

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: P192080

Luminaire Tested: **GLEON-AF-02-LED-E1-SLL-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192080
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-SLL-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8648 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 85
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

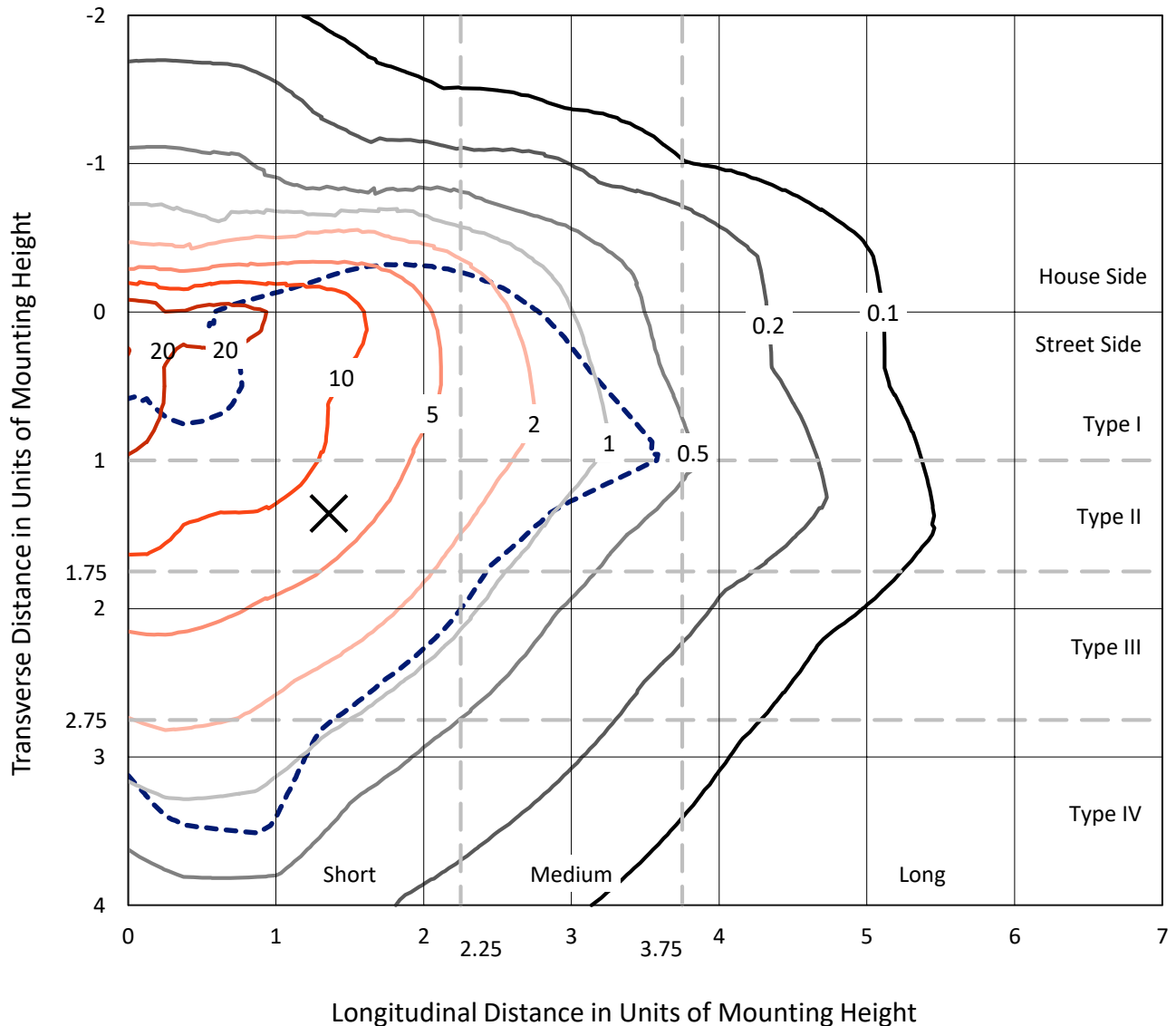


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Iso-Footcandle Lines of Horizontal Illumination

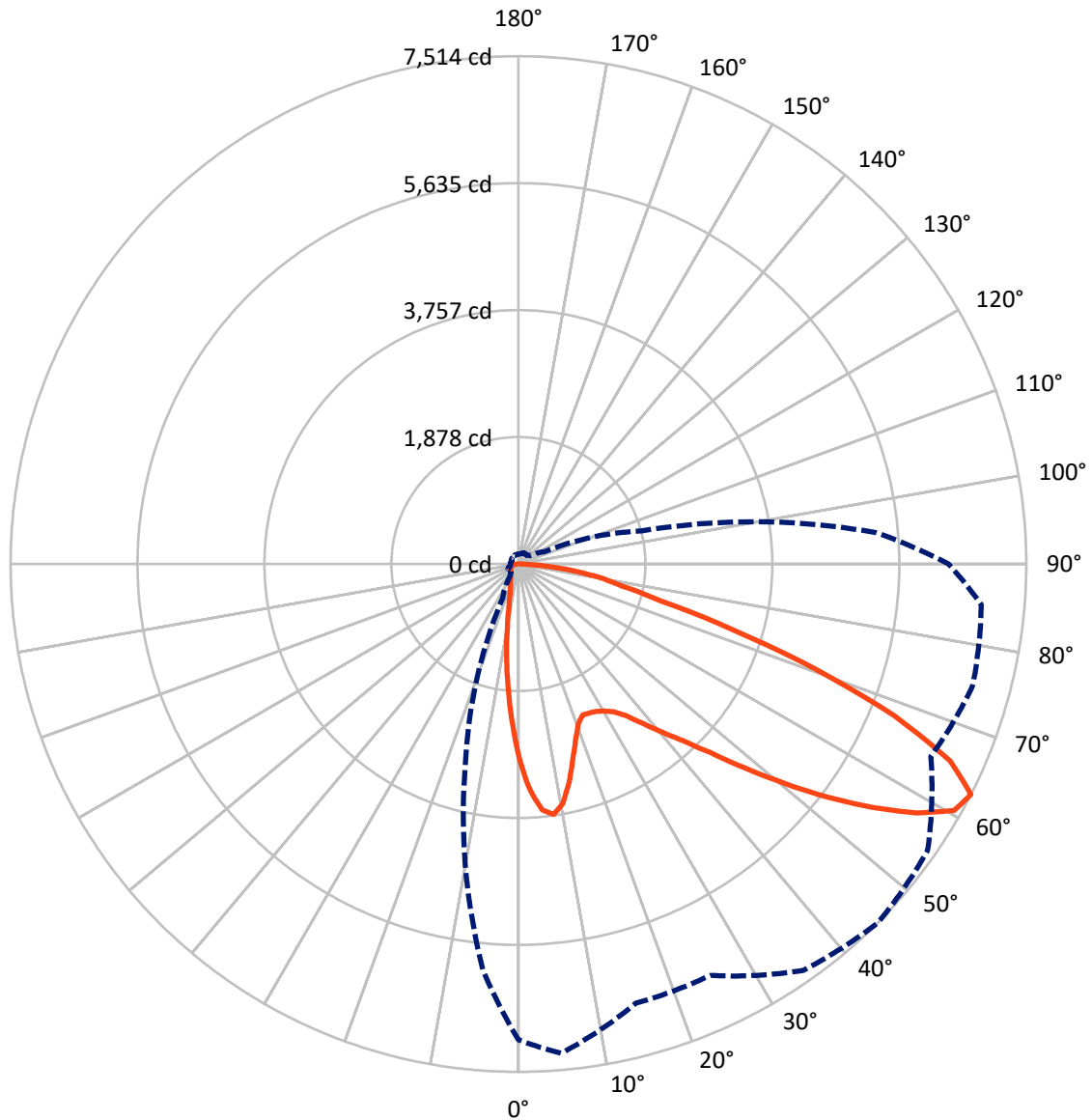
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 34.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1431.1	0.0	1431.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	7216.9	0.0	7216.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	8648.0	0.0	8648.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.7	2.5
10°-20°	390.0	4.5
20°-30°	568.6	6.6
30°-40°	875.8	10.1
40°-50°	1288.9	14.9
50°-60°	1890.6	21.9
60°-70°	2113.4	24.4
70°-80°	1034.7	12.0
80°-90°	273.2	3.2
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°	8648.0	100.0
0°-180°	8648.0	100.0



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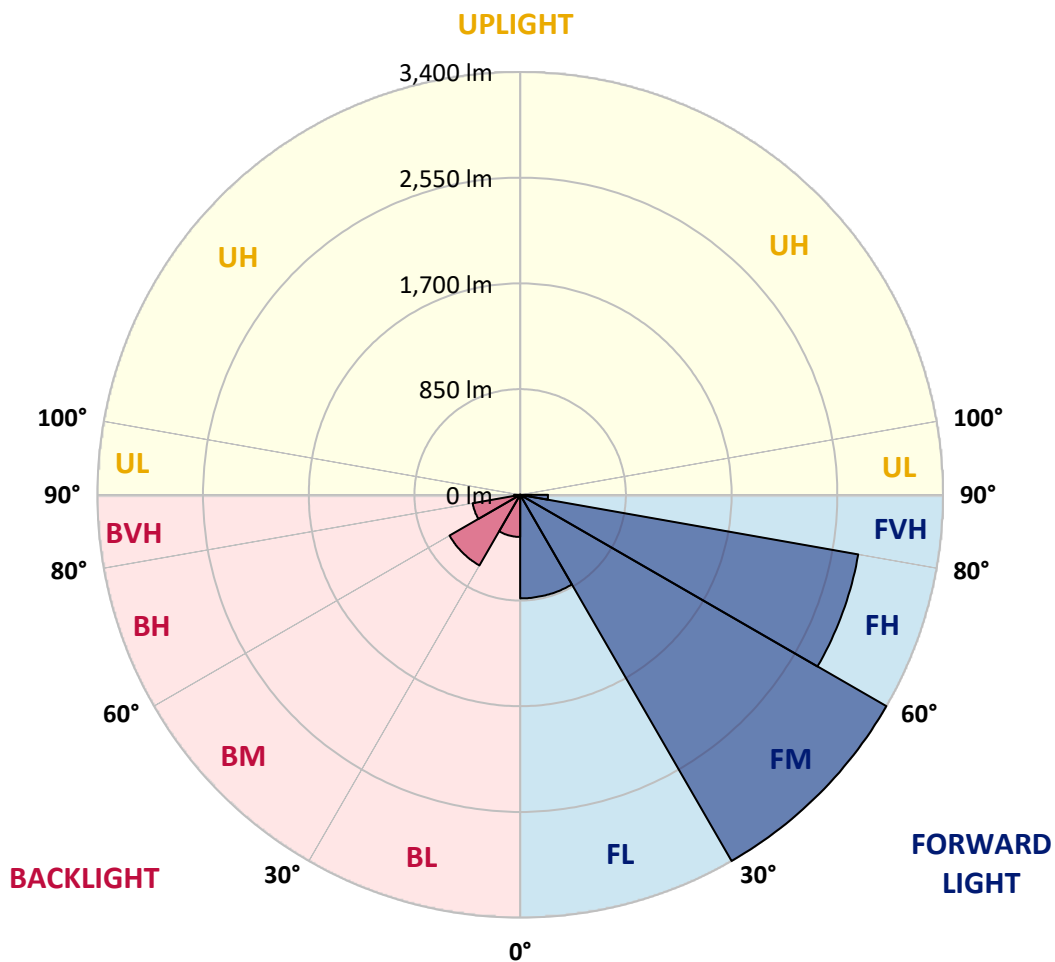
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	832.8	9.6			
FM	(30°-60°)	3399.6	39.3			
FH	(60°-80°)	2760.1	31.9			G2/5000
FVH	(80°-90°)	224.4	2.6			G2/225
BL	(0°-30°)	338.6	3.9	B1/500		
BM	(30°-60°)	655.7	7.6	B1/1000		
BH	(60°-80°)	388.0	4.5	B1/500		G1/500
BVH	(80°-90°)	48.8	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8
2.5°	3035.9	3084.3	3178.9	3249.8	3335.8	3355.8	3383.4	3356.3	3308.3	3244.6	3223.6
5°	2854.7	2958.4	3188.0	3390.0	3569.7	3653.4	3676.7	3607.8	3468.5	3285.4	3173.7
7.5°	2564.3	2711.6	3022.5	3320.1	3584.9	3741.3	3737.5	3577.3	3321.1	3023.0	2843.8
10°	2313.7	2482.0	2838.6	3171.3	3452.3	3603.9	3545.5	3340.6	3034.9	2691.7	2497.2
12.5°	2173.5	2338.5	2700.2	3034.4	3269.3	3321.6	3276.9	3076.3	2788.2	2441.1	2270.9
15°	2149.2	2330.4	2645.1	2917.0	3048.7	3003.1	2949.8	2860.0	2656.5	2360.3	2183.0
17.5°	2254.3	2454.0	2708.3	2835.2	2812.9	2733.5	2718.3	2728.3	2679.3	2450.2	2245.8
20°	2455.9	2695.5	2859.0	2796.7	2633.7	2524.3	2528.1	2680.7	2825.7	2677.9	2444.5
22.5°	2738.7	3012.1	3076.3	2817.2	2558.1	2428.3	2459.7	2706.9	3059.1	3010.7	2712.6
25°	3104.8	3353.9	3307.8	2891.3	2565.7	2440.2	2465.4	2797.2	3334.9	3343.4	3044.4
27.5°	3459.4	3690.5	3502.2	2989.7	2597.1	2468.2	2501.5	2939.3	3598.2	3704.7	3423.8
30°	3736.1	3896.8	3579.2	3079.6	2658.9	2522.9	2564.3	3074.4	3718.0	3948.6	3715.7
32.5°	3965.2	4080.8	3701.9	3190.8	2772.5	2609.0	2681.7	3238.4	3890.6	4180.6	4001.4
35°	4258.1	4290.9	3854.5	3314.9	2947.9	2758.7	2849.0	3399.1	4055.1	4415.0	4282.8
37.5°	4601.3	4559.0	3998.5	3484.6	3174.7	2993.1	3067.7	3575.4	4190.6	4680.7	4570.4
40°	4940.8	4839.0	4179.2	3748.0	3505.5	3269.3	3357.7	3763.7	4317.0	4946.9	4851.4
42.5°	5229.3	5078.6	4357.4	4037.5	3813.6	3574.0	3679.5	3953.4	4437.8	5174.2	5095.3
45°	5442.8	5255.5	4527.2	4315.6	4238.1	3979.0	4028.9	4170.6	4568.5	5363.8	5295.9
47.5°	5633.4	5433.3	4719.2	4596.1	4609.4	4505.8	4425.4	4423.5	4722.5	5518.8	5485.6
50°	5888.7	5680.0	4925.5	4885.1	5166.6	5097.6	4920.3	4718.7	4917.5	5694.7	5690.9
52.5°	6240.5	6070.8	5177.5	5196.5	5686.6	5731.8	5512.2	5073.4	5222.7	6017.5	5994.7
55°	6656.4	6557.6	5520.7	5554.5	6324.6	6356.9	6138.7	5516.9	5671.4	6484.8	6421.6
57.5°	6981.1	6960.2	5897.2	5984.2	6801.0	6946.4	6745.8	6030.3	6177.2	6878.4	6719.7
60°	7110.4	7211.7	6298.0	6417.8	7241.6	7402.8	7226.9	6481.5	6625.5	7041.5	6699.2
62.5°	7040.6	7266.8	6724.9	6714.9	7340.1	7513.6	7390.0	6732.5	6957.8	6873.2	6360.3
65°	6717.8	7068.6	6972.6	6638.4	7003.5	7017.7	6977.8	6620.3	7036.3	6341.3	5705.2
67.5°	6014.7	6519.5	6646.5	5982.3	6095.5	6002.8	5935.7	6006.1	6627.4	5544.0	4794.8
70°	4898.9	5658.6	5719.4	4784.8	4733.5	4671.2	4537.6	4924.1	5820.7	4543.8	3804.6
72.5°	3602.0	4400.7	4587.5	3509.3	3271.6	3284.5	3178.9	3710.9	4732.5	3375.3	2840.5
75°	2464.4	3186.6	3589.2	2448.7	2163.5	2168.7	2155.4	2629.4	3769.4	2348.0	2125.5
77.5°	1800.3	2276.7	2706.9	1646.3	1598.3	1568.8	1561.7	1839.8	2889.9	1704.8	1650.6
80°	1444.7	1681.9	1818.4	1140.9	1227.0	1224.6	1185.2	1265.0	1887.3	1247.0	1234.6
82.5°	1002.1	1292.6	1473.2	894.2	828.1	814.3	823.9	942.2	1334.0	852.4	810.5
85°	528.6	858.6	1459.0	792.5	491.6	392.2	487.8	771.6	1155.7	451.6	395.5
87.5°	67.5	248.2	966.0	316.1	194.0	104.6	231.5	434.5	742.1	92.2	80.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8
2.5°	3169.9	3106.7	3024.0	2947.4	2868.0	2789.1	2686.0	2621.3	2576.6	2568.1	2549.1
5°	3092.9	2882.8	2724.0	2586.6	2462.1	2286.2	2188.7	2107.9	2064.6	2060.3	2049.9
7.5°	2737.8	2447.8	2233.4	2039.0	1862.6	1720.4	1563.6	1490.4	1460.4	1467.5	1474.7
10°	2368.4	2044.2	1797.9	1599.2	1443.8	1324.0	1198.0	1112.9	1053.9	1042.1	1039.7
12.5°	2098.4	1742.8	1503.7	1363.4	1243.2	1130.5	996.9	896.6	820.1	793.9	776.3
15°	1984.3	1595.4	1344.9	1193.7	1061.1	918.0	793.9	688.8	618.5	595.7	582.8
17.5°	2008.5	1554.5	1235.5	1042.1	872.3	723.1	566.7	476.8	434.5	423.6	423.6
20°	2135.9	1546.9	1145.2	902.3	690.7	517.7	389.3	338.0	324.2	322.8	326.6
22.5°	2314.7	1573.5	1077.7	781.1	536.7	377.9	303.3	284.3	278.1	279.5	283.8
25°	2580.9	1663.4	1028.7	673.2	421.2	309.5	270.5	259.1	256.2	260.0	265.3
27.5°	2896.6	1753.2	998.3	591.9	355.6	282.9	257.2	245.3	247.2	252.0	256.7
30°	3173.7	1826.9	950.3	533.9	335.2	284.3	257.2	241.0	239.1	240.1	241.5
32.5°	3422.3	1876.8	894.2	478.7	289.0	252.4	240.1	237.7	227.2	223.4	223.9
35°	3636.8	1876.8	860.5	446.4	259.1	223.9	203.9	192.1	186.8	187.3	192.5
37.5°	3843.5	1839.3	843.8	428.3	242.9	213.0	195.4	184.9	177.8	176.4	177.3
40°	4026.1	1784.6	824.8	420.7	230.6	206.3	189.7	181.1	173.5	171.1	171.6
42.5°	4172.5	1740.4	803.9	410.7	223.0	201.6	185.9	178.3	169.7	167.3	166.9
45°	4330.8	1725.7	776.3	390.8	226.8	202.0	184.9	176.8	168.3	165.4	164.5
47.5°	4539.5	1771.8	747.8	367.0	234.8	204.4	186.4	176.8	167.8	165.4	164.5
50°	4802.4	1880.2	711.7	332.3	226.8	211.1	185.9	175.4	167.8	165.4	163.5
52.5°	5139.9	2026.6	664.1	292.4	222.0	227.2	184.9	172.6	165.4	162.1	158.8
55°	5550.2	2146.4	607.6	259.6	211.1	223.0	183.5	169.2	161.6	156.9	154.0
57.5°	5850.7	2189.7	534.8	238.2	195.9	215.8	181.6	165.0	156.9	153.1	149.3
60°	5791.2	2106.0	473.5	224.9	186.8	194.9	180.2	161.2	152.6	149.7	146.4
62.5°	5315.4	1887.3	434.0	218.7	181.1	177.8	181.6	157.4	148.8	145.9	145.0
65°	4601.8	1564.5	418.3	217.3	176.4	167.8	168.8	153.1	144.5	142.1	141.2
67.5°	3796.0	1262.6	404.6	222.0	170.2	160.7	155.9	147.4	140.2	137.9	136.0
70°	2993.5	1050.1	398.4	219.2	162.6	153.6	148.3	141.2	135.0	132.6	131.2
72.5°	2410.7	887.1	395.1	216.3	152.6	144.0	139.3	133.1	126.5	125.5	124.1
75°	2039.9	697.4	361.8	207.3	141.2	132.6	129.3	123.6	116.9	116.9	116.0
77.5°	1573.5	504.4	300.9	183.5	129.3	119.8	116.9	112.7	105.1	106.5	106.0
80°	1162.3	329.0	235.3	152.1	114.6	105.5	104.1	99.8	91.8	93.7	93.7
82.5°	796.3	215.8	169.2	124.6	97.9	89.4	89.4	85.1	76.1	77.0	79.9
85°	399.8	148.3	126.5	96.5	76.1	71.8	71.8	68.5	59.4	59.9	63.7
87.5°	121.7	89.4	83.7	68.9	54.7	53.7	51.3	49.0	43.3	42.8	45.2
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8
2.5°	2520.1	2493.0	2460.2	2387.9	2363.6	2362.2	2384.1	2361.3	2405.0	2386.5	2406.9
5°	2032.3	2005.7	1969.1	1876.8	1820.8	1782.7	1764.7	1711.4	1749.9	1721.9	1745.2
7.5°	1494.6	1500.8	1476.6	1422.4	1300.2	1238.9	1202.7	1170.4	1198.5	1195.6	1240.3
10°	1050.6	1067.3	1050.1	995.5	896.6	862.8	869.5	882.3	918.9	937.9	1006.9
12.5°	756.3	755.4	744.5	695.5	630.4	634.2	661.3	683.6	717.4	737.3	807.7
15°	564.8	556.2	551.5	511.5	474.4	482.5	495.8	498.2	519.6	531.5	588.5
17.5°	426.9	431.2	436.4	407.9	379.8	374.6	364.2	351.3	357.5	359.9	388.4
20°	339.0	356.1	368.9	348.9	320.4	305.2	291.9	283.3	283.3	282.9	290.9
22.5°	296.2	308.5	322.3	308.5	282.9	269.5	261.9	255.3	254.3	254.3	261.9
25°	272.9	281.9	295.2	285.7	266.7	256.7	249.6	241.0	237.7	236.7	242.0
27.5°	261.5	265.3	271.9	263.4	247.2	242.5	240.5	232.9	228.7	226.3	231.5
30°	242.0	241.0	241.5	232.9	220.1	219.6	223.0	224.4	223.0	222.5	230.6
32.5°	223.9	222.0	221.5	213.9	202.0	199.2	202.0	204.9	208.2	213.0	222.5
35°	201.1	205.8	208.7	202.0	187.8	179.2	175.9	170.7	167.8	167.8	178.7
37.5°	183.0	194.0	198.2	192.1	176.4	164.5	158.8	157.8	158.3	160.2	170.7
40°	176.8	184.9	188.7	182.6	166.9	155.9	152.6	151.7	152.6	155.5	165.9
42.5°	173.0	178.7	178.3	170.7	157.8	150.2	148.3	147.4	148.3	151.2	162.6
45°	169.7	173.5	169.7	160.7	148.8	145.0	145.5	145.0	145.9	148.8	159.7
47.5°	166.9	168.3	163.5	154.5	142.1	141.2	143.1	144.5	145.5	147.8	159.3
50°	162.6	162.6	158.3	148.8	136.4	136.9	139.3	142.6	143.1	145.9	155.0
52.5°	157.4	156.9	154.0	145.0	131.7	133.1	133.1	136.9	137.9	141.2	150.7
55°	153.1	152.1	150.7	142.1	127.4	129.8	128.4	129.8	132.2	135.5	145.9
57.5°	149.3	147.4	147.4	139.8	124.1	125.0	121.7	123.6	126.5	129.3	140.2
60°	145.5	143.6	144.5	136.4	118.8	117.9	116.5	120.3	121.2	124.6	135.5
62.5°	141.2	139.8	140.2	132.6	115.0	112.7	112.7	116.0	116.5	121.2	131.7
65°	137.9	136.0	135.5	128.8	110.8	107.9	109.3	110.8	111.7	116.5	126.5
67.5°	134.5	130.7	130.7	125.5	106.0	103.2	106.0	105.5	107.0	111.2	119.3
70°	130.3	125.0	125.5	123.1	101.3	97.9	100.3	99.8	100.8	103.6	111.7
72.5°	123.6	119.3	120.3	119.3	96.5	91.8	92.7	92.7	92.7	95.1	103.6
75°	115.0	111.7	114.6	116.9	90.8	84.1	85.1	85.1	83.7	85.1	95.6
77.5°	104.6	102.7	112.2	108.9	84.1	76.1	76.1	75.1	72.3	74.2	85.6
80°	93.2	91.8	103.6	91.3	76.5	66.1	65.1	62.8	59.9	61.3	72.7
82.5°	81.3	79.9	87.0	69.9	66.1	54.7	52.3	48.0	45.2	46.6	57.0
85°	66.6	66.6	67.0	52.8	50.4	41.8	39.0	33.3	29.9	30.9	40.9
87.5°	47.5	49.0	45.2	36.1	29.9	23.3	21.4	18.1	15.2	17.6	21.4
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8
2.5°	2511.5	2563.8	2623.2	2699.3	2764.4	2871.4	2974.1	3035.9
5°	1877.8	1964.8	2073.2	2212.5	2342.3	2537.2	2730.7	2854.7
7.5°	1343.9	1437.1	1554.1	1728.1	1911.6	2160.2	2415.9	2564.3
10°	1111.9	1207.5	1305.9	1423.3	1573.5	1844.0	2146.4	2313.7
12.5°	919.9	1022.1	1128.1	1251.7	1391.0	1632.5	1981.0	2173.5
15°	704.1	818.1	943.2	1099.6	1274.1	1553.1	1940.1	2149.2
17.5°	482.5	609.9	763.5	956.5	1169.9	1527.4	2013.3	2254.3
20°	332.3	425.0	589.0	815.3	1072.0	1524.1	2154.0	2455.9
22.5°	278.1	319.5	439.3	685.5	998.3	1565.0	2372.2	2738.7
25°	257.2	281.9	350.8	572.8	944.6	1659.1	2672.7	3104.8
27.5°	244.8	267.2	318.5	499.2	902.3	1768.5	2965.0	3459.4
30°	249.6	272.4	309.5	461.6	844.8	1859.7	3224.6	3736.1
32.5°	224.9	234.8	265.3	428.3	803.4	1936.3	3451.8	3965.2
35°	191.6	209.2	236.7	412.6	804.4	1987.6	3699.5	4258.1
37.5°	182.6	200.1	220.1	406.9	815.3	2042.3	3983.8	4601.3
40°	176.8	193.0	210.1	403.6	825.8	2092.2	4262.4	4940.8
42.5°	173.0	187.8	209.2	392.2	831.0	2136.9	4491.5	5229.3
45°	172.6	187.8	213.0	380.8	839.1	2184.9	4683.6	5442.8
47.5°	173.0	194.0	205.8	367.0	839.1	2265.2	4908.9	5633.4
50°	171.1	204.4	198.2	347.5	819.6	2417.4	5217.9	5888.7
52.5°	170.2	203.0	183.5	317.6	785.8	2658.9	5613.9	6240.5
55°	167.8	195.9	173.0	272.9	746.4	2922.2	6038.0	6656.4
57.5°	165.4	173.5	167.3	233.9	685.5	3107.6	6329.8	6981.1
60°	185.4	151.7	162.6	214.9	604.2	3158.5	6318.4	7110.4
62.5°	171.6	142.1	156.4	210.6	547.2	3015.9	6026.5	7040.6
65°	134.5	136.0	150.2	223.0	532.0	2638.0	5509.3	6717.8
67.5°	123.1	129.8	144.0	238.6	533.4	2112.2	4736.3	6014.7
70°	116.0	123.1	136.9	246.7	537.2	1574.5	3744.7	4898.9
72.5°	107.9	114.1	128.8	248.2	512.5	1143.8	2886.1	3602.0
75°	98.4	104.1	117.4	216.3	424.5	793.4	2207.7	2464.4
77.5°	87.5	91.8	103.2	166.9	315.2	507.7	1657.2	1800.3
80°	74.6	77.0	86.5	122.2	215.8	317.6	1311.1	1444.7
82.5°	59.9	60.9	67.0	91.8	140.2	203.9	878.0	1002.1
85°	42.3	42.3	46.1	66.6	95.6	129.3	476.8	528.6
87.5°	20.0	20.4	20.4	36.6	49.9	65.6	109.8	67.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)