

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: P192127

Luminaire Tested: **GLEON-AF-09-LED-E1-SLR-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192127
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-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 800mA 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: 37784 lumens
Efficiency: N/A
Efficacy: 101.0 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): 374
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

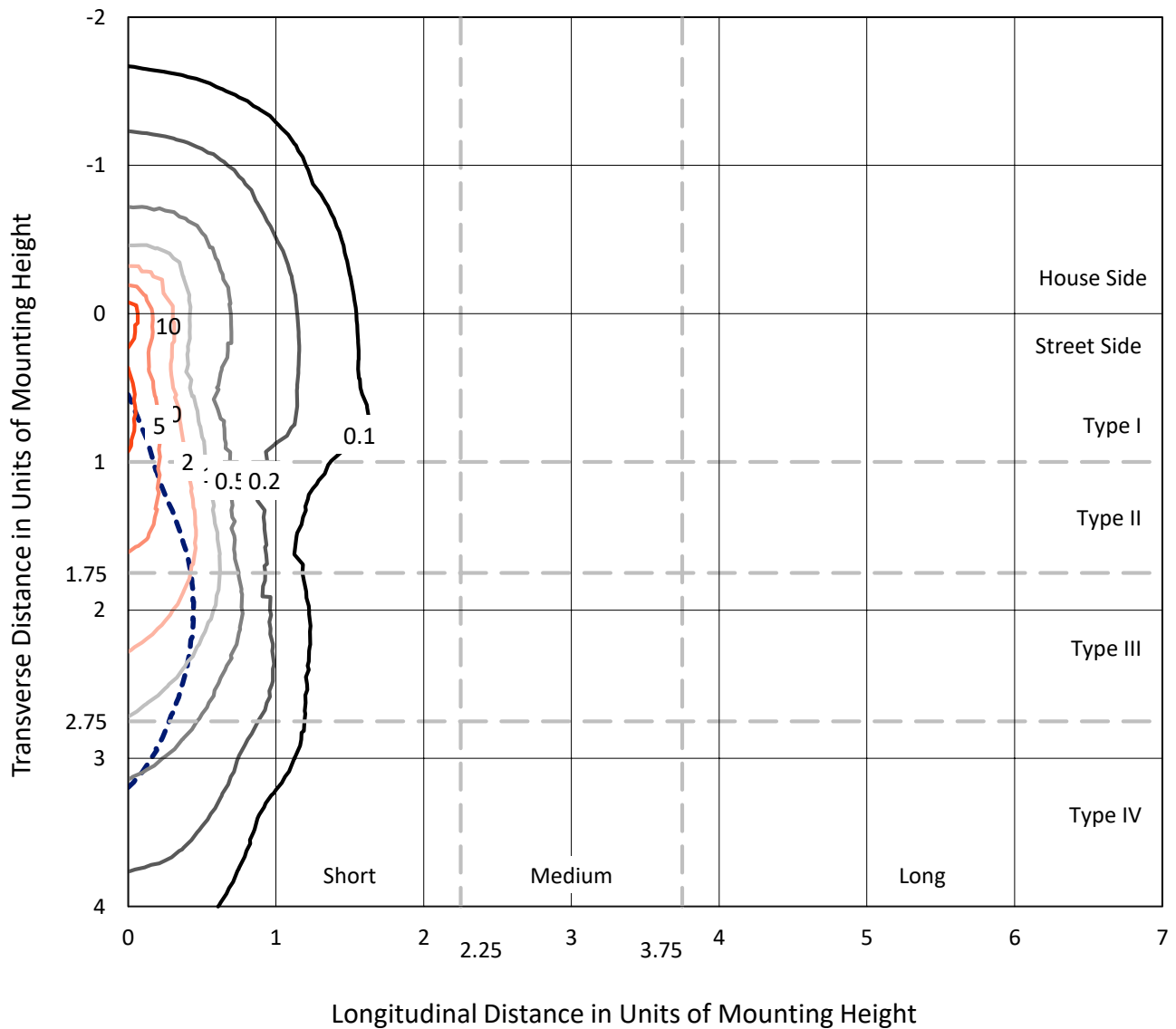


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

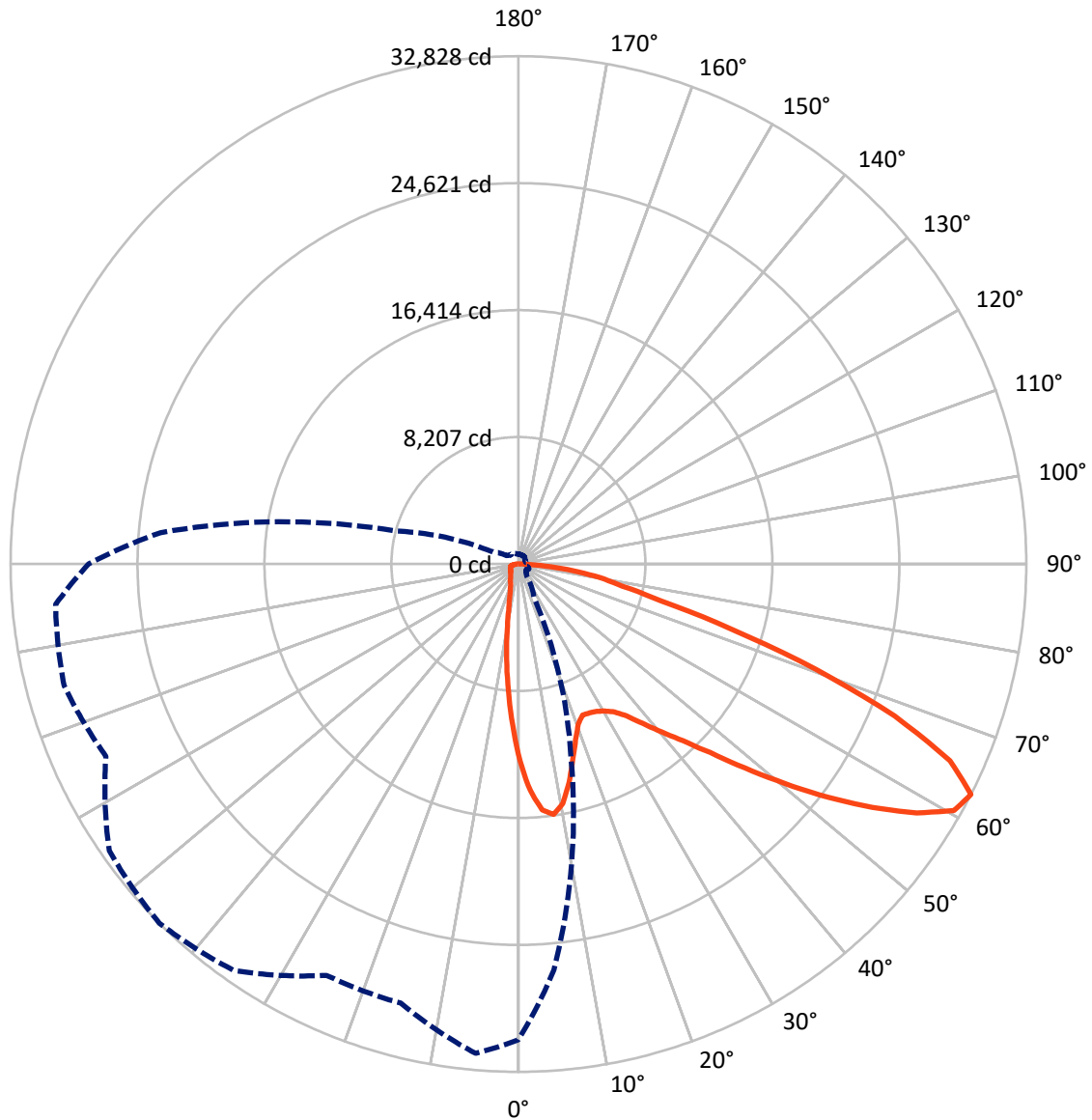


Based on 30 foot mounting height. Maximum calculated value = 14.2 fc
 Type IV - Short - Non-Cutoff

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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	6252.7	0.0	6252.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	31531.3	0.0	31531.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	37784.0	0.0	37784.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	929.3	2.5
10°-20°	1704.0	4.5
20°-30°	2484.5	6.6
30°-40°	3826.4	10.1
40°-50°	5631.5	14.9
50°-60°	8260.2	21.9
60°-70°	9233.7	24.4
70°-80°	4520.7	12.0
80°-90°	1193.6	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°	37784.0	100.0
0°-180°	37784.0	100.0



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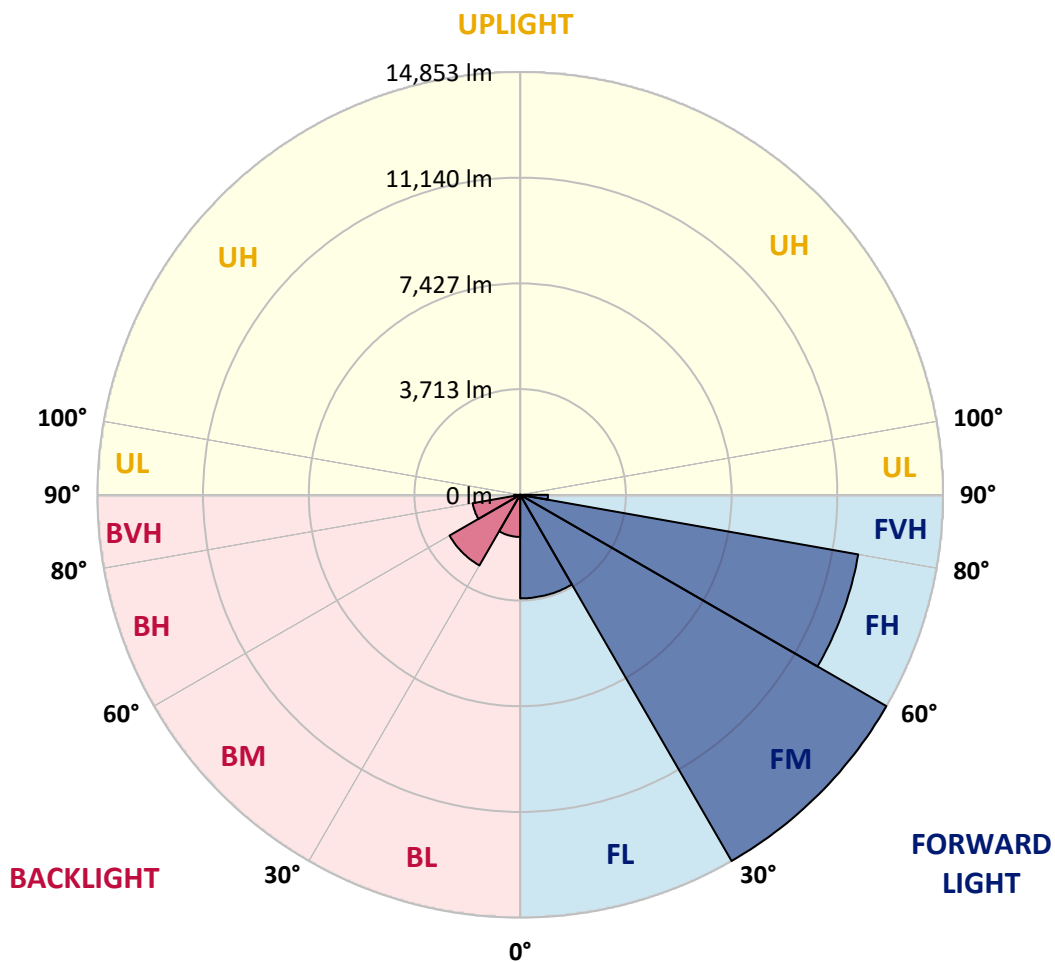
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3638.5	9.6			
FM	(30°-60°)	14853.2	39.3			
FH	(60°-80°)	12059.4	31.9			G5
FVH	(80°-90°)	980.2	2.6			G5
BL	(0°-30°)	1479.3	3.9	B3/2500		
BM	(30°-60°)	2865.0	7.6	B3/5000		
BH	(60°-80°)	1695.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	213.4	0.6			G2/225
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°	12765.5	12765.5	12765.5	12765.5	12765.5	12765.5	12765.5	12765.5	12765.5	12765.5	12765.5
2.5°	13264.0	12993.9	12545.3	12078.0	11793.4	11461.1	11201.5	10973.0	10516.0	10426.7	10507.7
5°	12472.6	11930.5	11085.1	10233.6	9666.5	9058.0	8584.4	8204.3	7624.8	7523.0	7645.6
7.5°	11203.5	10555.5	9438.1	8351.8	7550.0	6789.8	6278.9	5871.8	5419.0	5223.7	5236.2
10°	10108.9	9377.8	8056.8	6875.0	6218.6	5705.6	5275.7	4858.2	4399.2	4098.0	4014.9
12.5°	9496.2	8655.0	7132.5	6077.4	5468.8	4928.8	4465.6	4019.1	3528.9	3221.5	3134.2
15°	9390.3	8476.4	6785.7	5566.5	4804.2	4120.8	3574.6	3076.1	2571.4	2322.1	2270.2
17.5°	9849.3	8796.3	6673.5	5111.6	4179.0	3335.7	2664.8	2108.2	1696.9	1572.3	1561.9
20°	10730.0	9411.1	6659.0	4683.7	3562.1	2573.4	1856.9	1451.8	1271.1	1235.8	1237.9
22.5°	11965.8	10364.4	6837.6	4361.8	2995.1	1919.2	1395.8	1215.1	1144.4	1111.2	1111.2
25°	13565.1	11677.1	7248.9	4127.1	2502.8	1532.9	1231.7	1123.7	1057.2	1034.4	1038.5
27.5°	15114.6	12954.5	7726.6	3942.2	2180.9	1391.6	1167.3	1069.7	1011.5	988.7	999.1
30°	16323.4	14088.5	8125.4	3690.9	2016.8	1352.2	1190.1	1090.4	1007.4	972.1	974.1
32.5°	17324.6	15081.4	8459.8	3510.2	1871.4	1159.0	1026.1	982.4	972.1	930.5	909.7
35°	18604.0	16163.5	8684.1	3514.3	1802.9	1034.4	913.9	837.0	781.0	733.2	733.2
37.5°	20103.6	17405.6	8923.0	3562.1	1777.9	961.7	874.4	797.6	745.7	700.0	691.7
40°	21586.6	18622.7	9141.0	3607.8	1763.4	918.1	843.3	772.7	724.9	679.2	666.7
42.5°	22847.4	19623.8	9336.3	3630.7	1713.6	913.9	820.4	756.0	710.3	660.5	648.0
45°	23780.0	20463.0	9546.1	3666.0	1663.7	930.5	820.4	754.0	697.9	650.1	637.7
47.5°	24612.9	21447.5	9897.1	3666.0	1603.5	899.4	847.4	756.0	695.8	646.0	635.6
50°	25728.3	22797.6	10561.7	3580.8	1518.3	866.1	893.1	747.7	677.1	637.7	625.2
52.5°	27265.3	24527.7	11616.9	3433.3	1387.5	801.7	886.9	743.6	658.4	616.9	602.3
55°	29082.7	26380.4	12767.5	3260.9	1192.2	756.0	855.7	733.2	637.7	592.0	577.4
57.5°	30501.3	27655.8	13577.6	2995.1	1021.9	731.1	758.1	722.8	612.7	565.0	552.5
60°	31066.2	27605.9	13799.8	2639.9	938.8	710.3	662.6	810.0	592.0	544.2	529.6
62.5°	30760.9	26330.6	13176.7	2390.7	920.1	683.3	621.0	749.8	575.3	529.6	508.9
65°	29350.6	24070.8	11525.5	2324.2	974.1	656.3	594.0	587.8	552.5	508.9	488.1
67.5°	26278.7	20693.5	9228.3	2330.4	1042.7	629.3	567.0	538.0	521.3	486.0	467.3
70°	21403.9	16360.8	6879.1	2347.1	1078.0	598.2	538.0	506.8	488.1	452.8	440.3
72.5°	15737.7	12609.7	4997.4	2239.0	1084.2	562.9	498.5	471.5	452.8	415.4	405.0
75°	10767.4	9645.8	3466.6	1854.8	945.1	513.0	454.9	429.9	417.5	371.8	365.6
77.5°	7865.7	7240.6	2218.3	1377.1	729.0	450.7	400.9	382.2	373.9	324.0	315.7
80°	6312.1	5728.5	1387.5	943.0	533.8	378.0	336.5	326.1	317.8	267.9	261.7
82.5°	4378.4	3836.3	891.0	612.7	400.9	292.9	265.9	261.7	249.2	203.5	197.3
85°	2309.7	2083.3	565.0	417.5	290.8	201.5	184.9	184.9	178.6	135.0	130.9
87.5°	294.9	479.8	286.6	218.1	159.9	89.3	89.3	87.2	93.5	76.9	66.5
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°	12765.5	12765.5	12765.5	12765.5	12765.5	12765.5	12765.5	12765.5	12765.5	12765.5	12765.5
2.5°	10316.6	10416.3	10320.8	10327.0	10433.0	10748.7	10892.0	11010.4	11137.1	11220.2	11257.5
5°	7477.3	7710.0	7788.9	7955.1	8200.1	8603.1	8763.0	8879.3	8956.2	9001.9	9020.6
7.5°	5113.7	5254.9	5412.8	5680.7	6214.5	6451.3	6557.2	6530.2	6443.0	6411.8	6380.7
10°	3855.0	3798.9	3769.8	3917.3	4349.3	4588.2	4662.9	4590.3	4542.5	4552.9	4604.8
12.5°	2986.8	2889.2	2770.8	2754.2	3038.7	3252.6	3300.4	3304.6	3391.8	3468.7	3582.9
15°	2176.7	2166.3	2108.2	2072.9	2234.9	2409.4	2430.1	2467.5	2546.4	2602.5	2702.2
17.5°	1534.9	1591.0	1636.7	1659.6	1782.1	1906.7	1883.9	1865.2	1850.6	1850.6	1898.4
20°	1237.9	1275.3	1333.5	1399.9	1524.5	1611.8	1555.7	1480.9	1426.9	1410.3	1416.5
22.5°	1115.4	1144.4	1177.7	1235.8	1348.0	1408.2	1348.0	1294.0	1240.0	1221.3	1215.1
25°	1053.1	1090.4	1121.6	1165.2	1248.3	1289.8	1231.7	1192.2	1159.0	1136.1	1119.5
27.5°	1017.7	1051.0	1059.3	1080.1	1150.7	1188.1	1159.0	1142.4	1121.6	1100.8	1080.1
30°	980.4	974.1	959.6	961.7	1017.7	1055.1	1053.1	1057.2	1055.1	1048.9	1044.7
32.5°	895.2	882.7	870.3	882.7	934.7	967.9	970.0	978.3	978.3	976.2	992.8
35°	745.7	768.5	783.0	820.4	882.7	911.8	899.4	878.6	841.2	818.4	816.3
37.5°	689.6	693.7	718.7	770.6	839.1	866.1	847.4	799.7	774.7	770.6	776.8
40°	662.6	666.7	681.3	729.0	797.6	824.6	808.0	772.7	749.8	747.7	758.1
42.5°	643.9	648.0	656.3	689.6	745.7	778.9	781.0	756.0	729.0	731.1	741.5
45°	633.5	635.6	633.5	650.1	702.0	741.5	758.1	741.5	718.7	722.8	735.3
47.5°	631.4	625.2	616.9	621.0	675.0	714.5	735.3	729.0	718.7	722.8	733.2
50°	623.1	608.6	598.2	596.1	650.1	691.7	710.3	710.3	714.5	722.8	733.2
52.5°	598.2	581.6	581.6	575.3	633.5	673.0	685.4	687.5	693.7	708.3	722.8
55°	567.0	560.8	567.0	556.6	621.0	658.4	664.7	668.8	673.0	685.4	706.2
57.5°	540.0	531.7	546.3	542.1	610.6	643.9	643.9	652.2	652.2	668.8	685.4
60°	525.5	508.9	515.1	519.3	596.1	631.4	627.3	635.6	639.7	654.3	666.7
62.5°	506.8	492.3	492.3	502.6	579.5	612.7	610.6	616.9	633.5	637.7	650.1
65°	483.9	477.7	471.5	483.9	562.9	592.0	594.0	602.3	616.9	621.0	631.4
67.5°	461.1	463.2	450.7	463.2	548.3	571.2	571.2	587.8	594.0	602.3	612.7
70°	436.2	438.3	427.9	442.4	538.0	548.3	546.3	569.1	573.3	579.5	589.9
72.5°	405.0	405.0	400.9	421.6	521.3	525.5	521.3	540.0	542.1	548.3	552.5
75°	371.8	371.8	367.6	396.7	511.0	500.6	488.1	502.6	506.8	511.0	511.0
77.5°	328.2	332.3	332.3	367.6	475.6	490.2	448.6	456.9	463.2	465.3	459.0
80°	274.2	284.6	288.7	334.4	398.8	452.8	400.9	407.1	409.2	409.2	400.9
82.5°	209.8	228.5	238.9	288.7	305.3	380.1	348.9	355.2	348.9	336.5	332.3
85°	145.4	170.3	182.8	220.2	230.6	292.9	290.8	290.8	278.3	261.7	259.6
87.5°	78.9	93.5	101.8	130.9	157.9	197.3	213.9	207.7	197.3	186.9	189.0
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°	12765.5	12765.5	12765.5	12765.5	12765.5	12765.5	12765.5	12765.5	12765.5	12765.5	12765.5
2.5°	11452.8	11735.3	12186.0	12530.8	12877.6	13212.0	13573.4	13849.7	14084.4	14175.8	14454.1
5°	9209.6	9562.7	9988.5	10757.0	11301.2	11901.4	12595.2	13513.2	13866.3	14354.4	15154.1
7.5°	6511.5	6831.4	7516.8	8137.8	8908.4	9757.9	10694.7	11961.7	12424.8	13207.9	14510.2
10°	4862.3	5234.1	5784.5	6308.0	6987.2	7855.4	8931.3	10347.8	10910.7	11760.2	13259.8
12.5°	3917.3	4355.5	4939.2	5431.5	5956.9	6569.7	7614.4	9168.0	9922.0	10665.6	12181.8
15°	3009.6	3468.7	4010.8	4635.9	5215.4	5875.9	6970.5	8669.6	9537.8	10312.5	11606.5
17.5°	2083.3	2475.8	3159.2	3811.4	4552.9	5398.2	6791.9	8775.5	9811.9	10705.0	11706.2
20°	1476.8	1701.1	2261.9	3017.9	3942.2	5003.6	6758.7	9332.1	10680.1	11700.0	12345.9
22.5°	1242.1	1325.1	1651.2	2345.0	3412.6	4708.6	6875.0	10113.1	11851.6	13153.9	13365.7
25°	1132.0	1181.8	1352.2	1840.3	2941.1	4494.7	7267.6	11276.2	13301.3	14607.8	14570.4
27.5°	1071.8	1123.7	1235.8	1553.6	2585.9	4361.8	7660.1	12655.4	14958.8	16186.4	15721.1
30°	1053.1	1123.7	1242.1	1464.3	2332.5	4152.0	7982.1	13866.3	16234.1	17251.9	16244.5
32.5°	1038.5	1048.9	1102.9	1262.8	2091.6	3906.9	8200.1	14952.6	17482.4	18265.5	16998.5
35°	839.1	891.0	978.3	1132.0	1950.3	3759.4	8200.1	15889.3	18712.0	19289.4	17717.1
37.5°	808.0	853.7	930.5	1061.4	1871.4	3686.7	8036.1	16792.8	19968.6	20450.5	18309.1
40°	791.4	828.7	901.4	1007.4	1838.2	3603.7	7797.2	17590.4	21196.2	21613.6	18861.6
42.5°	778.9	812.1	880.7	974.1	1794.6	3512.3	7604.0	18230.2	22261.7	22606.5	19389.1
45°	772.7	808.0	882.7	990.7	1707.3	3391.8	7539.6	18921.8	23138.2	23435.2	19960.3
47.5°	772.7	814.2	893.1	1026.1	1603.5	3267.2	7741.1	19833.6	23966.9	24112.3	20633.3
50°	766.4	812.1	922.2	990.7	1451.8	3109.3	8214.7	20982.2	24864.2	24880.8	21484.9
52.5°	754.0	808.0	992.8	970.0	1277.4	2901.6	8854.4	22456.9	26191.4	26291.1	22818.3
55°	739.4	801.7	974.1	922.2	1134.1	2654.5	9377.8	24249.4	28056.6	28332.9	24779.1
57.5°	720.7	793.4	943.0	855.7	1040.6	2336.7	9566.8	25562.1	29358.9	30052.7	26989.0
60°	704.1	787.2	851.6	816.3	982.4	2068.7	9201.3	25302.5	29269.6	30765.1	28947.7
62.5°	687.5	793.4	776.8	791.4	955.4	1896.3	8245.8	23223.4	27788.7	30029.8	30399.5
65°	668.8	737.3	733.2	770.6	949.2	1827.8	6835.5	20105.7	24926.5	27705.6	30742.2
67.5°	643.9	681.3	702.0	743.6	970.0	1767.6	5516.6	16585.1	20949.0	24222.4	28956.0
70°	616.9	648.0	670.9	710.3	957.5	1740.6	4588.2	13079.1	16622.5	19852.3	25431.2
72.5°	581.6	608.6	629.3	666.7	945.1	1726.0	3875.8	10532.7	12410.3	14747.0	20676.9
75°	540.0	565.0	579.5	616.9	905.6	1580.6	3047.0	8912.6	9286.4	10258.5	16468.8
77.5°	492.3	511.0	523.4	565.0	801.7	1314.8	2203.7	6875.0	7211.5	7448.3	12626.3
80°	436.2	454.9	461.1	500.6	664.7	1028.1	1437.3	5078.4	5394.1	5448.1	8245.8
82.5°	371.8	390.5	390.5	427.9	544.2	739.4	943.0	3479.0	3541.3	3724.1	5828.2
85°	299.1	313.6	313.6	332.3	421.6	552.5	648.0	1746.8	1728.1	1973.2	5049.3
87.5°	213.9	224.3	234.7	238.9	301.2	365.6	390.5	531.7	351.0	402.9	3242.3
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	12765.5	12765.5	12765.5	12765.5	12765.5	12765.5	12765.5	12765.5
2.5°	14663.9	14782.3	14661.8	14574.6	14198.6	13889.1	13475.8	13264.0
5°	15762.6	16063.8	15962.0	15596.5	14811.4	13928.6	12925.4	12472.6
7.5°	15629.7	16329.7	16346.3	15662.9	14506.0	13205.8	11847.4	11203.5
10°	14595.3	15490.5	15746.0	15083.4	13855.9	12402.0	10844.2	10108.9
12.5°	13440.5	14317.0	14512.3	14283.8	13257.7	11797.6	10216.9	9496.2
15°	12495.5	12888.0	13120.6	13320.0	12744.7	11556.6	10181.6	9390.3
17.5°	11920.1	11876.5	11943.0	12289.8	12387.4	11832.9	10721.7	9849.3
20°	11712.4	11045.7	11029.1	11506.8	12219.2	12491.3	11776.8	10730.0
22.5°	11826.6	10746.6	10609.5	11176.5	12308.5	13440.5	13160.1	11965.8
25°	12221.3	10771.5	10661.4	11209.8	12632.5	14452.0	14653.5	13565.1
27.5°	12842.3	10929.4	10784.0	11346.9	13062.5	15301.5	16124.0	15114.6
30°	13432.2	11203.5	11022.8	11616.9	13455.0	15638.0	17025.5	16323.4
32.5°	14148.8	11716.6	11398.8	12113.3	13941.1	16173.9	17829.3	17324.6
35°	14850.8	12447.7	12053.0	12879.7	14483.2	16840.6	18747.3	18604.0
37.5°	15621.4	13403.1	13077.0	13870.5	15224.7	17470.0	19918.8	20103.6
40°	16443.9	14670.1	14283.8	15316.1	16375.4	18259.2	21142.2	21586.6
42.5°	17272.6	16076.3	15615.2	16662.0	17640.3	19038.1	22189.0	22847.4
45°	18221.8	17602.9	17384.8	18516.8	18855.3	19779.6	22961.6	23780.0
47.5°	19326.8	19335.1	19686.2	20139.0	20080.8	20618.7	23738.5	24612.9
50°	20616.7	21497.3	22272.1	22573.2	21343.6	21520.2	24816.4	25728.3
52.5°	22166.1	24083.2	25042.8	24845.5	22704.1	22621.0	26523.8	27265.3
55°	24104.0	26820.8	27774.1	27632.9	24268.1	24120.6	28650.7	29082.7
57.5°	26347.2	29473.2	30349.7	29714.1	26145.7	25765.6	30409.9	30501.3
60°	28318.3	31575.1	32343.6	31639.5	28040.0	27516.6	31508.7	31066.2
62.5°	29415.0	32287.5	32827.6	32069.5	29338.2	29381.8	31749.6	30760.9
65°	28924.8	30486.8	30661.2	30598.9	29003.7	30463.9	30883.5	29350.6
67.5°	26241.3	25933.9	26226.7	26631.8	26137.4	29039.1	28484.5	26278.7
70°	21514.0	19825.3	20409.0	20681.1	20905.4	24988.8	24723.0	21403.9
72.5°	16213.4	13889.1	14350.2	14294.2	15332.7	20043.4	19227.1	15737.7
75°	11488.1	9417.3	9475.4	9452.6	10698.8	15681.6	13922.4	10767.4
77.5°	8038.1	6823.1	6854.2	6983.0	7192.8	11826.6	9946.9	7865.7
80°	5527.0	5178.1	5350.4	5360.8	4984.9	7944.7	7348.6	6312.1
82.5°	4116.7	3599.5	3558.0	3618.2	3906.9	6436.7	5647.5	4378.4
85°	3371.0	2131.0	1713.6	2147.7	3462.4	6374.4	3751.1	2309.7
87.5°	1898.4	1011.5	456.9	847.4	1381.2	4220.5	1084.2	294.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)