

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: P193086

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193086
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-SLR-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA 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: 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

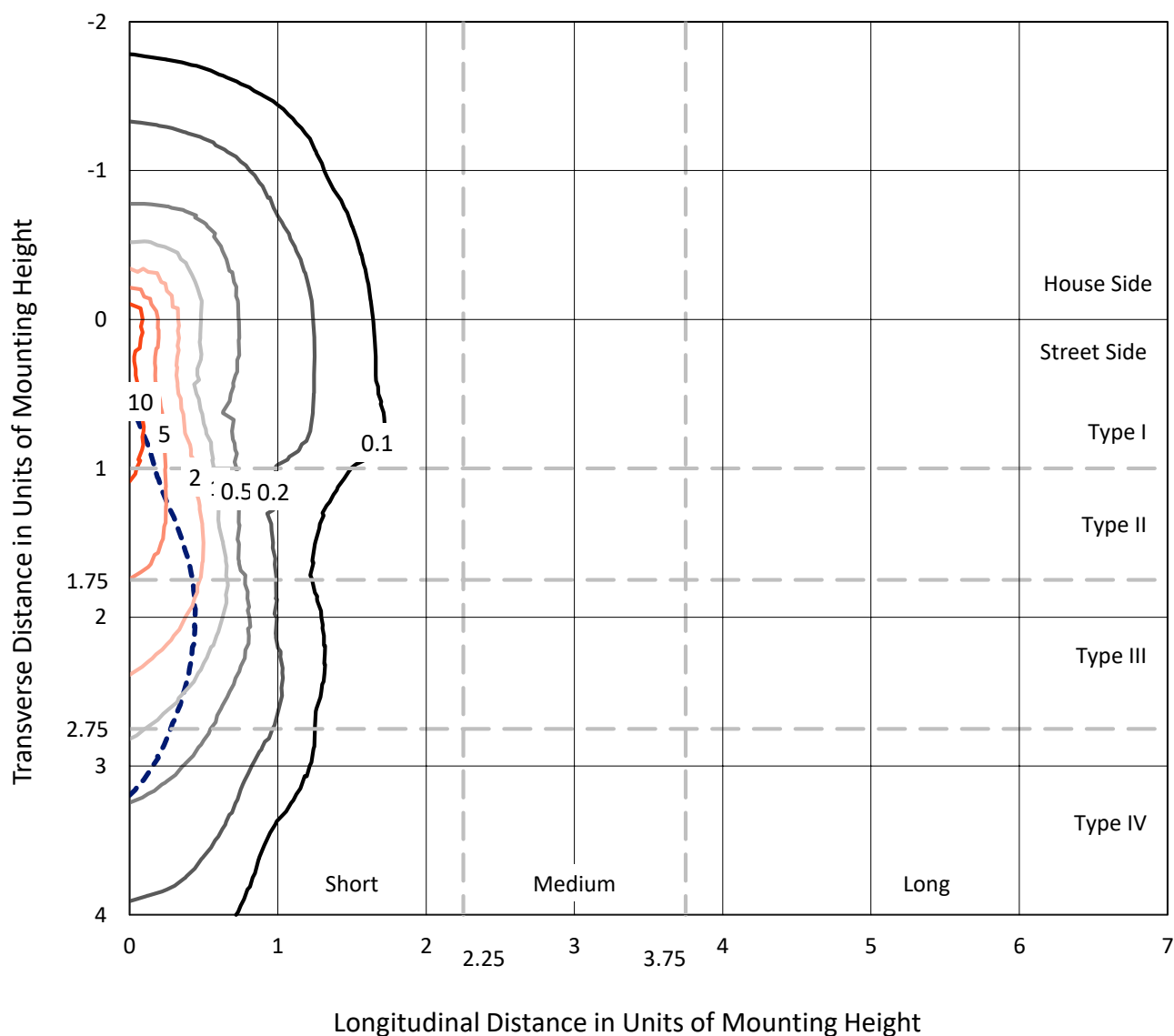


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

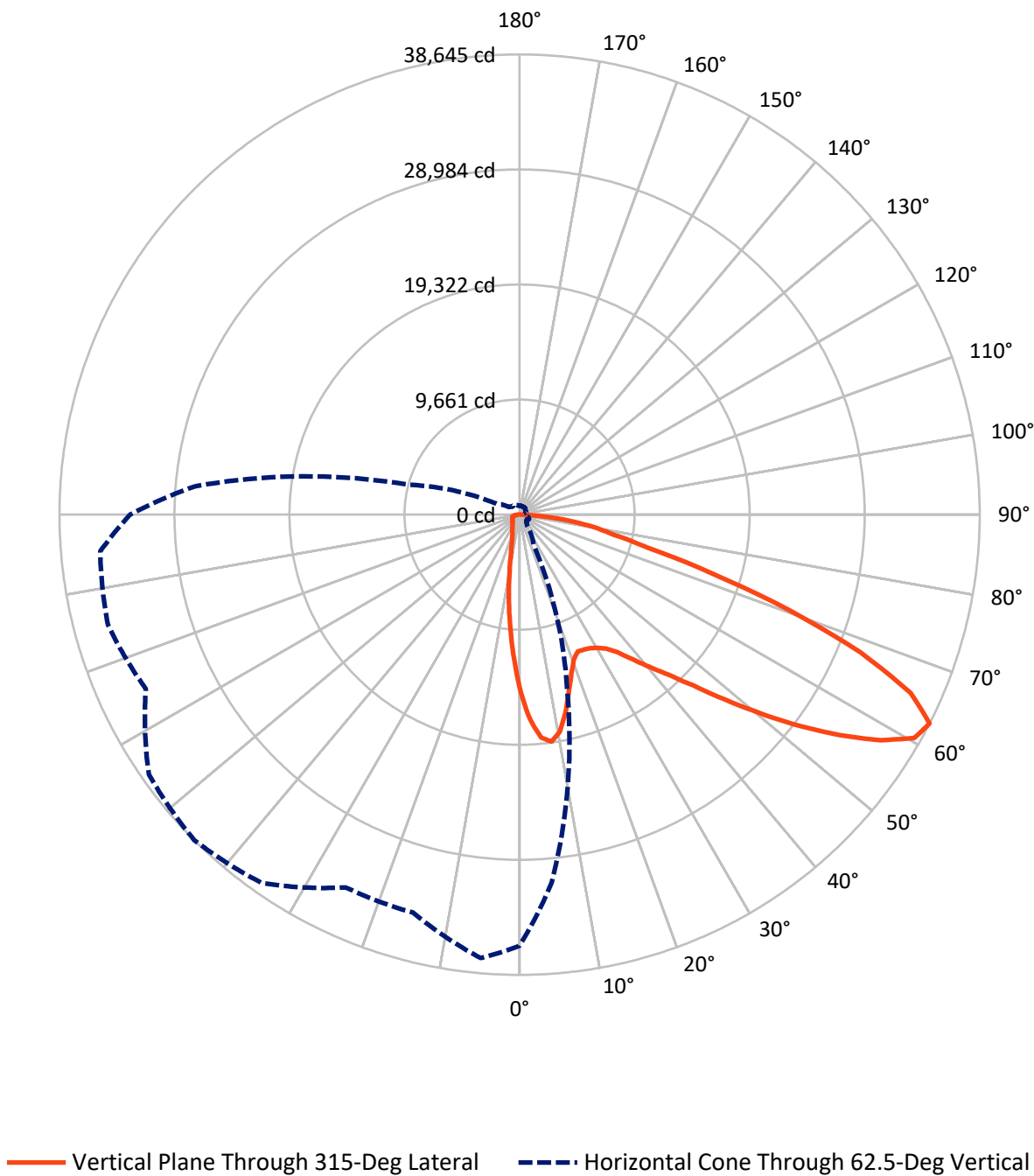


Based on 30 foot mounting height. Maximum calculated value = 16.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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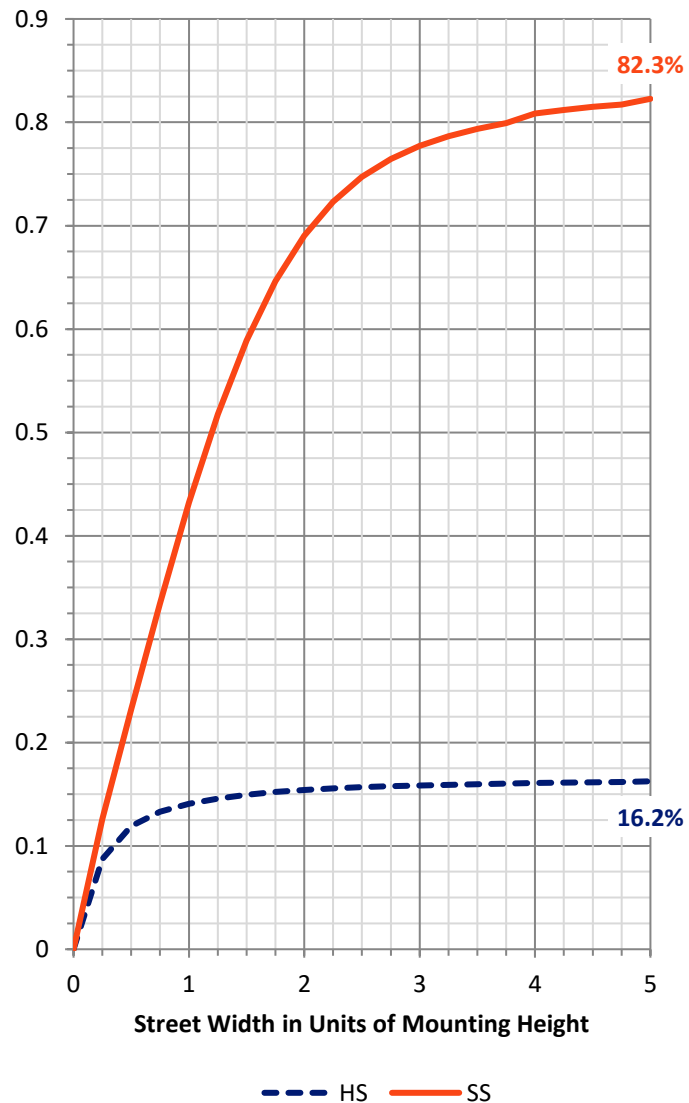
FLUX DISTRIBUTION:

		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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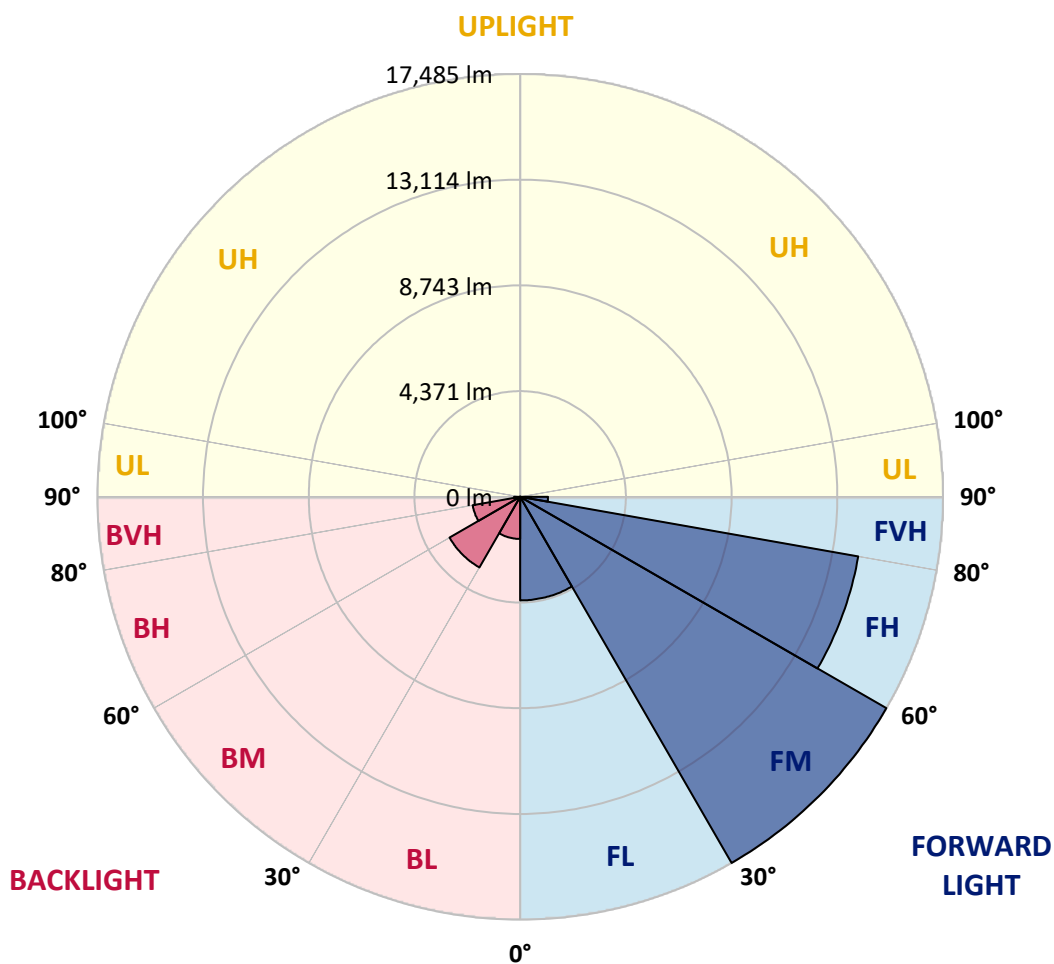
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

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	15296.6	14768.3	14218.2	13883.2	13492.0	13186.4	12917.4	12379.5	12274.4	12369.8
5°	14682.8	14044.6	13049.5	12047.0	11379.5	10663.0	10105.6	9658.1	8975.9	8856.1	9000.3
7.5°	13188.8	12425.9	11110.5	9831.7	8887.9	7993.0	7391.5	6912.3	6379.2	6149.4	6164.1
10°	11900.3	11039.5	9484.5	8093.3	7320.6	6716.7	6210.6	5719.0	5178.7	4824.2	4726.3
12.5°	11179.0	10188.8	8396.5	7154.3	6437.9	5802.2	5256.9	4731.3	4154.2	3792.4	3689.6
15°	11054.3	9978.4	7988.2	6552.9	5655.5	4851.1	4208.0	3621.2	3027.0	2733.6	2672.5
17.5°	11594.6	10354.9	7856.1	6017.4	4919.5	3926.8	3137.1	2481.9	1997.7	1851.0	1838.8
20°	12631.4	11078.7	7839.1	5513.7	4193.4	3029.4	2186.0	1709.2	1496.5	1454.8	1457.3
22.5°	14086.1	12201.0	8049.2	5134.7	3525.8	2259.3	1643.2	1430.4	1347.2	1308.2	1308.2
25°	15968.9	13746.4	8533.3	4858.4	2946.2	1804.5	1450.0	1322.8	1244.6	1217.7	1222.5
27.5°	17793.0	15250.1	9095.8	4640.8	2567.4	1638.3	1374.2	1259.2	1190.7	1163.8	1176.0
30°	19216.0	16585.1	9565.2	4344.9	2374.2	1591.8	1401.0	1283.7	1185.9	1144.3	1146.7
32.5°	20394.6	17753.9	9958.9	4132.1	2203.0	1364.3	1207.9	1156.5	1144.3	1095.5	1071.0
35°	21900.7	19027.7	10223.0	4137.1	2122.4	1217.7	1075.8	985.4	919.3	863.1	863.1
37.5°	23666.1	20489.9	10504.0	4193.4	2093.0	1132.0	1029.3	938.9	877.8	824.1	814.2
40°	25411.8	21922.8	10760.8	4247.1	2075.9	1080.7	992.7	909.6	853.4	799.6	784.9
42.5°	26896.1	23101.2	10990.7	4274.0	2017.3	1075.8	965.9	890.0	836.3	777.5	762.8
45°	27993.9	24089.1	11237.7	4315.6	1958.5	1095.5	965.9	887.6	821.5	765.4	750.6
47.5°	28974.4	25248.0	11650.9	4315.6	1887.6	1058.7	997.6	890.0	819.1	760.5	748.2
50°	30287.4	26837.4	12433.2	4215.3	1787.4	1019.6	1051.4	880.2	797.0	750.6	736.0
52.5°	32096.8	28874.2	13675.4	4041.7	1633.3	943.8	1044.1	875.3	775.0	726.2	709.1
55°	34236.2	31055.2	15030.0	3838.9	1403.4	890.0	1007.4	863.1	750.6	696.8	679.7
57.5°	35906.2	32556.4	15983.5	3525.8	1203.0	860.6	892.4	850.9	721.3	665.1	650.4
60°	36571.3	32497.7	16245.2	3107.7	1105.1	836.3	780.0	953.7	696.8	640.6	623.6
62.5°	36211.9	30996.5	15511.6	2814.3	1083.2	804.4	731.1	882.7	677.3	623.6	599.1
65°	34551.6	28336.2	13567.9	2736.1	1146.7	772.7	699.3	691.9	650.4	599.1	574.6
67.5°	30935.3	24360.5	10863.5	2743.4	1227.4	740.9	667.5	633.2	613.7	572.2	550.1
70°	25196.8	19260.0	8098.2	2762.9	1269.0	704.1	633.2	596.5	574.6	533.0	518.3
72.5°	18526.4	14844.2	5882.8	2635.8	1276.3	662.6	586.8	555.0	533.0	489.1	476.8
75°	12675.3	11355.0	4080.9	2183.4	1112.5	603.9	535.5	506.1	491.4	437.7	430.4
77.5°	9259.6	8523.7	2611.4	1621.1	858.2	530.6	471.9	449.9	440.1	381.5	371.7
80°	7430.6	6743.6	1633.3	1110.1	628.4	445.0	396.1	383.8	374.1	315.4	308.1
82.5°	5154.3	4516.1	1049.0	721.3	471.9	344.7	312.9	308.1	293.4	239.6	232.2
85°	2718.9	2452.5	665.1	491.4	342.3	237.2	217.7	217.7	210.4	159.0	154.0
87.5°	347.2	564.9	337.4	256.8	188.3	105.1	105.1	102.7	110.1	90.4	78.2
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°	12144.8	12262.1	12149.6	12157.1	12281.8	12653.4	12822.1	12961.4	13110.6	13208.4	13252.4
5°	8802.4	9076.1	9169.1	9364.7	9653.3	10127.6	10315.8	10452.9	10543.3	10597.0	10619.0
7.5°	6019.8	6186.0	6371.9	6687.3	7315.7	7594.5	7719.1	7687.4	7584.7	7547.9	7511.3
10°	4538.1	4472.1	4437.9	4611.4	5120.0	5401.2	5489.1	5403.6	5347.4	5359.6	5420.8
12.5°	3516.1	3401.1	3261.7	3242.2	3577.1	3829.0	3885.3	3890.1	3992.9	4083.3	4217.7
15°	2562.4	2550.2	2481.9	2440.2	2631.0	2836.3	2860.7	2904.7	2997.6	3063.7	3181.1
17.5°	1806.9	1872.9	1926.8	1953.7	2097.9	2244.6	2217.8	2195.7	2178.6	2178.6	2234.8
20°	1457.3	1501.3	1569.7	1647.9	1794.7	1897.4	1831.4	1743.3	1679.8	1660.2	1667.6
22.5°	1313.0	1347.2	1386.4	1454.8	1586.9	1657.8	1586.9	1523.3	1459.7	1437.8	1430.4
25°	1239.6	1283.7	1320.4	1371.8	1469.5	1518.3	1450.0	1403.4	1364.3	1337.5	1317.8
27.5°	1198.1	1237.3	1246.9	1271.4	1354.6	1398.6	1364.3	1344.8	1320.4	1296.0	1271.4
30°	1154.1	1146.7	1129.6	1132.0	1198.1	1242.1	1239.6	1244.6	1242.1	1234.7	1229.9
32.5°	1053.8	1039.2	1024.6	1039.2	1100.2	1139.5	1141.9	1151.6	1151.6	1149.2	1168.7
35°	877.8	904.6	921.8	965.9	1039.2	1073.4	1058.7	1034.2	990.2	963.3	960.9
37.5°	811.8	816.7	846.0	907.2	987.8	1019.6	997.6	941.4	912.0	907.2	914.5
40°	780.0	784.9	802.0	858.2	938.9	970.7	951.1	909.6	882.7	880.2	892.4
42.5°	757.9	762.8	772.7	811.8	877.8	916.9	919.3	890.0	858.2	860.6	872.9
45°	745.8	748.2	745.8	765.4	826.4	872.9	892.4	872.9	846.0	850.9	865.6
47.5°	743.3	736.0	726.2	731.1	794.7	841.1	865.6	858.2	846.0	850.9	863.1
50°	733.5	716.4	704.1	701.8	765.4	814.2	836.3	836.3	841.1	850.9	863.1
52.5°	704.1	684.6	684.6	677.3	745.8	792.2	806.9	809.3	816.7	833.7	850.9
55°	667.5	660.2	667.5	655.3	731.1	775.0	782.4	787.3	792.2	806.9	831.4
57.5°	635.7	625.9	643.1	638.2	718.8	757.9	757.9	767.8	767.8	787.3	806.9
60°	618.6	599.1	606.4	611.3	701.8	743.3	738.4	748.2	753.2	770.2	784.9
62.5°	596.5	579.5	579.5	591.7	682.3	721.3	718.8	726.2	745.8	750.6	765.4
65°	569.7	562.3	555.0	569.7	662.6	696.8	699.3	709.1	726.2	731.1	743.3
67.5°	542.8	545.2	530.6	545.2	645.5	672.4	672.4	691.9	699.3	709.1	721.3
70°	513.5	515.9	503.6	520.8	633.2	645.5	643.1	670.0	674.9	682.3	694.5
72.5°	476.8	476.8	471.9	496.4	613.7	618.6	613.7	635.7	638.2	645.5	650.4
75°	437.7	437.7	432.7	467.0	601.5	589.2	574.6	591.7	596.5	601.5	601.5
77.5°	386.3	391.2	391.2	432.7	560.0	577.0	528.2	537.9	545.2	547.7	540.4
80°	322.8	335.0	339.9	393.7	469.5	533.0	471.9	479.2	481.8	481.8	471.9
82.5°	246.9	269.0	281.3	339.9	359.5	447.4	410.9	418.1	410.9	396.1	391.2
85°	171.2	200.5	215.1	259.2	271.4	344.7	342.3	342.3	327.7	308.1	305.6
87.5°	92.9	110.1	119.8	154.0	185.8	232.2	251.9	244.5	232.2	220.0	222.5
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):

	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°	13482.3	13814.7	14345.4	14751.3	15159.6	15553.3	15978.7	16303.8	16580.2	16687.8	17015.4
5°	10841.6	11257.2	11758.5	12663.1	13303.7	14010.5	14827.0	15907.8	16323.5	16898.0	17839.5
7.5°	7665.4	8041.9	8848.8	9579.9	10487.0	11487.1	12589.8	14081.4	14626.5	15548.3	17081.5
10°	5724.0	6161.6	6809.6	7425.8	8225.2	9247.3	10513.9	12181.5	12844.1	13844.1	15609.5
12.5°	4611.4	5127.3	5814.4	6394.0	7012.5	7733.8	8963.7	10792.6	11680.3	12555.5	14340.5
15°	3543.0	4083.3	4721.5	5457.5	6139.6	6917.2	8205.7	10205.8	11227.9	12139.9	13663.2
17.5°	2452.5	2914.6	3718.9	4486.7	5359.6	6354.8	7995.5	10330.6	11550.7	12602.1	13780.6
20°	1738.5	2002.5	2662.7	3552.7	4640.8	5890.2	7956.4	10985.8	12572.7	13773.2	14533.6
22.5°	1462.2	1560.0	1943.8	2760.6	4017.3	5543.0	8093.3	11905.2	13951.8	15484.8	15734.2
25°	1332.5	1391.3	1591.8	2166.4	3462.2	5291.2	8555.4	13274.5	15658.4	17196.4	17152.4
27.5°	1261.6	1322.8	1454.8	1828.9	3044.2	5134.7	9017.5	14897.9	17609.6	19054.6	18506.9
30°	1239.6	1322.8	1462.2	1723.8	2745.8	4887.7	9396.6	16323.5	19110.9	20309.0	19123.1
32.5°	1222.5	1234.7	1298.3	1486.6	2462.1	4599.3	9653.3	17602.2	20580.4	21502.1	20010.7
35°	987.8	1049.0	1151.6	1332.5	2296.0	4425.6	9653.3	18704.9	22027.9	22707.6	20856.6
37.5°	951.1	1004.9	1095.5	1249.5	2203.0	4340.0	9460.1	19768.6	23507.1	24074.4	21553.5
40°	931.6	975.5	1061.1	1185.9	2163.9	4242.2	9178.9	20707.5	24952.2	25443.6	22203.8
42.5°	916.9	956.0	1036.8	1146.7	2112.5	4134.7	8951.5	21460.6	26206.5	26612.4	22825.0
45°	909.6	951.1	1039.2	1166.4	2009.9	3992.9	8875.6	22274.8	27238.4	27588.0	23497.4
47.5°	909.6	958.5	1051.4	1207.9	1887.6	3846.2	9112.9	23348.1	28213.9	28385.1	24289.5
50°	902.3	956.0	1085.6	1166.4	1709.2	3660.3	9670.3	24700.4	29270.2	29289.7	25292.1
52.5°	887.6	951.1	1168.7	1141.9	1503.7	3415.8	10423.5	26436.4	30832.6	30950.0	26861.8
55°	870.5	943.8	1146.7	1085.6	1335.0	3124.9	11039.5	28546.5	33028.3	33353.6	29169.9
57.5°	848.4	934.0	1110.1	1007.4	1225.1	2750.7	11262.1	30091.7	34561.4	35378.0	31771.6
60°	828.8	926.7	1002.5	960.9	1156.5	2435.3	10831.8	29786.2	34456.3	36216.7	34077.3
62.5°	809.3	934.0	914.5	931.6	1124.8	2232.3	9707.0	27338.7	32712.9	35351.2	35786.4
65°	787.3	867.9	863.1	907.2	1117.4	2151.7	8046.8	23668.5	29343.5	32615.1	36189.8
67.5°	757.9	802.0	826.4	875.3	1141.9	2080.8	6494.2	19524.1	24661.2	28514.7	34087.0
70°	726.2	762.8	789.7	836.3	1127.2	2048.9	5401.2	15396.9	19568.2	23370.2	29937.7
72.5°	684.6	716.4	740.9	784.9	1112.5	2031.9	4562.5	12399.1	14609.5	17360.2	24340.9
75°	635.7	665.1	682.3	726.2	1066.1	1860.6	3587.0	10491.9	10932.1	12076.3	19387.2
77.5°	579.5	601.5	616.1	665.1	943.8	1547.7	2594.3	8093.3	8489.3	8768.0	14863.7
80°	513.5	535.5	542.8	589.2	782.4	1210.4	1692.0	5978.2	6349.9	6413.5	9707.0
82.5°	437.7	459.7	459.7	503.6	640.6	870.5	1110.1	4095.6	4168.9	4384.0	6860.9
85°	352.2	369.2	369.2	391.2	496.4	650.4	762.8	2056.4	2034.3	2322.9	5944.0
87.5°	251.9	264.1	276.3	281.3	354.5	430.4	459.7	625.9	413.2	474.3	3816.8
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°	17262.4	17401.7	17259.9	17157.2	16714.7	16350.3	15863.8	15614.4
5°	18555.8	18910.4	18790.5	18360.3	17435.9	16396.7	15215.8	14682.8
7.5°	18399.4	19223.3	19242.8	18438.5	17076.5	15546.0	13946.8	13188.8
10°	17181.7	18235.5	18536.3	17756.3	16311.2	14599.7	12765.9	11900.3
12.5°	15822.2	16854.0	17083.9	16814.9	15607.0	13888.2	12027.4	11179.0
15°	14709.7	15171.8	15445.7	15680.4	15003.2	13604.5	11985.8	11054.3
17.5°	14032.3	13981.1	14059.3	14467.7	14582.5	13929.7	12621.6	11594.6
20°	13787.9	13003.1	12983.5	13545.9	14384.5	14704.7	13863.7	12631.4
22.5°	13922.4	12650.9	12489.5	13157.1	14489.6	15822.2	15492.1	14086.1
25°	14386.9	12680.3	12550.7	13196.3	14871.1	17013.0	17250.2	15968.9
27.5°	15117.9	12866.1	12695.0	13357.6	15377.1	18013.0	18981.3	17793.0
30°	15812.4	13188.8	12976.0	13675.4	15839.4	18409.1	20042.4	19216.0
32.5°	16656.0	13792.8	13418.6	14259.8	16411.5	19039.9	20988.7	20394.6
35°	17482.5	14653.5	14188.9	15162.0	17049.7	19824.9	22069.4	21900.7
37.5°	18389.5	15778.2	15394.3	16328.4	17922.6	20565.7	23448.4	23666.1
40°	19357.8	17269.7	16814.9	18030.2	19277.1	21494.8	24888.6	25411.8
42.5°	20333.3	18925.1	18382.3	19614.5	20766.2	22411.7	26120.9	26896.1
45°	21450.9	20722.2	20465.5	21798.0	22196.6	23284.7	27030.5	27993.9
47.5°	22751.6	22761.4	23174.7	23707.6	23639.3	24272.5	27945.0	28974.4
50°	24270.0	25306.7	26218.7	26573.3	25125.8	25333.6	29214.0	30287.4
52.5°	26094.1	28350.9	29480.6	29248.2	26727.3	26629.5	31223.9	32096.8
55°	28375.2	31573.5	32695.9	32529.5	28568.4	28394.9	33727.7	34236.2
57.5°	31016.1	34696.0	35727.8	34979.6	30778.9	30331.4	35798.6	35906.2
60°	33336.4	37170.3	38075.0	37246.2	33008.8	32392.6	37092.1	36571.3
62.5°	34627.4	38009.0	38644.7	37752.3	34537.0	34588.3	37375.7	36211.9
65°	34050.4	35889.2	36094.5	36021.1	34143.3	35862.1	36356.1	34551.6
67.5°	30891.3	30529.4	30874.3	31351.0	30769.0	34184.8	33532.0	30935.3
70°	25326.3	23338.5	24025.4	24345.8	24609.9	29417.0	29103.9	25196.8
72.5°	19086.4	16350.3	16893.1	16827.1	18049.7	23595.2	22634.2	18526.4
75°	13523.8	11086.1	11154.5	11127.6	12594.7	18460.5	16389.4	12675.3
77.5°	9462.5	8032.0	8068.8	8220.4	8467.4	13922.4	11709.6	9259.6
80°	6506.4	6095.6	6298.6	6310.9	5868.2	9352.5	8650.7	7430.6
82.5°	4846.2	4237.4	4188.5	4259.4	4599.3	7577.3	6648.2	5154.3
85°	3968.4	2508.7	2017.3	2528.3	4076.0	7504.0	4415.8	2718.9
87.5°	2234.8	1190.7	537.9	997.6	1626.0	4968.4	1276.3	347.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)