

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: P193077

Luminaire Tested: **GLEON-AF-09-LED-E1-SLR-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193077
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-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 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: 45229 lumens
Efficiency: N/A
Efficacy: 90.3 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



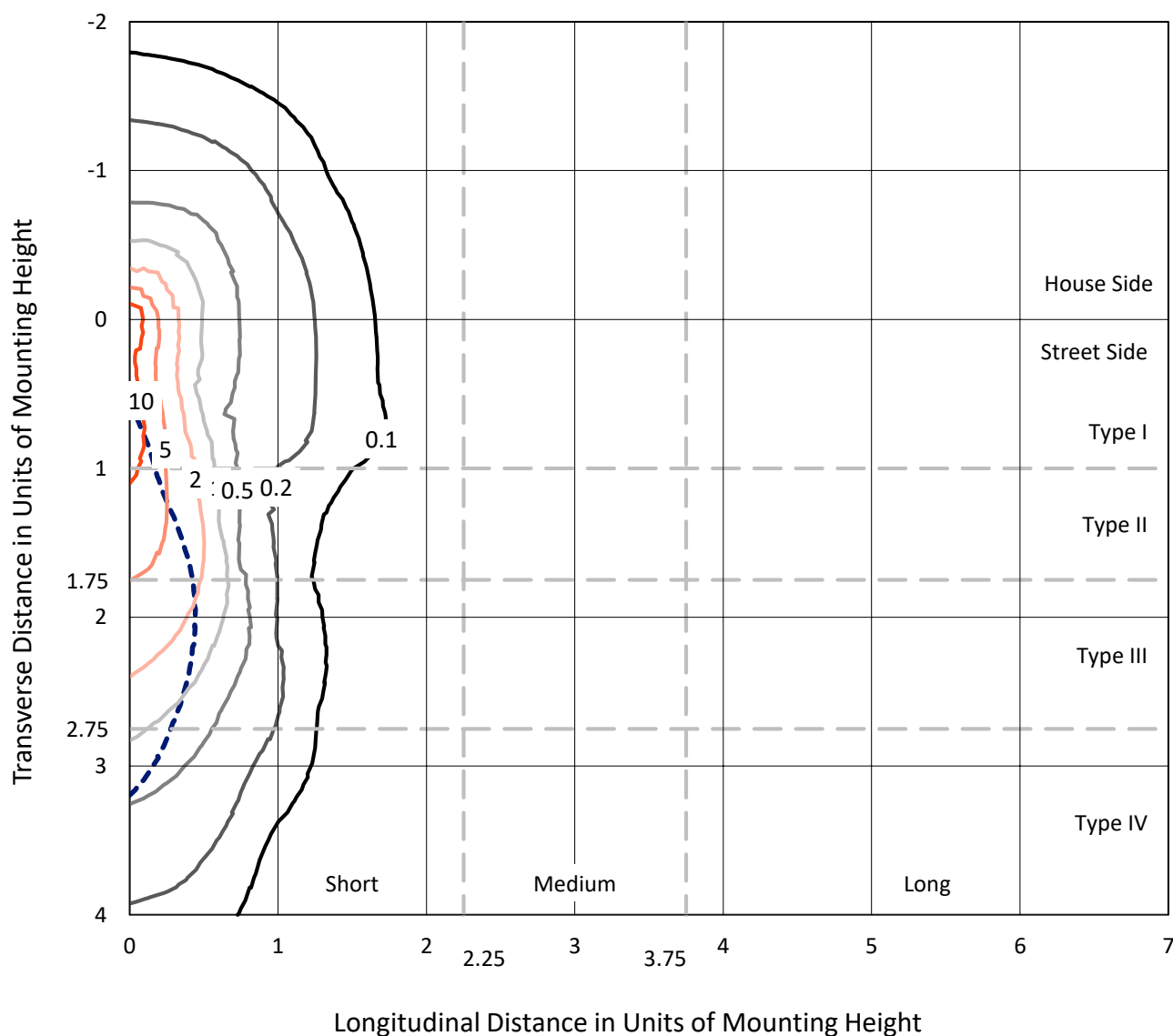
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

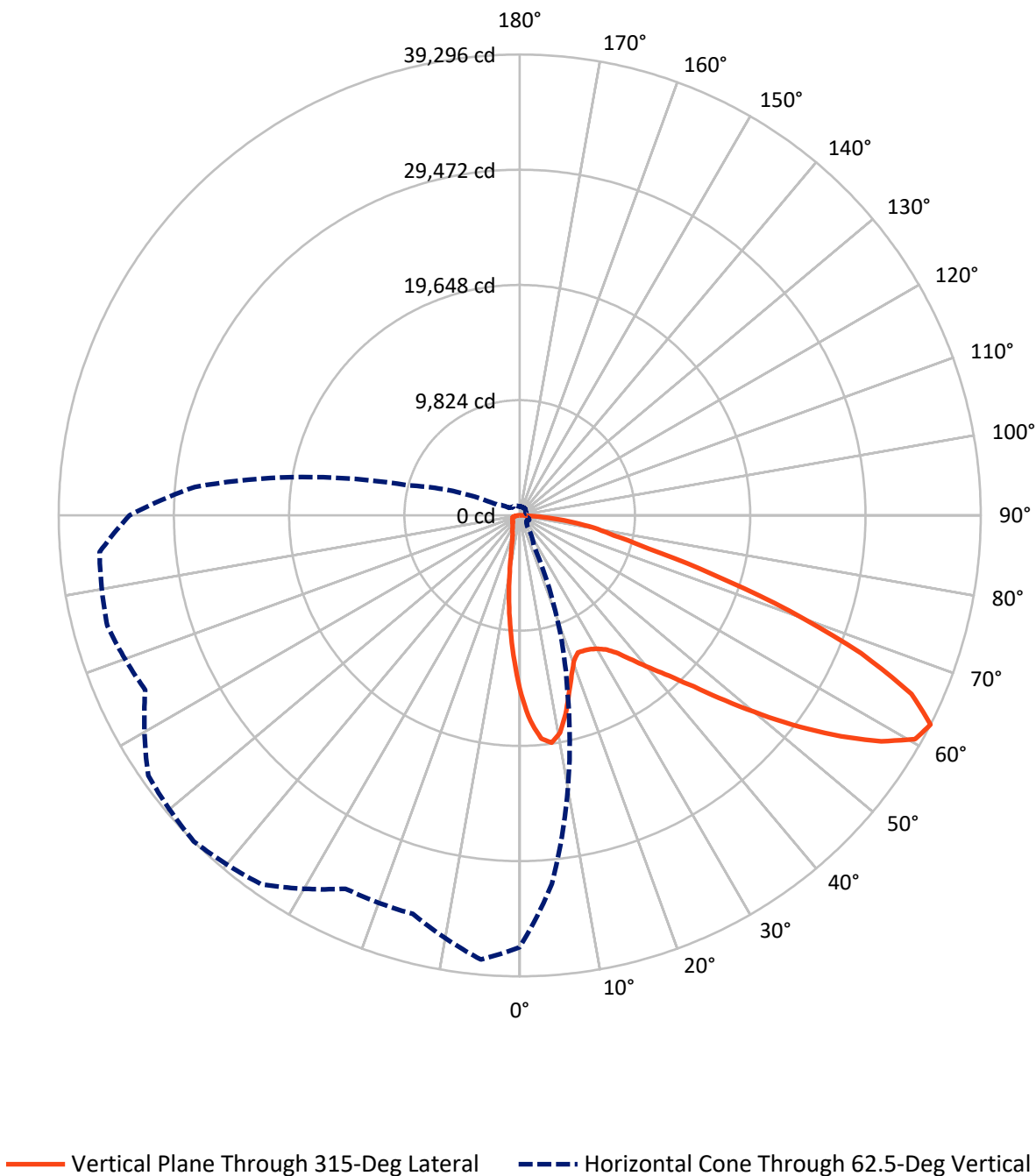


Based on 30 foot mounting height. Maximum calculated value = 17 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7484.8	0.0	7484.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	37744.2	0.0	37744.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	45229.0	0.0	45229.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1112.4	2.5
10°-20°	2039.8	4.5
20°-30°	2974.0	6.6
30°-40°	4580.4	10.1
40°-50°	6741.2	14.9
50°-60°	9887.8	21.9
60°-70°	11053.2	24.4
70°-80°	5411.5	12.0
80°-90°	1428.8	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°	45229.0	100.0
0°-180°	45229.0	100.0

Coefficient of Utilization



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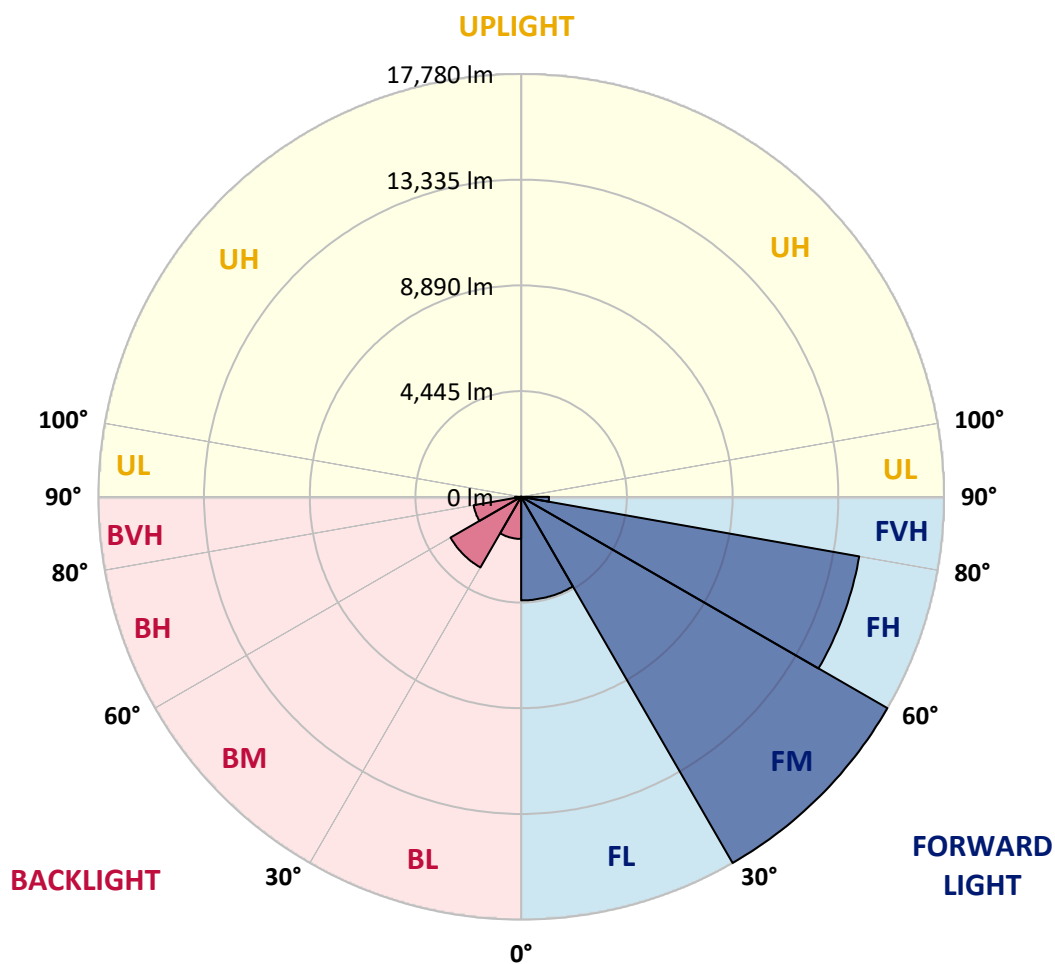
CATALOG NUMBER: GLEON-AF-09-LED-E1-SLR-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4355.4	9.6			
FM	(30°-60°)	17779.9	39.3			
FH	(60°-80°)	14435.5	31.9			G5
FVH	(80°-90°)	1173.4	2.6			G5
BL	(0°-30°)	1770.8	3.9	B3/2500		
BM	(30°-60°)	3429.5	7.6	B3/5000		
BH	(60°-80°)	2029.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	255.4	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°	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8
2.5°	15877.4	15554.2	15017.2	14457.8	14117.2	13719.3	13408.7	13135.1	12588.1	12481.2	12578.2
5°	14930.2	14281.3	13269.3	12250.0	11571.2	10842.8	10275.9	9820.9	9127.2	9005.3	9152.1
7.5°	13411.1	12635.4	11297.7	9997.4	9037.7	8127.7	7516.1	7028.7	6486.7	6253.0	6267.9
10°	12100.8	11225.7	9644.4	8229.6	7444.0	6829.9	6315.1	5815.5	5266.0	4905.4	4806.0
12.5°	11367.4	10360.4	8537.9	7274.9	6546.4	5900.0	5345.5	4811.0	4224.2	3856.2	3751.9
15°	11240.6	10146.6	8122.8	6663.2	5750.8	4932.8	4278.9	3682.2	3078.1	2779.7	2717.5
17.5°	11790.0	10529.5	7988.5	6118.7	5002.4	3993.0	3190.0	2523.6	2031.3	1882.1	1869.7
20°	12844.2	11265.4	7971.1	5606.6	4264.0	3080.6	2222.8	1737.9	1521.7	1479.4	1481.9
22.5°	14323.6	12406.6	8184.9	5221.2	3585.3	2297.2	1670.8	1454.5	1370.0	1330.1	1330.1
25°	16238.0	13978.0	8677.2	4940.2	2996.0	1834.9	1474.4	1345.1	1265.5	1238.1	1243.2
27.5°	18092.8	15507.0	9249.1	4719.0	2610.6	1665.7	1397.3	1280.4	1210.8	1183.5	1196.0
30°	19539.8	16864.6	9726.4	4418.1	2414.2	1618.5	1424.6	1305.3	1205.9	1163.6	1166.2
32.5°	20738.2	18053.0	10126.7	4201.9	2240.2	1387.4	1228.2	1176.0	1163.6	1113.9	1089.0
35°	22269.8	19348.4	10395.3	4206.8	2158.1	1238.1	1094.0	1002.0	934.8	877.7	877.7
37.5°	24064.9	20835.2	10681.1	4264.0	2128.3	1151.1	1046.7	954.7	892.5	837.9	827.9
40°	25840.1	22292.1	10942.2	4318.7	2110.9	1098.9	1009.4	924.9	867.7	813.0	798.1
42.5°	27349.2	23490.5	11175.9	4346.0	2051.3	1094.0	982.1	905.0	850.4	790.6	775.7
45°	28465.7	24495.0	11427.0	4388.3	1991.6	1113.9	982.1	902.5	835.4	778.3	763.2
47.5°	29462.7	25673.5	11847.2	4388.3	1919.4	1076.5	1014.4	905.0	832.9	773.2	760.8
50°	30797.8	27289.5	12642.8	4286.3	1817.5	1036.8	1069.1	895.1	810.4	763.2	748.4
52.5°	32637.6	29360.7	13905.9	4109.9	1660.8	959.8	1061.7	890.1	788.2	738.5	721.0
55°	34813.2	31578.4	15283.3	3903.5	1427.2	905.0	1024.3	877.7	763.2	708.5	691.2
57.5°	36511.2	33105.0	16253.0	3585.3	1223.2	875.1	907.5	865.3	733.4	676.4	661.3
60°	37187.6	33045.4	16518.9	3160.1	1123.8	850.4	793.1	969.6	708.5	651.4	634.0
62.5°	36822.0	31518.8	15773.1	2861.7	1101.5	818.1	743.4	897.6	688.7	634.0	609.1
65°	35133.9	28813.8	13796.5	2782.2	1166.2	785.7	711.1	703.6	661.3	609.1	584.3
67.5°	31456.7	24770.9	11046.6	2789.6	1248.1	753.4	678.7	644.0	624.1	581.8	559.4
70°	25621.3	19584.6	8234.7	2809.5	1290.4	716.0	644.0	606.6	584.3	542.0	527.0
72.5°	18838.7	15094.2	5982.1	2680.2	1297.9	673.8	596.7	564.5	542.0	497.2	484.8
75°	12889.0	11546.4	4149.6	2220.2	1131.3	614.1	544.5	514.6	499.8	445.0	437.6
77.5°	9415.6	8667.2	2655.3	1648.4	872.7	539.5	479.8	457.5	447.5	387.9	377.9
80°	7555.9	6857.2	1660.8	1128.7	638.9	452.6	402.7	390.4	380.4	320.7	313.2
82.5°	5241.1	4592.1	1066.6	733.4	479.8	350.6	318.3	313.2	298.4	243.6	236.2
85°	2764.8	2493.8	676.4	499.8	348.1	241.1	221.2	221.2	213.8	161.6	156.7
87.5°	353.0	574.3	343.1	261.0	191.4	107.0	107.0	104.5	111.9	92.0	79.5
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°	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8
2.5°	12349.5	12468.7	12354.4	12361.9	12488.7	12866.6	13038.1	13179.8	13331.5	13431.0	13475.7
5°	8950.6	9229.1	9323.6	9522.5	9815.9	10298.2	10489.7	10629.0	10720.9	10775.5	10798.0
7.5°	6121.2	6290.4	6479.3	6800.0	7439.0	7722.5	7849.1	7817.0	7712.5	7675.3	7637.9
10°	4614.6	4547.5	4512.6	4689.2	5206.3	5492.3	5581.7	5494.7	5437.5	5450.0	5512.1
12.5°	3575.3	3458.5	3316.7	3296.8	3637.5	3893.6	3950.7	3955.7	4060.1	4152.1	4288.9
15°	2605.7	2593.2	2523.6	2481.3	2675.2	2884.1	2908.9	2953.8	3048.3	3115.3	3234.6
17.5°	1837.4	1904.5	1959.2	1986.6	2133.3	2282.4	2255.1	2232.7	2215.3	2215.3	2272.5
20°	1481.9	1526.6	1596.2	1675.8	1824.9	1929.4	1862.3	1772.7	1708.0	1688.2	1695.7
22.5°	1335.1	1370.0	1409.8	1479.4	1613.6	1685.8	1613.6	1549.0	1484.3	1461.9	1454.5
25°	1260.6	1305.3	1342.6	1394.8	1494.2	1544.0	1474.4	1427.2	1387.4	1360.0	1340.1
27.5°	1218.2	1258.1	1268.1	1292.9	1377.4	1422.1	1387.4	1367.5	1342.6	1317.7	1292.9
30°	1173.6	1166.2	1148.7	1151.1	1218.2	1263.0	1260.6	1265.5	1263.0	1255.6	1250.6
32.5°	1071.7	1056.6	1041.8	1056.6	1118.9	1158.5	1161.1	1171.0	1171.0	1168.5	1188.4
35°	892.5	920.0	937.3	982.1	1056.6	1091.5	1076.5	1051.7	1007.0	979.6	977.1
37.5°	825.5	830.4	860.3	922.3	1004.4	1036.8	1014.4	957.2	927.4	922.3	929.9
40°	793.1	798.1	815.5	872.7	954.7	987.0	967.2	924.9	897.6	895.1	907.5
42.5°	770.8	775.7	785.7	825.5	892.5	932.3	934.8	905.0	872.7	875.1	887.6
45°	758.4	760.8	758.4	778.3	840.4	887.6	907.5	887.6	860.3	865.3	880.2
47.5°	755.8	748.4	738.5	743.4	808.1	855.3	880.2	872.7	860.3	865.3	877.7
50°	745.9	728.4	716.0	713.6	778.3	827.9	850.4	850.4	855.3	865.3	877.7
52.5°	716.0	696.2	696.2	688.7	758.4	805.6	820.4	822.9	830.4	847.9	865.3
55°	678.7	671.3	678.7	666.4	743.4	788.2	795.6	800.6	805.6	820.4	845.3
57.5°	646.5	636.6	653.9	648.9	731.0	770.8	770.8	780.6	780.6	800.6	820.4
60°	629.0	609.1	616.6	621.5	713.6	755.8	750.8	760.8	765.8	783.2	798.1
62.5°	606.6	589.2	589.2	601.7	693.7	733.4	731.0	738.5	758.4	763.2	778.3
65°	579.3	571.9	564.5	579.3	673.8	708.5	711.1	721.0	738.5	743.4	755.8
67.5°	552.0	554.5	539.5	554.5	656.4	683.8	683.8	703.6	711.1	721.0	733.4
70°	522.1	524.7	512.2	529.6	644.0	656.4	653.9	681.2	686.2	693.7	706.2
72.5°	484.8	484.8	479.8	504.7	624.1	629.0	624.1	646.5	648.9	656.4	661.3
75°	445.0	445.0	440.1	474.8	611.7	599.2	584.3	601.7	606.6	611.7	611.7
77.5°	392.8	397.8	397.8	440.1	569.4	586.7	537.0	547.0	554.5	556.9	549.5
80°	328.3	340.7	345.6	400.3	477.4	542.0	479.8	487.3	489.8	489.8	479.8
82.5°	251.1	273.4	285.9	345.6	365.5	454.9	417.7	425.1	417.7	402.7	397.8
85°	174.0	203.9	218.8	263.6	276.0	350.6	348.1	348.1	333.1	313.2	310.8
87.5°	94.5	111.9	121.9	156.7	188.9	236.2	256.1	248.7	236.2	223.8	226.2
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°	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8
2.5°	13709.5	14047.6	14587.1	14999.8	15415.1	15815.4	16248.0	16578.7	16859.6	16968.9	17302.2
5°	11024.3	11446.9	11956.6	12876.5	13527.9	14246.6	15076.9	16175.9	16598.5	17182.7	18140.0
7.5°	7794.5	8177.4	8997.9	9741.3	10663.7	11680.6	12801.9	14318.5	14873.0	15810.4	17369.3
10°	5820.5	6265.5	6924.3	7550.9	8363.9	9403.2	10691.1	12386.7	13060.6	14077.4	15872.5
12.5°	4689.2	5213.8	5912.4	6501.7	7130.7	7864.2	9114.7	10974.5	11877.0	12767.2	14582.2
15°	3602.6	4152.1	4801.1	5549.4	6243.1	7033.8	8344.0	10377.8	11417.0	12344.4	13893.4
17.5°	2493.8	2963.6	3781.7	4562.3	5450.0	6461.9	8130.2	10504.6	11745.3	12814.4	14012.7
20°	1767.7	2036.3	2707.6	3612.5	4719.0	5989.5	8090.4	11170.8	12784.5	14005.3	14778.5
22.5°	1486.8	1586.2	1976.6	2807.0	4084.9	5636.4	8229.6	12105.8	14186.8	15745.7	15999.3
25°	1355.1	1414.7	1618.5	2202.8	3520.6	5380.4	8699.6	13498.1	15922.3	17486.2	17441.4
27.5°	1282.9	1345.1	1479.4	1859.7	3095.5	5221.2	9169.5	15149.1	17906.3	19375.7	18818.9
30°	1260.6	1345.1	1486.8	1752.8	2792.1	4970.1	9554.8	16598.5	19432.9	20651.2	19445.3
32.5°	1243.2	1255.6	1320.2	1511.7	2503.6	4676.8	9815.9	17898.9	20927.2	21864.5	20347.9
35°	1004.4	1066.6	1171.0	1355.1	2334.7	4500.2	9815.9	19020.2	22399.0	23090.2	21208.1
37.5°	967.2	1021.9	1113.9	1270.4	2240.2	4413.2	9619.5	20101.7	23903.3	24480.1	21916.8
40°	947.3	992.1	1079.1	1205.9	2200.4	4313.8	9333.6	21056.5	25372.6	25872.4	22578.1
42.5°	932.3	972.2	1054.3	1166.2	2148.1	4204.3	9102.3	21822.3	26648.2	27060.9	23209.6
45°	924.9	967.2	1056.6	1186.0	2043.7	4060.1	9025.3	22650.2	27697.3	28052.9	23893.4
47.5°	924.9	974.6	1069.1	1228.2	1919.4	3910.9	9266.4	23741.6	28689.4	28863.4	24698.8
50°	917.4	972.2	1103.9	1186.0	1737.9	3722.0	9833.4	25116.5	29763.5	29783.3	25718.2
52.5°	902.5	967.2	1188.4	1161.1	1529.1	3473.4	10599.1	26881.8	31352.2	31471.6	27314.5
55°	885.1	959.8	1166.2	1103.9	1357.5	3177.5	11225.7	29027.6	33584.8	33915.6	29661.4
57.5°	862.7	949.8	1128.7	1024.3	1245.7	2797.0	11451.9	30598.8	35143.8	35974.2	32307.0
60°	842.8	942.4	1019.4	977.1	1176.0	2476.4	11014.3	30288.1	35036.9	36827.0	34651.5
62.5°	822.9	949.8	929.9	947.3	1143.7	2270.0	9870.6	27799.3	33264.2	35946.9	36389.5
65°	800.6	882.6	877.7	922.3	1136.2	2187.9	8182.4	24067.3	29838.0	33164.7	36799.7
67.5°	770.8	815.5	840.4	890.1	1161.1	2115.8	6603.6	19853.1	25076.7	28995.2	34661.5
70°	738.5	775.7	803.0	850.4	1146.1	2083.5	5492.3	15656.2	19897.9	23764.0	30442.3
72.5°	696.2	728.4	753.4	798.1	1131.3	2066.1	4639.4	12608.0	14855.7	17652.7	24751.0
75°	646.5	676.4	693.7	738.5	1084.1	1892.1	3647.4	10668.7	11116.2	12279.8	19713.8
77.5°	589.2	611.7	626.5	676.4	959.8	1573.9	2637.9	8229.6	8632.5	8915.9	15114.2
80°	522.1	544.5	552.0	599.2	795.6	1230.7	1720.5	6078.9	6456.9	6521.5	9870.6
82.5°	445.0	467.4	467.4	512.2	651.4	885.1	1128.7	4164.5	4239.2	4457.9	6976.5
85°	358.1	375.5	375.5	397.8	504.7	661.3	775.7	2091.0	2068.6	2361.9	6044.2
87.5°	256.1	268.6	280.9	285.9	360.5	437.6	467.4	636.6	420.2	482.4	3881.1
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8
2.5°	17553.3	17695.0	17550.8	17446.3	16996.4	16625.9	16131.1	15877.4
5°	18868.5	19229.0	19107.1	18669.5	17729.8	16673.1	15472.2	14930.2
7.5°	18709.3	19547.2	19567.1	18749.2	17364.2	15807.8	14181.9	13411.1
10°	17471.2	18542.8	18848.7	18055.5	16586.1	14845.7	12981.0	12100.8
12.5°	16088.9	17138.1	17371.7	17098.3	15870.0	14122.2	12230.1	11367.4
15°	14957.6	15427.5	15705.9	15944.6	15255.9	13833.8	12187.9	11240.6
17.5°	14268.8	14216.6	14296.2	14711.4	14828.2	14164.5	12834.2	11790.0
20°	14020.2	13222.1	13202.3	13774.1	14626.9	14952.5	14097.2	12844.2
22.5°	14156.9	12864.0	12700.0	13378.8	14733.8	16088.9	15753.2	14323.6
25°	14629.4	12893.9	12762.1	13418.5	15121.7	17299.7	17540.8	16238.0
27.5°	15372.8	13082.9	12908.9	13582.7	15636.3	18316.5	19301.0	18092.8
30°	16078.9	13411.1	13194.8	13905.9	16106.2	18719.3	20380.1	19539.8
32.5°	16936.6	14025.2	13644.9	14500.2	16688.0	19360.7	21342.3	20738.2
35°	17777.0	14900.3	14428.0	15417.6	17336.9	20158.9	22441.3	22269.8
37.5°	18699.4	16044.0	15653.7	16603.5	18224.6	20912.2	23843.5	24064.9
40°	19684.0	17560.7	17098.3	18333.9	19601.9	21857.0	25308.0	25840.1
42.5°	20676.0	19244.0	18692.0	19945.1	21116.1	22789.4	26561.2	27349.2
45°	21812.3	21071.4	20810.3	22165.3	22570.6	23677.0	27486.1	28465.7
47.5°	23135.0	23144.9	23565.1	24107.2	24037.5	24681.4	28415.9	29462.7
50°	24678.9	25733.2	26660.6	27021.1	25549.1	25760.5	29706.3	30797.8
52.5°	26533.7	28828.6	29977.3	29741.1	27177.7	27078.3	31749.9	32637.6
55°	28853.5	32105.5	33246.7	33077.7	29049.9	28873.4	34295.9	34813.2
57.5°	31538.7	35280.6	36329.8	35569.0	31297.6	30842.5	36401.9	36511.2
60°	33898.1	37796.7	38716.6	37873.7	33565.0	32938.5	37717.2	37187.6
62.5°	35211.0	38649.5	39295.9	38388.5	35118.9	35171.1	38005.5	36822.0
65°	34624.2	36493.9	36702.7	36628.1	34718.7	36466.5	36968.8	35133.9
67.5°	31411.9	31044.0	31394.4	31879.3	31287.6	34761.0	34097.1	31456.7
70°	25753.1	23731.6	24430.4	24756.1	25024.6	29912.7	29594.4	25621.3
72.5°	19408.0	16625.9	17177.8	17110.6	18353.8	23992.8	23015.7	18838.7
75°	13751.7	11272.9	11342.5	11315.1	12807.0	18771.5	16665.7	12889.0
77.5°	9621.9	8167.4	8204.9	8358.9	8610.0	14156.9	11906.8	9415.6
80°	6616.0	6198.4	6404.7	6417.2	5967.0	9510.0	8796.6	7555.9
82.5°	4927.8	4308.7	4259.0	4331.1	4676.8	7705.1	6760.2	5241.1
85°	4035.3	2550.9	2051.3	2570.9	4144.6	7630.4	4490.2	2764.8
87.5°	2272.5	1210.8	547.0	1014.4	1653.4	5052.1	1297.9	353.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)