

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: P192100

Luminaire Tested: **GLEON-AF-02-LED-E1-SLL-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192100
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-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 1200mA 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: 11741 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 129
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

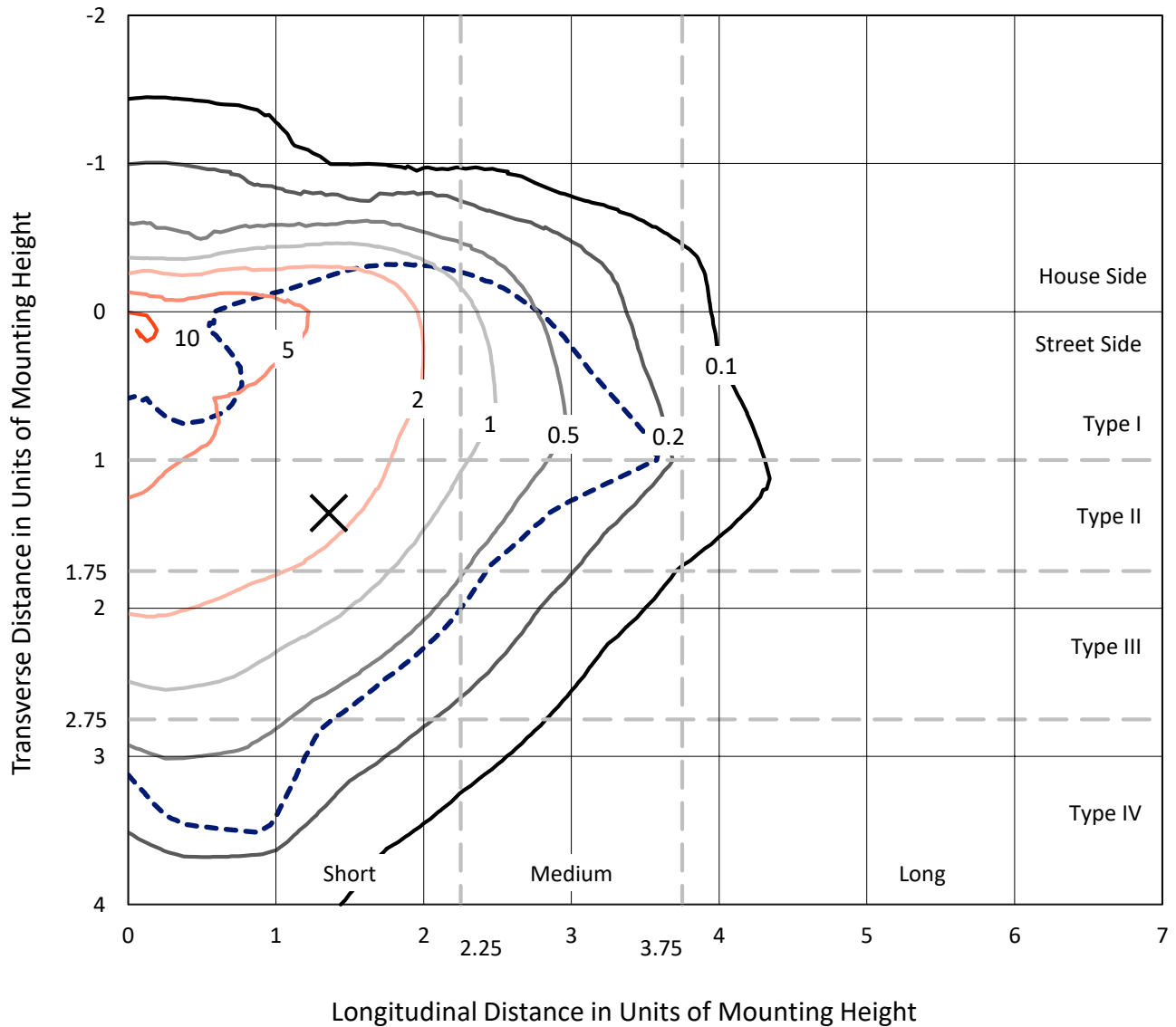


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Iso-Footcandle Lines of Horizontal Illumination

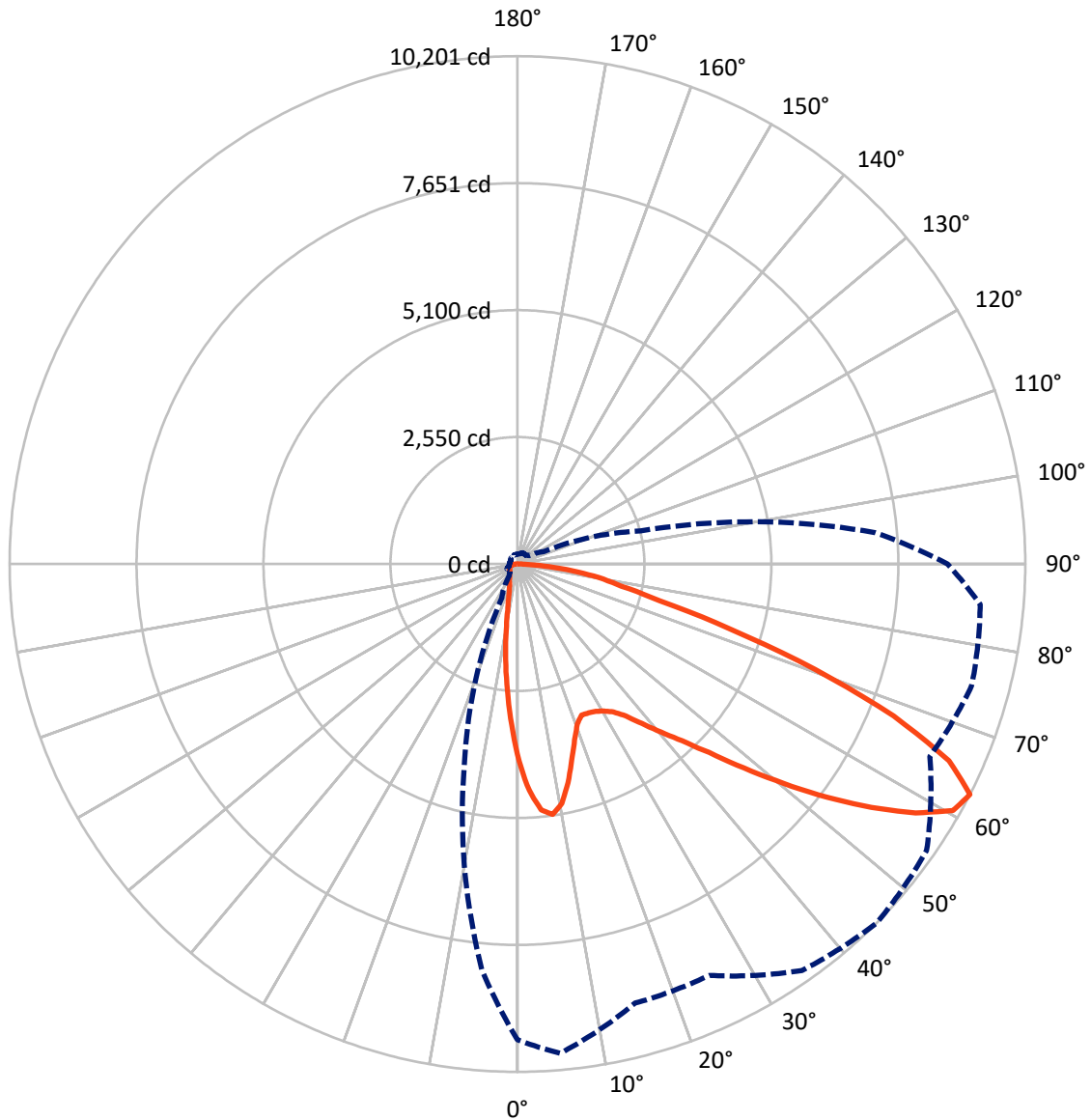
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.7 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	1943.0	0.0	1943.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	9798.0	0.0	9798.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	11741.0	0.0	11741.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.8	2.5
10°-20°	529.5	4.5
20°-30°	772.0	6.6
30°-40°	1189.0	10.1
40°-50°	1749.9	14.9
50°-60°	2566.8	21.9
60°-70°	2869.3	24.4
70°-80°	1404.8	12.0
80°-90°	370.9	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°	11741.0	100.0
0°-180°	11741.0	100.0

Coefficient of Utilization



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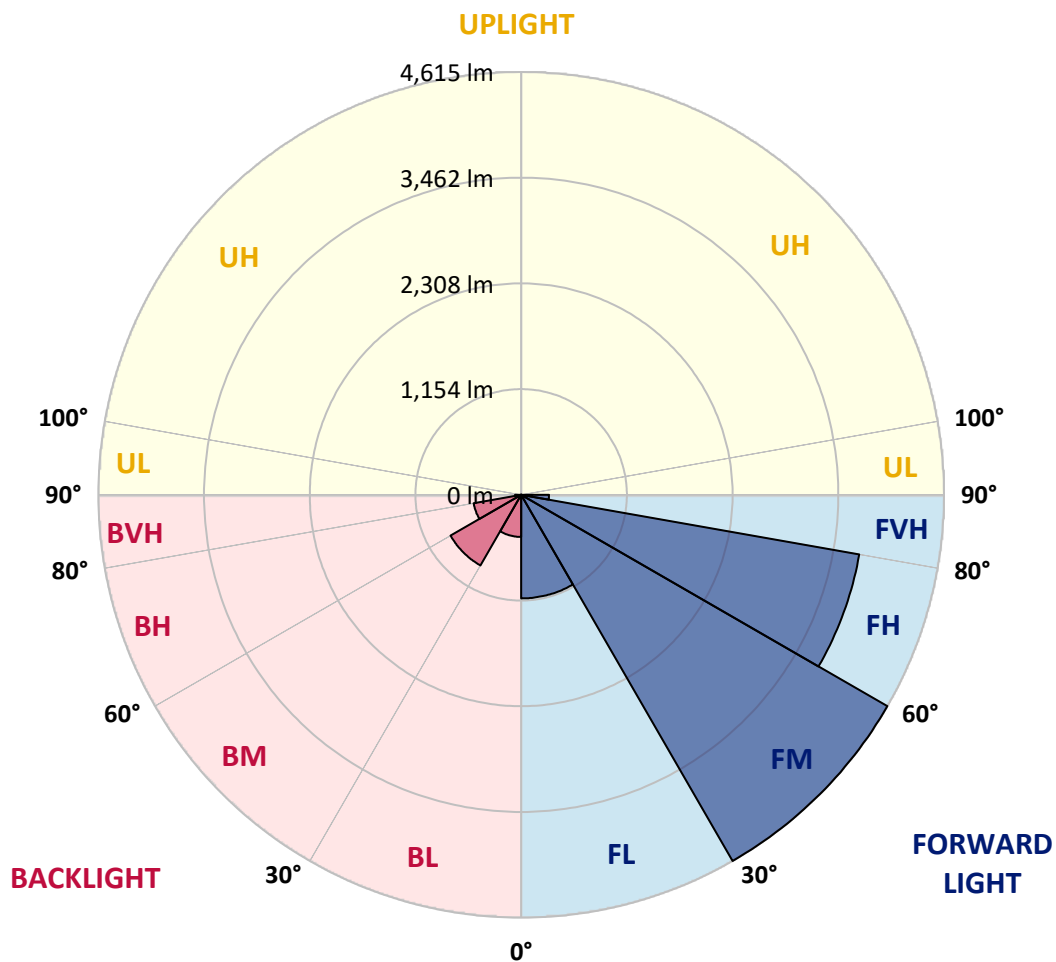
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1130.6	9.6			
FM (30°-60°)	4615.5	39.3			
FH (60°-80°)	3747.3	31.9			G2/5000
FVH (80°-90°)	304.6	2.6			G3/500
BL (0°-30°)	459.7	3.9	B1/500		
BM (30°-60°)	890.3	7.6	B1/1000		
BH (60°-80°)	526.7	4.5	B2/1000		G2/1000
BVH (80°-90°)	66.3	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°	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7
2.5°	4121.6	4187.5	4315.9	4412.1	4528.9	4556.0	4593.4	4556.7	4491.5	4405.0	4376.6
5°	3875.7	4016.4	4328.2	4602.5	4846.4	4960.0	4991.7	4898.1	4709.0	4460.5	4308.8
7.5°	3481.4	3681.5	4103.6	4507.6	4867.1	5079.4	5074.3	4856.8	4508.9	4104.2	3860.9
10°	3141.3	3369.7	3853.8	4305.6	4687.0	4892.9	4813.5	4535.4	4120.4	3654.4	3390.4
12.5°	2950.9	3174.8	3666.0	4119.7	4438.5	4509.5	4448.9	4176.5	3785.4	3314.2	3083.2
15°	2917.9	3163.8	3591.1	3960.3	4139.1	4077.1	4004.8	3882.8	3606.6	3204.5	2963.8
17.5°	3060.6	3331.7	3676.9	3849.3	3818.9	3711.2	3690.5	3704.1	3637.6	3326.5	3049.0
20°	3334.2	3659.5	3881.5	3797.0	3575.6	3427.2	3432.3	3639.5	3836.4	3635.6	3318.7
22.5°	3718.3	4089.4	4176.5	3824.8	3473.0	3296.8	3339.4	3675.0	4153.3	4087.4	3682.8
25°	4215.2	4553.4	4490.8	3925.4	3483.3	3312.9	3347.1	3797.6	4527.6	4539.2	4133.3
27.5°	4696.7	5010.4	4754.8	4059.0	3525.9	3351.0	3396.2	3990.6	4885.2	5029.7	4648.3
30°	5072.3	5290.5	4859.4	4181.0	3609.8	3425.2	3481.4	4173.9	5047.8	5360.8	5044.6
32.5°	5383.4	5540.3	5025.9	4332.0	3764.1	3542.1	3640.8	4396.6	5282.1	5675.8	5432.5
35°	5781.0	5825.5	5233.1	4500.5	4002.2	3745.4	3868.0	4614.7	5505.4	5994.0	5814.6
37.5°	6247.0	6189.6	5428.6	4730.9	4310.1	4063.6	4164.9	4854.2	5689.4	6354.8	6205.1
40°	6707.8	6569.7	5673.9	5088.5	4759.3	4438.5	4558.6	5109.8	5861.0	6716.2	6586.5
42.5°	7099.6	6895.0	5915.9	5481.5	5177.5	4852.3	4995.5	5367.3	6025.0	7024.7	6917.6
45°	7389.4	7135.1	6146.3	5859.1	5753.9	5402.2	5469.9	5662.3	6202.5	7282.3	7190.0
47.5°	7648.2	7376.5	6407.1	6239.9	6258.0	6117.3	6008.2	6005.6	6411.6	7492.7	7447.5
50°	7994.8	7711.5	6687.2	6632.3	7014.4	6920.8	6680.1	6406.4	6676.2	7731.5	7726.3
52.5°	8472.4	8242.0	7029.3	7055.1	7720.5	7781.8	7483.6	6887.9	7090.6	8169.7	8138.7
55°	9037.2	8902.9	7495.2	7541.1	8586.6	8630.5	8334.3	7490.1	7699.8	8804.2	8718.3
57.5°	9478.0	9449.6	8006.4	8124.5	9233.4	9430.9	9158.5	8187.1	8386.6	9338.6	9123.0
60°	9653.5	9791.0	8550.5	8713.2	9831.7	10050.5	9811.7	8799.6	8995.2	9559.9	9095.2
62.5°	9558.6	9865.9	9130.1	9116.5	9965.3	10200.8	10033.0	9140.4	9446.3	9331.5	8635.1
65°	9120.4	9596.7	9466.4	9012.6	9508.3	9527.7	9473.5	8988.1	9552.8	8609.2	7745.7
67.5°	8165.8	8851.3	9023.6	8121.9	8275.6	8149.7	8058.7	8154.2	8997.8	7526.9	6509.7
70°	6651.0	7682.4	7765.0	6496.1	6426.4	6341.9	6160.5	6685.2	7902.5	6168.9	5165.3
72.5°	4890.3	5974.6	6228.3	4764.5	4441.8	4459.2	4315.9	5038.1	6425.1	4582.5	3856.4
75°	3345.8	4326.2	4872.9	3324.6	2937.3	2944.4	2926.3	3569.8	5117.5	3187.7	2885.7
77.5°	2444.2	3090.9	3675.0	2235.1	2169.9	2129.9	2120.2	2497.8	3923.5	2314.5	2240.9
80°	1961.4	2283.5	2468.7	1549.0	1665.8	1662.6	1609.0	1717.5	2562.3	1692.9	1676.2
82.5°	1360.5	1754.9	2000.2	1214.0	1124.3	1105.6	1118.5	1279.2	1811.0	1157.2	1100.4
85°	717.7	1165.6	1980.8	1075.9	667.4	532.5	662.2	1047.5	1569.0	613.1	537.0
87.5°	91.6	336.9	1311.5	429.2	263.3	142.0	314.3	589.9	1007.5	125.2	109.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7
2.5°	4303.7	4217.8	4105.5	4001.6	3893.8	3786.7	3646.6	3558.8	3498.2	3486.6	3460.7
5°	4199.1	3913.8	3698.2	3511.7	3342.6	3103.8	2971.5	2861.8	2803.1	2797.2	2783.0
7.5°	3717.0	3323.3	3032.2	2768.2	2528.7	2335.8	2122.8	2023.4	1982.7	1992.4	2002.1
10°	3215.5	2775.3	2441.0	2171.2	1960.1	1797.5	1626.5	1510.9	1430.9	1414.8	1411.5
12.5°	2848.9	2366.1	2041.5	1851.1	1687.8	1534.8	1353.4	1217.3	1113.3	1077.8	1054.0
15°	2694.0	2166.0	1825.9	1620.6	1440.6	1246.3	1077.8	935.2	839.7	808.7	791.3
17.5°	2726.9	2110.5	1677.4	1414.8	1184.3	981.7	769.3	647.4	589.9	575.1	575.1
20°	2899.9	2100.2	1554.8	1225.0	937.8	702.9	528.6	458.9	440.2	438.2	443.4
22.5°	3142.5	2136.3	1463.2	1060.4	728.7	513.1	411.8	386.0	377.6	379.5	385.3
25°	3504.0	2258.3	1396.7	913.9	571.8	420.2	367.2	351.8	347.9	353.0	360.1
27.5°	3932.5	2380.3	1355.4	803.5	482.8	384.0	349.2	333.0	335.6	342.1	348.5
30°	4308.8	2480.3	1290.2	724.8	455.0	386.0	349.2	327.2	324.6	325.9	327.9
32.5°	4646.4	2548.1	1214.0	649.9	392.4	342.7	325.9	322.7	308.5	303.3	304.0
35°	4937.5	2548.1	1168.2	606.0	351.8	304.0	276.9	260.7	253.6	254.3	261.4
37.5°	5218.2	2497.1	1145.6	581.5	329.8	289.1	265.3	251.1	241.4	239.5	240.7
40°	5466.0	2422.9	1119.8	571.2	313.0	280.1	257.5	245.9	235.6	232.4	233.0
42.5°	5664.8	2362.9	1091.4	557.6	302.7	273.7	252.4	242.0	230.4	227.2	226.5
45°	5879.8	2342.9	1054.0	530.5	307.9	274.3	251.1	240.1	228.5	224.6	223.3
47.5°	6163.1	2405.5	1015.2	498.3	318.8	277.5	253.0	240.1	227.8	224.6	223.3
50°	6520.0	2552.6	966.2	451.1	307.9	286.6	252.4	238.2	227.8	224.6	222.0
52.5°	6978.3	2751.4	901.6	396.9	301.4	308.5	251.1	234.3	224.6	220.1	215.6
55°	7535.3	2914.1	824.8	352.4	286.6	302.7	249.1	229.8	219.4	213.0	209.1
57.5°	7943.2	2972.8	726.1	323.4	265.9	293.0	246.5	224.0	213.0	207.8	202.7
60°	7862.5	2859.2	642.8	305.3	253.6	264.6	244.6	218.8	207.2	203.3	198.8
62.5°	7216.4	2562.3	589.3	296.9	245.9	241.4	246.5	213.6	202.0	198.1	196.9
65°	6247.7	2124.1	568.0	295.0	239.5	227.8	229.1	207.8	196.2	193.0	191.7
67.5°	5153.7	1714.2	549.3	301.4	231.1	218.2	211.7	200.1	190.4	187.2	184.6
70°	4064.2	1425.7	540.9	297.5	220.7	208.5	201.4	191.7	183.3	180.1	178.1
72.5°	3272.9	1204.4	536.3	293.7	207.2	195.6	189.1	180.7	171.7	170.4	168.5
75°	2769.5	946.8	491.2	281.4	191.7	180.1	175.6	167.8	158.8	158.8	157.5
77.5°	2136.3	684.8	408.5	249.1	175.6	162.6	158.8	153.0	142.6	144.6	143.9
80°	1578.0	446.6	319.5	206.5	155.5	143.3	141.3	135.5	124.6	127.1	127.1
82.5°	1081.1	293.0	229.8	169.1	133.0	121.3	121.3	115.5	103.3	104.6	108.4
85°	542.8	201.4	171.7	131.0	103.3	97.5	97.5	92.9	80.7	81.3	86.5
87.5°	165.2	121.3	113.6	93.6	74.2	72.9	69.7	66.5	58.7	58.1	61.3
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7
2.5°	3421.4	3384.6	3340.0	3241.9	3209.0	3207.1	3236.8	3205.8	3265.2	3240.0	3267.8
5°	2759.2	2723.0	2673.3	2548.1	2472.0	2420.3	2395.8	2323.5	2375.8	2337.7	2369.3
7.5°	2029.2	2037.6	2004.7	1931.1	1765.2	1682.0	1632.9	1589.0	1627.1	1623.2	1683.9
10°	1426.4	1449.0	1425.7	1351.5	1217.3	1171.4	1180.5	1197.9	1247.6	1273.4	1367.0
12.5°	1026.9	1025.6	1010.7	944.2	855.8	861.0	897.8	928.1	973.9	1001.0	1096.6
15°	766.8	755.1	748.7	694.5	644.1	655.1	673.2	676.4	705.4	721.6	799.0
17.5°	579.6	585.4	592.5	553.8	515.7	508.6	494.4	477.0	485.4	488.6	527.3
20°	460.2	483.4	500.8	473.7	435.0	414.4	396.3	384.7	384.7	384.0	395.0
22.5°	402.1	418.9	437.6	418.9	384.0	366.0	355.6	346.6	345.3	345.3	355.6
25°	370.5	382.7	400.8	387.9	362.1	348.5	338.8	327.2	322.7	321.4	328.5
27.5°	355.0	360.1	369.2	357.6	335.6	329.2	326.6	316.3	310.4	307.2	314.3
30°	328.5	327.2	327.9	316.3	298.8	298.2	302.7	304.6	302.7	302.1	313.0
32.5°	304.0	301.4	300.8	290.4	274.3	270.4	274.3	278.2	282.7	289.1	302.1
35°	273.0	279.5	283.3	274.3	254.9	243.3	238.8	231.7	227.8	227.8	242.7
37.5°	248.5	263.3	269.1	260.7	239.5	223.3	215.6	214.3	214.9	217.5	231.7
40°	240.1	251.1	256.2	247.8	226.5	211.7	207.2	205.9	207.2	211.1	225.3
42.5°	234.9	242.7	242.0	231.7	214.3	204.0	201.4	200.1	201.4	205.2	220.7
45°	230.4	235.6	230.4	218.2	202.0	196.9	197.5	196.9	198.1	202.0	216.9
47.5°	226.5	228.5	222.0	209.8	193.0	191.7	194.3	196.2	197.5	200.7	216.2
50°	220.7	220.7	214.9	202.0	185.2	185.9	189.1	193.6	194.3	198.1	210.4
52.5°	213.6	213.0	209.1	196.9	178.8	180.7	180.7	185.9	187.2	191.7	204.6
55°	207.8	206.5	204.6	193.0	173.0	176.2	174.3	176.2	179.4	183.9	198.1
57.5°	202.7	200.1	200.1	189.8	168.5	169.7	165.2	167.8	171.7	175.6	190.4
60°	197.5	194.9	196.2	185.2	161.4	160.1	158.1	163.3	164.6	169.1	183.9
62.5°	191.7	189.8	190.4	180.1	156.2	153.0	153.0	157.5	158.1	164.6	178.8
65°	187.2	184.6	183.9	174.9	150.4	146.5	148.4	150.4	151.7	158.1	171.7
67.5°	182.7	177.5	177.5	170.4	143.9	140.1	143.9	143.3	145.2	151.0	162.0
70°	176.8	169.7	170.4	167.2	137.5	133.0	136.2	135.5	136.8	140.7	151.7
72.5°	167.8	162.0	163.3	162.0	131.0	124.6	125.9	125.9	125.9	129.1	140.7
75°	156.2	151.7	155.5	158.8	123.3	114.2	115.5	115.5	113.6	115.5	129.7
77.5°	142.0	139.4	152.3	147.8	114.2	103.3	103.3	102.0	98.1	100.7	116.2
80°	126.5	124.6	140.7	123.9	103.9	89.7	88.4	85.2	81.3	83.3	98.7
82.5°	110.4	108.4	118.1	94.9	89.7	74.2	71.0	65.2	61.3	63.3	77.5
85°	90.4	90.4	91.0	71.6	68.4	56.8	52.9	45.2	40.7	42.0	55.5
87.5°	64.5	66.5	61.3	49.1	40.7	31.6	29.0	24.5	20.7	23.9	29.0
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°	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7
2.5°	3409.7	3480.7	3561.4	3664.7	3753.1	3898.3	4037.7	4121.6
5°	2549.4	2667.5	2814.7	3003.8	3180.0	3444.6	3707.3	3875.7
7.5°	1824.6	1951.1	2109.9	2346.1	2595.2	2932.8	3280.0	3481.4
10°	1509.6	1639.4	1773.0	1932.4	2136.3	2503.6	2914.1	3141.3
12.5°	1248.9	1387.6	1531.6	1699.4	1888.5	2216.4	2689.5	2950.9
15°	955.9	1110.8	1280.5	1492.9	1729.7	2108.6	2634.0	2917.9
17.5°	655.1	828.1	1036.5	1298.6	1588.4	2073.7	2733.3	3060.6
20°	451.1	577.0	799.7	1106.9	1455.4	2069.2	2924.4	3334.2
22.5°	377.6	433.7	596.4	930.7	1355.4	2124.7	3220.6	3718.3
25°	349.2	382.7	476.3	777.7	1282.4	2252.5	3628.5	4215.2
27.5°	332.4	362.7	432.4	677.7	1225.0	2401.0	4025.5	4696.7
30°	338.8	369.8	420.2	626.7	1146.9	2524.9	4377.9	5072.3
32.5°	305.3	318.8	360.1	581.5	1090.8	2628.8	4686.4	5383.4
35°	260.1	284.0	321.4	560.2	1092.0	2698.5	5022.6	5781.0
37.5°	247.8	271.7	298.8	552.5	1106.9	2772.7	5408.6	6247.0
40°	240.1	262.0	285.3	548.0	1121.1	2840.5	5786.8	6707.8
42.5°	234.9	254.9	284.0	532.5	1128.2	2901.2	6097.9	7099.6
45°	234.3	254.9	289.1	517.0	1139.2	2966.3	6358.7	7389.4
47.5°	234.9	263.3	279.5	498.3	1139.2	3075.4	6664.6	7648.2
50°	232.4	277.5	269.1	471.8	1112.7	3282.0	7084.1	7994.8
52.5°	231.1	275.6	249.1	431.1	1066.9	3609.8	7621.7	8472.4
55°	227.8	265.9	234.9	370.5	1013.3	3967.4	8197.5	9037.2
57.5°	224.6	235.6	227.2	317.5	930.7	4219.1	8593.7	9478.0
60°	251.7	205.9	220.7	291.7	820.3	4288.2	8578.3	9653.5
62.5°	233.0	193.0	212.3	285.9	742.9	4094.5	8182.0	9558.6
65°	182.7	184.6	204.0	302.7	722.2	3581.4	7479.8	9120.4
67.5°	167.2	176.2	195.6	324.0	724.2	2867.6	6430.3	8165.8
70°	157.5	167.2	185.9	335.0	729.3	2137.6	5084.0	6651.0
72.5°	146.5	154.9	174.9	336.9	695.8	1552.9	3918.3	4890.3
75°	133.6	141.3	159.4	293.7	576.4	1077.2	2997.3	3345.8
77.5°	118.8	124.6	140.1	226.5	427.9	689.3	2249.9	2444.2
80°	101.3	104.6	117.5	165.9	293.0	431.1	1780.1	1961.4
82.5°	81.3	82.6	91.0	124.6	190.4	276.9	1192.1	1360.5
85°	57.4	57.4	62.6	90.4	129.7	175.6	647.4	717.7
87.5°	27.1	27.8	27.8	49.7	67.8	89.1	149.1	91.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)