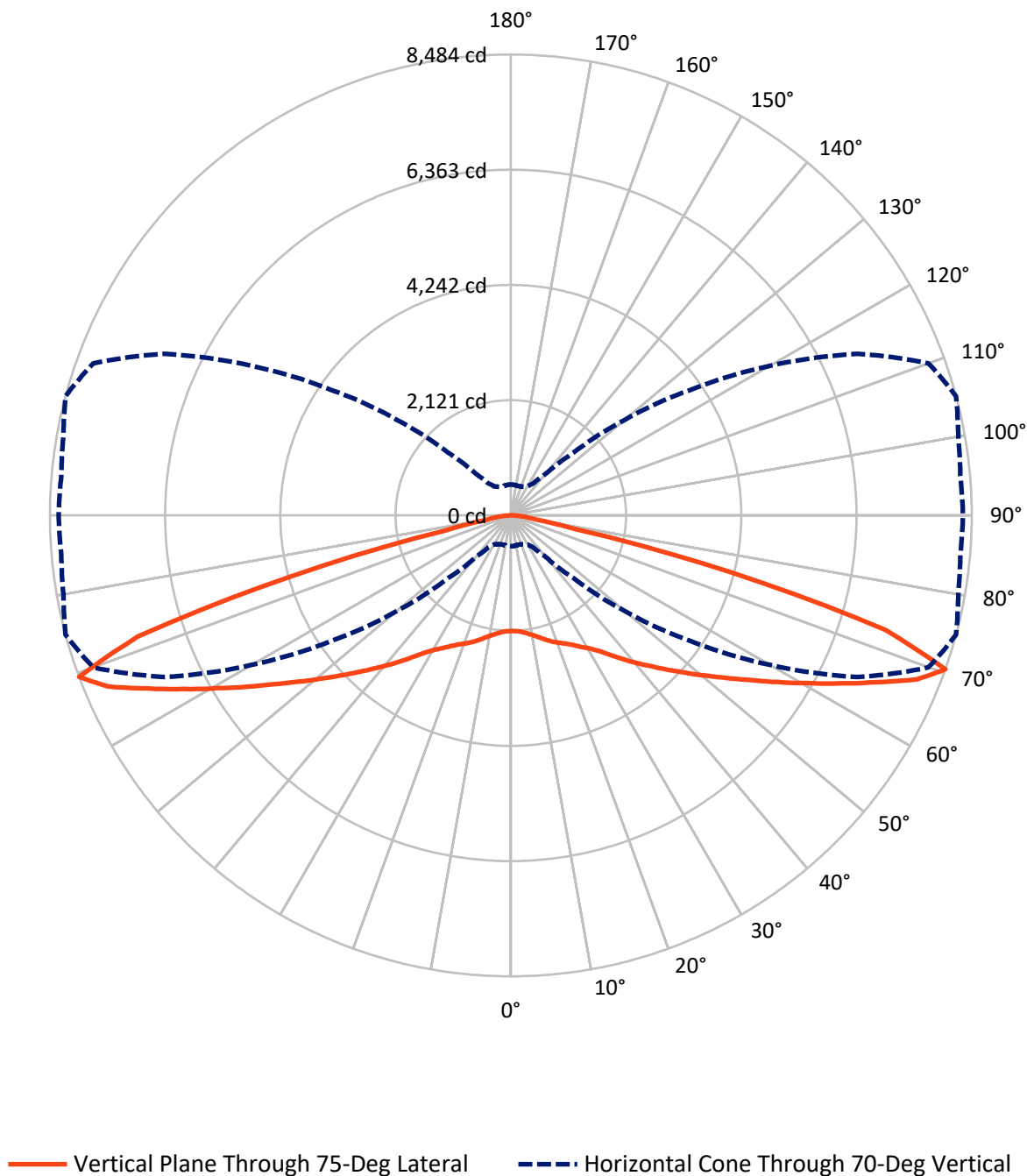


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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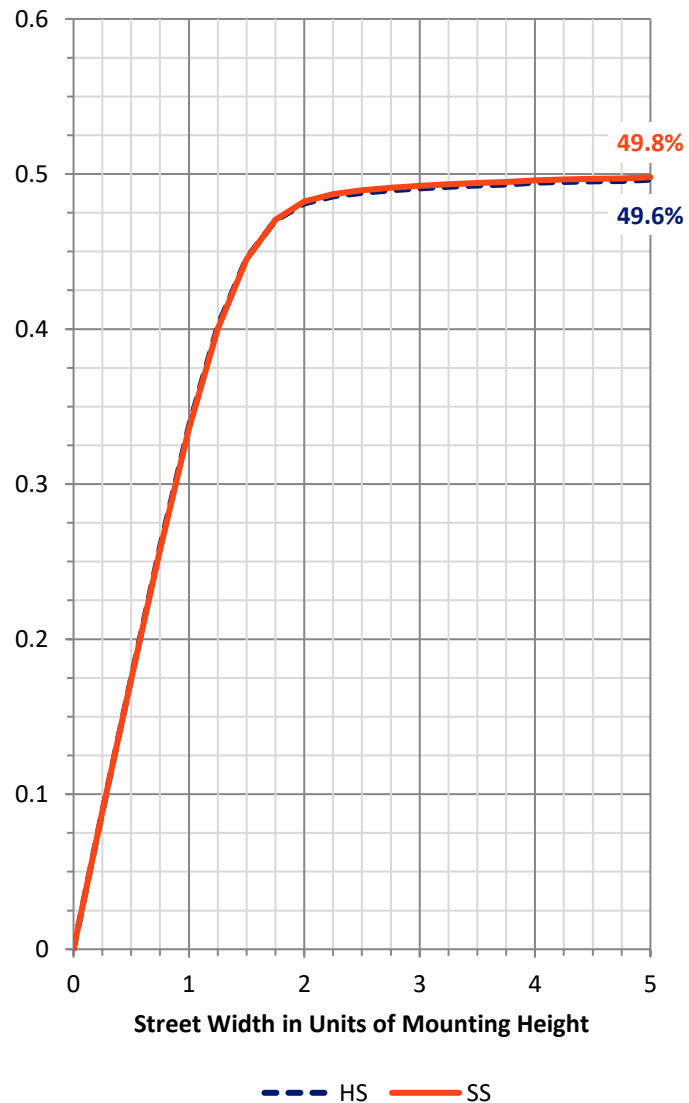
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9589.7	0.0	9589.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9589.7	0.0	9589.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	19179.4	0.0	19179.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.0	1.1
10°-20°	634.0	3.3
20°-30°	1193.2	6.2
30°-40°	2113.0	11.0
40°-50°	3533.6	18.4
50°-60°	4924.1	25.7
60°-70°	4566.3	23.8
70°-80°	1819.8	9.5
80°-90°	191.3	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°	19179.4	100.0
0°-180°	19179.4	100.0

Coefficient of Utilization



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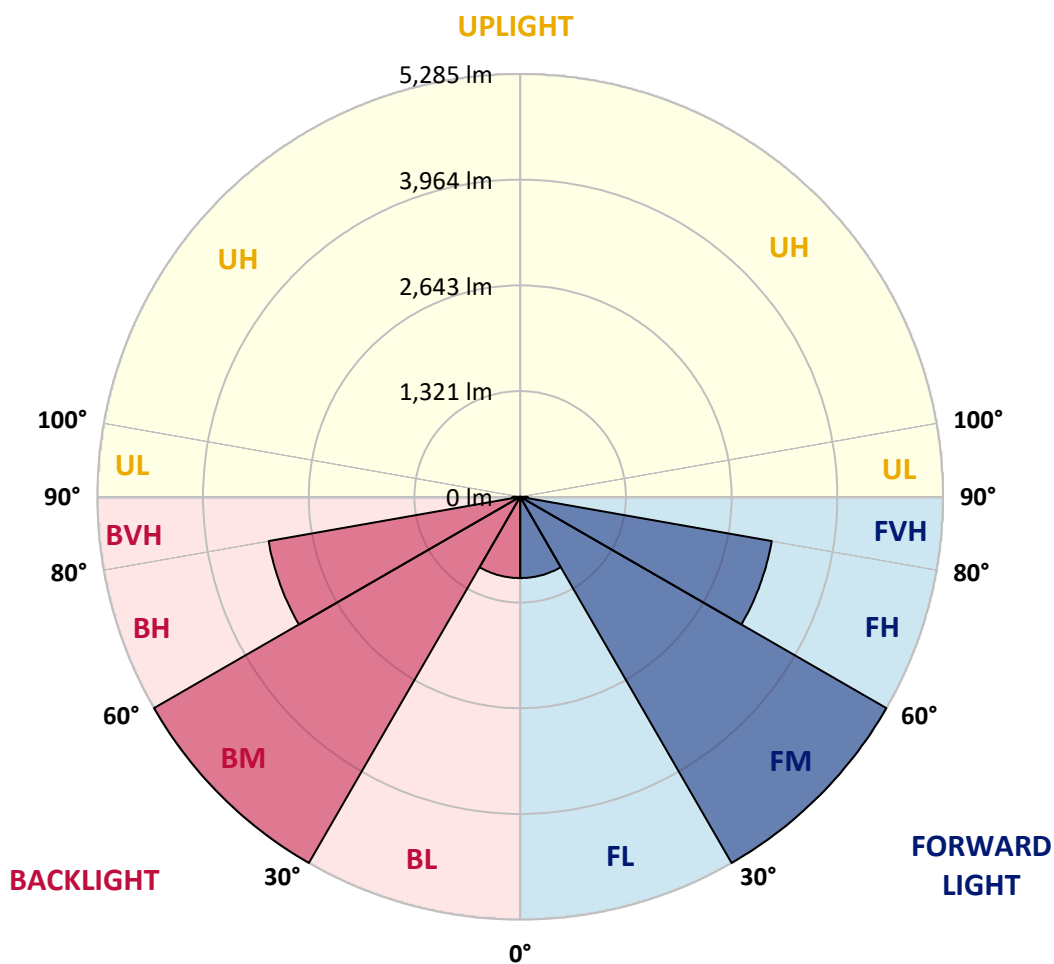
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1015.6	5.3			
FM	(30°-60°)	5285.3	27.6			
FH	(60°-80°)	3193.1	16.6			G2/5000
FVH	(80°-90°)	95.6	0.5			G1/100
BL	(0°-30°)	1015.6	5.3	B3/2500		
BM	(30°-60°)	5285.3	27.6	B4/8500		
BH	(60°-80°)	3193.1	16.6	B4/5000		G4/5000
BVH	(80°-90°)	95.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4
2.5°	2123.8	2122.1	2123.8	2122.9	2124.8	2124.8	2126.5	2130.1	2130.1	2132.8	2131.9
5°	2102.9	2102.0	2104.8	2107.5	2110.3	2115.7	2121.0	2129.3	2135.6	2140.2	2144.6
7.5°	2062.2	2062.2	2065.8	2072.1	2078.4	2090.2	2102.9	2119.3	2135.6	2149.2	2160.9
10°	2028.6	2030.5	2035.0	2045.9	2056.7	2074.9	2092.1	2115.7	2138.3	2160.9	2179.0
12.5°	2008.7	2011.5	2019.5	2035.9	2054.0	2078.4	2104.8	2134.7	2160.0	2187.3	2205.4
15°	2015.1	2016.8	2028.6	2048.6	2072.1	2102.9	2138.3	2173.7	2203.5	2232.6	2257.1
17.5°	2050.4	2053.1	2066.7	2089.4	2113.8	2150.1	2188.1	2228.1	2265.3	2297.8	2327.8
20°	2113.8	2116.6	2133.9	2158.3	2187.3	2224.4	2262.5	2304.2	2345.9	2380.3	2413.9
22.5°	2203.5	2208.1	2224.4	2248.9	2281.6	2321.4	2366.8	2411.2	2451.0	2482.8	2512.6
25°	2321.4	2331.4	2346.8	2373.9	2408.4	2444.6	2493.7	2538.9	2577.0	2606.9	2628.7
27.5°	2488.2	2501.8	2513.6	2539.8	2573.4	2607.9	2656.8	2696.7	2732.9	2762.0	2778.3
30°	2709.4	2723.0	2734.8	2760.1	2790.9	2823.6	2869.8	2905.2	2927.8	2950.5	2949.6
32.5°	2977.7	2992.2	2996.8	3024.0	3055.7	3091.0	3132.7	3152.6	3170.8	3173.4	3157.1
35°	3277.8	3285.0	3303.1	3339.4	3375.7	3404.6	3444.5	3454.4	3454.4	3440.9	3404.6
37.5°	3606.7	3611.3	3636.7	3677.4	3714.6	3744.6	3771.7	3791.8	3781.7	3752.7	3692.0
40°	3967.5	3975.7	4012.0	4048.2	4089.9	4118.0	4147.1	4150.6	4140.7	4098.1	4015.6
42.5°	4312.0	4319.2	4355.5	4412.7	4466.9	4506.0	4533.1	4538.6	4506.8	4467.9	4365.5
45°	4608.4	4627.4	4674.5	4741.7	4820.5	4875.8	4913.0	4928.3	4900.3	4849.5	4730.8
47.5°	4843.1	4862.1	4929.2	5009.0	5106.9	5196.7	5258.3	5291.0	5283.7	5245.6	5115.9
50°	5015.4	5033.5	5106.0	5203.9	5318.2	5429.6	5534.7	5612.7	5640.0	5622.7	5503.9
52.5°	5035.3	5065.3	5150.5	5281.9	5430.5	5582.8	5732.4	5864.7	5954.5	5968.1	5880.2
55°	4757.0	4786.9	4904.7	5099.6	5320.8	5569.3	5808.6	6031.5	6208.3	6298.9	6252.7
57.5°	4100.8	4154.2	4278.5	4506.8	4832.3	5203.9	5585.6	5981.6	6341.5	6581.8	6628.0
60°	3142.7	3206.1	3331.2	3574.1	3936.7	4379.9	4889.4	5475.0	6110.5	6650.6	6973.4
62.5°	2016.0	2075.8	2207.2	2418.5	2713.9	3194.3	3740.9	4436.2	5290.0	6143.0	6911.6
65°	1036.1	1068.7	1137.6	1265.4	1495.6	1854.5	2345.0	3038.4	4014.6	5067.0	6178.4
67.5°	656.3	662.6	678.1	696.2	755.1	879.2	1107.7	1540.0	2343.2	3440.9	4741.7
70°	567.4	567.4	560.2	557.4	564.8	582.0	617.4	718.0	988.9	1633.4	2734.8
72.5°	519.4	513.9	501.3	491.3	489.5	489.5	496.7	512.1	555.7	665.4	1070.5
75°	478.5	463.2	446.0	434.2	429.6	425.1	424.3	426.9	436.1	453.2	511.3
77.5°	428.8	408.8	388.9	377.1	371.6	365.3	359.9	353.6	349.0	354.4	379.7
80°	369.0	346.3	330.8	323.6	318.2	309.1	297.3	286.5	276.4	274.7	290.1
82.5°	297.3	271.1	271.9	274.7	264.7	252.0	239.3	227.5	210.4	201.2	210.4
85°	240.3	226.6	220.2	237.5	223.0	204.0	184.0	163.2	135.9	114.1	124.2
87.5°	93.4	93.4	139.7	214.8	193.1	157.8	135.1	115.2	71.6	55.2	56.2
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°	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4
2.5°	2131.1	2132.8	2131.9	2131.1	2131.1	2130.1	2131.1	2131.1
5°	2147.4	2151.9	2151.9	2153.7	2153.7	2154.6	2155.5	2154.6
7.5°	2171.8	2180.0	2185.4	2191.8	2192.8	2193.6	2195.4	2193.6
10°	2196.3	2212.6	2224.4	2236.2	2241.7	2243.4	2245.3	2245.3
12.5°	2227.1	2249.7	2270.6	2291.5	2301.4	2306.9	2306.9	2310.5
15°	2277.9	2300.6	2325.0	2353.1	2370.4	2379.4	2382.2	2382.2
17.5°	2349.5	2369.5	2390.3	2417.5	2439.2	2451.0	2453.8	2452.9
20°	2432.8	2452.0	2463.7	2481.0	2500.0	2513.6	2517.3	2517.3
22.5°	2528.0	2538.9	2540.9	2546.2	2561.6	2579.7	2588.0	2589.8
25°	2633.2	2636.0	2628.7	2628.7	2638.7	2655.9	2664.1	2665.0
27.5°	2769.1	2755.6	2737.5	2731.2	2737.5	2757.3	2767.4	2771.1
30°	2938.7	2906.1	2864.3	2841.8	2838.1	2864.3	2882.5	2885.2
32.5°	3132.7	3085.6	3030.3	2984.1	2972.3	2988.6	3010.3	3009.4
35°	3362.9	3306.7	3239.6	3180.7	3153.5	3169.8	3200.6	3204.3
37.5°	3628.5	3555.1	3478.0	3403.8	3361.2	3365.6	3398.3	3409.1
40°	3924.9	3829.7	3732.8	3633.1	3572.3	3560.5	3600.4	3606.7
42.5°	4242.2	4119.8	3997.5	3874.2	3796.2	3778.0	3824.3	3821.6
45°	4580.2	4424.4	4281.3	4145.2	4052.8	4025.5	4063.6	4063.6
47.5°	4943.8	4751.5	4581.2	4427.0	4326.4	4287.6	4323.7	4326.4
50°	5329.0	5125.1	4924.8	4753.5	4632.9	4583.0	4630.2	4637.4
52.5°	5712.4	5514.0	5311.7	5115.9	4970.1	4909.3	4963.7	4987.2
55°	6101.4	5906.4	5713.3	5522.1	5349.0	5277.3	5335.3	5365.2
57.5°	6512.0	6331.6	6147.6	5954.5	5787.7	5676.2	5737.9	5777.7
60°	6993.2	6839.2	6647.9	6435.0	6266.3	6152.9	6188.3	6223.7
62.5°	7374.0	7433.8	7271.5	7025.1	6808.4	6663.2	6697.8	6735.0
65°	7190.0	7803.7	7947.7	7698.5	7398.5	7172.8	7158.2	7177.2
67.5°	6009.8	7201.8	8071.0	8308.5	8057.5	7743.9	7685.9	7713.9
70°	4020.0	5504.9	7038.6	8180.7	8484.4	8362.9	8305.8	8323.1
72.5°	1930.7	3206.1	4775.1	6293.5	7218.1	7642.2	7778.2	7844.4
75°	706.2	1272.7	2301.4	3468.1	4187.0	4846.7	5277.3	5453.2
77.5°	426.0	513.9	735.1	1106.8	1253.6	1403.2	1345.2	1374.2
80°	315.4	356.1	403.3	453.2	469.5	469.5	451.5	436.9
82.5°	221.1	247.5	270.1	297.3	304.7	290.9	239.3	190.3
85°	142.4	154.0	164.1	181.3	176.8	168.6	113.3	100.6
87.5°	65.2	74.3	77.9	86.1	82.5	78.8	56.2	47.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)