

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: P193011

Luminaire Tested: **GLEON-AF-03-LED-E1-SLL-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193011
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-03-LED-E1-SLL-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA 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: 10176.4 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 96
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



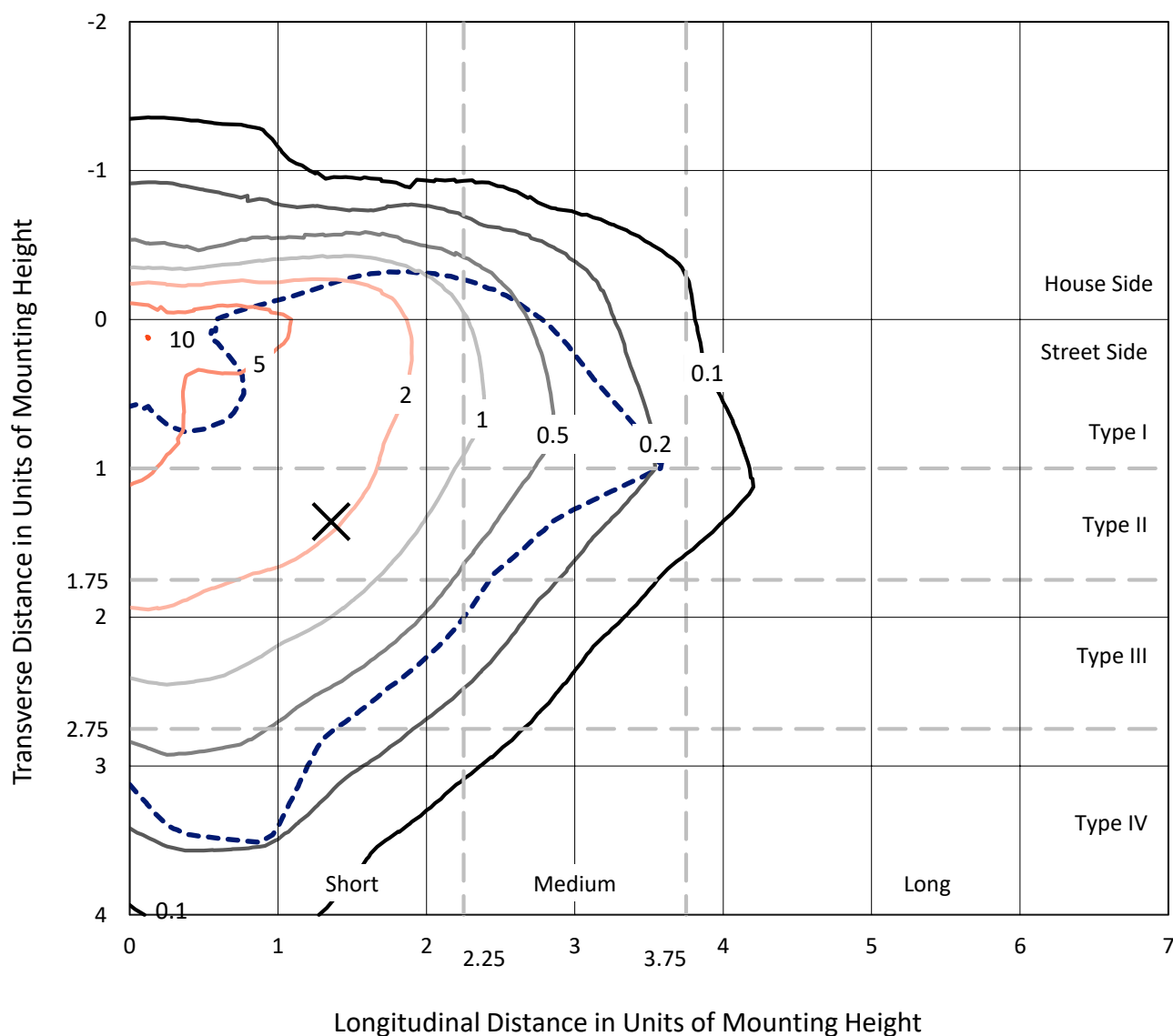
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

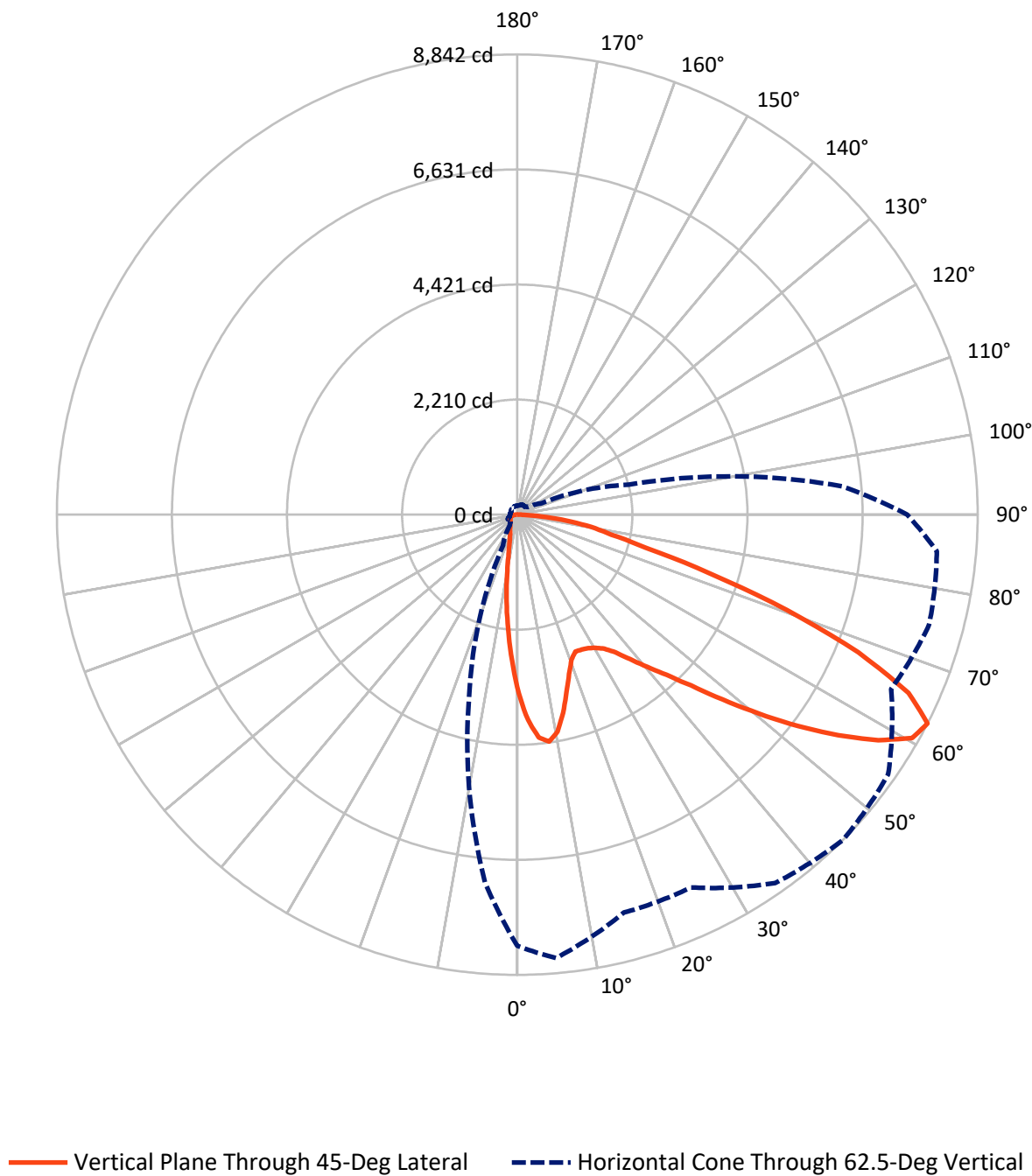


Based on 20 foot mounting height. Maximum calculated value = 10.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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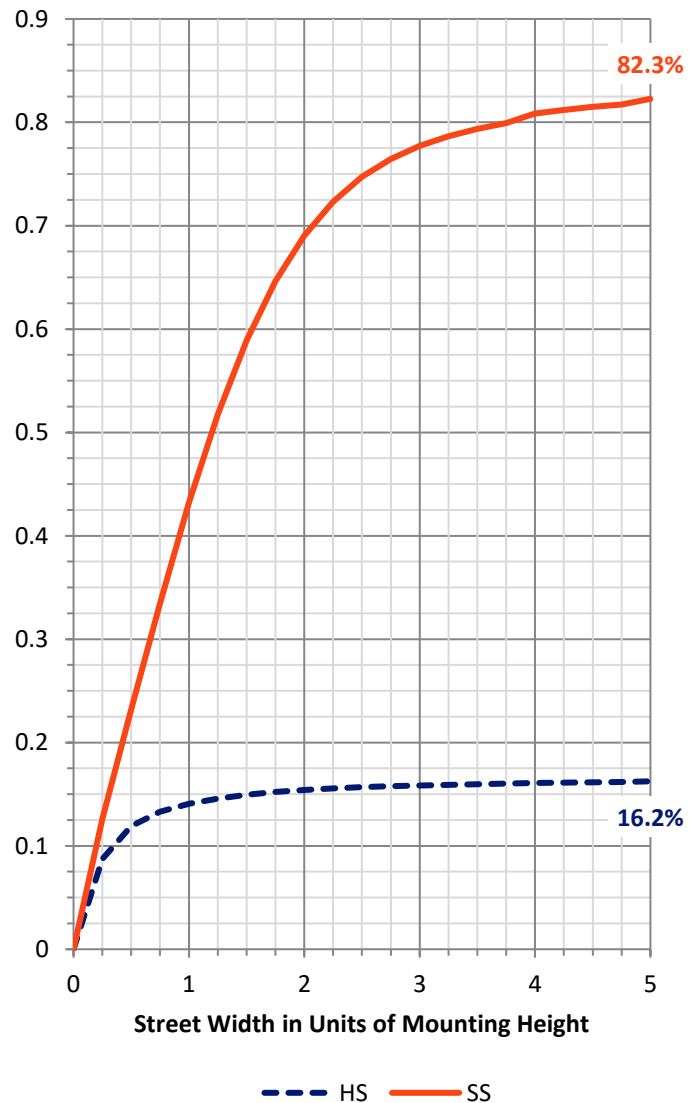
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1684.1	0.0	1684.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	8492.3	0.0	8492.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	10176.4	0.0	10176.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.3	2.5
10°-20°	458.9	4.5
20°-30°	669.1	6.6
30°-40°	1030.6	10.1
40°-50°	1516.7	14.9
50°-60°	2224.7	21.9
60°-70°	2486.9	24.4
70°-80°	1217.6	12.0
80°-90°	321.5	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°	10176.4	100.0
0°-180°	10176.4	100.0

Coefficient of Utilization



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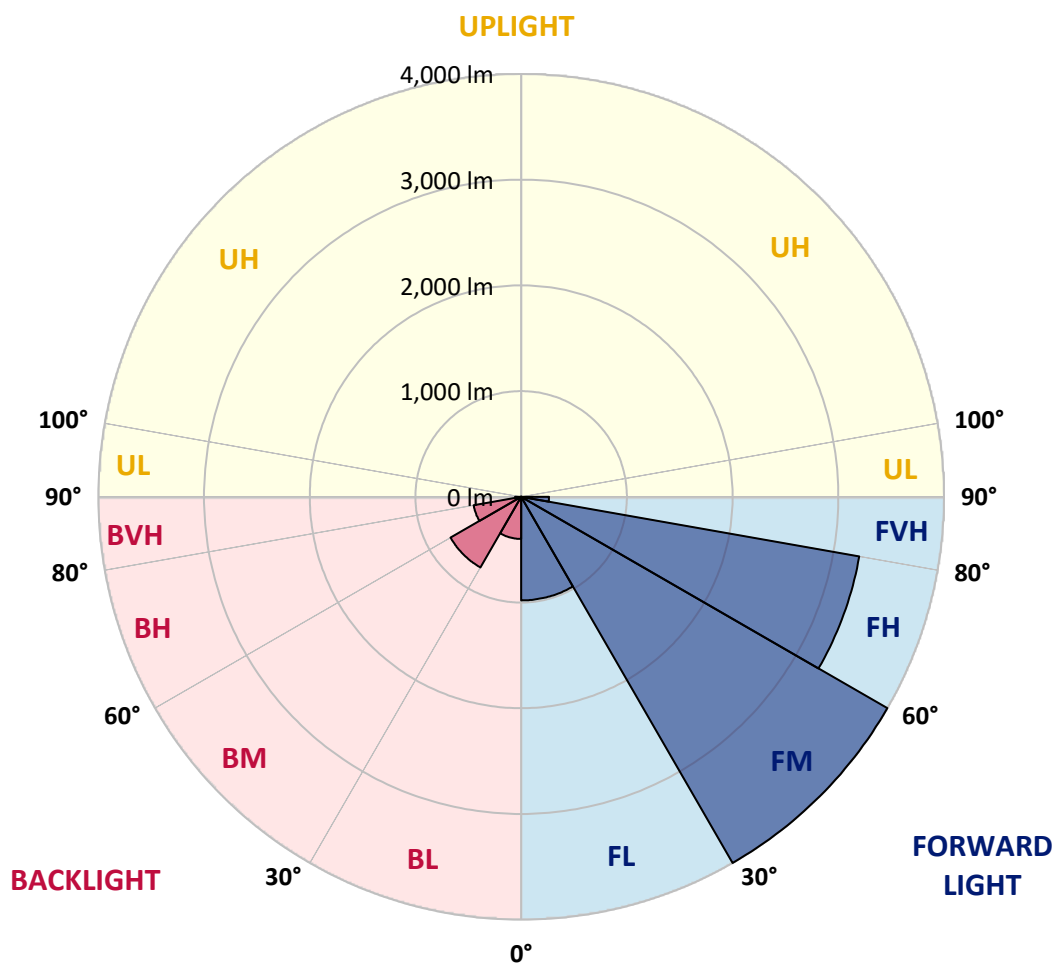
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	980.0	9.6			
FM	(30°-60°)	4000.4	39.3			
FH	(60°-80°)	3248.0	31.9			G2/5000
FVH	(80°-90°)	264.0	2.6			G3/500
BL	(0°-30°)	398.4	3.9	B1/500		
BM	(30°-60°)	771.6	7.6	B1/1000		
BH	(60°-80°)	456.5	4.5	B1/500		G1/500
BVH	(80°-90°)	57.5	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2
2.5°	3572.4	3629.5	3740.8	3824.2	3925.3	3948.8	3981.3	3949.4	3892.9	3817.9	3793.4
5°	3359.2	3481.2	3751.4	3989.2	4200.6	4299.1	4326.4	4245.4	4081.5	3866.1	3734.6
7.5°	3017.4	3190.9	3556.7	3906.9	4218.5	4402.6	4398.1	4209.5	3908.1	3557.3	3346.4
10°	2722.6	2920.7	3340.3	3731.9	4062.5	4240.9	4172.1	3930.9	3571.2	3167.4	2938.6
12.5°	2557.6	2751.7	3177.5	3570.7	3847.0	3908.6	3856.0	3620.0	3280.9	2872.5	2672.3
15°	2529.2	2742.2	3112.6	3432.6	3587.5	3533.8	3471.1	3365.4	3126.0	2777.5	2568.8
17.5°	2652.7	2887.7	3187.0	3336.3	3310.0	3216.6	3198.7	3210.5	3152.7	2883.3	2642.7
20°	2889.9	3171.9	3364.3	3291.0	3099.1	2970.4	2974.9	3154.6	3325.1	3151.1	2876.5
22.5°	3222.7	3544.5	3620.0	3315.0	3010.2	2857.4	2894.4	3185.2	3599.8	3542.7	3192.0
25°	3653.5	3946.7	3892.4	3402.4	3019.2	2871.5	2901.1	3291.6	3924.3	3934.3	3582.5
27.5°	4070.8	4342.7	4121.2	3518.1	3056.1	2904.4	2943.7	3458.8	4234.3	4359.5	4028.8
30°	4396.4	4585.5	4211.8	3623.9	3128.7	2968.8	3017.4	3617.7	4375.2	4646.5	4372.3
32.5°	4666.0	4802.0	4356.1	3754.8	3262.5	3070.0	3155.6	3810.8	4578.2	4919.5	4708.5
35°	5010.6	5049.2	4535.7	3900.8	3468.9	3246.3	3352.5	3999.8	4771.8	5195.3	5039.7
37.5°	5414.6	5364.7	4705.2	4100.5	3735.8	3522.1	3609.9	4207.3	4931.2	5508.0	5378.2
40°	5813.9	5694.3	4917.8	4410.4	4125.1	3847.0	3951.2	4428.9	5080.0	5821.3	5708.8
42.5°	6153.5	5976.2	5127.5	4751.0	4487.6	4205.6	4329.8	4652.0	5222.0	6088.6	5995.7
45°	6404.7	6184.3	5327.3	5078.4	4987.1	4682.3	4741.0	4907.7	5375.9	6311.8	6231.8
47.5°	6629.0	6393.6	5553.3	5408.4	5424.0	5302.2	5207.6	5205.3	5557.2	6494.2	6455.0
50°	6929.4	6683.8	5796.1	5748.4	6079.6	5998.6	5789.8	5552.7	5786.6	6701.2	6696.7
52.5°	7343.5	7143.7	6092.6	6114.9	6691.7	6744.8	6486.4	5970.0	6145.8	7081.0	7054.3
55°	7832.9	7716.6	6496.4	6536.1	7442.4	7480.4	7223.6	6491.9	6673.8	7630.8	7556.5
57.5°	8214.9	8190.3	6939.5	7041.9	8002.9	8174.1	7938.0	7096.2	7269.0	8094.2	7907.3
60°	8367.1	8486.2	7411.0	7552.0	8521.4	8711.1	8504.2	7627.0	7796.5	8286.0	7883.2
62.5°	8284.9	8551.1	7913.4	7901.6	8637.3	8841.5	8696.1	7922.4	8187.6	8087.9	7484.4
65°	7905.0	8317.9	8204.9	7811.6	8241.2	8258.1	8211.1	7790.4	8279.8	7462.0	6713.4
67.5°	7077.7	7671.7	7821.1	7039.6	7172.8	7063.7	6984.8	7067.6	7798.7	6523.9	5642.2
70°	5764.7	6658.7	6730.3	5630.4	5570.0	5496.8	5339.6	5794.3	6849.5	5346.8	4477.0
72.5°	4238.6	5178.5	5398.3	4129.6	3849.9	3864.9	3740.8	4366.8	5569.0	3971.8	3342.5
75°	2900.0	3749.8	4223.5	2881.5	2545.8	2552.1	2536.4	3094.1	4435.6	2762.9	2501.2
77.5°	2118.5	2679.0	3185.2	1937.2	1880.8	1846.1	1837.6	2165.0	3400.7	2006.0	1942.3
80°	1700.1	1979.2	2139.8	1342.6	1443.9	1441.0	1394.5	1488.5	2220.9	1467.4	1452.8
82.5°	1179.2	1521.0	1733.6	1052.2	974.5	958.3	969.4	1108.8	1569.7	1003.0	953.9
85°	622.0	1010.3	1716.8	932.5	578.4	461.5	573.9	908.0	1360.0	531.4	465.5
87.5°	79.4	292.0	1136.8	372.0	228.3	123.0	272.4	511.4	873.2	108.5	94.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2
2.5°	3730.1	3655.7	3558.5	3468.3	3374.9	3282.0	3160.7	3084.6	3032.1	3021.9	2999.6
5°	3639.5	3392.3	3205.4	3043.8	2897.2	2690.2	2575.6	2480.4	2429.5	2424.5	2412.2
7.5°	3221.6	2880.4	2628.1	2399.4	2191.7	2024.5	1839.9	1753.7	1718.5	1727.0	1735.2
10°	2786.9	2405.5	2115.7	1881.9	1699.0	1557.9	1409.7	1309.6	1240.2	1226.2	1223.4
12.5°	2469.3	2050.8	1769.5	1604.4	1462.9	1330.2	1173.1	1055.0	965.0	934.1	913.5
15°	2335.0	1877.4	1582.6	1404.6	1248.7	1080.2	934.1	810.6	727.7	700.9	685.8
17.5°	2363.5	1829.3	1453.9	1226.2	1026.5	850.9	666.8	561.0	511.4	498.4	498.4
20°	2513.4	1820.4	1347.6	1061.8	812.8	609.2	458.2	397.7	381.6	379.9	384.3
22.5°	2723.8	1851.6	1268.2	919.1	631.6	444.6	356.9	334.6	327.2	329.0	334.0
25°	3037.1	1957.4	1210.6	792.1	495.6	364.2	318.3	304.9	301.5	306.0	312.2
27.5°	3408.5	2063.2	1174.7	696.4	418.5	332.8	302.6	288.7	290.8	296.5	302.1
30°	3734.6	2149.7	1118.3	628.2	394.4	334.6	302.6	283.6	281.4	282.6	284.2
32.5°	4027.2	2208.5	1052.2	563.3	340.2	297.0	282.6	279.7	267.3	262.9	263.6
35°	4279.4	2208.5	1012.5	525.3	304.9	263.6	240.0	225.9	219.8	220.3	226.6
37.5°	4522.8	2164.3	992.9	504.0	285.8	250.6	229.9	217.7	209.2	207.6	208.6
40°	4737.7	2100.1	970.6	495.1	271.3	242.8	223.2	213.2	204.2	201.4	201.9
42.5°	4910.0	2047.9	945.9	483.4	262.3	237.2	218.7	209.8	199.7	196.8	196.3
45°	5096.2	2030.7	913.5	459.9	266.8	237.7	217.7	208.1	198.0	194.7	193.6
47.5°	5341.8	2084.8	880.0	431.9	276.3	240.6	219.3	208.1	197.4	194.7	193.6
50°	5651.2	2212.5	837.5	391.0	266.8	248.3	218.7	206.4	197.4	194.7	192.4
52.5°	6048.4	2384.8	781.5	344.0	261.2	267.3	217.7	203.1	194.7	190.7	186.9
55°	6531.1	2525.7	714.9	305.5	248.3	262.3	215.9	199.2	190.2	184.6	181.3
57.5°	6884.7	2576.7	629.4	280.2	230.4	253.9	213.7	194.2	184.6	180.2	175.7
60°	6814.7	2478.2	557.2	264.6	219.8	229.3	212.0	189.7	179.6	176.2	172.3
62.5°	6254.8	2220.9	510.8	257.3	213.2	209.2	213.7	185.2	175.2	171.7	170.7
65°	5415.1	1841.0	492.3	255.6	207.6	197.4	198.7	180.2	170.0	167.2	166.2
67.5°	4466.8	1485.8	476.1	261.2	200.3	189.1	183.4	173.4	165.0	162.2	159.9
70°	3522.6	1235.7	468.8	257.9	191.3	180.8	174.5	166.2	158.9	156.0	154.4
72.5°	2836.8	1043.9	464.9	254.6	179.6	169.5	163.9	156.7	148.8	147.7	146.0
75°	2400.4	820.6	425.7	243.8	166.2	156.0	152.2	145.5	137.6	137.6	136.5
77.5°	1851.6	593.5	354.1	215.9	152.2	141.0	137.6	132.5	123.7	125.3	124.8
80°	1367.7	387.1	276.9	178.9	134.8	124.2	122.5	117.5	107.9	110.3	110.3
82.5°	937.0	253.9	199.2	146.5	115.3	105.2	105.2	100.1	89.5	90.5	94.0
85°	470.5	174.5	148.8	113.5	89.5	84.4	84.4	80.6	69.9	70.5	75.0
87.5°	143.2	105.2	98.5	81.1	64.4	63.3	60.4	57.6	51.0	50.4	53.1
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°	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2
2.5°	2965.4	2933.5	2895.0	2809.9	2781.4	2779.7	2805.4	2778.6	2830.1	2808.3	2832.3
5°	2391.4	2360.1	2317.1	2208.5	2142.6	2097.8	2076.6	2013.8	2059.2	2026.2	2053.6
7.5°	1758.7	1766.0	1737.5	1673.8	1529.9	1457.8	1415.4	1377.3	1410.3	1406.9	1459.4
10°	1236.3	1255.8	1235.7	1171.4	1055.0	1015.3	1023.2	1038.3	1081.3	1103.7	1184.8
12.5°	890.0	889.0	876.0	818.5	741.8	746.2	778.2	804.4	844.1	867.6	950.4
15°	664.7	654.5	648.9	601.9	558.4	567.8	583.5	586.2	611.5	625.4	692.6
17.5°	502.4	507.4	513.5	479.9	447.0	440.9	428.6	413.4	420.6	423.5	457.0
20°	398.9	419.0	434.1	410.6	377.1	359.1	343.5	333.5	333.5	332.8	342.3
22.5°	348.5	363.1	379.2	363.1	332.8	317.2	308.2	300.4	299.3	299.3	308.2
25°	321.1	331.7	347.5	336.2	313.8	302.1	293.7	283.6	279.7	278.6	284.7
27.5°	307.7	312.2	320.0	309.9	290.8	285.2	283.1	274.1	269.1	266.3	272.4
30°	284.7	283.6	284.2	274.1	259.1	258.4	262.3	264.1	262.3	261.7	271.3
32.5°	263.6	261.2	260.7	251.8	237.7	234.4	237.7	241.1	245.1	250.6	261.7
35°	236.6	242.2	245.7	237.7	220.9	210.9	206.9	200.8	197.4	197.4	210.4
37.5°	215.3	228.3	233.3	225.9	207.6	193.6	186.9	185.7	186.3	188.5	200.8
40°	208.1	217.7	222.2	214.8	196.3	183.4	179.6	178.4	179.6	182.9	195.2
42.5°	203.7	210.4	209.8	200.8	185.7	176.8	174.5	173.4	174.5	177.9	191.3
45°	199.7	204.2	199.7	189.1	175.2	170.7	171.2	170.7	171.7	175.2	187.9
47.5°	196.3	198.0	192.4	181.8	167.2	166.2	168.4	170.0	171.2	173.9	187.4
50°	191.3	191.3	186.3	175.2	160.5	161.1	163.9	167.8	168.4	171.7	182.4
52.5°	185.2	184.6	181.3	170.7	154.9	156.7	156.7	161.1	162.2	166.2	177.3
55°	180.2	178.9	177.3	167.2	149.9	152.8	151.0	152.8	155.4	159.4	171.7
57.5°	175.7	173.4	173.4	164.4	146.0	147.2	143.2	145.5	148.8	152.2	165.0
60°	171.2	169.0	170.0	160.5	139.9	138.8	137.0	141.5	142.7	146.5	159.4
62.5°	166.2	164.4	165.0	156.0	135.4	132.5	132.5	136.5	137.0	142.7	154.9
65°	162.2	159.9	159.4	151.7	130.3	127.0	128.7	130.3	131.4	137.0	148.8
67.5°	158.3	153.8	153.8	147.7	124.8	121.4	124.8	124.2	125.8	130.9	140.4
70°	153.3	147.2	147.7	144.9	119.2	115.3	118.0	117.5	118.5	122.0	131.4
72.5°	145.5	140.4	141.5	140.4	113.5	107.9	109.0	109.0	109.0	111.9	122.0
75°	135.4	131.4	134.8	137.6	106.8	99.0	100.1	100.1	98.5	100.1	112.4
77.5°	123.0	120.8	131.9	128.1	99.0	89.5	89.5	88.4	85.0	87.3	100.7
80°	109.7	107.9	122.0	107.4	90.0	77.8	76.6	73.9	70.5	72.1	85.5
82.5°	95.7	94.0	102.3	82.3	77.8	64.4	61.5	56.5	53.1	54.8	67.0
85°	78.3	78.3	78.8	62.1	59.3	49.2	45.9	39.2	35.3	36.4	48.1
87.5°	55.9	57.6	53.1	42.5	35.3	27.5	25.1	21.3	17.9	20.6	25.1
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°	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2
2.5°	2955.4	3016.8	3086.8	3176.3	3252.9	3378.9	3499.7	3572.4
5°	2209.7	2312.0	2439.5	2603.5	2756.2	2985.6	3213.2	3359.2
7.5°	1581.4	1691.2	1828.7	2033.5	2249.4	2541.9	2842.9	3017.4
10°	1308.5	1420.9	1536.7	1674.8	1851.6	2170.0	2525.7	2722.6
12.5°	1082.4	1202.7	1327.5	1473.0	1636.8	1921.0	2331.0	2557.6
15°	828.5	962.8	1109.8	1293.9	1499.2	1827.6	2283.0	2529.2
17.5°	567.8	717.8	898.4	1125.6	1376.6	1797.5	2369.1	2652.7
20°	391.0	500.1	693.1	959.4	1261.5	1793.5	2534.7	2889.9
22.5°	327.2	376.0	516.9	806.7	1174.7	1841.6	2791.5	3222.7
25°	302.6	331.7	412.9	674.1	1111.6	1952.4	3145.0	3653.5
27.5°	288.1	314.3	374.8	587.4	1061.8	2081.1	3489.0	4070.8
30°	293.7	320.5	364.2	543.2	994.0	2188.5	3794.5	4396.4
32.5°	264.6	276.3	312.2	504.0	945.4	2278.5	4061.9	4666.0
35°	225.4	246.2	278.6	485.5	946.5	2338.9	4353.3	5010.6
37.5°	214.8	235.6	259.1	478.9	959.4	2403.2	4687.9	5414.6
40°	208.1	227.2	247.3	474.9	971.7	2461.9	5015.6	5813.9
42.5°	203.7	220.9	246.2	461.5	977.9	2514.6	5285.3	6153.5
45°	203.1	220.9	250.6	448.1	987.3	2571.1	5511.4	6404.7
47.5°	203.7	228.3	242.2	431.9	987.3	2665.6	5776.4	6629.0
50°	201.4	240.6	233.3	408.9	964.4	2844.6	6140.1	6929.4
52.5°	200.3	238.8	215.9	373.6	924.7	3128.7	6606.1	7343.5
55°	197.4	230.4	203.7	321.1	878.2	3438.7	7105.1	7832.9
57.5°	194.7	204.2	196.8	275.3	806.7	3656.9	7448.5	8214.9
60°	218.2	178.4	191.3	252.8	711.1	3716.7	7435.1	8367.1
62.5°	201.9	167.2	184.0	247.8	643.9	3548.8	7091.7	8284.9
65°	158.3	159.9	176.8	262.3	625.9	3104.2	6483.0	7905.0
67.5°	144.9	152.8	169.5	280.8	627.7	2485.4	5573.5	7077.7
70°	136.5	144.9	161.1	290.3	632.2	1852.8	4406.4	5764.7
72.5°	127.0	134.3	151.7	292.0	603.0	1346.0	3396.3	4238.6
75°	115.9	122.5	138.2	254.6	499.6	933.6	2597.8	2900.0
77.5°	102.9	107.9	121.4	196.3	370.9	597.4	1950.1	2118.5
80°	87.9	90.5	101.8	143.7	253.9	373.6	1542.8	1700.1
82.5°	70.5	71.6	78.8	107.9	165.0	240.0	1033.3	1179.2
85°	49.8	49.8	54.3	78.3	112.4	152.2	561.0	622.0
87.5°	23.5	24.0	24.0	43.0	58.8	77.2	129.3	79.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)