

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: P193832

Luminaire Tested: **GLEON-AF-04-LED-E1-SLL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193832
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-04-LED-E1-SLL-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 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: 17219 lumens
Efficiency: N/A
Efficacy: 76.5 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

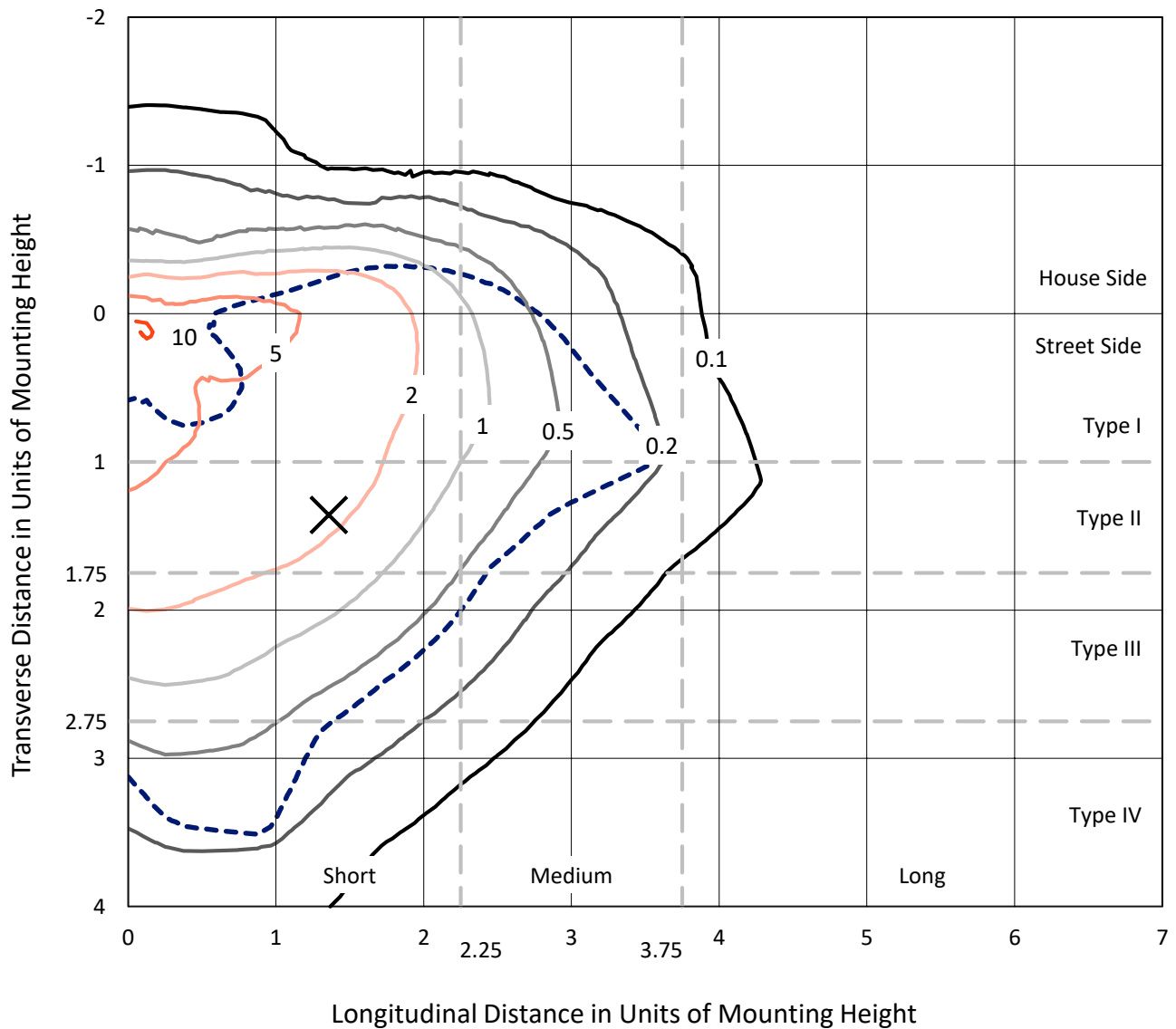
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

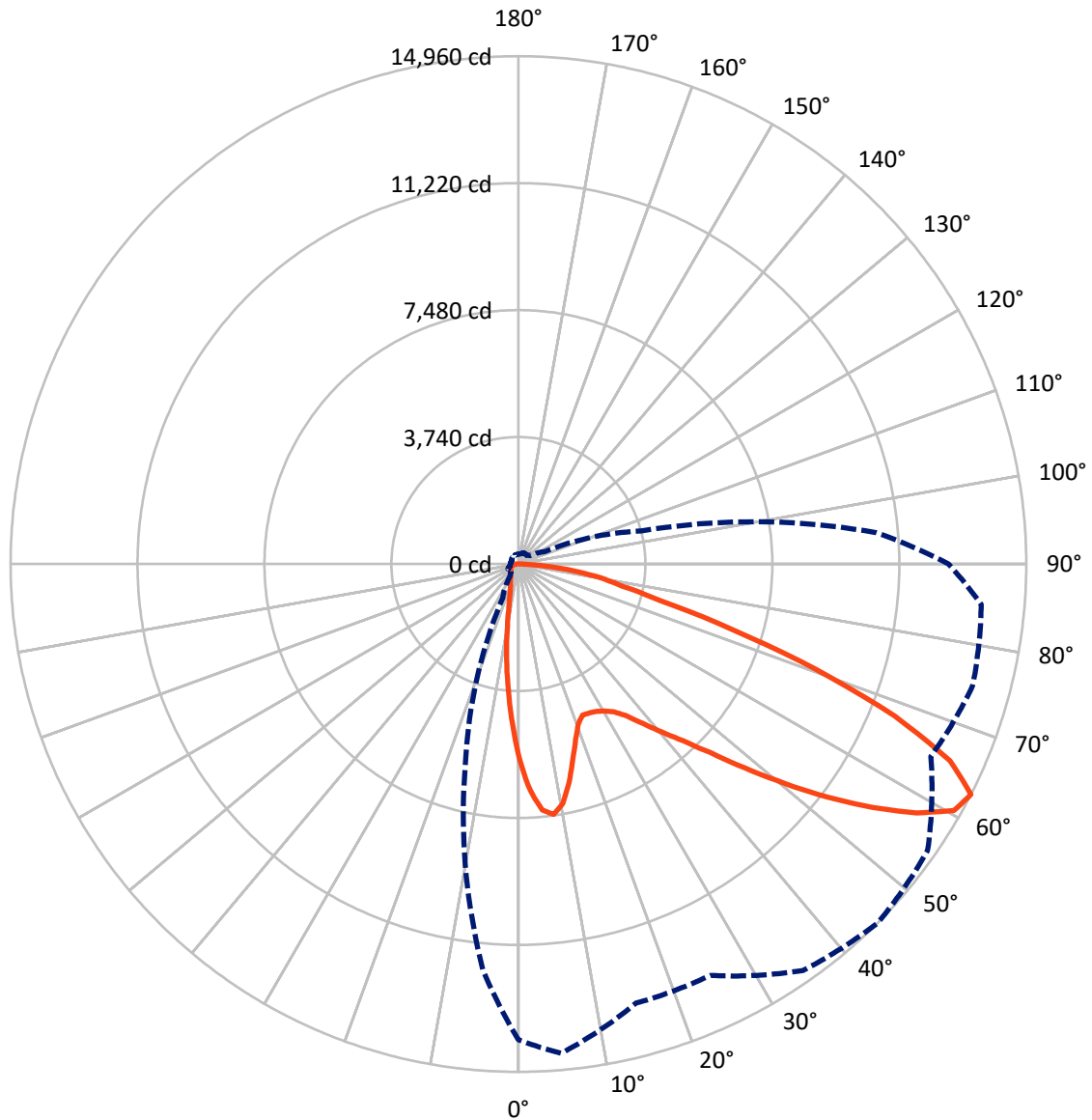
× Max cd
 - - - 1/2 Max cd



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	2849.5	0.0	2849.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	14369.5	0.0	14369.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	17219.0	0.0	17219.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.5	2.5
10°-20°	776.6	4.5
20°-30°	1132.2	6.6
30°-40°	1743.8	10.1
40°-50°	2566.4	14.9
50°-60°	3764.4	21.9
60°-70°	4208.0	24.4
70°-80°	2060.2	12.0
80°-90°	543.9	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°	17219.0	100.0
0°-180°	17219.0	100.0

Coefficient of Utilization



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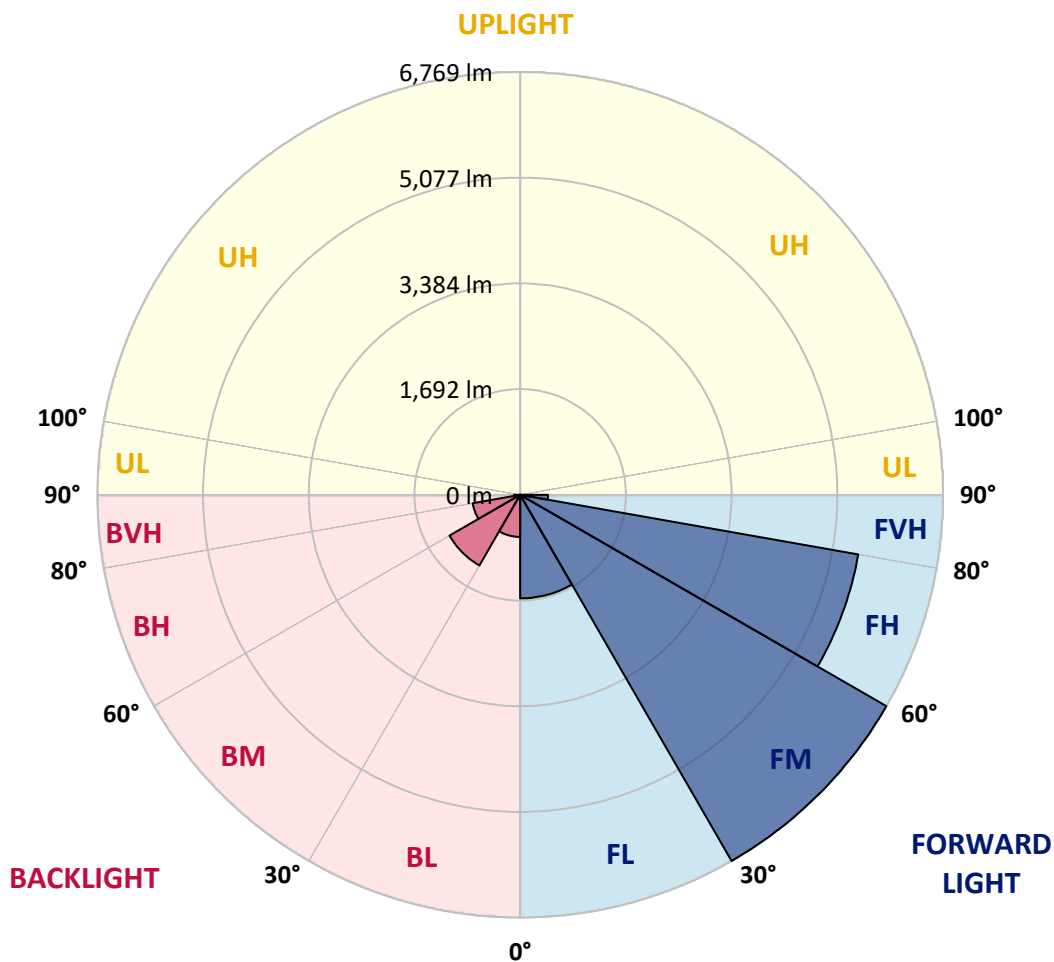
CATALOG NUMBER: GLEON-AF-04-LED-E1-SLL-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1658.1	9.6			
FM	(30°-60°)	6768.9	39.3			
FH	(60°-80°)	5495.7	31.9			G3/7500
FVH	(80°-90°)	446.7	2.6			G3/500
BL	(0°-30°)	674.1	3.9	B2/1000		
BM	(30°-60°)	1305.6	7.6	B2/2500		
BH	(60°-80°)	772.5	4.5	B2/1000		G2/1000
BVH	(80°-90°)	97.2	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°	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5
2.5°	6044.7	6141.2	6329.6	6470.6	6642.0	6681.7	6736.6	6682.7	6587.1	6460.2	6418.6
5°	5684.0	5890.4	6347.6	6749.9	7107.7	7274.2	7320.6	7183.4	6906.0	6541.6	6319.2
7.5°	5105.7	5399.1	6018.2	6610.7	7137.9	7449.4	7441.8	7122.8	6612.6	6019.1	5662.3
10°	4606.9	4941.9	5651.9	6314.4	6873.9	7175.8	7059.4	6651.4	6042.8	5359.4	4972.2
12.5°	4327.6	4656.1	5376.4	6041.8	6509.4	6613.6	6524.6	6125.1	5551.5	4860.5	4521.7
15°	4279.4	4640.0	5266.6	5808.0	6070.2	5979.4	5873.4	5694.5	5289.3	4699.6	4346.6
17.5°	4488.5	4886.1	5392.5	5645.2	5600.7	5442.7	5412.4	5432.3	5334.8	4878.5	4471.5
20°	4889.9	5366.9	5692.6	5568.6	5243.9	5026.2	5033.8	5337.6	5626.3	5331.9	4867.2
22.5°	5453.1	5997.4	6125.1	5609.3	5093.4	4835.0	4897.5	5389.7	6091.1	5994.5	5401.0
25°	6181.9	6677.9	6586.1	5756.9	5108.5	4858.6	4908.8	5569.5	6640.1	6657.1	6061.7
27.5°	6888.1	7348.1	6973.2	5952.9	5171.0	4914.5	4980.8	5852.5	7164.4	7376.5	6817.1
30°	7438.9	7758.9	7126.6	6131.8	5294.1	5023.3	5105.7	6121.3	7403.0	7862.1	7398.2
32.5°	7895.2	8125.2	7370.8	6353.3	5520.3	5194.7	5339.5	6447.9	7746.6	8324.0	7967.1
35°	8478.3	8543.6	7674.6	6600.3	5869.6	5492.8	5672.7	6767.8	8074.1	8790.6	8527.5
37.5°	9161.7	9077.4	7961.4	6938.2	6321.1	5959.5	6108.1	7119.0	8343.9	9319.7	9100.1
40°	9837.5	9634.9	8321.1	7462.6	6979.9	6509.4	6685.5	7493.8	8595.6	9849.8	9659.6
42.5°	10412.1	10112.0	8676.1	8039.1	7593.2	7116.2	7326.3	7871.5	8836.1	10302.3	10145.1
45°	10837.1	10464.1	9014.0	8592.8	8438.5	7922.6	8022.0	8304.1	9096.4	10679.9	10544.6
47.5°	11216.6	10818.1	9396.4	9151.3	9177.8	8971.4	8811.4	8807.7	9403.0	10988.5	10922.3
50°	11724.9	11309.4	9807.2	9726.8	10287.1	10149.9	9796.8	9395.5	9791.1	11338.7	11331.2
52.5°	12425.4	12087.5	10308.9	10346.8	11322.6	11412.6	10975.3	10101.6	10398.8	11981.4	11936.0
55°	13253.6	13056.7	10992.3	11059.5	12592.9	12657.3	12222.8	10984.7	11292.4	12911.9	12786.0
57.5°	13900.1	13858.5	11742.0	11915.2	13541.4	13831.0	13431.6	12007.0	12299.5	13695.7	13379.5
60°	14157.6	14359.2	12539.9	12778.4	14418.8	14739.7	14389.5	12905.3	13192.1	14020.3	13338.8
62.5°	14018.4	14469.0	13389.9	13370.0	14614.8	14960.2	14714.1	13405.1	13853.7	13685.2	12663.9
65°	13375.7	14074.3	13883.1	13217.6	13944.6	13973.0	13893.5	13181.7	14009.9	12626.1	11359.6
67.5°	11975.8	12981.0	13233.7	11911.4	12136.7	11952.1	11818.6	11958.7	13195.9	11038.7	9546.9
70°	9754.2	11266.8	11388.0	9527.0	9424.8	9300.8	9034.8	9804.4	11589.6	9047.1	7575.3
72.5°	7172.0	8762.2	9134.2	6987.4	6514.2	6539.7	6329.6	7388.8	9422.9	6720.5	5655.6
75°	4906.9	6344.7	7146.5	4875.7	4307.8	4318.2	4291.7	5235.4	7505.2	4675.0	4232.0
77.5°	3584.6	4533.0	5389.7	3277.9	3182.3	3123.6	3109.4	3663.2	5754.1	3394.3	3286.4
80°	2876.6	3348.9	3620.6	2271.7	2443.0	2438.3	2359.8	2518.8	3757.8	2482.8	2458.2
82.5°	1995.3	2573.7	2933.4	1780.5	1648.9	1621.4	1640.4	1876.1	2656.0	1697.2	1613.9
85°	1052.6	1709.5	2905.0	1577.9	978.7	780.9	971.2	1536.3	2301.1	899.2	787.5
87.5°	134.4	494.1	1923.4	629.5	386.2	208.2	461.0	865.1	1477.6	183.6	160.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5
2.5°	6311.6	6185.7	6021.0	5868.6	5710.5	5553.4	5348.0	5219.3	5130.3	5113.3	5075.4
5°	6158.3	5739.9	5423.7	5150.2	4902.2	4552.0	4357.9	4197.0	4110.9	4102.4	4081.5
7.5°	5451.2	4873.8	4446.9	4059.8	3708.6	3425.6	3113.2	2967.4	2907.8	2922.0	2936.2
10°	4715.7	4070.2	3579.9	3184.2	2874.7	2636.1	2385.3	2215.9	2098.5	2074.8	2070.1
12.5°	4178.1	3470.1	2993.9	2714.7	2475.2	2250.9	1984.9	1785.2	1632.8	1580.7	1545.7
15°	3950.9	3176.6	2677.8	2376.8	2112.7	1827.8	1580.7	1371.6	1231.5	1186.0	1160.5
17.5°	3999.2	3095.2	2460.1	2074.8	1736.9	1439.7	1128.3	949.4	865.1	843.4	843.4
20°	4252.9	3080.1	2280.2	1796.6	1375.3	1030.8	775.2	673.0	645.5	642.7	650.3
22.5°	4608.8	3133.1	2145.8	1555.2	1068.7	752.5	603.9	566.0	553.7	556.6	565.1
25°	5138.8	3312.0	2048.3	1340.3	838.6	616.2	538.6	515.9	510.2	517.8	528.2
27.5°	5767.3	3490.9	1987.8	1178.5	708.0	563.2	512.1	488.4	492.2	501.7	511.1
30°	6319.2	3637.6	1892.2	1063.0	667.3	566.0	512.1	479.9	476.1	478.0	480.8
32.5°	6814.2	3737.0	1780.5	953.2	575.5	502.6	478.0	473.3	452.5	444.9	445.8
35°	7241.1	3737.0	1713.3	888.8	515.9	445.8	406.1	382.4	372.0	372.9	383.4
37.5°	7652.9	3662.2	1680.1	852.8	483.7	424.1	389.0	368.2	354.0	351.2	353.1
40°	8016.3	3553.4	1642.3	837.7	459.1	410.8	377.7	360.6	345.5	340.8	341.7
42.5°	8307.9	3465.3	1600.6	817.8	443.9	401.3	370.1	355.0	337.9	333.2	332.2
45°	8623.1	3436.0	1545.7	778.1	451.5	402.3	368.2	352.1	335.1	329.4	327.5
47.5°	9038.6	3527.8	1488.9	730.7	467.6	407.0	371.0	352.1	334.1	329.4	327.5
50°	9562.1	3743.6	1417.0	661.6	451.5	420.3	370.1	349.3	334.1	329.4	325.6
52.5°	10234.1	4035.1	1322.3	582.1	442.0	452.5	368.2	343.6	329.4	322.8	316.1
55°	11051.0	4273.7	1209.7	516.8	420.3	443.9	365.4	337.0	321.8	312.4	306.7
57.5°	11649.2	4359.8	1064.9	474.2	390.0	429.7	361.6	328.5	312.4	304.8	297.2
60°	11530.9	4193.2	942.8	447.7	372.0	388.1	358.7	320.9	303.8	298.2	291.5
62.5°	10583.4	3757.8	864.2	435.4	360.6	354.0	361.6	313.3	296.3	290.6	288.7
65°	9162.6	3115.1	833.0	432.6	351.2	334.1	336.0	304.8	287.8	283.0	281.1
67.5°	7558.2	2514.0	805.5	442.0	338.9	319.9	310.5	293.4	279.2	274.5	270.7
70°	5960.4	2090.9	793.2	436.4	323.7	305.7	295.3	281.1	268.8	264.1	261.2
72.5°	4800.0	1766.3	786.6	430.7	303.8	286.8	277.3	265.0	251.8	249.9	247.0
75°	4061.7	1388.6	720.3	412.7	281.1	264.1	257.5	246.1	232.9	232.9	231.0
77.5°	3133.1	1004.3	599.2	365.4	257.5	238.5	232.9	224.3	209.2	212.0	211.1
80°	2314.3	655.0	468.5	302.9	228.1	210.1	207.3	198.8	182.7	186.5	186.5
82.5°	1585.5	429.7	337.0	248.0	195.0	178.0	178.0	169.4	151.4	153.3	159.0
85°	796.0	295.3	251.8	192.1	151.4	142.9	142.9	136.3	118.3	119.3	126.8
87.5°	242.3	178.0	166.6	137.2	108.9	107.0	102.2	97.5	86.1	85.2	89.9
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°	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5
2.5°	5017.7	4963.7	4898.4	4754.5	4706.3	4703.4	4747.0	4701.5	4788.6	4751.7	4792.4
5°	4046.5	3993.5	3920.6	3737.0	3625.3	3549.6	3513.6	3407.6	3484.3	3428.4	3474.8
7.5°	2976.0	2988.3	2940.0	2832.1	2588.8	2466.7	2394.8	2330.4	2386.3	2380.6	2469.6
10°	2091.9	2125.0	2090.9	1982.1	1785.2	1718.0	1731.2	1756.8	1829.7	1867.5	2004.8
12.5°	1506.0	1504.1	1482.3	1384.8	1255.1	1262.7	1316.7	1361.1	1428.3	1468.1	1608.2
15°	1124.5	1107.5	1098.0	1018.5	944.7	960.7	987.3	992.0	1034.6	1058.2	1171.8
17.5°	850.0	858.5	868.9	812.1	756.3	745.9	725.1	699.5	711.8	716.5	773.3
20°	674.9	709.0	734.5	694.8	638.0	607.7	581.2	564.1	564.1	563.2	579.3
22.5°	589.7	614.3	641.8	614.3	563.2	536.7	521.5	508.3	506.4	506.4	521.5
25°	543.3	561.3	587.8	568.9	531.0	511.1	496.9	479.9	473.3	471.4	481.8
27.5°	520.6	528.2	541.4	524.4	492.2	482.7	479.0	463.8	455.3	450.6	461.0
30°	481.8	479.9	480.8	463.8	438.3	437.3	443.9	446.8	443.9	443.0	459.1
32.5°	445.8	442.0	441.1	425.9	402.3	396.6	402.3	408.0	414.6	424.1	443.0
35°	400.4	409.9	415.5	402.3	373.9	356.8	350.2	339.8	334.1	334.1	355.9
37.5°	364.4	386.2	394.7	382.4	351.2	327.5	316.1	314.3	315.2	319.0	339.8
40°	352.1	368.2	375.8	363.5	332.2	310.5	303.8	301.9	303.8	309.5	330.3
42.5°	344.5	355.9	355.0	339.8	314.3	299.1	295.3	293.4	295.3	301.0	323.7
45°	337.9	345.5	337.9	319.9	296.3	288.7	289.6	288.7	290.6	296.3	318.0
47.5°	332.2	335.1	325.6	307.6	283.0	281.1	284.9	287.8	289.6	294.4	317.1
50°	323.7	323.7	315.2	296.3	271.7	272.6	277.3	284.0	284.9	290.6	308.6
52.5°	313.3	312.4	306.7	288.7	262.2	265.0	265.0	272.6	274.5	281.1	300.1
55°	304.8	302.9	300.1	283.0	253.7	258.4	255.6	258.4	263.1	269.8	290.6
57.5°	297.2	293.4	293.4	278.3	247.0	248.9	242.3	246.1	251.8	257.5	279.2
60°	289.6	285.9	287.8	271.7	236.6	234.7	231.9	239.5	241.4	248.0	269.8
62.5°	281.1	278.3	279.2	264.1	229.1	224.3	224.3	231.0	231.9	241.4	262.2
65°	274.5	270.7	269.8	256.5	220.5	214.9	217.7	220.5	222.4	231.9	251.8
67.5°	267.9	260.3	260.3	249.9	211.1	205.4	211.1	210.1	213.0	221.5	237.6
70°	259.4	248.9	249.9	245.2	201.6	195.0	199.7	198.8	200.7	206.3	222.4
72.5°	246.1	237.6	239.5	237.6	192.1	182.7	184.6	184.6	184.6	189.3	206.3
75°	229.1	222.4	228.1	232.9	180.8	167.5	169.4	169.4	166.6	169.4	190.3
77.5°	208.2	204.5	223.4	216.8	167.5	151.4	151.4	149.6	143.9	147.7	170.4
80°	185.5	182.7	206.3	181.7	152.4	131.6	129.7	124.9	119.3	122.1	144.8
82.5°	161.9	159.0	173.2	139.1	131.6	108.9	104.1	95.6	89.9	92.8	113.6
85°	132.5	132.5	133.5	105.1	100.3	83.3	77.6	66.3	59.6	61.5	81.4
87.5°	94.7	97.5	89.9	71.9	59.6	46.4	42.6	36.0	30.3	35.0	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°	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5
2.5°	5000.6	5104.8	5223.1	5374.5	5504.2	5717.2	5921.6	6044.7
5°	3738.9	3912.1	4127.9	4405.3	4663.7	5051.7	5437.0	5684.0
7.5°	2675.9	2861.4	3094.3	3440.7	3806.1	4301.1	4810.4	5105.7
10°	2214.0	2404.2	2600.2	2834.0	3133.1	3671.7	4273.7	4606.9
12.5°	1831.6	2035.1	2246.2	2492.3	2769.6	3250.5	3944.3	4327.6
15°	1401.8	1629.0	1878.0	2189.4	2536.8	3092.4	3862.9	4279.4
17.5°	960.7	1214.4	1520.2	1904.5	2329.5	3041.3	4008.6	4488.5
20°	661.6	846.2	1172.8	1623.3	2134.5	3034.6	4288.8	4889.9
22.5°	553.7	636.1	874.6	1364.9	1987.8	3116.0	4723.3	5453.1
25°	512.1	561.3	698.6	1140.6	1880.8	3303.5	5321.5	6181.9
27.5°	487.5	532.0	634.2	993.9	1796.6	3521.2	5903.6	6888.1
30°	496.9	542.4	616.2	919.1	1682.0	3702.9	6420.5	7438.9
32.5°	447.7	467.6	528.2	852.8	1599.7	3855.3	6872.9	7895.2
35°	381.5	416.5	471.4	821.6	1601.6	3957.5	7366.1	8478.3
37.5°	363.5	398.5	438.3	810.2	1623.3	4066.4	7932.1	9161.7
40°	352.1	384.3	418.4	803.6	1644.2	4165.8	8486.8	9837.5
42.5°	344.5	373.9	416.5	780.9	1654.6	4254.7	8943.0	10412.1
45°	343.6	373.9	424.1	758.2	1670.7	4350.4	9325.4	10837.1
47.5°	344.5	386.2	409.9	730.7	1670.7	4510.3	9774.1	11216.6
50°	340.8	407.0	394.7	691.9	1631.9	4813.2	10389.3	11724.9
52.5°	338.9	404.2	365.4	632.3	1564.6	5294.1	11177.8	12425.4
55°	334.1	390.0	344.5	543.3	1486.1	5818.5	12022.2	13253.6
57.5°	329.4	345.5	333.2	465.7	1364.9	6187.6	12603.3	13900.1
60°	369.2	301.9	323.7	427.8	1203.1	6288.9	12580.6	14157.6
62.5°	341.7	283.0	311.4	419.3	1089.5	6004.9	11999.4	14018.4
65°	267.9	270.7	299.1	443.9	1059.2	5252.4	10969.6	13375.7
67.5°	245.2	258.4	286.8	475.2	1062.0	4205.5	9430.5	11975.8
70°	231.0	245.2	272.6	491.3	1069.6	3135.0	7456.0	9754.2
72.5°	214.9	227.2	256.5	494.1	1020.4	2277.4	5746.5	7172.0
75°	195.9	207.3	233.8	430.7	845.3	1579.8	4395.8	4906.9
77.5°	174.2	182.7	205.4	332.2	627.6	1010.9	3299.7	3584.6
80°	148.6	153.3	172.3	243.3	429.7	632.3	2610.6	2876.6
82.5°	119.3	121.2	133.5	182.7	279.2	406.1	1748.3	1995.3
85°	84.2	84.2	91.8	132.5	190.3	257.5	949.4	1052.6
87.5°	39.8	40.7	40.7	72.9	99.4	130.6	218.7	134.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)