

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: P193823

Luminaire Tested: **GLEON-AF-05-LED-E1-SLL-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193823
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-05-LED-E1-SLL-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 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: 17237 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 210
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

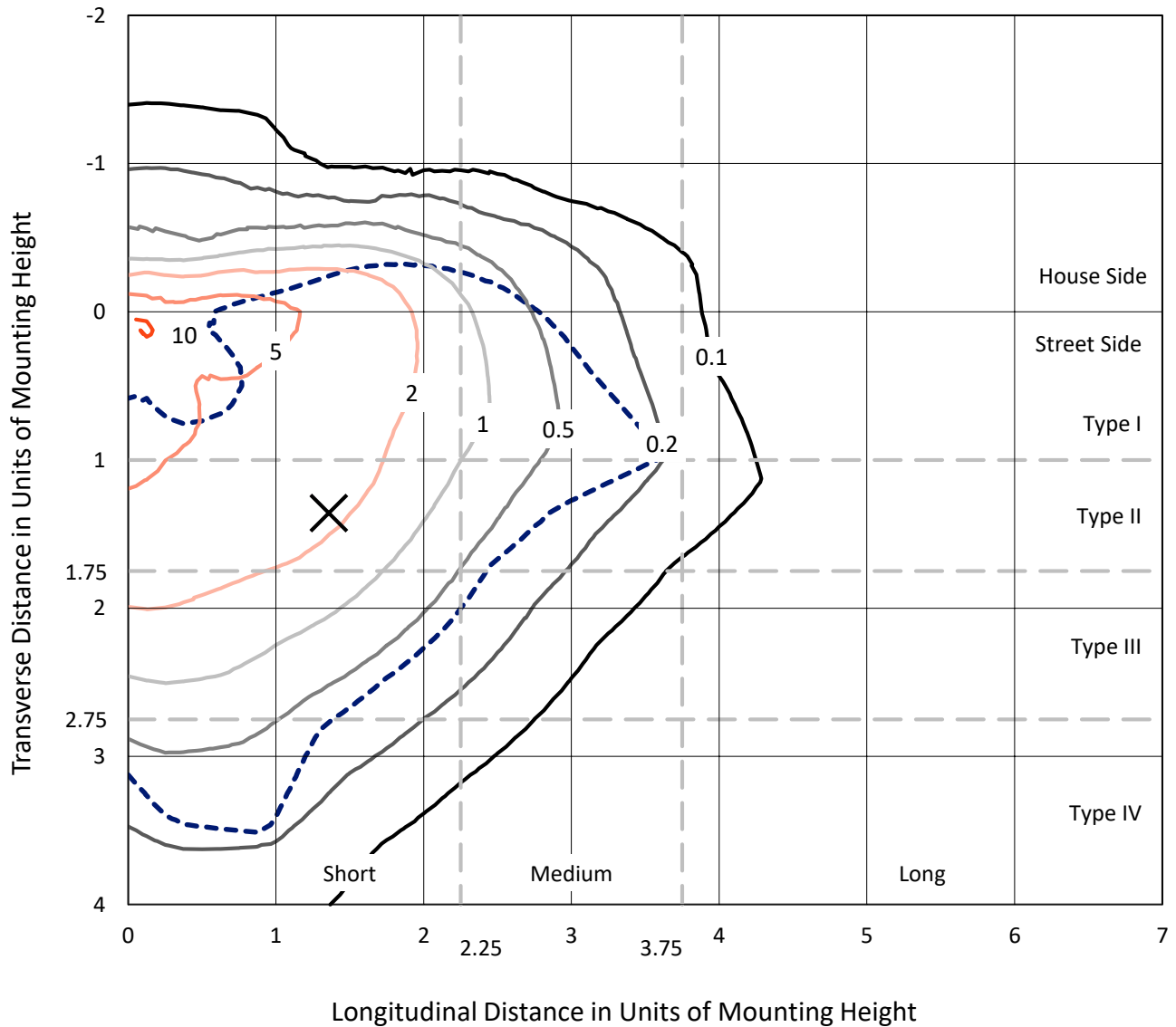


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Iso-Footcandle Lines of Horizontal Illumination

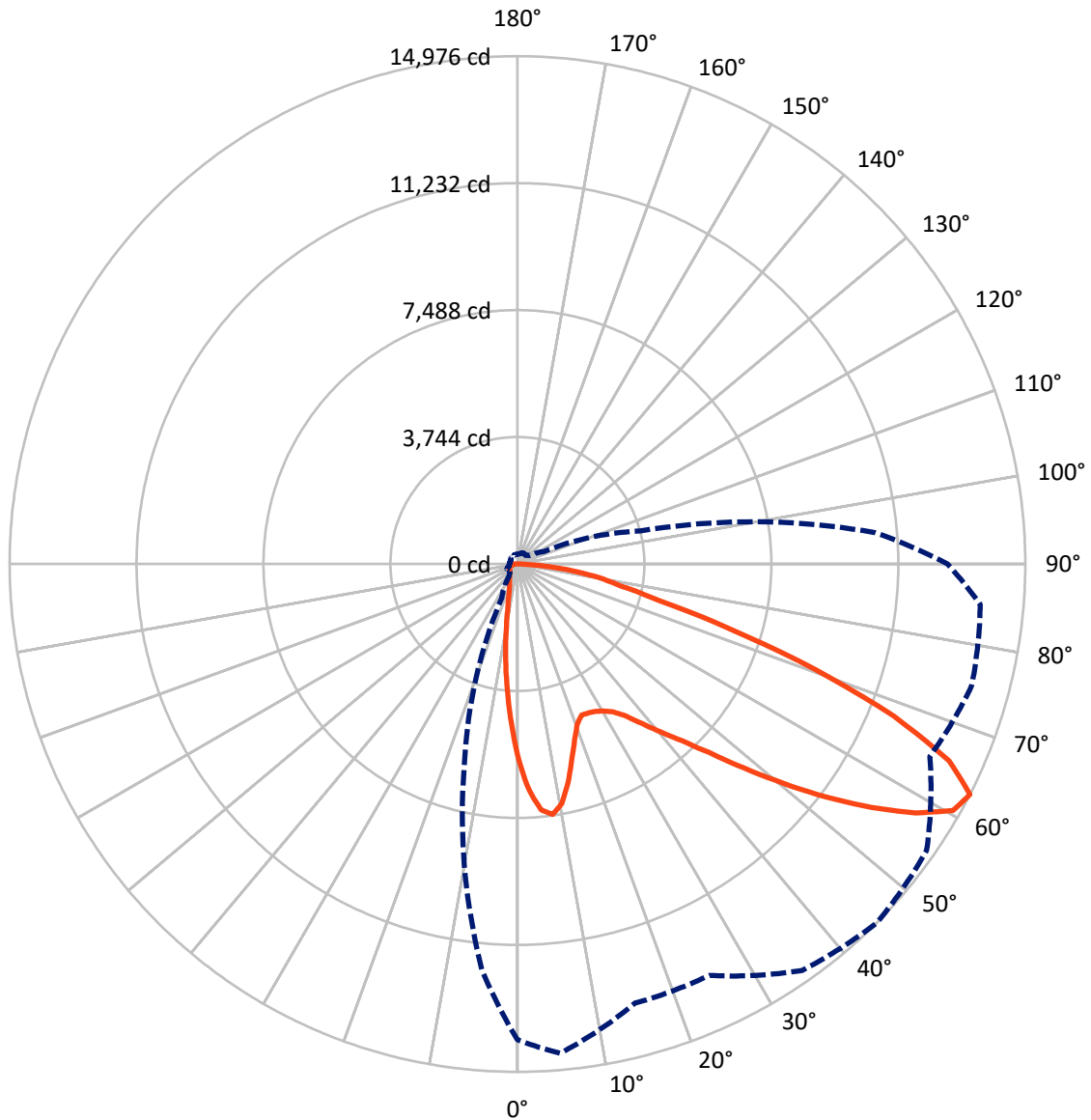
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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	2852.5	0.0	2852.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	14384.5	0.0	14384.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	17237.0	0.0	17237.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.9	2.5
10°-20°	777.4	4.5
20°-30°	1133.4	6.6
30°-40°	1745.6	10.1
40°-50°	2569.1	14.9
50°-60°	3768.3	21.9
60°-70°	4212.4	24.4
70°-80°	2062.3	12.0
80°-90°	544.5	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°	17237.0	100.0
0°-180°	17237.0	100.0



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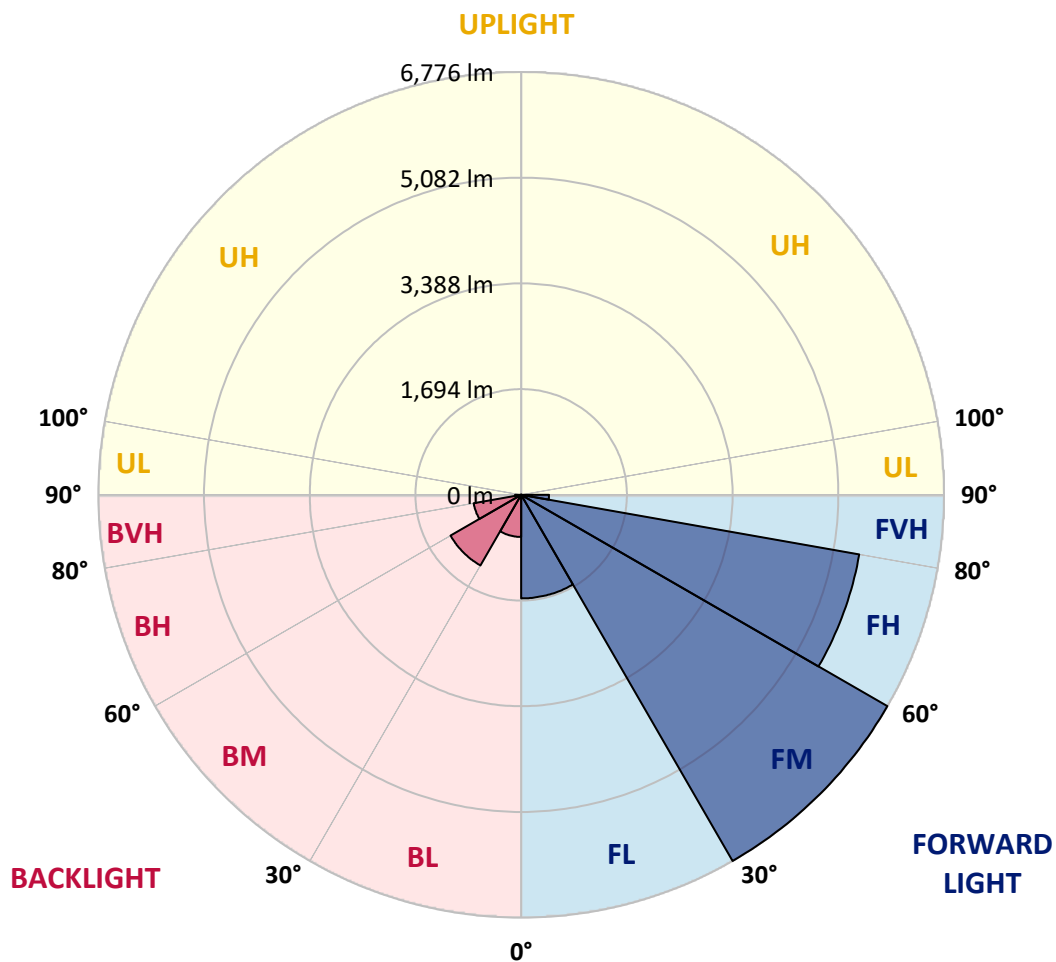
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1659.9	9.6			
FM (30°-60°)	6776.0	39.3			
FH (60°-80°)	5501.5	31.9			G3/7500
FVH (80°-90°)	447.2	2.6			G3/500
BL (0°-30°)	674.9	3.9	B2/1000		
BM (30°-60°)	1307.0	7.6	B2/2500		
BH (60°-80°)	773.3	4.5	B2/1000		G2/1000
BVH (80°-90°)	97.3	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°	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6
2.5°	6051.0	6147.6	6336.2	6477.4	6648.9	6688.7	6743.6	6689.6	6593.9	6467.0	6425.3
5°	5690.0	5896.5	6354.2	6756.9	7115.1	7281.9	7328.3	7190.9	6913.3	6548.5	6325.8
7.5°	5111.0	5404.8	6024.5	6617.6	7145.4	7457.1	7449.6	7130.2	6619.5	6025.4	5668.2
10°	4611.7	4947.1	5657.8	6321.0	6881.0	7183.3	7066.8	6658.4	6049.1	5365.0	4977.4
12.5°	4332.2	4661.0	5382.0	6048.2	6516.2	6620.5	6531.4	6131.5	5557.3	4865.6	4526.4
15°	4283.8	4644.8	5272.1	5814.1	6076.6	5985.6	5879.5	5700.4	5294.9	4704.5	4351.1
17.5°	4493.2	4891.2	5398.1	5651.1	5606.6	5448.4	5418.0	5437.9	5340.3	4883.6	4476.2
20°	4895.0	5372.6	5698.5	5574.4	5249.4	5031.4	5039.0	5343.2	5632.2	5337.5	4872.3
22.5°	5458.8	6003.6	6131.5	5615.1	5098.7	4840.0	4902.6	5395.3	6097.4	6000.8	5406.7
25°	6188.4	6684.9	6593.0	5762.9	5113.9	4863.7	4913.9	5575.3	6647.0	6664.1	6068.1
27.5°	6895.3	7355.8	6980.5	5959.1	5176.4	4919.6	4986.0	5858.6	7171.9	7384.2	6824.2
30°	7446.7	7767.0	7134.0	6138.2	5299.6	5028.6	5111.0	6127.7	7410.7	7870.3	7406.0
32.5°	7903.4	8133.7	7378.5	6359.9	5526.1	5200.1	5345.1	6454.6	7754.7	8332.7	7975.5
35°	8487.1	8552.5	7682.7	6607.2	5875.7	5498.6	5678.6	6774.9	8082.5	8799.8	8536.4
37.5°	9171.2	9086.9	7969.8	6945.5	6327.7	5965.7	6114.5	7126.5	8352.6	9329.5	9109.7
40°	9847.8	9645.0	8329.8	7470.4	6987.2	6516.2	6692.5	7501.7	8604.6	9860.1	9669.7
42.5°	10423.0	10122.6	8685.2	8047.5	7601.2	7123.6	7334.0	7879.8	8845.3	10313.0	10155.7
45°	10848.4	10475.1	9023.4	8601.8	8447.3	7930.9	8030.4	8312.8	9105.9	10691.1	10555.6
47.5°	11228.4	10829.4	9406.2	9160.8	9187.4	8980.8	8820.7	8816.9	9412.9	11000.0	10933.7
50°	11737.2	11321.2	9817.5	9736.9	10297.9	10160.5	9807.0	9405.3	9801.4	11350.6	11343.0
52.5°	12438.4	12100.1	10319.7	10357.6	11334.5	11424.5	10986.7	10112.2	10409.7	11994.0	11948.5
55°	13267.5	13070.4	11003.8	11071.1	12606.1	12670.5	12235.6	10996.2	11304.2	12925.4	12799.4
57.5°	13914.6	13872.9	11754.2	11927.6	13555.5	13845.5	13445.6	12019.6	12312.3	13710.0	13393.5
60°	14172.4	14374.2	12553.0	12791.8	14433.9	14755.1	14404.5	12918.8	13205.9	14035.0	13352.7
62.5°	14033.1	14484.1	13403.9	13384.0	14630.0	14975.9	14729.5	13419.1	13868.2	13699.5	12677.2
65°	13389.7	14089.0	13897.6	13231.5	13959.2	13987.6	13908.0	13195.5	14024.6	12639.2	11371.4
67.5°	11988.3	12994.6	13247.6	11923.9	12149.4	11964.6	11831.0	11971.2	13209.7	11050.2	9556.9
70°	9764.4	11278.6	11399.9	9537.0	9434.7	9310.5	9044.3	9814.6	11601.7	9056.6	7583.2
72.5°	7179.5	8771.4	9143.8	6994.7	6521.0	6546.6	6336.2	7396.5	9432.8	6727.5	5661.6
75°	4912.1	6351.4	7153.9	4880.8	4312.3	4322.7	4296.2	5240.8	7513.1	4679.9	4236.5
77.5°	3588.3	4537.8	5395.3	3281.3	3185.6	3126.9	3112.7	3667.0	5760.1	3397.9	3289.9
80°	2879.6	3352.4	3624.3	2274.1	2445.6	2440.9	2362.2	2521.4	3761.7	2485.4	2460.8
82.5°	1997.4	2576.4	2936.4	1782.3	1650.6	1623.1	1642.1	1878.0	2658.8	1698.9	1615.6
85°	1053.7	1711.3	2908.0	1579.6	979.8	781.7	972.2	1537.9	2303.5	900.2	788.4
87.5°	134.6	494.6	1925.4	630.1	386.6	208.5	461.5	866.1	1479.1	183.8	160.1
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°	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6
2.5°	6318.2	6192.2	6027.3	5874.8	5716.5	5559.2	5353.6	5224.7	5135.7	5118.6	5080.7
5°	6164.7	5745.9	5429.4	5155.6	4907.3	4556.7	4362.5	4201.4	4115.2	4106.6	4085.8
7.5°	5456.9	4878.9	4451.5	4064.0	3712.5	3429.2	3116.5	2970.5	2910.8	2925.1	2939.3
10°	4720.6	4074.4	3583.6	3187.5	2877.7	2638.9	2387.8	2218.2	2100.7	2077.0	2072.3
12.5°	4182.4	3473.7	2997.1	2717.5	2477.8	2253.3	1987.0	1787.1	1634.5	1582.4	1547.3
15°	3955.0	3179.9	2680.6	2379.3	2114.9	1829.7	1582.4	1373.0	1232.8	1187.3	1161.7
17.5°	4003.4	3098.5	2462.7	2077.0	1738.7	1441.2	1129.5	950.4	866.1	844.3	844.3
20°	4257.3	3083.3	2282.6	1798.4	1376.8	1031.9	776.0	673.7	646.2	643.4	651.0
22.5°	4613.6	3136.4	2148.1	1556.8	1069.8	753.3	604.5	566.6	554.3	557.2	565.7
25°	5144.2	3315.4	2050.5	1341.7	839.5	616.8	539.2	516.4	510.7	518.3	528.7
27.5°	5773.4	3494.5	1989.8	1179.7	708.8	563.8	512.6	488.9	492.7	502.2	511.7
30°	6325.8	3641.4	1894.1	1064.1	668.0	566.6	512.6	480.4	476.6	478.5	481.4
32.5°	6821.3	3740.9	1782.3	954.2	576.1	503.1	478.5	473.8	452.9	445.3	446.3
35°	7248.7	3740.9	1715.0	889.7	516.4	446.3	406.5	382.8	372.4	373.3	383.8
37.5°	7660.9	3666.0	1681.9	853.7	484.2	424.5	389.4	368.6	354.4	351.5	353.4
40°	8024.7	3557.1	1644.0	838.6	459.6	411.2	378.1	361.0	345.9	341.1	342.1
42.5°	8316.6	3468.9	1602.3	818.7	444.4	401.8	370.5	355.3	338.3	333.5	332.6
45°	8632.1	3439.6	1547.3	778.9	452.0	402.7	368.6	352.5	335.4	329.7	327.8
47.5°	9048.1	3531.5	1490.5	731.5	468.1	407.4	371.4	352.5	334.5	329.7	327.8
50°	9572.1	3747.5	1418.5	662.3	452.0	420.7	370.5	349.6	334.5	329.7	326.0
52.5°	10244.8	4039.4	1323.7	582.7	442.5	452.9	368.6	344.0	329.7	323.1	316.5
55°	11062.5	4278.1	1211.0	517.4	420.7	444.4	365.8	337.3	322.2	312.7	307.0
57.5°	11661.4	4364.4	1066.0	474.7	390.4	430.2	362.0	328.8	312.7	305.1	297.5
60°	11542.9	4197.6	943.8	448.2	372.4	388.5	359.1	321.2	304.2	298.5	291.8
62.5°	10594.5	3761.7	865.1	435.9	361.0	354.4	362.0	313.6	296.6	290.9	289.0
65°	9172.2	3118.4	833.8	433.0	351.5	334.5	336.4	305.1	288.1	283.3	281.4
67.5°	7566.1	2516.7	806.4	442.5	339.2	320.3	310.8	293.7	279.5	274.8	271.0
70°	5966.7	2093.1	794.0	436.8	324.1	306.1	295.6	281.4	269.1	264.4	261.5
72.5°	4805.0	1768.1	787.4	431.1	304.2	287.1	277.6	265.3	252.0	250.2	247.3
75°	4065.9	1390.0	721.1	413.1	281.4	264.4	257.7	246.4	233.1	233.1	231.2
77.5°	3136.4	1005.3	599.8	365.8	257.7	238.8	233.1	224.6	209.4	212.2	211.3
80°	2316.7	655.7	469.0	303.2	228.4	210.4	207.5	199.0	182.9	186.7	186.7
82.5°	1587.1	430.2	337.3	248.3	195.2	178.1	178.1	169.6	151.6	153.5	159.2
85°	796.9	295.6	252.0	192.4	151.6	143.1	143.1	136.4	118.4	119.4	127.0
87.5°	242.6	178.1	166.8	137.4	109.0	107.1	102.3	97.6	86.2	85.3	90.0
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6
2.5°	5022.9	4968.9	4903.5	4759.5	4711.2	4708.3	4751.9	4706.4	4793.6	4756.7	4797.4
5°	4050.7	3997.7	3924.7	3740.9	3629.1	3553.3	3517.3	3411.1	3487.9	3432.0	3478.4
7.5°	2979.1	2991.4	2943.1	2835.0	2591.5	2469.3	2397.3	2332.8	2388.8	2383.1	2472.1
10°	2094.1	2127.2	2093.1	1984.2	1787.1	1719.8	1733.1	1758.6	1831.6	1869.5	2006.9
12.5°	1507.5	1505.6	1483.8	1386.3	1256.4	1264.0	1318.0	1362.6	1429.8	1469.6	1609.9
15°	1125.7	1108.6	1099.1	1019.6	945.6	961.8	988.3	993.0	1035.7	1059.4	1173.1
17.5°	850.9	859.4	869.8	813.0	757.1	746.7	725.8	700.2	712.6	717.3	774.1
20°	675.6	709.7	735.3	695.5	638.6	608.3	581.8	564.7	564.7	563.8	579.9
22.5°	590.3	615.0	642.4	615.0	563.8	537.3	522.1	508.8	506.9	506.9	522.1
25°	543.9	561.9	588.4	569.5	531.6	511.7	497.5	480.4	473.8	471.9	482.3
27.5°	521.1	528.7	542.0	524.9	492.7	483.2	479.5	464.3	455.8	451.0	461.5
30°	482.3	480.4	481.4	464.3	438.7	437.8	444.4	447.2	444.4	443.4	459.6
32.5°	446.3	442.5	441.6	426.4	402.7	397.0	402.7	408.4	415.0	424.5	443.4
35°	400.8	410.3	416.0	402.7	374.3	357.2	350.6	340.2	334.5	334.5	356.3
37.5°	364.8	386.6	395.1	382.8	351.5	327.8	316.5	314.6	315.5	319.3	340.2
40°	352.5	368.6	376.2	363.9	332.6	310.8	304.2	302.3	304.2	309.8	330.7
42.5°	344.9	356.3	355.3	340.2	314.6	299.4	295.6	293.7	295.6	301.3	324.1
45°	338.3	345.9	338.3	320.3	296.6	289.0	289.9	289.0	290.9	296.6	318.4
47.5°	332.6	335.4	326.0	308.0	283.3	281.4	285.2	288.1	289.9	294.7	317.4
50°	324.1	324.1	315.5	296.6	271.9	272.9	277.6	284.3	285.2	290.9	308.9
52.5°	313.6	312.7	307.0	289.0	262.5	265.3	265.3	272.9	274.8	281.4	300.4
55°	305.1	303.2	300.4	283.3	253.9	258.7	255.8	258.7	263.4	270.0	290.9
57.5°	297.5	293.7	293.7	278.6	247.3	249.2	242.6	246.4	252.0	257.7	279.5
60°	289.9	286.2	288.1	271.9	236.9	235.0	232.1	239.7	241.6	248.3	270.0
62.5°	281.4	278.6	279.5	264.4	229.3	224.6	224.6	231.2	232.1	241.6	262.5
65°	274.8	271.0	270.0	256.8	220.8	215.1	217.9	220.8	222.7	232.1	252.0
67.5°	268.2	260.6	260.6	250.2	211.3	205.6	211.3	210.4	213.2	221.7	237.8
70°	259.6	249.2	250.2	245.4	201.8	195.2	199.9	199.0	200.9	206.6	222.7
72.5°	246.4	237.8	239.7	237.8	192.4	182.9	184.8	184.8	184.8	189.5	206.6
75°	229.3	222.7	228.4	233.1	181.0	167.7	169.6	169.6	166.8	169.6	190.5
77.5°	208.5	204.7	223.6	217.0	167.7	151.6	151.6	149.7	144.0	147.8	170.6
80°	185.7	182.9	206.6	181.9	152.6	131.7	129.8	125.1	119.4	122.2	145.0
82.5°	162.0	159.2	173.4	139.3	131.7	109.0	104.2	95.7	90.0	92.9	113.7
85°	132.7	132.7	133.6	105.2	100.4	83.4	77.7	66.3	59.7	61.6	81.5
87.5°	94.8	97.6	90.0	72.0	59.7	46.4	42.6	36.0	30.3	35.1	42.6
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°	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6
2.5°	5005.9	5110.1	5228.5	5380.1	5510.0	5723.1	5927.8	6051.0
5°	3742.8	3916.2	4132.2	4409.9	4668.5	5057.0	5442.7	5690.0
7.5°	2678.7	2864.4	3097.5	3444.3	3810.1	4305.6	4815.4	5111.0
10°	2216.3	2406.8	2602.9	2836.9	3136.4	3675.5	4278.1	4611.7
12.5°	1833.5	2037.2	2248.5	2494.9	2772.5	3253.9	3948.4	4332.2
15°	1403.3	1630.7	1879.9	2191.7	2539.4	3095.6	3866.9	4283.8
17.5°	961.8	1215.7	1521.8	1906.5	2331.9	3044.4	4012.8	4493.2
20°	662.3	847.1	1174.0	1625.0	2136.7	3037.8	4293.3	4895.0
22.5°	554.3	636.7	875.5	1366.4	1989.8	3119.3	4728.2	5458.8
25°	512.6	561.9	699.3	1141.8	1882.8	3306.9	5327.1	6188.4
27.5°	488.0	532.5	634.9	994.9	1798.4	3524.9	5909.8	6895.3
30°	497.5	542.9	616.8	920.1	1683.8	3706.8	6427.2	7446.7
32.5°	448.2	468.1	528.7	853.7	1601.3	3859.3	6880.1	7903.4
35°	381.9	416.9	471.9	822.5	1603.2	3961.7	7373.8	8487.1
37.5°	363.9	398.9	438.7	811.1	1625.0	4070.6	7940.4	9171.2
40°	352.5	384.7	418.8	804.5	1645.9	4170.1	8495.7	9847.8
42.5°	344.9	374.3	416.9	781.7	1656.3	4259.2	8952.4	10423.0
45°	344.0	374.3	424.5	759.0	1672.4	4354.9	9335.2	10848.4
47.5°	344.9	386.6	410.3	731.5	1672.4	4515.0	9784.3	11228.4
50°	341.1	407.4	395.1	692.7	1633.6	4818.2	10400.2	11737.2
52.5°	339.2	404.6	365.8	633.0	1566.3	5299.6	11189.5	12438.4
55°	334.5	390.4	344.9	543.9	1487.6	5824.5	12034.7	13267.5
57.5°	329.7	345.9	333.5	466.2	1366.4	6194.1	12616.5	13914.6
60°	369.5	302.3	324.1	428.3	1204.3	6295.5	12593.8	14172.4
62.5°	342.1	283.3	311.7	419.8	1090.6	6011.2	12012.0	14033.1
65°	268.2	271.0	299.4	444.4	1060.3	5257.9	10981.1	13389.7
67.5°	245.4	258.7	287.1	475.7	1063.1	4209.9	9440.4	11988.3
70°	231.2	245.4	272.9	491.8	1070.7	3138.3	7463.8	9764.4
72.5°	215.1	227.4	256.8	494.6	1021.4	2279.8	5752.5	7179.5
75°	196.1	207.5	234.0	431.1	846.2	1581.4	4400.4	4912.1
77.5°	174.3	182.9	205.6	332.6	628.2	1012.0	3303.1	3588.3
80°	148.8	153.5	172.5	243.5	430.2	633.0	2613.3	2879.6
82.5°	119.4	121.3	133.6	182.9	279.5	406.5	1750.1	1997.4
85°	84.3	84.3	91.9	132.7	190.5	257.7	950.4	1053.7
87.5°	39.8	40.7	40.7	73.0	99.5	130.8	218.9	134.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)