

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: P269653

Luminaire Tested: **GLEON-AF-09-LED-E1-SLR-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269653
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-09-LED-E1-SLR-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40629.4 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

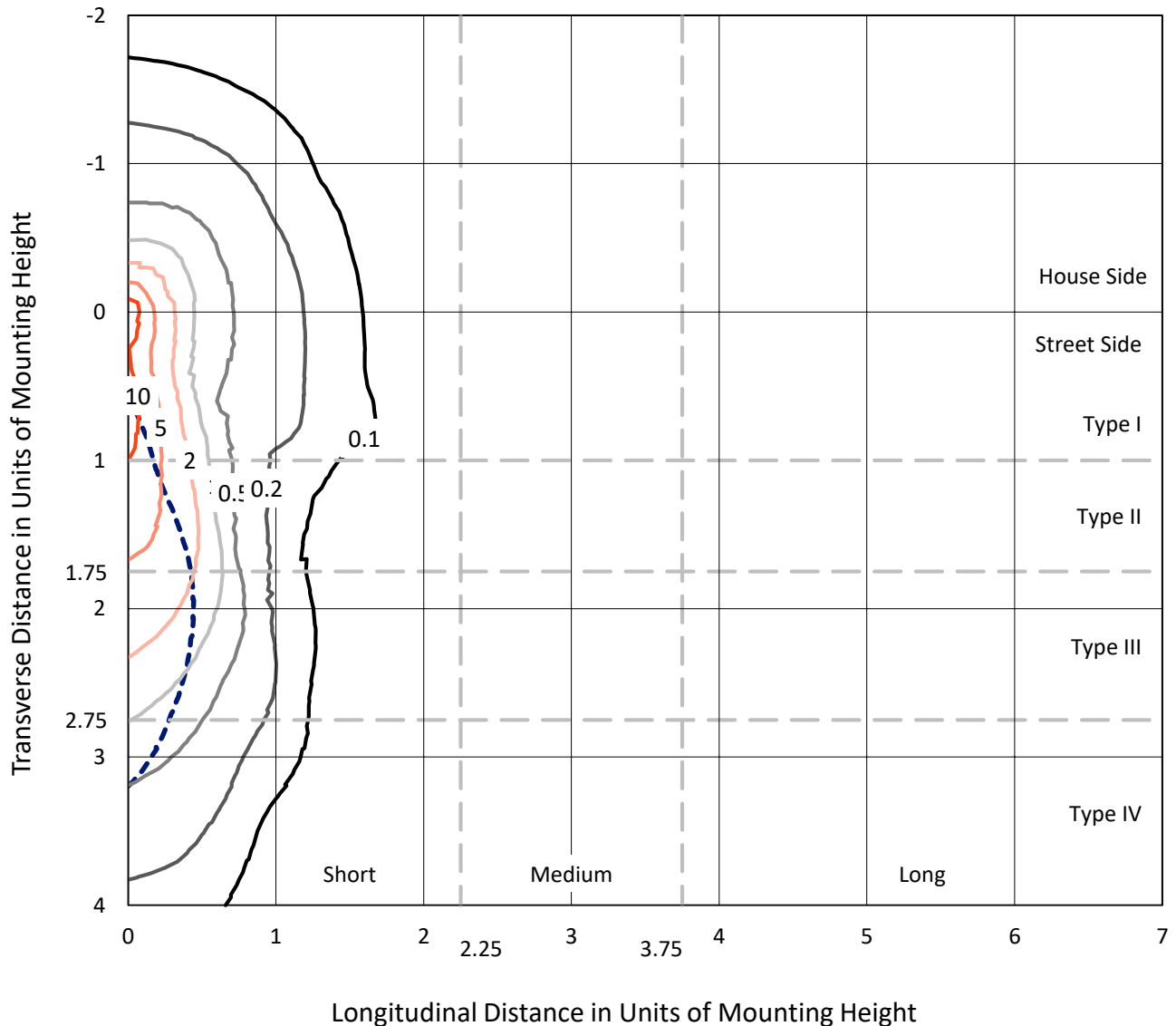
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

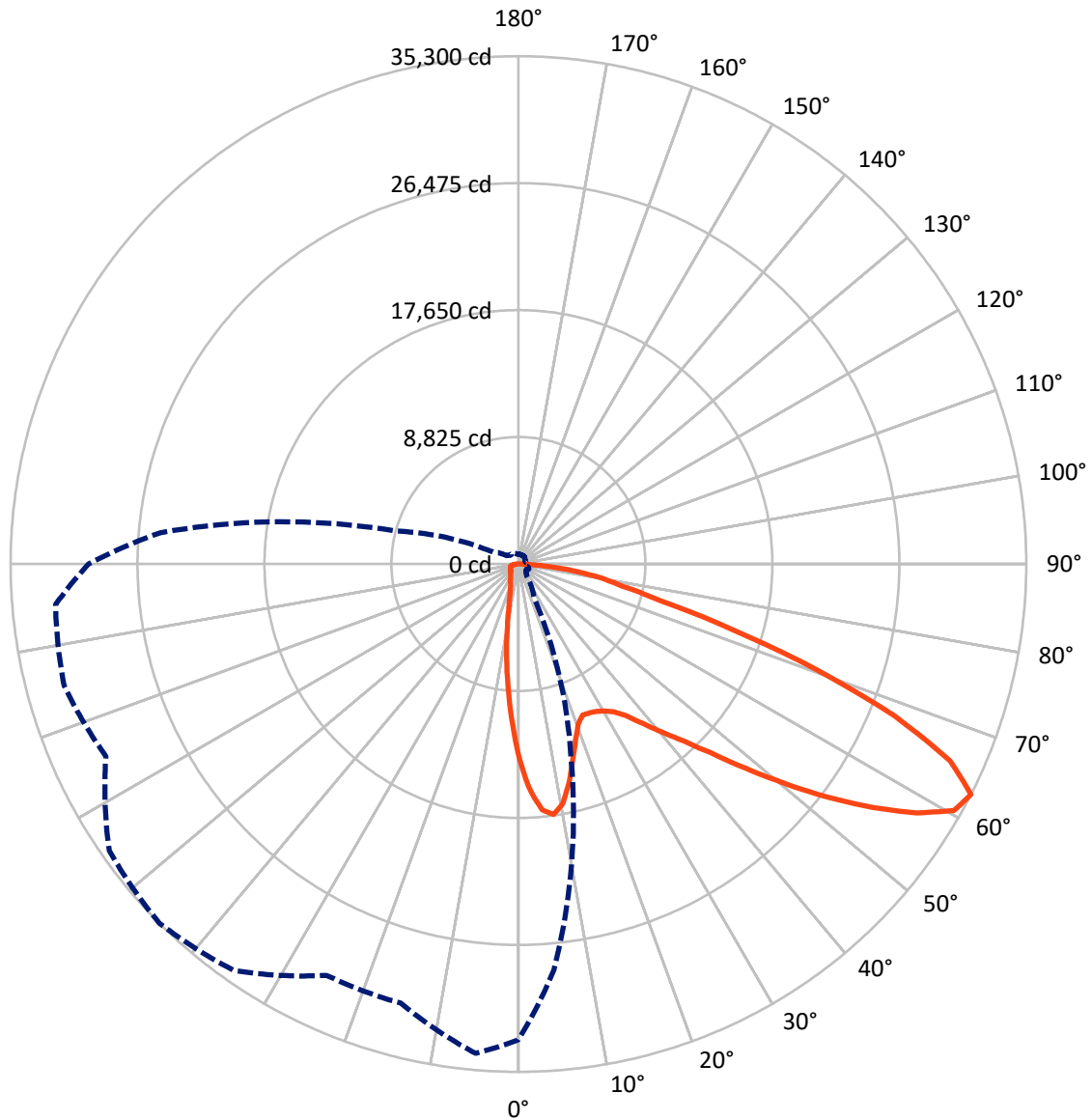
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6723.6	0.0	6723.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	33905.8	0.0	33905.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	40629.4	0.0	40629.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	999.3	2.5
10°-20°	1832.4	4.5
20°-30°	2671.6	6.6
30°-40°	4114.6	10.1
40°-50°	6055.6	14.9
50°-60°	8882.3	21.9
60°-70°	9929.1	24.4
70°-80°	4861.2	12.0
80°-90°	1283.5	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°	40629.4	100.0
0°-180°	40629.4	100.0



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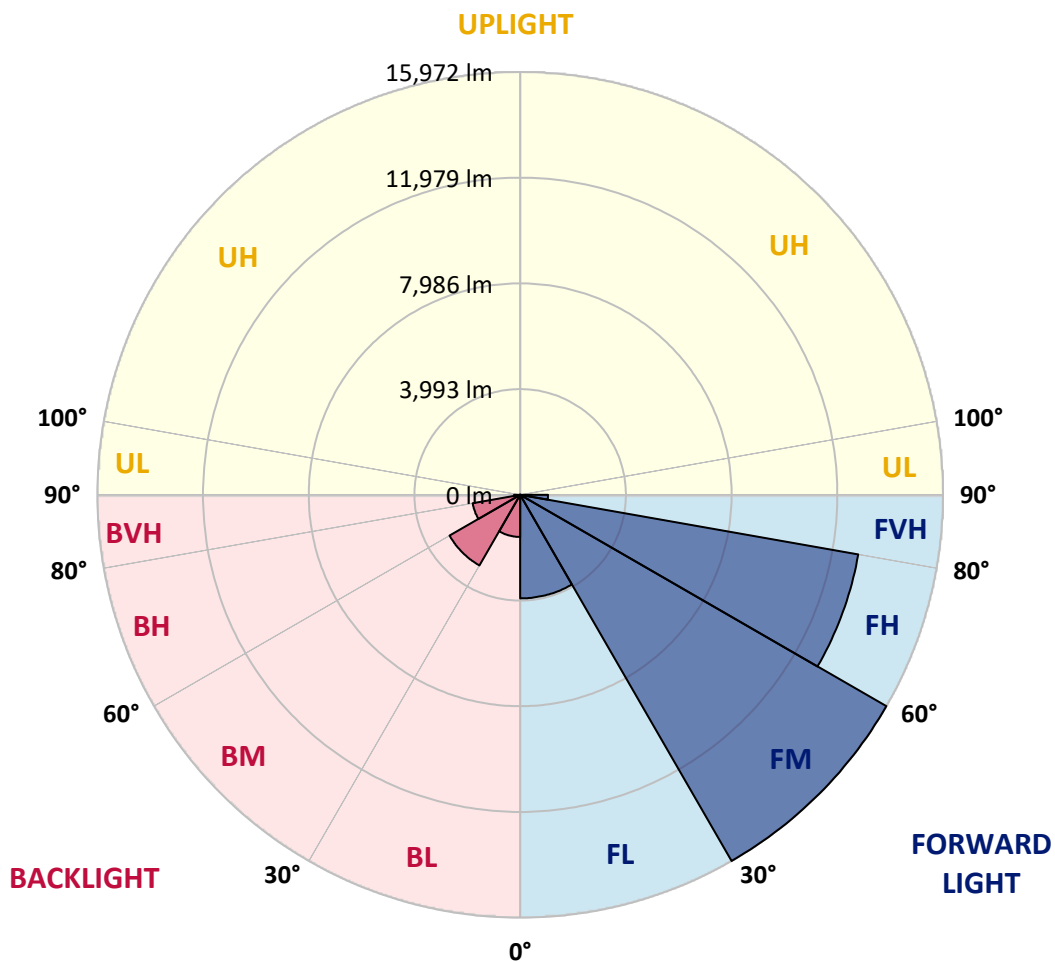
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3912.5	9.6			
FM	(30°-60°)	15971.8	39.3			
FH	(60°-80°)	12967.5	31.9			G5
FVH	(80°-90°)	1054.0	2.6			G5
BL	(0°-30°)	1590.7	3.9	B3/2500		
BM	(30°-60°)	3080.7	7.6	B3/5000		
BH	(60°-80°)	1822.8	4.5	B3/2500		G3/2500
BVH	(80°-90°)	229.4	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8
2.5°	14262.7	13972.4	13490.0	12987.5	12681.6	12324.1	12045.1	11799.3	11308.0	11211.9	11299.1
5°	13411.9	12829.0	11919.9	11004.2	10394.5	9740.1	9230.9	8822.2	8199.0	8089.5	8221.4
7.5°	12047.3	11350.4	10148.8	8980.7	8118.6	7301.2	6751.8	6313.9	5827.0	5617.1	5630.5
10°	10870.2	10084.1	8663.6	7392.7	6687.0	6135.3	5672.9	5224.1	4730.5	4406.5	4317.3
12.5°	10211.4	9306.8	7669.6	6535.1	5880.7	5300.0	4801.9	4321.7	3794.6	3464.0	3370.4
15°	10097.5	9114.7	7296.8	5985.6	5166.0	4431.2	3843.8	3307.7	2765.1	2497.0	2441.1
17.5°	10591.0	9458.7	7176.1	5496.5	4493.7	3586.9	2865.6	2267.0	1824.7	1690.7	1679.6
20°	11538.0	10119.8	7160.5	5036.4	3830.4	2767.3	1996.8	1561.2	1367.0	1329.0	1331.2
22.5°	12867.0	11144.9	7352.5	4690.2	3220.7	2063.6	1500.9	1306.6	1230.7	1194.8	1194.8
25°	14586.7	12556.5	7794.8	4437.8	2691.3	1648.3	1324.5	1208.3	1136.8	1112.2	1116.8
27.5°	16252.9	13930.0	8308.5	4239.1	2345.1	1496.3	1255.2	1150.2	1087.7	1063.1	1074.4
30°	17552.7	15149.6	8737.3	3968.8	2168.7	1453.9	1279.7	1172.6	1083.3	1045.3	1047.6
32.5°	18629.2	16217.1	9096.9	3774.6	2012.4	1246.3	1103.3	1056.4	1045.3	1000.6	978.3
35°	20005.1	17380.8	9338.2	3779.0	1938.6	1112.2	982.7	900.1	839.7	788.4	788.4
37.5°	21617.6	18716.4	9594.9	3830.4	1911.9	1034.0	940.3	857.6	801.7	752.7	743.7
40°	23212.3	20025.1	9829.4	3879.5	1896.2	987.1	906.7	830.8	779.5	730.3	716.9
42.5°	24567.9	21101.6	10039.4	3904.0	1842.7	982.7	882.2	813.0	763.9	710.2	696.8
45°	25570.9	22004.0	10264.9	3942.0	1789.1	1000.6	882.2	810.7	750.4	699.2	685.6
47.5°	26466.5	23062.6	10642.4	3942.0	1724.2	967.0	911.2	813.0	748.2	694.6	683.4
50°	27665.8	24514.3	11357.1	3850.4	1632.7	931.4	960.4	804.1	728.0	685.6	672.3
52.5°	29318.5	26374.9	12491.7	3691.9	1491.9	862.2	953.7	799.6	708.0	663.4	647.7
55°	31272.9	28367.0	13729.1	3506.5	1282.1	813.0	920.1	788.4	685.6	636.4	620.9
57.5°	32798.2	29738.4	14600.2	3220.7	1098.8	786.1	815.2	777.3	658.8	607.6	594.0
60°	33405.8	29684.9	14839.0	2838.7	1009.5	763.9	712.4	871.0	636.4	585.2	569.5
62.5°	33077.4	28313.5	14169.1	2570.7	989.5	734.9	667.8	806.3	618.7	569.5	547.2
65°	31561.0	25883.6	12393.5	2499.3	1047.6	705.8	638.8	632.0	594.0	547.2	524.9
67.5°	28257.7	22251.8	9923.2	2505.9	1121.2	676.8	609.7	578.5	560.6	522.6	502.5
70°	23015.7	17592.9	7397.3	2523.8	1159.2	643.2	578.5	544.9	524.9	486.9	473.4
72.5°	16922.9	13559.2	5373.8	2407.6	1165.9	605.3	536.0	507.1	486.9	446.6	435.5
75°	11578.3	10372.2	3727.6	1994.4	1016.3	551.6	489.1	462.3	449.0	399.7	393.1
77.5°	8458.1	7785.8	2385.3	1480.8	784.0	484.6	431.0	411.0	402.0	348.5	339.5
80°	6787.5	6159.9	1491.9	1013.9	573.9	406.6	361.7	350.7	341.7	288.1	281.3
82.5°	4708.1	4125.1	958.1	658.8	431.0	314.9	285.9	281.3	268.1	218.8	212.2
85°	2483.6	2240.2	607.6	449.0	312.7	216.6	198.7	198.7	192.1	145.2	140.8
87.5°	317.1	515.9	308.2	234.5	171.9	96.1	96.1	93.9	100.5	82.6	71.4
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°	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8
2.5°	11093.6	11200.7	11098.0	11104.8	11218.7	11558.1	11712.2	11839.5	11975.8	12065.1	12105.3
5°	8040.4	8290.5	8375.4	8554.1	8817.7	9250.9	9423.0	9548.1	9630.6	9679.7	9699.9
7.5°	5498.7	5650.7	5820.4	6108.5	6682.5	6937.2	7050.9	7022.1	6928.2	6894.8	6861.2
10°	4145.3	4085.0	4053.7	4212.3	4676.8	4933.8	5014.1	4935.9	4884.5	4895.8	4951.5
12.5°	3211.7	3106.8	2979.4	2961.5	3267.6	3497.6	3548.9	3553.4	3647.2	3729.9	3852.7
15°	2340.7	2329.5	2267.0	2229.0	2403.1	2590.8	2613.1	2653.4	2738.3	2798.5	2905.7
17.5°	1650.5	1710.8	1760.0	1784.6	1916.4	2050.3	2025.8	2005.6	1990.0	1990.0	2041.4
20°	1331.2	1371.4	1433.9	1505.4	1639.3	1733.2	1672.9	1592.4	1534.3	1516.5	1523.3
22.5°	1199.3	1230.7	1266.4	1329.0	1449.5	1514.4	1449.5	1391.5	1333.4	1313.2	1306.6
25°	1132.4	1172.6	1206.1	1253.0	1342.2	1387.0	1324.5	1282.1	1246.3	1221.7	1203.8
27.5°	1094.3	1130.2	1139.1	1161.4	1237.3	1277.5	1246.3	1228.4	1206.1	1183.7	1161.4
30°	1054.3	1047.6	1031.9	1034.0	1094.3	1134.6	1132.4	1136.8	1134.6	1127.9	1123.4
32.5°	962.7	949.1	935.9	949.1	1005.1	1040.7	1043.0	1051.9	1051.9	1049.7	1067.5
35°	801.7	826.4	842.0	882.2	949.1	980.5	967.0	944.7	904.6	880.0	877.7
37.5°	741.6	746.0	772.8	828.5	902.3	931.4	911.2	859.9	833.1	828.5	835.3
40°	712.4	716.9	732.6	784.0	857.6	886.6	868.8	830.8	806.3	804.1	815.2
42.5°	692.4	696.8	705.8	741.6	801.7	837.5	839.7	813.0	784.0	786.1	797.3
45°	681.3	683.4	681.3	699.2	754.9	797.3	815.2	797.3	772.8	777.3	790.7
47.5°	678.9	672.3	663.4	667.8	725.9	768.3	790.7	784.0	772.8	777.3	788.4
50°	670.0	654.3	643.2	641.0	699.2	743.7	763.9	763.9	768.3	777.3	788.4
52.5°	643.2	625.4	625.4	618.7	681.3	723.7	737.0	739.2	746.0	761.7	777.3
55°	609.7	603.0	609.7	598.6	667.8	708.0	714.7	719.2	723.7	737.0	759.3
57.5°	580.8	571.9	587.4	582.9	656.7	692.4	692.4	701.2	701.2	719.2	737.0
60°	565.0	547.2	553.9	558.3	641.0	678.9	674.4	683.4	687.9	703.6	716.9
62.5°	544.9	529.3	529.3	540.5	623.2	658.8	656.7	663.4	681.3	685.6	699.2
65°	520.4	513.7	507.1	520.4	605.3	636.4	638.8	647.7	663.4	667.8	678.9
67.5°	495.9	498.1	484.6	498.1	589.6	614.3	614.3	632.0	638.8	647.7	658.8
70°	469.0	471.3	460.1	475.7	578.5	589.6	587.4	611.9	616.4	623.2	634.4
72.5°	435.5	435.5	431.0	453.4	560.6	565.0	560.6	580.8	582.9	589.6	594.0
75°	399.7	399.7	395.3	426.5	549.5	538.3	524.9	540.5	544.9	549.5	549.5
77.5°	352.9	357.3	357.3	395.3	511.5	527.0	482.4	491.4	498.1	500.3	493.6
80°	294.9	306.1	310.5	359.6	428.9	486.9	431.0	437.7	440.0	440.0	431.0
82.5°	225.6	245.6	256.8	310.5	328.3	408.6	375.2	381.9	375.2	361.7	357.3
85°	156.3	183.2	196.5	236.8	247.9	314.9	312.7	312.7	299.2	281.3	279.2
87.5°	84.9	100.5	109.5	140.8	169.7	212.2	230.1	223.4	212.2	201.0	203.2
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°	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8
2.5°	12315.3	12619.0	13103.7	13474.4	13847.5	14207.1	14595.7	14892.7	15145.1	15243.2	15542.7
5°	9903.2	10282.8	10740.7	11567.0	12152.2	12797.8	13543.7	14530.9	14910.5	15435.3	16295.3
7.5°	7001.8	7345.8	8082.9	8750.7	9579.3	10492.7	11500.0	12862.4	13360.5	14202.6	15602.9
10°	5228.6	5628.3	6220.1	6783.0	7513.3	8446.9	9603.9	11127.0	11732.4	12645.8	14258.3
12.5°	4212.3	4683.6	5311.1	5840.5	6405.5	7064.5	8187.8	9858.4	10669.2	11468.8	13099.3
15°	3236.2	3729.9	4312.9	4985.1	5608.2	6318.5	7495.5	9322.4	10255.9	11089.0	12480.5
17.5°	2240.2	2662.2	3397.1	4098.3	4895.8	5804.8	7303.4	9436.3	10550.9	11511.2	12587.7
20°	1587.9	1829.2	2432.3	3245.1	4239.1	5380.4	7267.6	10034.8	11484.4	12581.0	13275.6
22.5°	1335.6	1424.9	1775.6	2521.5	3669.5	5063.2	7392.7	10874.7	12744.1	14144.4	14372.3
25°	1217.3	1270.8	1453.9	1978.8	3162.6	4833.2	7814.9	12125.4	14303.1	15707.9	15667.7
27.5°	1152.4	1208.3	1329.0	1670.6	2780.7	4690.2	8237.0	13608.5	16085.3	17405.3	16905.1
30°	1132.4	1208.3	1335.6	1574.5	2508.2	4464.7	8583.1	14910.5	17456.7	18551.1	17467.8
32.5°	1116.8	1127.9	1185.9	1358.0	2249.0	4201.2	8817.7	16078.7	18799.0	19641.0	18278.6
35°	902.3	958.1	1051.9	1217.3	2097.3	4042.6	8817.7	17085.9	20121.1	20742.0	19051.3
37.5°	868.8	918.0	1000.6	1141.2	2012.4	3964.4	8641.2	18057.5	21472.5	21990.6	19688.0
40°	851.0	891.2	969.4	1083.3	1976.6	3875.1	8384.4	18915.2	22792.3	23241.3	20282.0
42.5°	837.5	873.3	947.1	1047.6	1929.6	3776.7	8176.6	19603.1	23938.2	24308.9	20849.3
45°	830.8	868.8	949.1	1065.4	1835.9	3647.2	8107.5	20346.8	24880.6	25200.1	21463.6
47.5°	830.8	875.5	960.4	1103.3	1724.2	3513.2	8324.1	21327.2	25771.8	25928.1	22187.1
50°	824.1	873.3	991.6	1065.4	1561.2	3343.5	8833.4	22562.3	26736.7	26754.5	23102.8
52.5°	810.7	868.8	1067.5	1043.0	1373.6	3120.2	9521.2	24148.1	28163.8	28271.1	24536.8
55°	795.1	862.2	1047.6	991.6	1219.4	2854.4	10084.1	26075.6	30169.4	30466.6	26645.0
57.5°	775.0	853.2	1013.9	920.1	1119.0	2512.6	10287.3	27487.1	31569.9	32315.8	29021.5
60°	757.1	846.6	915.7	877.7	1056.4	2224.6	9894.2	27208.0	31473.8	33081.9	31127.6
62.5°	739.2	853.2	835.3	851.0	1027.4	2039.2	8866.8	24972.3	29881.4	32291.3	32688.9
65°	719.2	792.8	788.4	828.5	1020.7	1965.4	7350.3	21619.8	26803.6	29792.0	33057.4
67.5°	692.4	732.6	754.9	799.6	1043.0	1900.6	5932.0	17834.1	22526.5	26046.5	31136.6
70°	663.4	696.8	721.3	763.9	1029.5	1871.6	4933.8	14064.0	17874.4	21347.3	27346.5
72.5°	625.4	654.3	676.8	716.9	1016.3	1856.0	4167.6	11325.8	13345.0	15857.5	22233.9
75°	580.8	607.6	623.2	663.4	973.9	1699.7	3276.5	9583.7	9985.7	11031.0	17709.0
77.5°	529.3	549.5	562.8	607.6	862.2	1413.8	2369.6	7392.7	7754.6	8009.2	13577.2
80°	469.0	489.1	495.9	538.3	714.7	1105.5	1545.5	5460.7	5800.3	5858.3	8866.8
82.5°	399.7	419.9	419.9	460.1	585.2	795.1	1013.9	3741.0	3808.1	4004.6	6267.0
85°	321.7	337.3	337.3	357.3	453.4	594.0	696.8	1878.4	1858.2	2121.7	5429.5
87.5°	230.1	241.3	252.3	256.8	323.8	393.1	419.9	571.9	377.5	433.3	3486.4
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°	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8	13726.8
2.5°	15768.2	15895.5	15766.0	15672.1	15268.0	14935.1	14490.6	14262.7
5°	16949.7	17273.5	17164.0	16770.9	15926.8	14977.5	13898.8	13411.9
7.5°	16806.7	17559.3	17577.2	16842.5	15598.3	14200.2	12739.7	12047.3
10°	15694.5	16657.1	16931.9	16219.3	14899.4	13336.0	11660.9	10870.2
12.5°	14452.7	15395.2	15605.1	15359.5	14256.1	12686.0	10986.4	10211.4
15°	13436.5	13858.6	14108.7	14323.1	13704.5	12427.0	10948.5	10097.5
17.5°	12817.7	12770.8	12842.3	13215.3	13320.2	12724.0	11529.0	10591.0
20°	12594.4	11877.5	11859.7	12373.3	13139.4	13431.9	12663.6	11538.0
22.5°	12717.2	11555.8	11408.5	12018.2	13235.4	14452.7	14151.2	12867.0
25°	13141.7	11582.7	11464.3	12053.9	13583.9	15540.4	15757.0	14586.7
27.5°	13809.5	11752.4	11596.1	12201.4	14046.2	16453.8	17338.2	16252.9
30°	14443.8	12047.3	11853.0	12491.7	14468.3	16815.6	18307.5	17552.7
32.5°	15214.2	12598.9	12257.3	13025.6	14990.9	17391.8	19171.9	18629.2
35°	15969.2	13385.0	12960.7	13849.7	15573.8	18108.8	20159.1	20005.1
37.5°	16797.8	14412.4	14061.8	14915.0	16371.3	18785.5	21418.7	21617.6
40°	17682.2	15774.9	15359.5	16469.4	17608.5	19634.3	22734.3	23212.3
42.5°	18573.4	17287.0	16791.1	17916.8	18968.7	20471.8	23860.1	24567.9
45°	19594.1	18928.5	18694.0	19911.2	20275.3	21269.2	24690.9	25570.9
47.5°	20782.3	20791.2	21168.6	21655.6	21593.0	22171.4	25526.1	26466.5
50°	22169.2	23116.3	23949.4	24273.2	22950.9	23140.8	26685.3	27665.8
52.5°	23835.4	25896.9	26928.8	26716.6	24413.9	24324.6	28521.1	29318.5
55°	25919.2	28840.5	29865.7	29713.9	26095.7	25937.1	30808.2	31272.9
57.5°	28331.4	31692.7	32635.2	31951.8	28114.8	27706.0	32700.0	32798.2
60°	30450.8	33953.0	34779.3	34022.1	30151.6	29588.8	33881.6	33405.8
62.5°	31630.2	34719.0	35299.7	34484.6	31547.5	31594.4	34140.5	33077.4
65°	31103.1	32782.7	32970.2	32903.2	31188.0	32758.0	33209.3	31561.0
67.5°	28217.5	27887.0	28201.7	28637.3	28105.8	31226.0	30629.6	28257.7
70°	23134.1	21318.2	21946.0	22238.5	22479.7	26870.7	26584.8	23015.7
72.5°	17434.3	14935.1	15430.9	15370.5	16487.3	21552.9	20675.1	16922.9
75°	12353.2	10126.5	10189.0	10164.4	11504.6	16862.5	14970.9	11578.3
77.5°	8643.4	7336.8	7370.5	7508.8	7734.4	12717.2	10695.9	8458.1
80°	5943.2	5568.1	5753.4	5764.6	5360.2	8542.9	7902.0	6787.5
82.5°	4426.7	3870.5	3825.9	3890.6	4201.2	6921.5	6072.7	4708.1
85°	3624.9	2291.5	1842.7	2309.5	3723.1	6854.4	4033.6	2483.6
87.5°	2041.4	1087.7	491.4	911.2	1485.3	4538.3	1165.9	317.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)