

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: P193046

Luminaire Tested: **GLEON-AF-08-LED-E1-SLL-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193046
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-08-LED-E1-SLL-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA 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: 44479.4 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 511
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



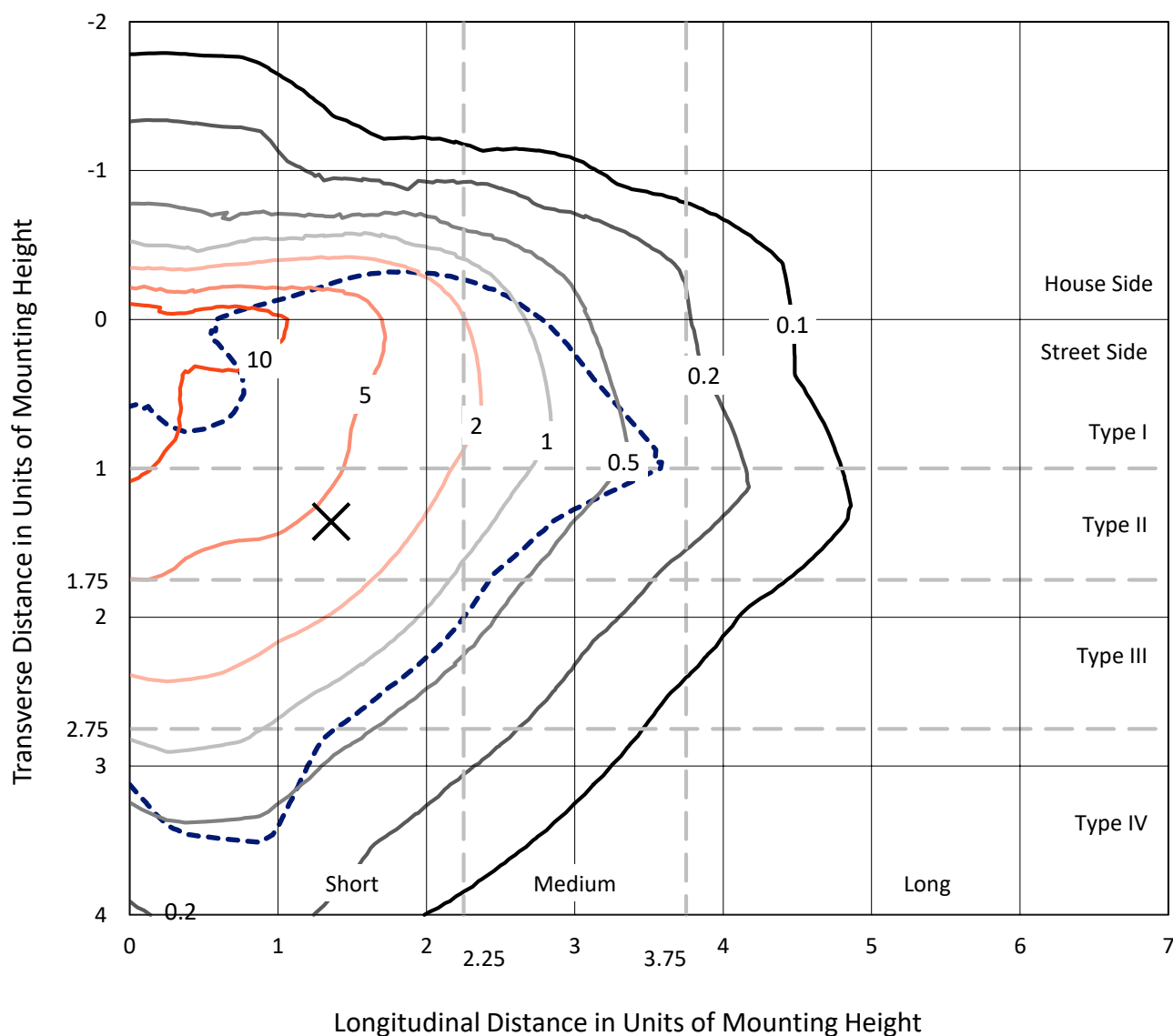
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

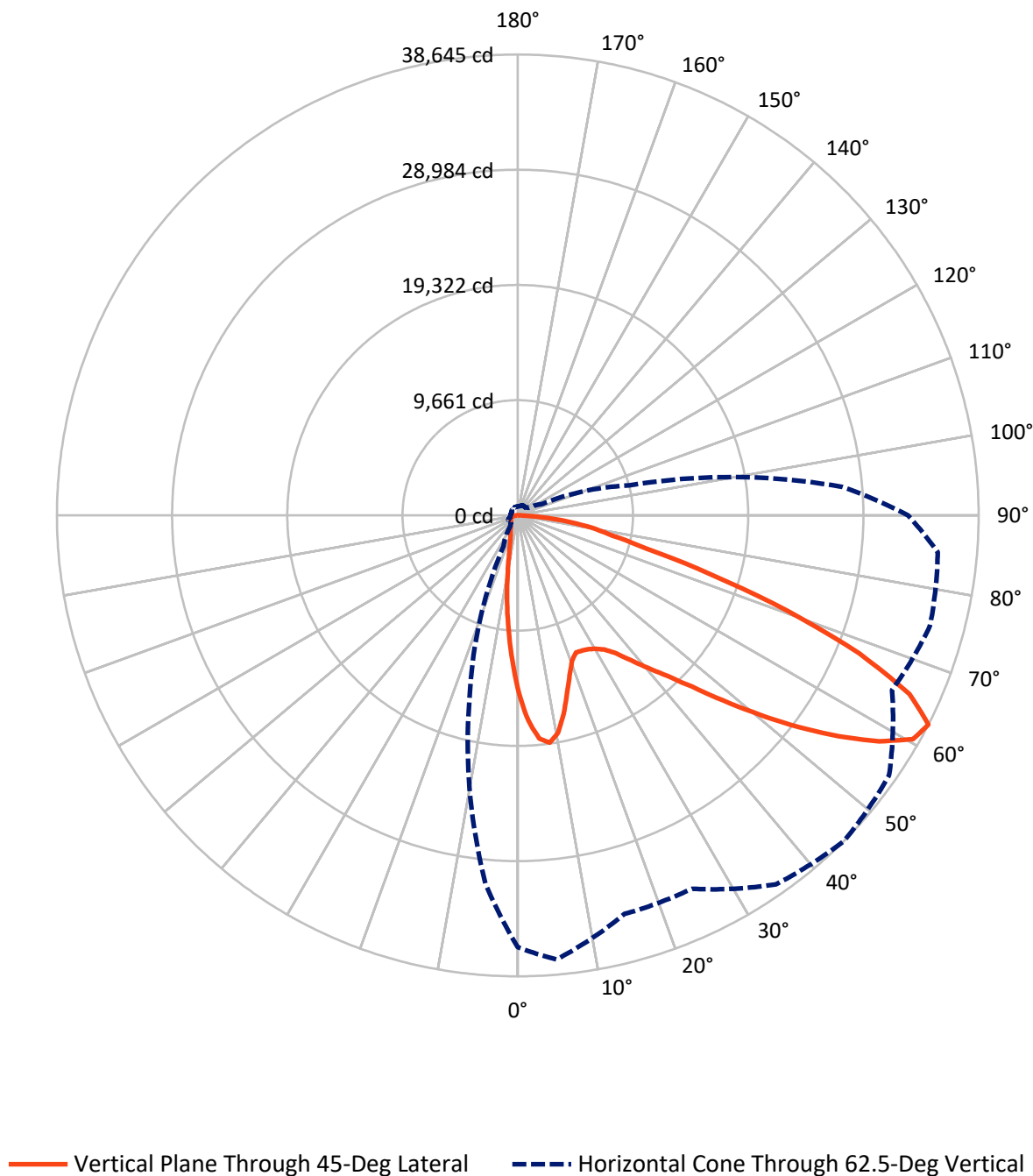


Based on 30 foot mounting height. Maximum calculated value = 19.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7360.7	0.0	7360.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	37118.7	0.0	37118.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	44479.4	0.0	44479.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1093.9	2.5
10°-20°	2006.0	4.5
20°-30°	2924.7	6.6
30°-40°	4504.5	10.1
40°-50°	6629.4	14.9
50°-60°	9724.0	21.9
60°-70°	10870.0	24.4
70°-80°	5321.8	12.0
80°-90°	1405.1	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°	44479.4	100.0
0°-180°	44479.4	100.0

Coefficient of Utilization



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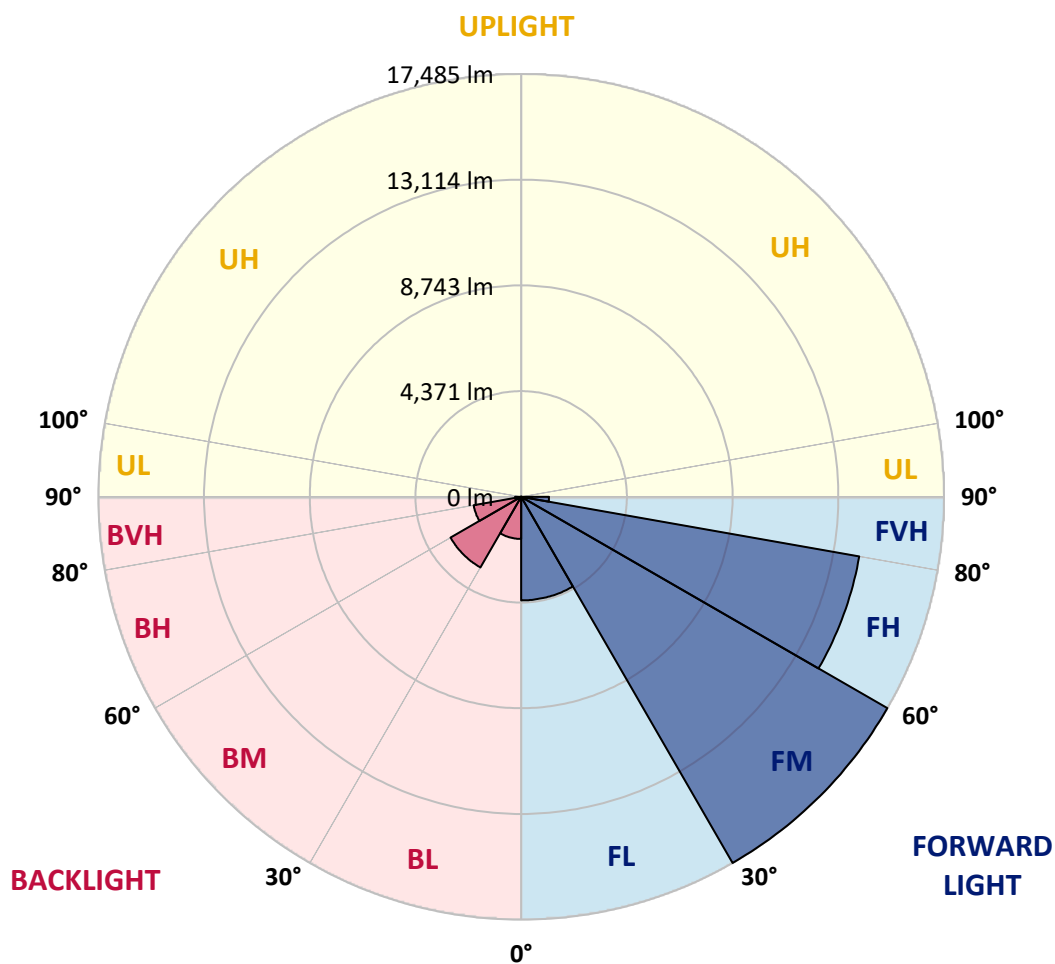
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4283.2	9.6			
FM	(30°-60°)	17485.3	39.3			
FH	(60°-80°)	14196.3	31.9			G5
FVH	(80°-90°)	1153.9	2.6			G5
BL	(0°-30°)	1741.4	3.9	B3/2500		
BM	(30°-60°)	3372.6	7.6	B3/5000		
BH	(60°-80°)	1995.5	4.5	B3/2500		G3/2500
BVH	(80°-90°)	251.2	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°	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5
2.5°	15614.4	15863.8	16350.3	16714.7	17157.2	17259.9	17401.7	17262.4	17015.4	16687.8	16580.2
5°	14682.8	15215.8	16396.7	17435.9	18360.3	18790.5	18910.4	18555.8	17839.5	16898.0	16323.5
7.5°	13188.8	13946.8	15546.0	17076.5	18438.5	19242.8	19223.3	18399.4	17081.5	15548.3	14626.5
10°	11900.3	12765.9	14599.7	16311.2	17756.3	18536.3	18235.5	17181.7	15609.5	13844.1	12844.1
12.5°	11179.0	12027.4	13888.2	15607.0	16814.9	17083.9	16854.0	15822.2	14340.5	12555.5	11680.3
15°	11054.3	11985.8	13604.5	15003.2	15680.4	15445.7	15171.8	14709.7	13663.2	12139.9	11227.9
17.5°	11594.6	12621.6	13929.7	14582.5	14467.7	14059.3	13981.1	14032.3	13780.6	12602.1	11550.7
20°	12631.4	13863.7	14704.7	14384.5	13545.9	12983.5	13003.1	13787.9	14533.6	13773.2	12572.7
22.5°	14086.1	15492.1	15822.2	14489.6	13157.1	12489.5	12650.9	13922.4	15734.2	15484.8	13951.8
25°	15968.9	17250.2	17013.0	14871.1	13196.3	12550.7	12680.3	14386.9	17152.4	17196.4	15658.4
27.5°	17793.0	18981.3	18013.0	15377.1	13357.6	12695.0	12866.1	15117.9	18506.9	19054.6	17609.6
30°	19216.0	20042.4	18409.1	15839.4	13675.4	12976.0	13188.8	15812.4	19123.1	20309.0	19110.9
32.5°	20394.6	20988.7	19039.9	16411.5	14259.8	13418.6	13792.8	16656.0	20010.7	21502.1	20580.4
35°	21900.7	22069.4	19824.9	17049.7	15162.0	14188.9	14653.5	17482.5	20856.6	22707.6	22027.9
37.5°	23666.1	23448.4	20565.7	17922.6	16328.4	15394.3	15778.2	18389.5	21553.5	24074.4	23507.1
40°	25411.8	24888.6	21494.8	19277.1	18030.2	16814.9	17269.7	19357.8	22203.8	25443.6	24952.2
42.5°	26896.1	26120.9	22411.7	20766.2	19614.5	18382.3	18925.1	20333.3	22825.0	26612.4	26206.5
45°	27993.9	27030.5	23284.7	22196.6	21798.0	20465.5	20722.2	21450.9	23497.4	27588.0	27238.4
47.5°	28974.4	27945.0	24272.5	23639.3	23707.6	23174.7	22761.4	22751.6	24289.5	28385.1	28213.9
50°	30287.4	29214.0	25333.6	25125.8	26573.3	26218.7	25306.7	24270.0	25292.1	29289.7	29270.2
52.5°	32096.8	31223.9	26629.5	26727.3	29248.2	29480.6	28350.9	26094.1	26861.8	30950.0	30832.6
55°	34236.2	33727.7	28394.9	28568.4	32529.5	32695.9	31573.5	28375.2	29169.9	33353.6	33028.3
57.5°	35906.2	35798.6	30331.4	30778.9	34979.6	35727.8	34696.0	31016.1	31771.6	35378.0	34561.4
60°	36571.3	37092.1	32392.6	33008.8	37246.2	38075.0	37170.3	33336.4	34077.3	36216.7	34456.3
62.5°	36211.9	37375.7	34588.3	34537.0	37752.3	38644.7	38009.0	34627.4	35786.4	35351.2	32712.9
65°	34551.6	36356.1	35862.1	34143.3	36021.1	36094.5	35889.2	34050.4	36189.8	32615.1	29343.5
67.5°	30935.3	33532.0	34184.8	30769.0	31351.0	30874.3	30529.4	30891.3	34087.0	28514.7	24661.2
70°	25196.8	29103.9	29417.0	24609.9	24345.8	24025.4	23338.5	25326.3	29937.7	23370.2	19568.2
72.5°	18526.4	22634.2	23595.2	18049.7	16827.1	16893.1	16350.3	19086.4	24340.9	17360.2	14609.5
75°	12675.3	16389.4	18460.5	12594.7	11127.6	11154.5	11086.1	13523.8	19387.2	12076.3	10932.1
77.5°	9259.6	11709.6	13922.4	8467.4	8220.4	8068.8	8032.0	9462.5	14863.7	8768.0	8489.3
80°	7430.6	8650.7	9352.5	5868.2	6310.9	6298.6	6095.6	6506.4	9707.0	6413.5	6349.9
82.5°	5154.3	6648.2	7577.3	4599.3	4259.4	4188.5	4237.4	4846.2	6860.9	4384.0	4168.9
85°	2718.9	4415.8	7504.0	4076.0	2528.3	2017.3	2508.7	3968.4	5944.0	2322.9	2034.3
87.5°	347.2	1276.3	4968.4	1626.0	997.6	537.9	1190.7	2234.8	3816.8	474.3	413.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5
2.5°	16303.8	15978.7	15553.3	15159.6	14751.3	14345.4	13814.7	13482.3	13252.4	13208.4	13110.6
5°	15907.8	14827.0	14010.5	13303.7	12663.1	11758.5	11257.2	10841.6	10619.0	10597.0	10543.3
7.5°	14081.4	12589.8	11487.1	10487.0	9579.9	8848.8	8041.9	7665.4	7511.3	7547.9	7584.7
10°	12181.5	10513.9	9247.3	8225.2	7425.8	6809.6	6161.6	5724.0	5420.8	5359.6	5347.4
12.5°	10792.6	8963.7	7733.8	7012.5	6394.0	5814.4	5127.3	4611.4	4217.7	4083.3	3992.9
15°	10205.8	8205.7	6917.2	6139.6	5457.5	4721.5	4083.3	3543.0	3181.1	3063.7	2997.6
17.5°	10330.6	7995.5	6354.8	5359.6	4486.7	3718.9	2914.6	2452.5	2234.8	2178.6	2178.6
20°	10985.8	7956.4	5890.2	4640.8	3552.7	2662.7	2002.5	1738.5	1667.6	1660.2	1679.8
22.5°	11905.2	8093.3	5543.0	4017.3	2760.6	1943.8	1560.0	1462.2	1430.4	1437.8	1459.7
25°	13274.5	8555.4	5291.2	3462.2	2166.4	1591.8	1391.3	1332.5	1317.8	1337.5	1364.3
27.5°	14897.9	9017.5	5134.7	3044.2	1828.9	1454.8	1322.8	1261.6	1271.4	1296.0	1320.4
30°	16323.5	9396.6	4887.7	2745.8	1723.8	1462.2	1322.8	1239.6	1229.9	1234.7	1242.1
32.5°	17602.2	9653.3	4599.3	2462.1	1486.6	1298.3	1234.7	1222.5	1168.7	1149.2	1151.6
35°	18704.9	9653.3	4425.6	2296.0	1332.5	1151.6	1049.0	987.8	960.9	963.3	990.2
37.5°	19768.6	9460.1	4340.0	2203.0	1249.5	1095.5	1004.9	951.1	914.5	907.2	912.0
40°	20707.5	9178.9	4242.2	2163.9	1185.9	1061.1	975.5	931.6	892.4	880.2	882.7
42.5°	21460.6	8951.5	4134.7	2112.5	1146.7	1036.8	956.0	916.9	872.9	860.6	858.2
45°	22274.8	8875.6	3992.9	2009.9	1166.4	1039.2	951.1	909.6	865.6	850.9	846.0
47.5°	23348.1	9112.9	3846.2	1887.6	1207.9	1051.4	958.5	909.6	863.1	850.9	846.0
50°	24700.4	9670.3	3660.3	1709.2	1166.4	1085.6	956.0	902.3	863.1	850.9	841.1
52.5°	26436.4	10423.5	3415.8	1503.7	1141.9	1168.7	951.1	887.6	850.9	833.7	816.7
55°	28546.5	11039.5	3124.9	1335.0	1085.6	1146.7	943.8	870.5	831.4	806.9	792.2
57.5°	30091.7	11262.1	2750.7	1225.1	1007.4	1110.1	934.0	848.4	806.9	787.3	767.8
60°	29786.2	10831.8	2435.3	1156.5	960.9	1002.5	926.7	828.8	784.9	770.2	753.2
62.5°	27338.7	9707.0	2232.3	1124.8	931.6	914.5	934.0	809.3	765.4	750.6	745.8
65°	23668.5	8046.8	2151.7	1117.4	907.2	863.1	867.9	787.3	743.3	731.1	726.2
67.5°	19524.1	6494.2	2080.8	1141.9	875.3	826.4	802.0	757.9	721.3	709.1	699.3
70°	15396.9	5401.2	2048.9	1127.2	836.3	789.7	762.8	726.2	694.5	682.3	674.9
72.5°	12399.1	4562.5	2031.9	1112.5	784.9	740.9	716.4	684.6	650.4	645.5	638.2
75°	10491.9	3587.0	1860.6	1066.1	726.2	682.3	665.1	635.7	601.5	601.5	596.5
77.5°	8093.3	2594.3	1547.7	943.8	665.1	616.1	601.5	579.5	540.4	547.7	545.2
80°	5978.2	1692.0	1210.4	782.4	589.2	542.8	535.5	513.5	471.9	481.8	481.8
82.5°	4095.6	1110.1	870.5	640.6	503.6	459.7	459.7	437.7	391.2	396.1	410.9
85°	2056.4	762.8	650.4	496.4	391.2	369.2	369.2	352.2	305.6	308.1	327.7
87.5°	625.9	459.7	430.4	354.5	281.3	276.3	264.1	251.9	222.5	220.0	232.2
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°	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5
2.5°	12961.4	12822.1	12653.4	12281.8	12157.1	12149.6	12262.1	12144.8	12369.8	12274.4	12379.5
5°	10452.9	10315.8	10127.6	9653.3	9364.7	9169.1	9076.1	8802.4	9000.3	8856.1	8975.9
7.5°	7687.4	7719.1	7594.5	7315.7	6687.3	6371.9	6186.0	6019.8	6164.1	6149.4	6379.2
10°	5403.6	5489.1	5401.2	5120.0	4611.4	4437.9	4472.1	4538.1	4726.3	4824.2	5178.7
12.5°	3890.1	3885.3	3829.0	3577.1	3242.2	3261.7	3401.1	3516.1	3689.6	3792.4	4154.2
15°	2904.7	2860.7	2836.3	2631.0	2440.2	2481.9	2550.2	2562.4	2672.5	2733.6	3027.0
17.5°	2195.7	2217.8	2244.6	2097.9	1953.7	1926.8	1872.9	1806.9	1838.8	1851.0	1997.7
20°	1743.3	1831.4	1897.4	1794.7	1647.9	1569.7	1501.3	1457.3	1457.3	1454.8	1496.5
22.5°	1523.3	1586.9	1657.8	1586.9	1454.8	1386.4	1347.2	1313.0	1308.2	1308.2	1347.2
25°	1403.4	1450.0	1518.3	1469.5	1371.8	1320.4	1283.7	1239.6	1222.5	1217.7	1244.6
27.5°	1344.8	1364.3	1398.6	1354.6	1271.4	1246.9	1237.3	1198.1	1176.0	1163.8	1190.7
30°	1244.6	1239.6	1242.1	1198.1	1132.0	1129.6	1146.7	1154.1	1146.7	1144.3	1185.9
32.5°	1151.6	1141.9	1139.5	1100.2	1039.2	1024.6	1039.2	1053.8	1071.0	1095.5	1144.3
35°	1034.2	1058.7	1073.4	1039.2	965.9	921.8	904.6	877.8	863.1	863.1	919.3
37.5°	941.4	997.6	1019.6	987.8	907.2	846.0	816.7	811.8	814.2	824.1	877.8
40°	909.6	951.1	970.7	938.9	858.2	802.0	784.9	780.0	784.9	799.6	853.4
42.5°	890.0	919.3	916.9	877.8	811.8	772.7	762.8	757.9	762.8	777.5	836.3
45°	872.9	892.4	872.9	826.4	765.4	745.8	748.2	745.8	750.6	765.4	821.5
47.5°	858.2	865.6	841.1	794.7	731.1	726.2	736.0	743.3	748.2	760.5	819.1
50°	836.3	836.3	814.2	765.4	701.8	704.1	716.4	733.5	736.0	750.6	797.0
52.5°	809.3	806.9	792.2	745.8	677.3	684.6	684.6	704.1	709.1	726.2	775.0
55°	787.3	782.4	775.0	731.1	655.3	667.5	660.2	667.5	679.7	696.8	750.6
57.5°	767.8	757.9	757.9	718.8	638.2	643.1	625.9	635.7	650.4	665.1	721.3
60°	748.2	738.4	743.3	701.8	611.3	606.4	599.1	618.6	623.6	640.6	696.8
62.5°	726.2	718.8	721.3	682.3	591.7	579.5	579.5	596.5	599.1	623.6	677.3
65°	709.1	699.3	696.8	662.6	569.7	555.0	562.3	569.7	574.6	599.1	650.4
67.5°	691.9	672.4	672.4	645.5	545.2	530.6	545.2	542.8	550.1	572.2	613.7
70°	670.0	643.1	645.5	633.2	520.8	503.6	515.9	513.5	518.3	533.0	574.6
72.5°	635.7	613.7	618.6	613.7	496.4	471.9	476.8	476.8	476.8	489.1	533.0
75°	591.7	574.6	589.2	601.5	467.0	432.7	437.7	437.7	430.4	437.7	491.4
77.5°	537.9	528.2	577.0	560.0	432.7	391.2	391.2	386.3	371.7	381.5	440.1
80°	479.2	471.9	533.0	469.5	393.7	339.9	335.0	322.8	308.1	315.4	374.1
82.5°	418.1	410.9	447.4	359.5	339.9	281.3	269.0	246.9	232.2	239.6	293.4
85°	342.3	342.3	344.7	271.4	259.2	215.1	200.5	171.2	154.0	159.0	210.4
87.5°	244.5	251.9	232.2	185.8	154.0	119.8	110.1	92.9	78.2	90.4	110.1
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°	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5
2.5°	12917.4	13186.4	13492.0	13883.2	14218.2	14768.3	15296.6	15614.4
5°	9658.1	10105.6	10663.0	11379.5	12047.0	13049.5	14044.6	14682.8
7.5°	6912.3	7391.5	7993.0	8887.9	9831.7	11110.5	12425.9	13188.8
10°	5719.0	6210.6	6716.7	7320.6	8093.3	9484.5	11039.5	11900.3
12.5°	4731.3	5256.9	5802.2	6437.9	7154.3	8396.5	10188.8	11179.0
15°	3621.2	4208.0	4851.1	5655.5	6552.9	7988.2	9978.4	11054.3
17.5°	2481.9	3137.1	3926.8	4919.5	6017.4	7856.1	10354.9	11594.6
20°	1709.2	2186.0	3029.4	4193.4	5513.7	7839.1	11078.7	12631.4
22.5°	1430.4	1643.2	2259.3	3525.8	5134.7	8049.2	12201.0	14086.1
25°	1322.8	1450.0	1804.5	2946.2	4858.4	8533.3	13746.4	15968.9
27.5°	1259.2	1374.2	1638.3	2567.4	4640.8	9095.8	15250.1	17793.0
30°	1283.7	1401.0	1591.8	2374.2	4344.9	9565.2	16585.1	19216.0
32.5°	1156.5	1207.9	1364.3	2203.0	4132.1	9958.9	17753.9	20394.6
35°	985.4	1075.8	1217.7	2122.4	4137.1	10223.0	19027.7	21900.7
37.5°	938.9	1029.3	1132.0	2093.0	4193.4	10504.0	20489.9	23666.1
40°	909.6	992.7	1080.7	2075.9	4247.1	10760.8	21922.8	25411.8
42.5°	890.0	965.9	1075.8	2017.3	4274.0	10990.7	23101.2	26896.1
45°	887.6	965.9	1095.5	1958.5	4315.6	11237.7	24089.1	27993.9
47.5°	890.0	997.6	1058.7	1887.6	4315.6	11650.9	25248.0	28974.4
50°	880.2	1051.4	1019.6	1787.4	4215.3	12433.2	26837.4	30287.4
52.5°	875.3	1044.1	943.8	1633.3	4041.7	13675.4	28874.2	32096.8
55°	863.1	1007.4	890.0	1403.4	3838.9	15030.0	31055.2	34236.2
57.5°	850.9	892.4	860.6	1203.0	3525.8	15983.5	32556.4	35906.2
60°	953.7	780.0	836.3	1105.1	3107.7	16245.2	32497.7	36571.3
62.5°	882.7	731.1	804.4	1083.2	2814.3	15511.6	30996.5	36211.9
65°	691.9	699.3	772.7	1146.7	2736.1	13567.9	28336.2	34551.6
67.5°	633.2	667.5	740.9	1227.4	2743.4	10863.5	24360.5	30935.3
70°	596.5	633.2	704.1	1269.0	2762.9	8098.2	19260.0	25196.8
72.5°	555.0	586.8	662.6	1276.3	2635.8	5882.8	14844.2	18526.4
75°	506.1	535.5	603.9	1112.5	2183.4	4080.9	11355.0	12675.3
77.5°	449.9	471.9	530.6	858.2	1621.1	2611.4	8523.7	9259.6
80°	383.8	396.1	445.0	628.4	1110.1	1633.3	6743.6	7430.6
82.5°	308.1	312.9	344.7	471.9	721.3	1049.0	4516.1	5154.3
85°	217.7	217.7	237.2	342.3	491.4	665.1	2452.5	2718.9
87.5°	102.7	105.1	105.1	188.3	256.8	337.4	564.9	347.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)