

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: P191281

Luminaire Tested: **GLEON-AF-03-LED-E1-SLL-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191281
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-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 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: 13199.1 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

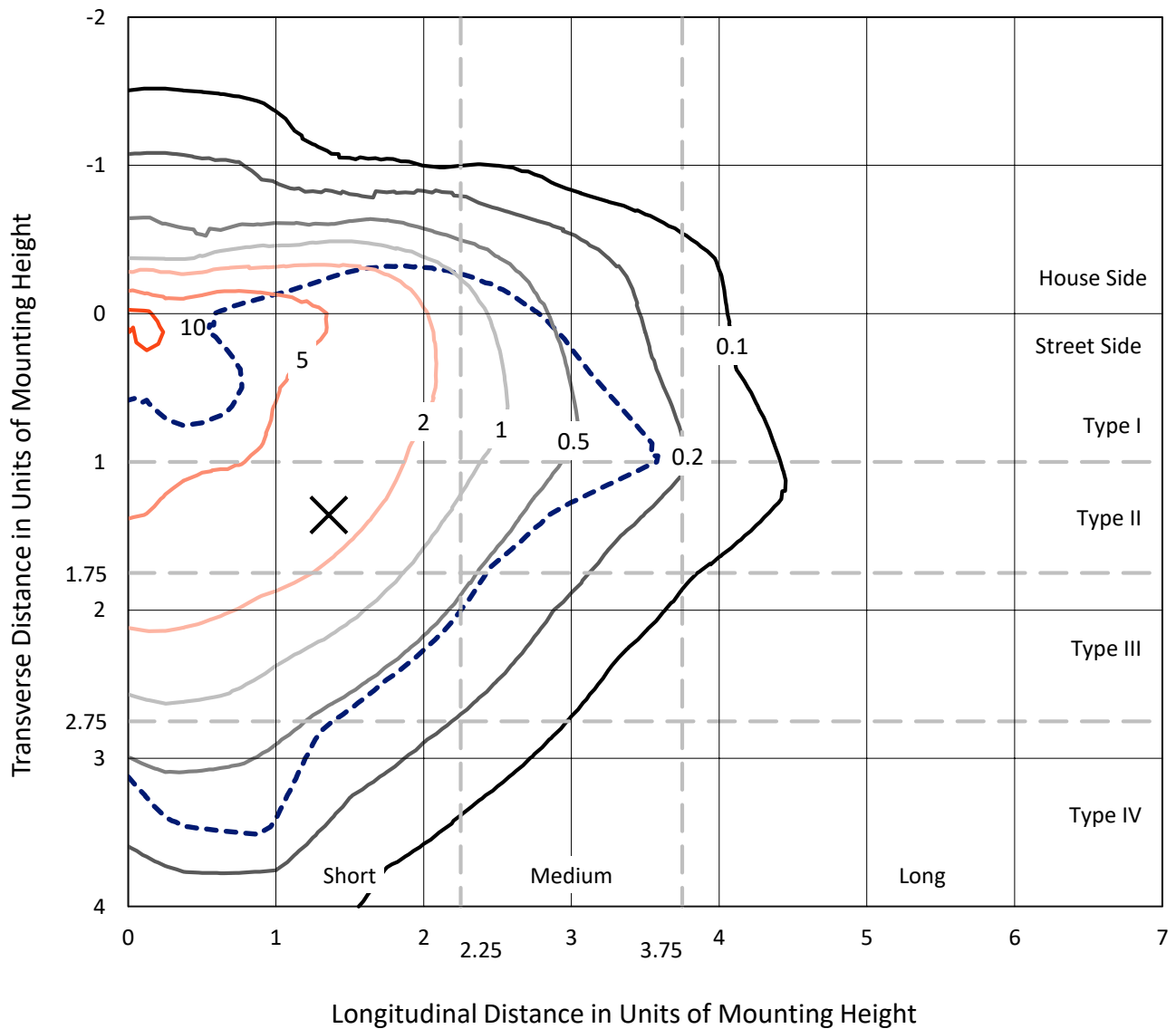
Input Watts (W): 124
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

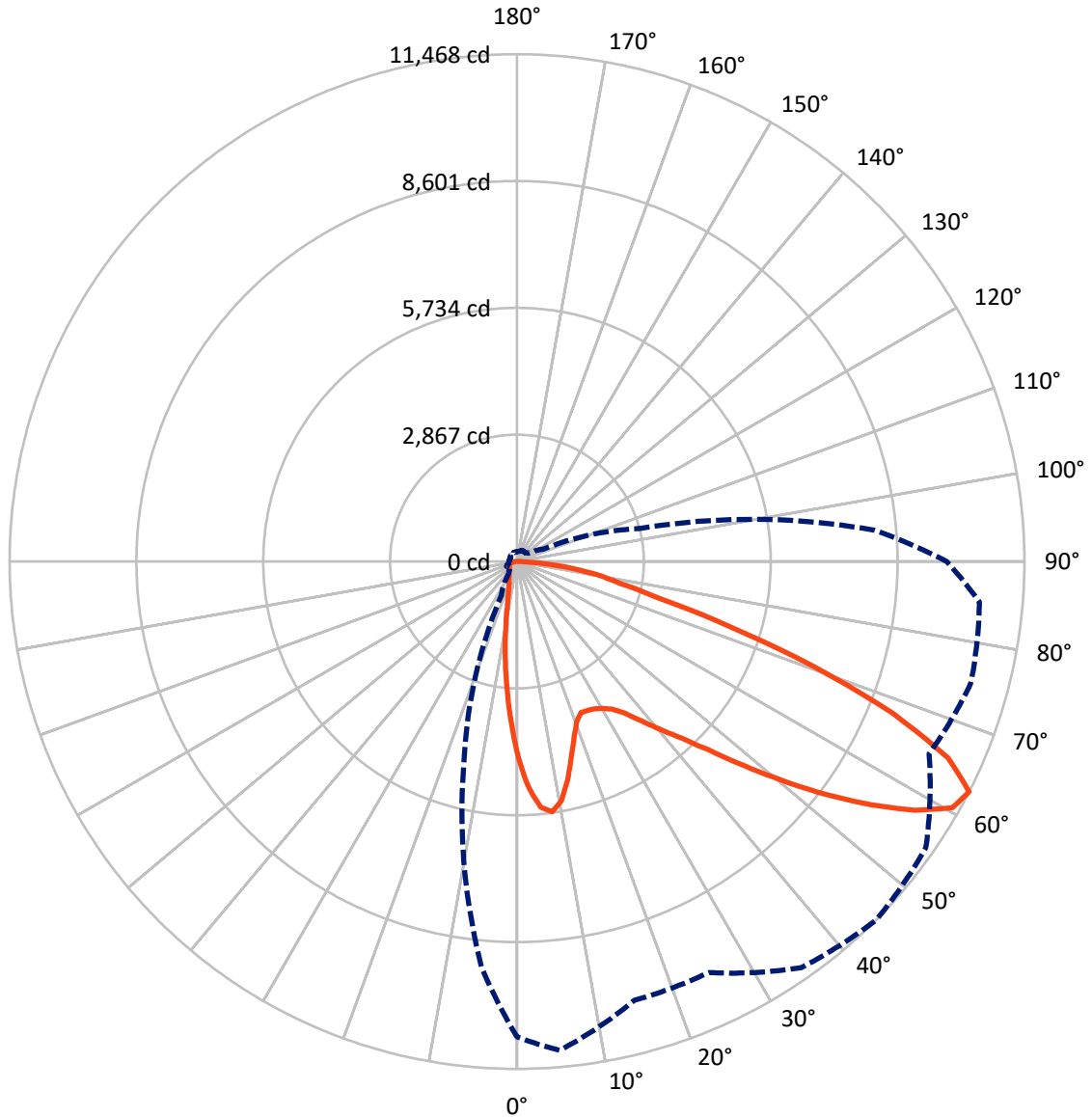
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.1 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	2184.3	0.0	2184.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	11014.9	0.0	11014.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	13199.1	0.0	13199.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.6	2.5
10°-20°	595.3	4.5
20°-30°	867.9	6.6
30°-40°	1336.7	10.1
40°-50°	1967.3	14.9
50°-60°	2885.6	21.9
60°-70°	3225.6	24.4
70°-80°	1579.2	12.0
80°-90°	417.0	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°	13199.1	100.0
0°-180°	13199.1	100.0

Coefficient of Utilization



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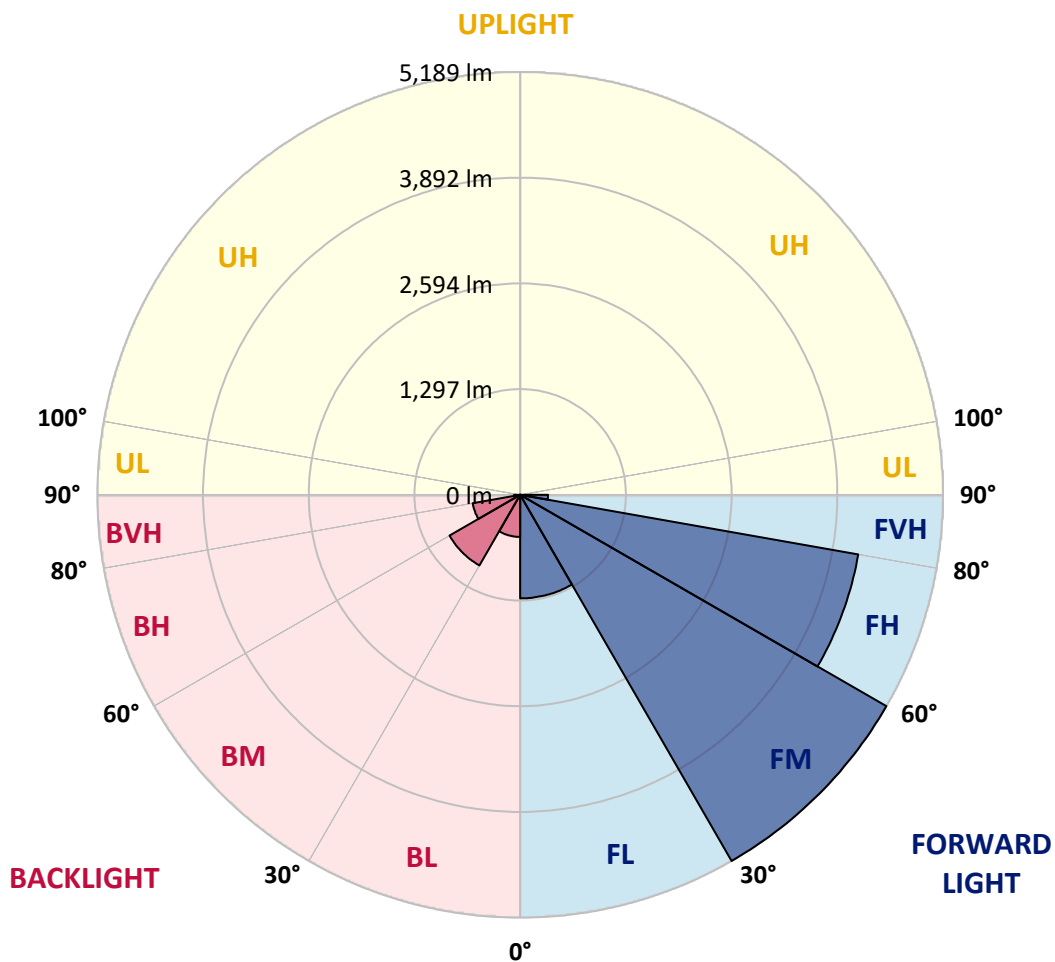
CATALOG NUMBER: GLEON-AF-03-LED-E1-SLL-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1271.0	9.6			
FM	(30°-60°)	5188.7	39.3			
FH	(60°-80°)	4212.7	31.9			G2/5000
FVH	(80°-90°)	342.4	2.6			G3/500
BL	(0°-30°)	516.8	3.9	B2/1000		
BM	(30°-60°)	1000.8	7.6	B2/2500		
BH	(60°-80°)	592.2	4.5	B2/1000		G2/1000
BVH	(80°-90°)	74.5	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3
2.5°	4633.6	4707.5	4852.0	4960.0	5091.3	5121.8	5164.0	5122.5	5049.3	4952.0	4920.1
5°	4357.1	4515.2	4865.7	5174.1	5448.3	5576.0	5611.6	5506.3	5293.8	5014.4	4844.0
7.5°	3913.7	4138.7	4613.2	5067.4	5471.6	5710.3	5704.5	5459.9	5068.8	4613.9	4340.4
10°	3531.3	3788.2	4332.4	4840.3	5269.1	5500.6	5411.3	5098.6	4632.0	4108.2	3811.4
12.5°	3317.3	3569.1	4121.3	4631.3	4989.7	5069.5	5001.4	4695.1	4255.5	3725.8	3466.1
15°	3280.3	3556.8	4037.1	4452.1	4653.1	4583.4	4502.2	4365.0	4054.5	3602.5	3331.9
17.5°	3440.7	3745.4	4133.6	4327.3	4293.2	4172.0	4148.9	4164.0	4089.3	3739.6	3427.6
20°	3748.3	4114.0	4363.6	4268.6	4019.7	3852.8	3858.6	4091.5	4312.9	4087.2	3730.9
22.5°	4180.0	4597.2	4695.1	4299.8	3904.3	3706.3	3754.1	4131.4	4669.1	4595.1	4140.1
25°	4738.7	5118.9	5048.6	4412.9	3916.0	3724.4	3762.8	4269.3	5089.9	5103.0	4646.5
27.5°	5280.0	5632.7	5345.3	4563.2	3963.8	3767.2	3818.0	4486.3	5491.9	5654.4	5225.5
30°	5702.3	5947.5	5462.9	4700.3	4058.1	3850.6	3913.7	4692.3	5674.7	6026.6	5671.1
32.5°	6052.0	6228.3	5650.1	4870.1	4231.5	3981.9	4092.9	4942.6	5938.1	6380.7	6107.1
35°	6499.0	6549.0	5883.0	5059.4	4499.2	4210.5	4348.4	5187.9	6189.2	6738.4	6536.7
37.5°	7022.9	6958.2	6102.8	5318.4	4845.4	4568.2	4682.1	5457.0	6395.9	7144.0	6975.7
40°	7540.9	7385.6	6378.5	5720.4	5350.3	4989.7	5124.8	5744.4	6588.9	7550.3	7404.5
42.5°	7981.3	7751.3	6650.6	6162.3	5820.6	5454.9	5615.9	6033.9	6773.3	7897.2	7776.7
45°	8307.1	8021.3	6909.6	6586.8	6468.5	6073.1	6149.3	6365.4	6972.7	8186.7	8082.8
47.5°	8598.0	8292.6	7202.8	7014.9	7035.1	6877.0	6754.3	6751.5	7207.8	8423.2	8372.4
50°	8987.6	8669.2	7517.7	7456.0	7885.5	7780.4	7509.7	7202.1	7505.3	8691.6	8685.9
52.5°	9524.6	9265.6	7902.2	7931.2	8679.3	8748.3	8413.1	7743.3	7971.1	9184.4	9149.5
55°	10159.5	10008.6	8426.0	8477.6	9653.1	9702.4	9369.3	8420.3	8656.1	9897.6	9801.1
57.5°	10655.1	10623.1	9000.7	9133.5	10380.1	10602.1	10295.9	9203.9	9428.1	10498.3	10256.0
60°	10852.4	11007.0	9612.4	9795.3	11052.7	11298.6	11030.2	9892.4	10112.3	10747.2	10224.8
62.5°	10745.8	11091.1	10264.0	10248.7	11202.8	11467.7	11279.1	10275.5	10619.5	10490.4	9707.5
65°	10253.1	10788.6	10642.0	10131.9	10689.1	10710.9	10649.9	10104.3	10739.2	9678.4	8707.7
67.5°	9180.0	9950.5	10144.3	9130.7	9303.3	9161.9	9059.6	9166.9	10115.2	8461.6	7318.2
70°	7477.1	8636.5	8729.4	7302.9	7224.6	7129.5	6925.6	7515.5	8883.9	6935.0	5806.8
72.5°	5497.6	6716.6	7001.8	5356.2	4993.4	5013.0	4852.0	5663.9	7223.1	5151.6	4335.3
75°	3761.4	4863.5	5478.1	3737.5	3302.1	3310.1	3289.7	4013.1	5753.1	3583.6	3244.1
77.5°	2747.7	3474.8	4131.4	2512.7	2439.4	2394.4	2383.5	2808.0	4410.8	2601.9	2519.2
80°	2205.0	2567.1	2775.4	1741.4	1872.7	1869.0	1808.9	1930.7	2880.5	1903.2	1884.3
82.5°	1529.5	1972.9	2248.5	1364.8	1264.0	1242.9	1257.4	1438.1	2036.0	1301.0	1237.1
85°	806.8	1310.4	2226.8	1209.5	750.2	598.6	744.4	1177.6	1763.9	689.3	603.6
87.5°	103.0	378.8	1474.4	482.5	296.0	159.6	353.3	663.2	1132.6	140.8	122.7
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°	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3
2.5°	4838.1	4741.6	4615.3	4498.5	4377.4	4256.9	4099.5	4000.9	3932.6	3919.5	3890.5
5°	4720.6	4399.9	4157.6	3947.9	3757.7	3489.3	3340.5	3217.2	3151.2	3144.7	3128.7
7.5°	4178.5	3736.0	3408.8	3112.0	2842.8	2625.8	2386.4	2274.6	2229.0	2239.9	2250.7
10°	3614.8	3120.0	2744.2	2440.9	2203.5	2020.7	1828.4	1698.6	1608.6	1590.5	1586.8
12.5°	3202.7	2660.0	2295.0	2081.0	1897.4	1725.4	1521.5	1368.4	1251.6	1211.7	1184.9
15°	3028.5	2435.0	2052.7	1821.9	1619.4	1401.0	1211.7	1051.4	944.0	909.1	889.6
17.5°	3065.6	2372.6	1885.8	1590.5	1331.5	1103.6	864.9	727.7	663.2	646.5	646.5
20°	3260.0	2361.0	1747.9	1377.1	1054.3	790.1	594.2	515.9	494.8	492.7	498.5
22.5°	3532.9	2401.7	1644.9	1192.1	819.2	576.8	462.9	433.9	424.4	426.7	433.1
25°	3939.2	2538.8	1570.1	1027.5	642.8	472.4	412.9	395.5	391.1	396.9	404.9
27.5°	4420.9	2675.9	1523.7	903.4	542.8	431.7	392.5	374.4	377.3	384.5	391.8
30°	4844.0	2788.4	1450.4	814.8	511.6	433.9	392.5	367.9	365.0	366.4	368.6
32.5°	5223.4	2864.6	1364.8	730.7	441.2	385.2	366.4	362.7	346.8	341.1	341.8
35°	5550.6	2864.6	1313.3	681.3	395.5	341.8	311.3	293.2	285.2	285.9	293.9
37.5°	5866.3	2807.3	1287.9	653.8	370.7	325.1	298.2	282.2	271.4	269.1	270.7
40°	6144.9	2723.8	1258.8	642.1	351.9	314.9	289.5	276.4	264.8	261.2	262.0
42.5°	6368.4	2656.3	1226.9	626.9	340.3	307.6	283.7	272.1	259.0	255.4	254.7
45°	6610.0	2633.8	1184.9	596.4	346.1	308.4	282.2	270.0	256.9	252.5	251.0
47.5°	6928.5	2704.2	1141.3	560.2	358.4	312.0	284.4	270.0	256.1	252.5	251.0
50°	7329.7	2869.7	1086.2	507.2	346.1	322.1	283.7	267.7	256.1	252.5	249.6
52.5°	7844.9	3093.1	1013.6	446.2	338.8	346.8	282.2	263.4	252.5	247.5	242.3
55°	8471.1	3276.0	927.3	396.2	322.1	340.3	280.1	258.3	246.7	239.5	235.1
57.5°	8929.6	3342.0	816.3	363.6	298.9	329.4	277.2	251.7	239.5	233.6	227.8
60°	8838.9	3214.3	722.7	343.2	285.2	297.5	275.0	246.0	232.9	228.5	223.5
62.5°	8112.6	2880.5	662.5	333.8	276.4	271.4	277.2	240.2	227.1	222.8	221.3
65°	7023.6	2387.9	638.5	331.5	269.1	256.1	257.6	233.6	220.5	217.0	215.5
67.5°	5793.7	1927.1	617.5	338.8	259.7	245.2	237.9	224.9	214.0	210.4	207.6
70°	4568.9	1602.8	608.0	334.5	248.2	234.4	226.4	215.5	206.0	202.4	200.3
72.5°	3679.3	1353.9	602.9	330.1	232.9	219.8	212.6	203.2	193.0	191.6	189.3
75°	3113.5	1064.4	552.2	316.4	215.5	202.4	197.3	188.6	178.5	178.5	177.1
77.5°	2401.7	769.9	459.3	280.1	197.3	182.8	178.5	172.0	160.4	162.5	161.8
80°	1774.0	502.1	359.2	232.2	174.8	161.1	158.9	152.4	140.0	142.9	142.9
82.5°	1215.4	329.4	258.3	190.1	149.5	136.4	136.4	129.9	116.1	117.5	121.9
85°	610.2	226.4	193.0	147.3	116.1	109.6	109.6	104.4	90.7	91.5	97.2
87.5°	185.8	136.4	127.7	105.2	83.5	82.0	78.4	74.8	66.0	65.3	68.9
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3
2.5°	3846.3	3804.9	3754.8	3644.6	3607.5	3605.4	3638.7	3604.0	3670.7	3642.4	3673.6
5°	3101.8	3061.2	3005.3	2864.6	2778.9	2720.9	2693.3	2612.1	2670.8	2628.1	2663.6
7.5°	2281.2	2290.6	2253.7	2170.9	1984.4	1890.8	1835.7	1786.4	1829.1	1824.8	1893.1
10°	1603.5	1628.9	1602.8	1519.4	1368.4	1316.9	1327.1	1346.7	1402.6	1431.5	1536.8
12.5°	1154.4	1153.0	1136.3	1061.5	962.1	967.9	1009.2	1043.4	1094.9	1125.3	1232.8
15°	861.9	848.9	841.7	780.7	724.1	736.4	756.8	760.4	793.1	811.2	898.3
17.5°	651.5	658.1	666.0	622.6	579.7	571.7	555.8	536.2	545.6	549.2	592.8
20°	517.3	543.5	563.0	532.5	489.1	465.9	445.5	432.4	432.4	431.7	444.1
22.5°	452.0	470.9	491.9	470.9	431.7	411.4	399.8	389.6	388.2	388.2	399.8
25°	416.4	430.3	450.6	436.1	407.0	391.8	380.9	367.9	362.7	361.3	369.3
27.5°	399.1	404.9	415.0	401.9	377.3	370.0	367.1	355.6	349.0	345.3	353.3
30°	369.3	367.9	368.6	355.6	335.9	335.2	340.3	342.5	340.3	339.6	351.9
32.5°	341.8	338.8	338.1	326.5	308.4	304.0	308.4	312.7	317.8	325.1	339.6
35°	306.9	314.1	318.5	308.4	286.6	273.5	268.4	260.4	256.1	256.1	272.8
37.5°	279.4	296.0	302.6	293.2	269.1	251.0	242.3	240.9	241.6	244.5	260.4
40°	270.0	282.2	288.1	278.7	254.7	237.9	232.9	231.5	232.9	237.2	253.2
42.5°	264.1	272.8	272.1	260.4	240.9	229.2	226.4	224.9	226.4	230.8	248.2
45°	259.0	264.8	259.0	245.2	227.1	221.3	222.0	221.3	222.8	227.1	243.8
47.5°	254.7	256.9	249.6	235.8	217.0	215.5	218.4	220.5	222.0	225.7	243.1
50°	248.2	248.2	241.6	227.1	208.3	209.0	212.6	217.7	218.4	222.8	236.5
52.5°	240.2	239.5	235.1	221.3	201.0	203.2	203.2	209.0	210.4	215.5	230.0
55°	233.6	232.2	230.0	217.0	194.5	198.0	195.9	198.0	201.7	206.7	222.8
57.5°	227.8	224.9	224.9	213.3	189.3	190.8	185.8	188.6	193.0	197.3	214.0
60°	222.0	219.1	220.5	208.3	181.4	179.9	177.8	183.6	185.1	190.1	206.7
62.5°	215.5	213.3	214.0	202.4	175.5	172.0	172.0	177.1	177.8	185.1	201.0
65°	210.4	207.6	206.7	196.6	169.1	164.7	166.8	169.1	170.5	177.8	193.0
67.5°	205.3	199.6	199.6	191.6	161.8	157.4	161.8	161.1	163.3	169.8	182.1
70°	198.8	190.8	191.6	187.9	154.6	149.5	153.1	152.4	153.9	158.1	170.5
72.5°	188.6	182.1	183.6	182.1	147.3	140.0	141.5	141.5	141.5	145.2	158.1
75°	175.5	170.5	174.8	178.5	138.6	128.4	129.9	129.9	127.7	129.9	145.9
77.5°	159.6	156.7	171.2	166.1	128.4	116.1	116.1	114.7	110.3	113.2	130.6
80°	142.2	140.0	158.1	139.3	116.8	100.9	99.4	95.7	91.5	93.6	111.0
82.5°	124.1	121.9	132.8	106.7	100.9	83.5	79.8	73.2	68.9	71.1	87.1
85°	101.6	101.6	102.3	80.5	76.9	63.8	59.5	50.8	45.7	47.2	62.4
87.5°	72.5	74.8	68.9	55.1	45.7	35.6	32.6	27.6	23.2	26.8	32.6
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3
2.5°	3833.2	3913.0	4003.7	4119.8	4219.3	4382.4	4539.2	4633.6
5°	2866.0	2998.8	3164.2	3376.9	3574.9	3872.4	4167.7	4357.1
7.5°	2051.2	2193.4	2371.9	2637.5	2917.6	3297.0	3687.3	3913.7
10°	1697.1	1842.9	1993.1	2172.3	2401.7	2814.5	3276.0	3531.3
12.5°	1404.0	1560.0	1721.8	1910.5	2123.0	2491.6	3023.4	3317.3
15°	1074.6	1248.7	1439.5	1678.3	1944.5	2370.5	2961.0	3280.3
17.5°	736.4	930.9	1165.2	1459.9	1785.7	2331.3	3072.8	3440.7
20°	507.2	648.7	899.0	1244.3	1636.2	2326.2	3287.6	3748.3
22.5°	424.4	487.5	670.4	1046.3	1523.7	2388.6	3620.6	4180.0
25°	392.5	430.3	535.5	874.3	1441.7	2532.2	4079.2	4738.7
27.5°	373.7	407.7	486.1	761.9	1377.1	2699.2	4525.4	5280.0
30°	380.9	415.7	472.4	704.5	1289.3	2838.5	4921.5	5702.3
32.5°	343.2	358.4	404.9	653.8	1226.2	2955.3	5268.4	6052.0
35°	292.4	319.3	361.3	629.8	1227.6	3033.7	5646.4	6499.0
37.5°	278.7	305.5	335.9	621.1	1244.3	3117.0	6080.3	7022.9
40°	270.0	294.6	320.7	616.0	1260.3	3193.2	6505.5	7540.9
42.5°	264.1	286.6	319.3	598.6	1268.3	3261.5	6855.2	7981.3
45°	263.4	286.6	325.1	581.1	1280.6	3334.7	7148.4	8307.1
47.5°	264.1	296.0	314.1	560.2	1280.6	3457.4	7492.3	8598.0
50°	261.2	312.0	302.6	530.4	1250.9	3689.6	7963.9	8987.6
52.5°	259.7	309.9	280.1	484.7	1199.4	4058.1	8568.3	9524.6
55°	256.1	298.9	264.1	416.4	1139.2	4460.1	9215.6	10159.5
57.5°	252.5	264.8	255.4	357.0	1046.3	4743.1	9661.1	10655.1
60°	282.9	231.5	248.2	328.0	922.2	4820.8	9643.6	10852.4
62.5°	262.0	217.0	238.8	321.4	835.1	4603.1	9198.1	10745.8
65°	205.3	207.6	229.2	340.3	811.9	4026.2	8408.7	10253.1
67.5°	187.9	198.0	219.8	364.3	814.1	3223.7	7228.9	9180.0
70°	177.1	187.9	209.0	376.5	819.9	2403.1	5715.3	7477.1
72.5°	164.7	174.1	196.6	378.8	782.1	1745.8	4404.9	5497.6
75°	150.2	158.9	179.2	330.1	647.9	1211.0	3369.6	3761.4
77.5°	133.5	140.0	157.4	254.7	481.1	774.9	2529.3	2747.7
80°	114.0	117.5	132.1	186.5	329.4	484.7	2001.1	2205.0
82.5°	91.5	92.9	102.3	140.0	214.0	311.3	1340.2	1529.5
85°	64.5	64.5	70.4	101.6	145.9	197.3	727.7	806.8
87.5°	30.5	31.2	31.2	55.9	76.2	100.1	167.6	103.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)