

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: P269089

Luminaire Tested: **GLEON-AF-02-LED-E1-SLL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269089
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-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA 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: 9298.5 lumens
Efficiency: N/A
Efficacy: 82.3 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 - G3

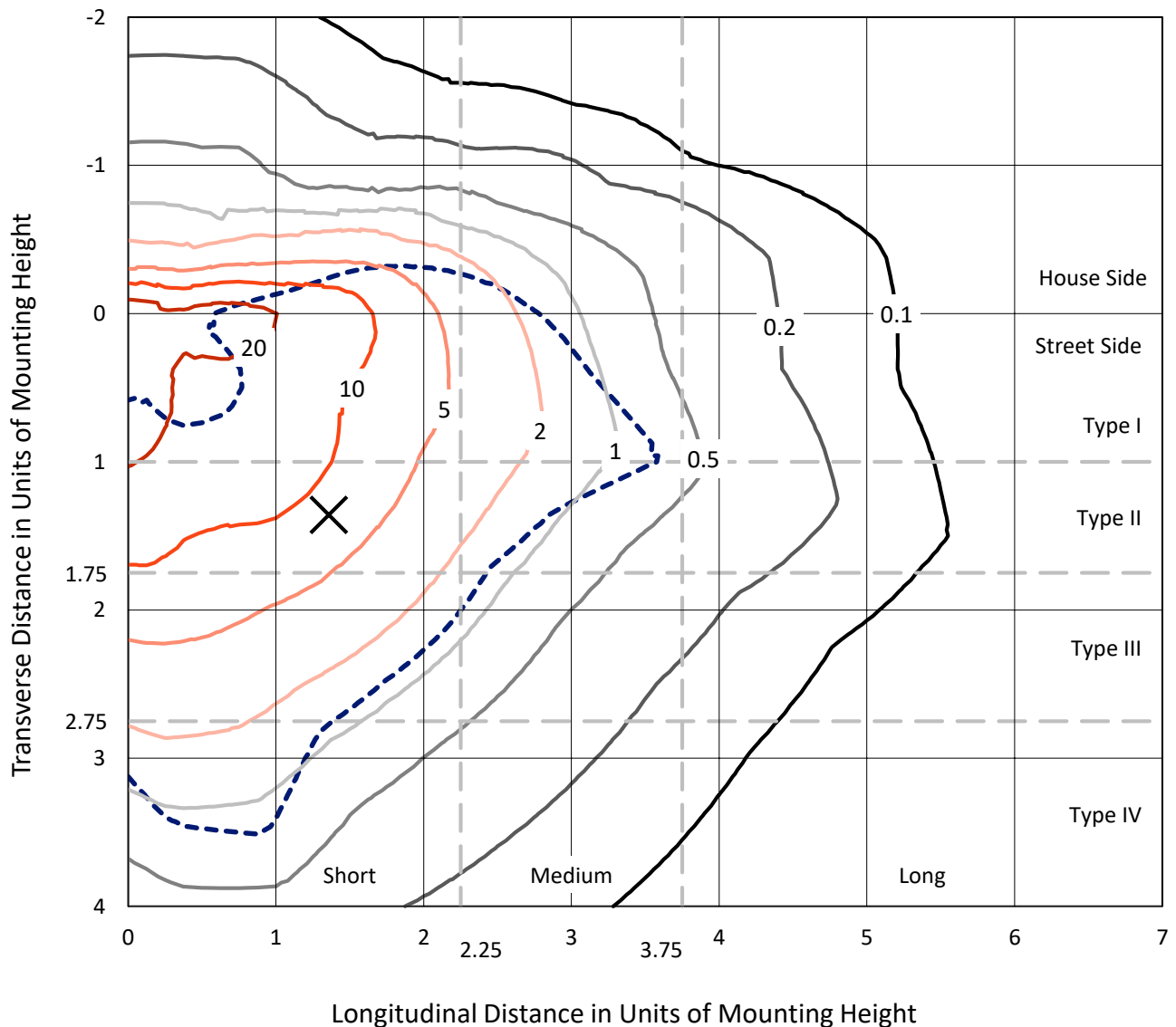
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

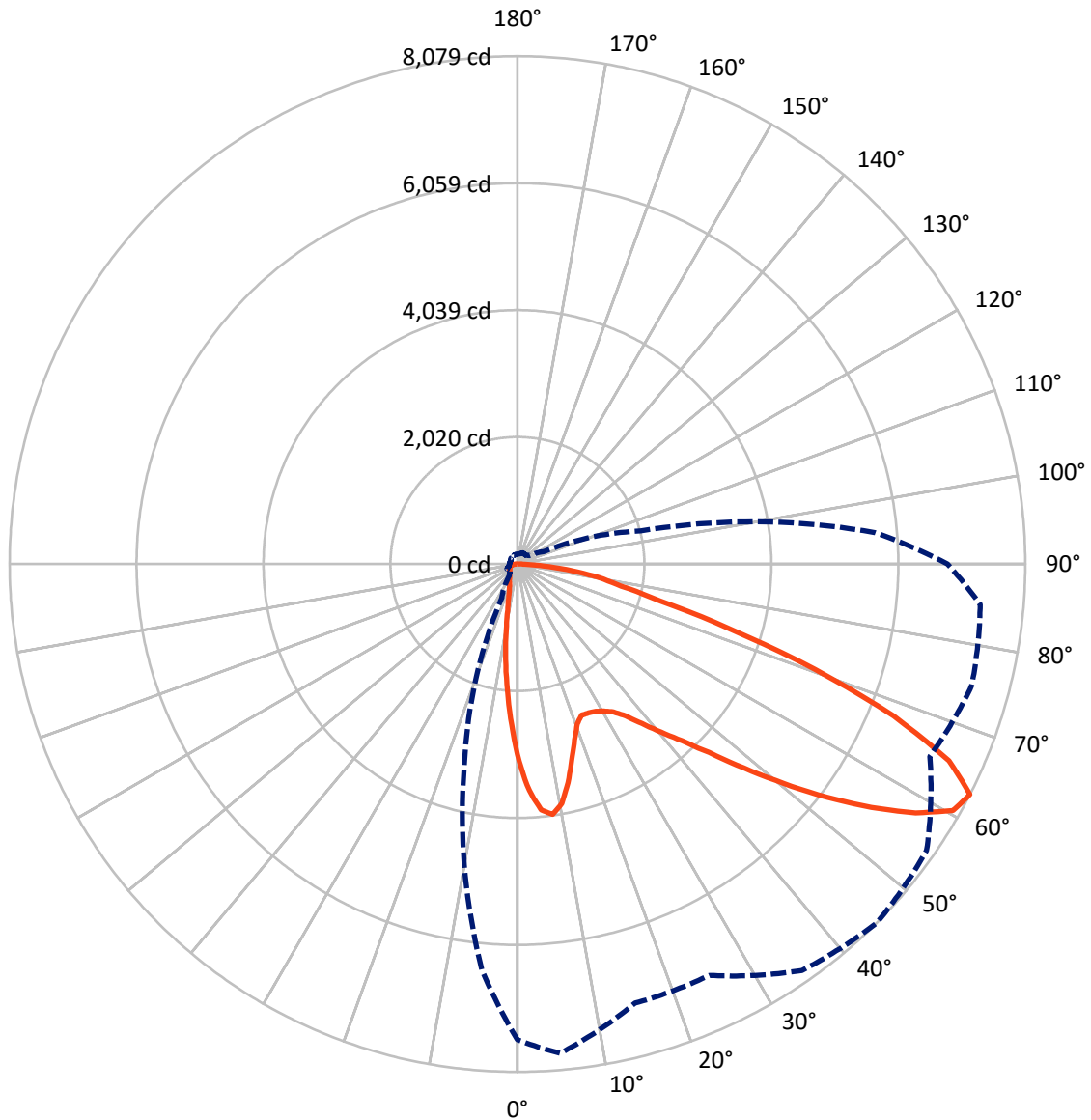


Based on 10 foot mounting height. Maximum calculated value = 37 fc
 Type IV - Short - Non-Cutoff

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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	1538.8	0.0	1538.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	7759.8	0.0	7759.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	9298.5	0.0	9298.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.7	2.5
10°-20°	419.4	4.5
20°-30°	611.4	6.6
30°-40°	941.7	10.1
40°-50°	1385.9	14.9
50°-60°	2032.8	21.9
60°-70°	2272.4	24.4
70°-80°	1112.5	12.0
80°-90°	293.7	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°	9298.5	100.0
0°-180°	9298.5	100.0



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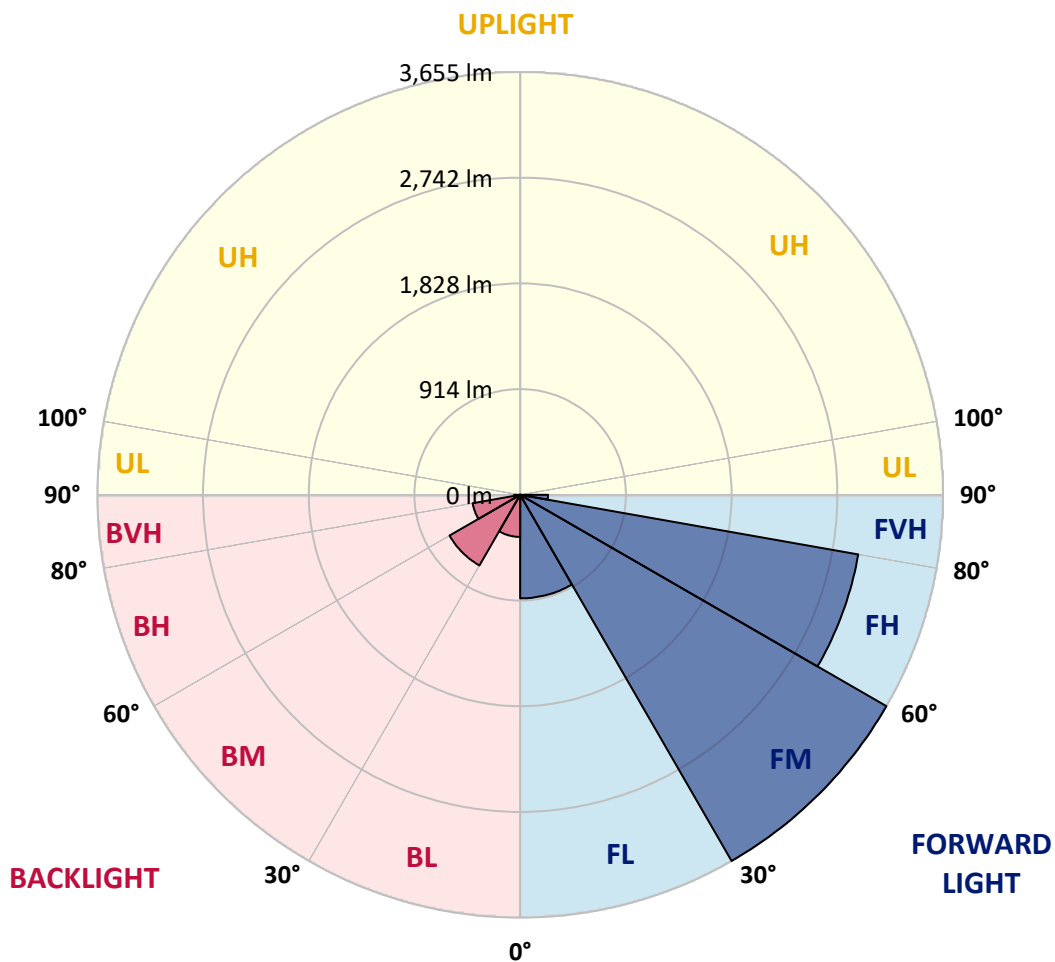
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	895.4	9.6			
FM	(30°-60°)	3655.3	39.3			
FH	(60°-80°)	2967.8	31.9			G2/5000
FVH	(80°-90°)	241.2	2.6			G3/500
BL	(0°-30°)	364.1	3.9	B1/500		
BM	(30°-60°)	705.1	7.6	B1/1000		
BH	(60°-80°)	417.2	4.5	B1/500		G1/500
BVH	(80°-90°)	52.5	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°	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6
2.5°	3264.3	3316.4	3418.1	3494.2	3586.8	3608.2	3637.9	3608.8	3557.1	3488.6	3466.1
5°	3069.5	3180.9	3427.8	3645.1	3838.3	3928.2	3953.4	3879.2	3729.4	3532.6	3412.5
7.5°	2757.2	2915.5	3249.9	3570.0	3854.5	4022.8	4018.7	3846.5	3570.9	3250.4	3057.7
10°	2487.8	2668.8	3052.1	3409.8	3711.9	3875.1	3812.1	3592.0	3263.3	2894.2	2685.2
12.5°	2337.0	2514.4	2903.3	3262.7	3515.2	3571.4	3523.4	3307.6	2998.0	2624.8	2441.9
15°	2310.9	2505.7	2844.0	3136.4	3278.1	3229.0	3171.7	3075.1	2856.3	2537.9	2347.2
17.5°	2423.8	2638.6	2912.0	3048.5	3024.6	2939.2	2922.7	2933.5	2880.9	2634.5	2414.7
20°	2640.6	2898.2	3074.1	3007.2	2831.7	2714.1	2718.4	2882.4	3038.2	2879.3	2628.4
22.5°	2944.7	3238.7	3307.6	3029.2	2750.5	2611.0	2644.7	2910.5	3289.2	3237.1	2916.6
25°	3338.3	3606.2	3556.6	3108.9	2758.7	2623.8	2650.9	3007.6	3585.8	3594.9	3273.5
27.5°	3719.7	3968.2	3765.6	3214.7	2792.4	2654.0	2689.6	3160.4	3868.9	3983.4	3681.3
30°	4017.2	4190.0	3848.5	3311.2	2858.9	2712.7	2757.2	3305.7	3997.7	4245.7	3995.2
32.5°	4263.5	4387.7	3980.4	3430.8	2981.0	2805.1	2883.4	3482.0	4183.2	4495.1	4302.4
35°	4578.4	4613.6	4144.4	3564.2	3169.7	2966.3	3063.3	3654.8	4360.2	4747.2	4605.0
37.5°	4947.4	4902.1	4299.3	3746.8	3413.5	3218.2	3298.4	3844.3	4505.8	5032.8	4914.3
40°	5312.4	5203.1	4493.5	4029.9	3769.3	3515.2	3610.3	4046.9	4641.8	5319.0	5216.3
42.5°	5622.8	5460.6	4685.2	4341.1	4100.5	3842.9	3956.3	4250.8	4771.6	5563.5	5478.6
45°	5852.2	5650.8	4867.7	4640.3	4556.9	4278.4	4332.0	4484.3	4912.2	5767.4	5694.3
47.5°	6057.2	5841.9	5074.3	4941.8	4956.2	4844.6	4758.3	4756.3	5077.8	5933.9	5898.2
50°	6331.7	6107.2	5296.0	5252.6	5555.2	5481.1	5290.5	5073.6	5287.3	6123.0	6119.1
52.5°	6709.9	6527.4	5566.9	5587.4	6114.5	6163.0	5926.8	5455.0	5615.6	6470.2	6445.7
55°	7157.2	7050.8	5936.0	5972.3	6800.3	6835.2	6600.6	5932.0	6098.1	6972.6	6904.6
57.5°	7506.2	7483.8	6340.9	6434.4	7312.6	7469.0	7253.3	6484.0	6642.0	7395.8	7225.2
60°	7645.4	7754.2	6771.8	6900.6	7786.4	7959.7	7770.6	6969.1	7124.0	7571.3	7203.1
62.5°	7570.1	7813.5	7230.7	7220.0	7892.1	8078.7	7945.9	7238.9	7481.3	7390.3	6838.7
65°	7223.1	7600.4	7497.2	7137.8	7530.3	7545.7	7502.7	7118.3	7565.5	6818.2	6134.3
67.5°	6467.1	7010.0	7146.5	6432.4	6554.0	6454.3	6382.3	6457.9	7126.1	5961.2	5155.6
70°	5267.4	6084.3	6149.6	5144.8	5089.5	5022.7	4879.0	5294.5	6258.6	4885.6	4090.8
72.5°	3873.0	4731.7	4932.7	3773.3	3517.8	3531.5	3418.1	3990.1	5088.4	3629.2	3054.1
75°	2649.8	3426.2	3859.2	2632.9	2326.3	2331.9	2317.5	2827.1	4053.0	2524.5	2285.4
77.5°	1935.8	2447.9	2910.5	1770.1	1718.5	1686.7	1679.1	1978.2	3107.2	1833.0	1774.7
80°	1553.3	1808.5	1955.3	1226.7	1319.3	1316.7	1274.3	1360.2	2029.4	1340.8	1327.4
82.5°	1077.4	1389.9	1584.2	961.5	890.4	875.6	885.8	1013.1	1434.4	916.5	871.5
85°	568.4	923.2	1568.7	852.1	528.6	421.8	524.4	829.7	1242.6	485.7	425.3
87.5°	72.7	266.8	1038.7	339.9	208.5	112.5	248.9	467.2	798.0	99.2	86.3
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°	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6
2.5°	3408.3	3340.3	3251.4	3169.2	3083.8	2998.9	2888.1	2818.5	2770.5	2761.3	2740.8
5°	3325.5	3099.6	2929.0	2781.2	2647.2	2458.1	2353.4	2266.5	2219.9	2215.3	2204.1
7.5°	2943.7	2631.9	2401.3	2192.4	2002.7	1849.9	1681.2	1602.4	1570.2	1578.0	1585.6
10°	2546.5	2198.0	1933.2	1719.5	1552.5	1423.5	1288.1	1196.6	1133.2	1120.5	1117.9
12.5°	2256.3	1873.9	1616.8	1466.0	1336.7	1215.5	1071.9	964.1	881.7	853.6	834.7
15°	2133.6	1715.5	1446.0	1283.5	1140.8	987.1	853.6	740.7	665.0	640.5	626.7
17.5°	2159.6	1671.4	1328.6	1120.5	938.0	777.5	609.3	512.8	467.2	455.4	455.4
20°	2296.5	1663.3	1231.3	970.2	742.7	556.6	418.6	363.5	348.6	347.0	351.1
22.5°	2488.8	1691.9	1158.9	839.8	577.2	406.4	326.2	305.7	299.0	300.6	305.2
25°	2775.0	1788.5	1106.2	723.9	452.8	332.7	290.8	278.6	275.5	279.6	285.2
27.5°	3114.5	1885.2	1073.5	636.4	382.4	304.2	276.6	263.7	265.8	270.8	276.0
30°	3412.5	1964.4	1021.8	574.0	360.4	305.7	276.6	259.2	257.2	258.2	259.7
32.5°	3679.7	2018.0	961.5	514.6	310.8	271.4	258.2	255.6	244.2	240.2	240.7
35°	3910.3	2018.0	925.2	480.0	278.6	240.7	219.2	206.5	201.0	201.4	207.0
37.5°	4132.7	1977.7	907.3	460.6	261.1	229.0	210.1	198.9	191.2	189.6	190.7
40°	4328.9	1918.9	886.8	452.3	247.9	221.8	203.9	194.8	186.6	184.1	184.5
42.5°	4486.3	1871.3	864.3	441.6	239.8	216.8	199.9	191.7	182.4	179.9	179.4
45°	4656.6	1855.4	834.7	420.1	243.8	217.2	198.9	190.1	181.0	177.9	176.8
47.5°	4881.0	1905.0	804.1	394.6	252.6	219.7	200.4	190.1	180.4	177.9	176.8
50°	5163.6	2021.6	765.1	357.3	243.8	226.9	199.9	188.6	180.4	177.9	175.9
52.5°	5526.6	2179.1	714.2	314.3	238.7	244.2	198.9	185.5	177.9	174.4	170.7
55°	5967.7	2307.8	653.2	279.2	226.9	239.8	197.3	181.9	173.8	168.7	165.6
57.5°	6290.8	2354.4	575.0	256.0	210.7	232.0	195.2	177.3	168.7	164.6	160.4
60°	6227.0	2264.4	509.1	241.7	201.0	209.6	193.8	173.4	164.1	161.1	157.5
62.5°	5715.1	2029.4	466.7	235.1	194.8	191.2	195.2	169.2	160.0	156.9	155.9
65°	4948.0	1682.2	449.8	233.6	189.6	180.4	181.5	164.6	155.3	152.8	151.9
67.5°	4081.5	1357.6	435.0	238.7	183.0	172.7	167.7	158.5	150.7	148.2	146.2
70°	3218.7	1129.1	428.3	235.6	174.8	165.1	159.4	151.9	145.2	142.7	141.0
72.5°	2592.1	953.8	424.8	232.7	164.1	154.9	149.7	143.1	136.0	134.9	133.4
75°	2193.3	749.8	389.0	222.9	151.9	142.7	139.1	132.9	125.8	125.8	124.8
77.5°	1691.9	542.3	323.6	197.3	139.1	128.7	125.8	121.1	112.9	114.5	113.9
80°	1249.8	353.8	253.1	163.6	123.2	113.5	112.0	107.3	98.6	100.7	100.7
82.5°	856.2	232.0	181.9	133.8	105.3	96.1	96.1	91.4	81.7	82.9	85.9
85°	429.8	159.4	136.0	103.8	81.7	77.2	77.2	73.7	63.9	64.4	68.5
87.5°	130.9	96.1	90.0	74.1	58.7	57.9	55.2	52.6	46.5	46.1	48.6
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°	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6
2.5°	2709.6	2680.5	2645.1	2567.5	2541.5	2539.9	2563.5	2538.9	2586.0	2566.0	2587.9
5°	2185.1	2156.6	2117.1	2018.0	1957.8	1916.9	1897.4	1840.2	1881.6	1851.3	1876.5
7.5°	1607.1	1613.7	1587.7	1529.4	1398.0	1332.0	1293.2	1258.4	1288.6	1285.6	1333.7
10°	1129.7	1147.6	1129.1	1070.4	964.1	927.7	934.9	948.7	988.0	1008.4	1082.6
12.5°	813.2	812.2	800.5	747.7	677.9	681.9	711.0	735.1	771.4	792.8	868.4
15°	607.3	598.0	592.9	550.0	510.1	518.9	533.1	535.7	558.7	571.5	632.8
17.5°	459.0	463.6	469.3	438.6	408.4	402.8	391.5	377.7	384.4	386.9	417.6
20°	364.4	382.9	396.6	375.2	344.5	328.2	313.9	304.6	304.6	304.2	312.8
22.5°	318.4	331.7	346.6	331.7	304.2	289.9	281.7	274.5	273.4	273.4	281.7
25°	293.3	303.1	317.5	307.2	286.7	276.0	268.4	259.2	255.6	254.6	260.1
27.5°	281.1	285.2	292.4	283.1	265.8	260.7	258.6	250.4	245.9	243.4	248.9
30°	260.1	259.2	259.7	250.4	236.7	236.2	239.8	241.3	239.8	239.2	247.9
32.5°	240.7	238.7	238.2	230.1	217.2	214.2	217.2	220.4	223.9	229.0	239.2
35°	216.2	221.3	224.3	217.2	201.8	192.6	189.2	183.6	180.4	180.4	192.1
37.5°	196.8	208.5	213.2	206.5	189.6	176.8	170.7	169.7	170.1	172.2	183.6
40°	190.1	198.9	202.9	196.3	179.4	167.7	164.1	163.0	164.1	167.2	178.5
42.5°	186.0	192.1	191.7	183.6	169.7	161.5	159.4	158.5	159.4	162.6	174.8
45°	182.4	186.6	182.4	172.7	160.0	155.9	156.5	155.9	156.9	160.0	171.8
47.5°	179.4	181.0	175.9	166.1	152.8	151.9	153.9	155.3	156.5	159.0	171.2
50°	174.8	174.8	170.1	160.0	146.8	147.2	149.7	153.3	153.9	156.9	166.6
52.5°	169.2	168.7	165.6	155.9	141.7	143.1	143.1	147.2	148.2	151.9	162.1
55°	164.6	163.6	162.1	152.8	137.0	139.5	138.0	139.5	142.1	145.6	156.9
57.5°	160.4	158.5	158.5	150.2	133.4	134.4	130.9	132.9	136.0	139.1	150.7
60°	156.5	154.4	155.3	146.8	127.7	126.8	125.3	129.4	130.3	133.8	145.6
62.5°	151.9	150.2	150.7	142.7	123.6	121.1	121.1	124.8	125.3	130.3	141.7
65°	148.2	146.2	145.6	138.5	119.0	116.1	117.6	119.0	120.2	125.3	136.0
67.5°	144.6	140.6	140.6	134.9	113.9	110.9	113.9	113.5	115.1	119.7	128.3
70°	140.0	134.4	134.9	132.4	108.9	105.3	107.8	107.3	108.3	111.4	120.2
72.5°	132.9	128.3	129.4	128.3	103.8	98.6	99.7	99.7	99.7	102.2	111.4
75°	123.6	120.2	123.2	125.8	97.6	90.5	91.4	91.4	90.0	91.4	102.8
77.5°	112.5	110.4	120.6	117.0	90.5	81.7	81.7	80.8	77.8	79.7	91.9
80°	100.3	98.6	111.4	98.2	82.3	71.1	70.0	67.5	64.4	65.9	78.2
82.5°	87.5	85.9	93.6	75.2	71.1	58.7	56.2	51.7	48.6	50.0	61.4
85°	71.5	71.5	72.0	56.8	54.2	44.9	42.0	35.8	32.2	33.2	43.9
87.5°	51.2	52.6	48.6	38.8	32.2	25.1	22.9	19.5	16.3	19.0	22.9
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°	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6
2.5°	2700.5	2756.7	2820.6	2902.3	2972.3	3087.4	3197.7	3264.3
5°	2019.1	2112.6	2229.1	2378.9	2518.5	2728.1	2936.1	3069.5
7.5°	1445.1	1545.3	1670.9	1858.1	2055.3	2322.7	2597.7	2757.2
10°	1195.6	1298.3	1404.1	1530.4	1691.9	1982.7	2307.8	2487.8
12.5°	989.0	1098.9	1213.0	1345.9	1495.7	1755.3	2130.1	2337.0
15°	757.0	879.7	1014.1	1182.3	1369.8	1669.9	2086.0	2310.9
17.5°	518.9	655.9	821.0	1028.4	1257.9	1642.3	2164.7	2423.8
20°	357.3	457.0	633.3	876.7	1152.6	1638.8	2316.0	2640.6
22.5°	299.0	343.5	472.2	737.1	1073.5	1682.7	2550.6	2944.7
25°	276.6	303.1	377.2	616.0	1015.7	1783.9	2873.7	3338.3
27.5°	263.3	287.3	342.4	536.6	970.2	1901.5	3188.1	3719.7
30°	268.4	292.8	332.7	496.4	908.4	1999.6	3467.2	4017.2
32.5°	241.7	252.6	285.2	460.6	863.8	2081.9	3711.4	4263.5
35°	206.0	224.9	254.6	443.8	864.9	2137.2	3977.9	4578.4
37.5°	196.3	215.2	236.7	437.6	876.7	2195.9	4283.5	4947.4
40°	190.1	207.5	226.0	434.1	887.9	2249.5	4583.1	5312.4
42.5°	186.0	201.8	224.9	421.8	893.5	2297.7	4829.4	5622.8
45°	185.5	201.8	229.0	409.4	902.2	2349.2	5035.9	5852.2
47.5°	186.0	208.5	221.3	394.6	902.2	2435.7	5278.3	6057.2
50°	184.1	219.7	213.2	373.6	881.2	2599.2	5610.5	6331.7
52.5°	183.0	218.3	197.3	341.4	844.9	2858.9	6036.3	6709.9
55°	180.4	210.7	186.0	293.3	802.5	3142.0	6492.2	7157.2
57.5°	177.9	186.6	179.9	251.4	737.1	3341.4	6806.0	7506.2
60°	199.3	163.0	174.8	231.0	649.7	3396.1	6793.7	7645.4
62.5°	184.5	152.8	168.2	226.5	588.3	3242.7	6480.0	7570.1
65°	144.6	146.2	161.5	239.8	572.0	2836.4	5923.8	7223.1
67.5°	132.4	139.5	154.9	256.6	573.5	2271.1	5092.6	6467.1
70°	124.8	132.4	147.2	265.3	577.6	1692.9	4026.4	5267.4
72.5°	116.1	122.7	138.5	266.8	551.0	1229.8	3103.3	3873.0
75°	105.8	112.0	126.2	232.7	456.5	853.1	2373.9	2649.8
77.5°	94.1	98.6	110.9	179.4	338.9	545.9	1781.9	1935.8
80°	80.3	82.9	93.1	131.3	232.0	341.4	1409.8	1553.3
82.5°	64.4	65.4	72.0	98.6	150.7	219.2	944.1	1077.4
85°	45.5	45.5	49.5	71.5	102.8	139.1	512.8	568.4
87.5°	21.5	22.0	22.0	39.3	53.7	70.5	118.0	72.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)