

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: P526052

Luminaire Tested: **GALN-SA1A-727-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526052
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-727-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2882 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

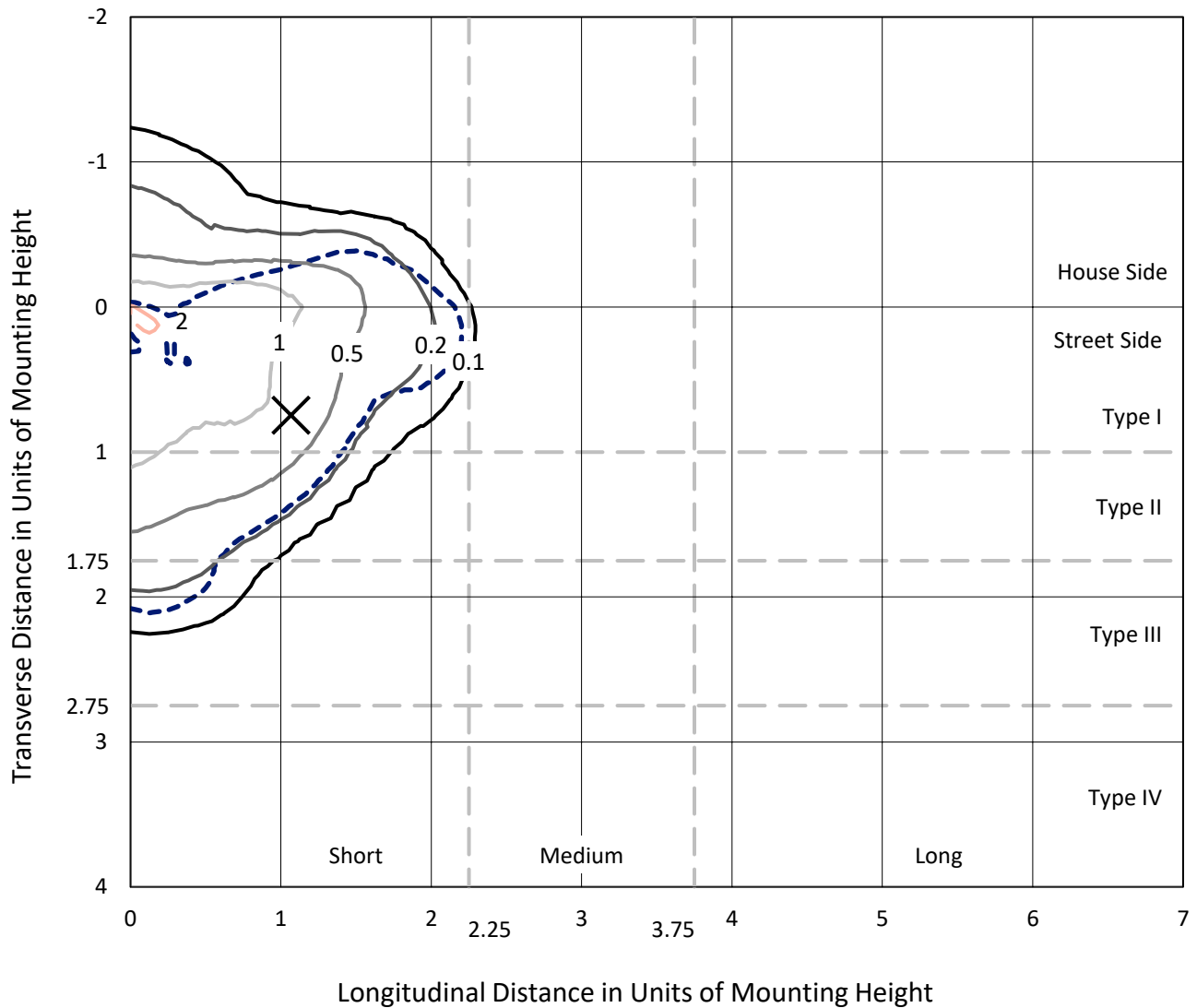
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

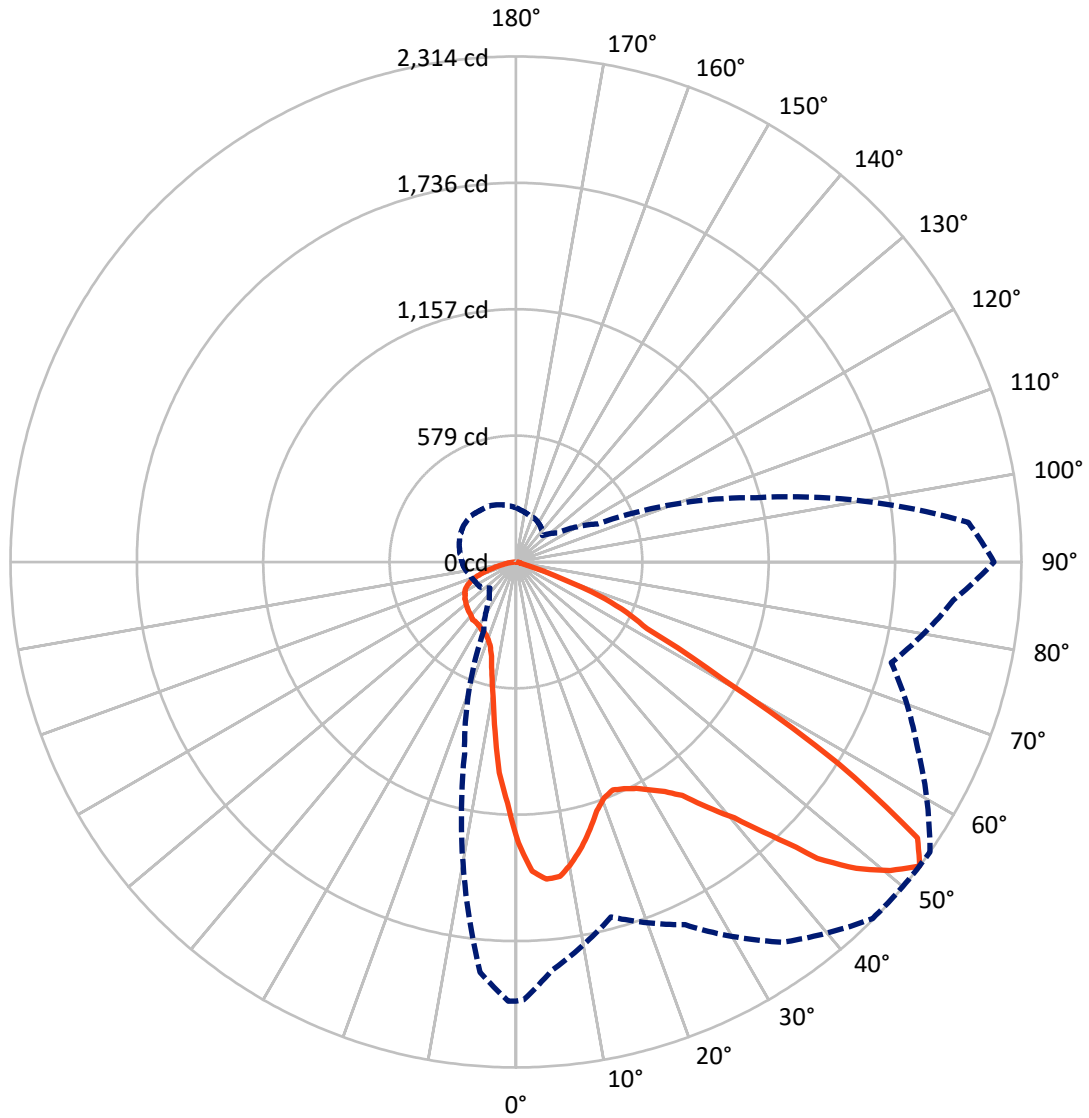
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	879.2	0.0	879.2
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	2002.8	0.0	2002.8
	% Fixture	69.5	0.0	69.5
Total	Lumens	2882.0	0.0	2882.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.2	3.4
10°-20°	211.8	7.3
20°-30°	321.1	11.1
30°-40°	464.0	16.1
40°-50°	620.0	21.5
50°-60°	692.0	24.0
60°-70°	379.6	13.2
70°-80°	82.1	2.8
80°-90°	13.3	0.5
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°	2882.0	100.0
0°-180°	2882.0	100.0

Coefficient of Utilization

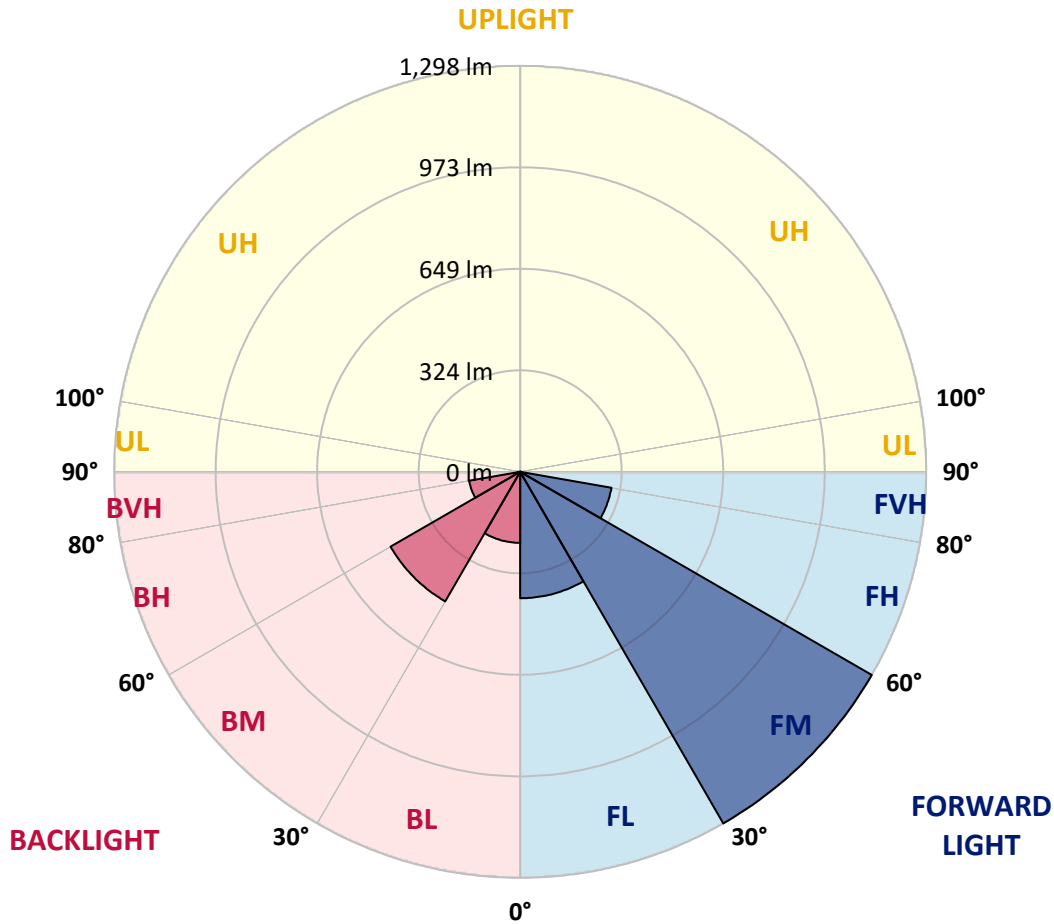


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	404.1	14.0			
FM (30°-60°)	1297.6	45.0			
FH (60°-80°)	296.2	10.3			G0/660
FVH (80°-90°)	4.9	0.2			G0/10
BL (0°-30°)	227.0	7.9	B1/500		
BM (30°-60°)	478.3	16.6	B1/1000		
BH (60°-80°)	165.5	5.7	B1/500		G1/500
BVH (80°-90°)	8.4	0.3			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1285.6	1285.6	1285.6	1285.6	1285.6	1285.6	1285.6	1285.6	1285.6	1285.6	1285.6
2.5°	1349.1	1341.6	1348.3	1380.3	1398.8	1411.4	1419.4	1418.2	1387.9	1358.4	1358.4
5°	1309.6	1299.9	1313.8	1386.2	1459.0	1465.3	1475.8	1458.6	1413.9	1360.1	1292.7
7.5°	1195.1	1202.3	1225.4	1320.5	1415.2	1462.8	1475.4	1453.5	1381.1	1280.5	1181.7
10°	1096.2	1113.1	1166.5	1269.2	1356.3	1418.2	1432.0	1401.3	1344.1	1220.8	1132.4
12.5°	1062.1	1051.6	1111.0	1213.6	1297.0	1330.2	1336.5	1338.6	1299.9	1190.5	1082.8
15°	1057.9	1064.7	1111.0	1188.8	1240.1	1241.8	1252.4	1268.8	1273.8	1211.1	1105.9
17.5°	1118.5	1110.5	1158.1	1219.9	1195.5	1171.1	1173.7	1197.2	1238.9	1228.8	1178.7
20°	1208.2	1226.3	1263.7	1257.4	1191.8	1129.9	1130.3	1152.6	1234.7	1302.0	1280.1
22.5°	1357.1	1374.8	1402.6	1326.4	1191.8	1117.7	1103.4	1133.7	1261.6	1389.1	1394.6
25°	1493.1	1525.5	1533.0	1443.4	1251.5	1129.1	1119.8	1149.7	1288.5	1474.1	1525.9
27.5°	1616.8	1628.6	1661.8	1518.7	1284.8	1136.6	1135.8	1174.1	1322.6	1516.6	1643.3
30°	1714.4	1713.1	1732.1	1566.3	1337.8	1179.1	1138.3	1210.7	1367.2	1586.9	1751.9
32.5°	1780.9	1795.2	1835.2	1632.3	1360.1	1219.5	1187.5	1253.6	1421.5	1620.1	1828.4
35°	1897.9	1922.7	1872.2	1669.0	1430.8	1259.5	1222.1	1312.1	1448.5	1656.3	1922.3
37.5°	2008.1	1989.2	1937.9	1688.7	1476.6	1333.6	1298.6	1425.3	1532.2	1735.0	1984.6
40°	2078.8	2078.4	1987.1	1704.7	1509.0	1446.8	1444.7	1540.2	1634.9	1784.7	2054.4
42.5°	2109.6	2139.0	2007.3	1703.0	1577.2	1584.0	1626.5	1711.9	1707.7	1794.8	2052.7
44°	2151.6	2169.3	2042.2	1706.8	1622.7	1676.5	1776.7	1831.0	1771.2	1789.3	2050.6
45°	2150.0	2151.2	1992.6	1711.9	1661.4	1754.0	1843.6	1935.3	1827.2	1777.5	2078.4
47.5°	2100.7	2086.4	1950.5	1674.4	1782.2	1958.5	2041.4	2096.9	1896.2	1752.3	2043.9
50°	2003.5	1987.1	1848.2	1658.4	1807.4	2085.6	2200.0	2220.2	1958.9	1727.5	2009.8
52.5°	2010.2	2005.6	1877.3	1682.4	1832.7	2125.5	2309.0	2314.1	2030.0	1779.6	2010.2
55°	2130.6	2114.6	1960.6	1712.3	1814.1	2078.8	2239.6	2230.7	2006.0	1748.1	2047.3
57.5°	1949.6	1960.2	1845.3	1594.1	1587.7	1690.0	1760.7	1738.8	1674.0	1577.6	1904.6
60°	1573.0	1602.9	1613.8	1333.1	1198.1	1145.5	1124.4	1085.7	1096.6	1296.1	1673.2
62.5°	1349.1	1347.5	1416.0	1208.6	784.8	675.0	664.9	673.7	800.0	1275.9	1638.7
65°	1069.7	1098.3	1119.4	1024.3	621.1	501.2	500.8	556.7	692.2	1066.3	1323.0
67.5°	679.2	716.7	742.7	655.2	415.3	356.9	347.2	414.5	479.7	699.4	796.6
70°	382.9	400.6	412.4	377.9	264.3	185.2	174.2	190.2	289.9	452.8	472.2
72.5°	147.7	155.7	171.7	173.0	99.7	59.8	48.4	58.1	122.0	179.3	170.9
75°	22.7	24.4	34.5	41.2	28.6	21.9	23.1	24.0	34.1	46.3	38.7
77.5°	10.9	10.9	10.5	12.2	14.3	15.6	16.8	18.5	20.2	22.3	21.5
80°	7.2	7.2	7.2	8.4	10.5	12.6	14.3	15.1	16.0	17.7	16.8
82.5°	4.6	4.6	4.6	6.3	8.4	10.5	11.4	13.5	15.1	17.7	16.4
85°	2.5	2.5	2.5	4.2	6.3	8.8	8.4	6.7	3.8	0.4	0.8
87.5°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1285.6	1285.6	1285.6	1285.6	1285.6	1285.6	1285.6	1285.6	1285.6	1285.6	1285.6
2.5°	1323.0	1303.7	1302.0	1262.5	1227.1	1209.8	1196.0	1157.2	1165.7	1143.4	1142.9
5°	1259.1	1219.5	1155.6	1103.0	1050.4	1039.8	994.0	954.0	955.3	926.6	931.7
7.5°	1144.2	1116.8	1039.0	956.5	886.7	837.0	793.7	767.6	734.3	723.0	717.1
10°	1071.4	1037.7	950.2	846.7	768.4	741.9	700.2	677.1	643.0	626.2	614.4
12.5°	1039.4	990.2	880.8	775.6	723.4	696.0	660.7	618.6	578.2	562.6	541.2
15°	1042.8	983.9	860.6	746.9	684.2	631.2	599.7	553.0	511.7	484.4	468.8
17.5°	1093.7	1022.2	869.8	725.1	635.0	568.5	506.7	456.2	423.3	402.7	397.7
20°	1214.1	1116.8	885.4	689.7	585.8	502.9	426.7	374.1	348.9	348.4	348.9
22.5°	1314.2	1217.8	917.0	668.7	536.5	418.7	343.0	326.1	321.1	331.6	332.9
25°	1449.3	1331.5	971.2	657.7	491.1	356.9	310.1	303.8	303.4	316.9	317.3
27.5°	1587.7	1430.8	1003.6	625.8	444.8	324.9	290.4	289.1	295.8	310.1	308.9
30°	1682.0	1514.1	1062.1	587.5	390.1	296.7	282.4	284.1	293.3	304.3	305.9
32.5°	1791.8	1596.2	1077.3	566.4	356.4	273.1	263.0	266.8	278.6	295.8	305.1
35°	1917.7	1654.2	1100.4	537.8	343.8	255.0	250.0	254.2	268.5	279.8	289.9
37.5°	2010.7	1756.9	1104.6	515.5	329.9	244.9	236.9	250.8	259.2	275.2	280.3
40°	2079.7	1831.4	1115.6	501.6	319.0	231.9	231.9	241.1	252.5	267.2	277.3
42.5°	2123.9	1885.7	1123.6	489.0	297.9	228.1	226.0	235.2	250.4	264.7	269.3
44°	2150.8	1908.8	1115.6	477.2	292.0	223.5	223.5	231.4	243.2	260.1	265.5
45°	2157.5	1937.9	1097.9	476.8	284.9	218.0	217.1	232.3	240.3	260.9	264.3
47.5°	2183.6	1973.6	1100.0	463.3	267.6	204.9	219.7	226.4	233.6	251.6	263.0
50°	2182.8	1995.9	1095.4	443.5	255.0	190.2	214.6	222.2	229.3	247.9	252.5
52.5°	2188.7	2079.3	1137.9	412.0	232.3	171.3	197.8	214.6	223.5	239.0	248.7
55°	2185.7	2126.8	1180.0	388.4	200.3	159.9	183.5	203.3	215.9	232.3	236.9
57.5°	1996.4	1879.8	1092.0	344.2	165.8	146.4	163.3	191.5	207.5	224.3	230.2
60°	1631.1	1448.9	900.5	253.3	136.3	134.7	151.9	187.7	194.4	209.1	219.2
62.5°	1507.4	1270.9	714.1	193.6	116.6	123.3	140.1	169.6	180.1	198.2	207.5
65°	1179.5	844.2	442.3	130.9	102.7	110.7	126.7	148.5	165.8	182.6	193.6
67.5°	698.6	461.2	218.8	91.7	89.6	98.1	114.5	130.9	150.7	169.2	174.6
70°	380.4	226.8	93.4	69.9	76.2	83.7	99.7	111.1	130.0	144.3	153.6
72.5°	122.0	69.0	46.7	51.8	58.1	66.9	76.6	90.5	103.9	112.4	119.9
75°	29.5	29.0	33.2	36.2	42.1	48.8	56.8	64.0	74.5	82.5	89.2
77.5°	20.6	22.3	25.7	29.9	32.0	34.5	39.6	45.0	49.7	55.5	59.8
80°	16.0	17.3	19.8	21.9	24.0	26.1	28.6	30.7	33.7	37.5	39.6
82.5°	15.1	16.0	18.5	19.8	18.9	18.5	20.2	21.0	21.5	22.7	24.0
85°	1.3	0.0	0.8	2.9	7.2	10.5	11.4	11.4	10.9	11.8	11.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.7	1.3
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1285.6	1285.6	1285.6	1285.6	1285.6	1285.6	1285.6	1285.6	1285.6	1285.6	1285.6
2.5°	1137.9	1123.6	1129.1	1135.8	1126.1	1103.8	1109.7	1107.2	1129.9	1128.2	1150.9
5°	954.0	931.7	934.2	967.0	956.5	967.9	945.2	942.2	946.4	948.5	952.3
7.5°	730.1	727.2	752.4	780.2	793.2	779.8	757.5	752.4	747.8	738.5	759.6
10°	595.9	596.7	595.0	616.1	630.8	627.9	614.4	612.7	603.9	600.5	612.3
12.5°	531.9	520.6	515.1	508.3	519.7	527.3	521.4	517.2	517.6	521.8	523.5
15°	470.1	462.9	451.1	443.5	449.0	445.2	443.1	451.5	449.4	448.6	458.7
17.5°	400.6	406.5	405.7	397.3	404.4	401.5	401.0	395.1	387.2	381.3	384.6
20°	354.7	365.7	374.1	374.5	378.3	377.9	371.6	353.5	347.6	346.3	347.2
22.5°	338.3	344.2	354.3	368.6	368.6	361.9	354.3	333.3	327.8	321.9	319.4
25°	325.3	336.7	349.7	351.4	358.1	351.8	339.6	329.1	317.7	309.7	309.7
27.5°	318.6	331.2	340.9	343.8	353.1	348.0	335.4	321.9	308.5	308.0	300.9
30°	315.6	327.4	333.7	340.9	345.1	337.1	333.3	319.0	305.5	302.1	290.4
32.5°	306.8	323.6	335.4	333.7	337.1	333.7	328.2	316.5	301.3	293.7	292.5
35°	296.7	313.5	326.1	335.0	337.1	329.9	326.6	310.6	289.9	286.2	273.1
37.5°	291.2	301.3	316.9	331.2	334.1	330.3	319.0	302.6	281.9	277.7	266.4
40°	284.5	297.5	309.7	321.5	330.3	321.1	308.0	292.0	282.8	270.2	266.8
42.5°	279.4	294.2	304.3	317.3	327.4	315.2	300.0	289.1	276.1	267.6	258.0
44°	277.7	291.2	297.9	313.9	322.3	313.1	300.5	289.1	274.0	266.4	258.0
45°	271.8	290.4	297.5	311.8	319.0	311.4	295.4	284.1	273.1	263.9	255.0
47.5°	266.0	278.6	290.8	302.1	307.2	304.7	291.2	277.3	264.3	258.8	250.4
50°	264.3	276.9	288.3	298.8	304.7	299.6	287.4	274.0	258.8	250.0	242.8
52.5°	255.9	271.4	284.1	287.4	295.0	292.0	282.8	268.1	253.8	246.2	240.3
55°	243.7	260.1	277.3	281.5	292.5	287.8	274.0	260.1	247.9	236.5	228.9
57.5°	239.0	255.0	271.8	277.3	284.1	276.5	273.1	258.4	239.0	233.1	221.3
60°	227.2	247.4	261.3	274.0	274.4	272.3	266.4	249.5	233.6	222.6	214.2
62.5°	218.0	236.9	247.9	259.6	266.8	260.9	255.0	239.4	222.2	210.0	200.3
65°	204.5	221.8	231.0	238.2	246.2	245.3	235.2	223.9	205.8	196.1	186.8
67.5°	183.9	199.0	211.7	218.4	223.5	222.2	214.6	206.6	188.1	178.4	171.7
70°	159.1	174.6	182.6	186.4	191.5	194.0	188.1	184.3	167.9	155.3	149.0
72.5°	127.9	138.0	149.8	153.2	155.3	157.0	157.0	153.6	136.8	131.7	120.8
75°	94.3	102.3	111.1	111.1	114.9	115.3	116.1	114.0	101.4	94.7	92.2
77.5°	64.0	69.9	77.0	80.0	82.5	82.1	81.6	75.7	69.0	66.1	63.5
80°	41.7	47.6	50.9	54.7	57.2	56.8	57.7	53.4	50.5	45.4	46.3
82.5°	24.8	29.5	32.8	37.5	37.5	38.7	38.7	37.5	34.5	32.0	32.0
85°	11.8	15.6	17.7	20.6	22.3	22.7	20.2	17.3	14.3	13.0	14.3
87.5°	2.1	2.9	4.2	3.8	4.6	4.2	4.2	4.2	4.2	3.4	3.8
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1285.6	1285.6	1285.6	1285.6	1285.6	1285.6	1285.6	1285.6	1285.6	1285.6
2.5°	1142.5	1163.6	1178.3	1202.7	1244.8	1278.4	1312.9	1338.6	1341.6	1349.1
5°	966.2	977.6	1015.0	1063.8	1098.3	1155.1	1191.8	1258.2	1283.1	1309.6
7.5°	754.5	773.0	823.1	855.9	931.7	1002.8	1076.4	1158.5	1191.3	1195.1
10°	636.3	663.2	697.3	749.9	791.1	870.2	962.0	1053.3	1089.9	1096.2
12.5°	558.8	593.4	638.8	676.7	716.2	785.2	873.2	986.0	1033.5	1062.1
15°	484.4	520.1	570.2	622.8	657.7	740.2	843.7	970.8	1032.7	1057.9
17.5°	407.8	441.0	482.3	539.1	609.3	701.9	839.1	1021.3	1089.1	1118.5
20°	342.1	360.6	408.6	467.1	555.1	662.8	840.8	1095.8	1195.1	1208.2
22.5°	316.5	320.7	339.6	393.5	489.8	622.8	870.7	1201.4	1314.2	1357.1
25°	296.7	295.8	300.9	337.1	442.3	607.2	900.1	1298.6	1446.3	1493.1
27.5°	285.7	277.3	277.7	311.8	408.6	582.0	938.0	1410.2	1596.2	1616.8
30°	280.3	278.6	273.5	287.4	372.0	544.1	944.3	1520.0	1684.5	1714.4
32.5°	276.9	260.5	254.2	259.2	337.5	502.9	967.9	1592.4	1793.9	1780.9
35°	260.1	245.3	241.1	246.2	313.1	479.7	952.3	1655.5	1876.0	1897.9
37.5°	253.8	240.7	232.3	228.1	290.4	460.4	944.3	1752.7	1955.5	2008.1
40°	247.9	234.0	223.9	219.7	272.7	434.7	941.8	1827.6	2047.3	2078.8
42.5°	241.1	232.3	220.9	213.4	251.2	409.0	912.8	1850.8	2075.5	2109.6
44°	239.0	225.6	213.8	211.2	242.8	396.0	906.9	1871.8	2099.9	2151.6
45°	236.9	224.3	210.8	207.5	239.9	388.8	898.9	1876.8	2140.3	2150.0
47.5°	231.0	223.0	210.0	200.7	233.6	373.3	874.9	1848.2	2099.0	2100.7
50°	226.4	217.1	203.7	185.6	225.1	360.2	885.8	1837.7	1999.7	2003.5
52.5°	221.3	207.5	199.9	168.7	211.2	349.3	909.0	1885.3	2011.1	2010.2
55°	215.5	200.3	181.8	154.4	188.1	335.4	964.9	1979.1	2116.3	2130.6
57.5°	206.2	193.2	166.6	141.8	161.6	308.9	946.8	1799.4	1947.1	1949.6
60°	194.0	181.8	151.1	132.1	132.6	243.7	846.7	1402.2	1536.4	1573.0
62.5°	182.2	175.5	138.0	118.2	112.8	194.0	715.8	1165.2	1318.8	1349.1
65°	168.3	151.9	126.7	107.7	96.8	135.9	507.1	870.7	1028.9	1069.7
67.5°	150.7	133.0	111.5	94.7	82.9	90.9	261.7	494.9	655.2	679.2
70°	131.7	115.3	93.8	80.0	66.9	62.7	115.3	236.1	358.1	382.9
72.5°	108.1	93.0	74.9	63.1	50.1	43.3	38.7	63.1	127.1	147.7
75°	78.3	67.8	56.4	45.0	35.3	27.8	22.7	18.9	21.0	22.7
77.5°	57.7	49.2	41.7	32.0	24.8	19.8	15.6	11.8	11.4	10.9
80°	45.0	40.0	33.2	25.7	19.4	14.7	10.9	8.0	7.2	7.2
82.5°	35.3	32.8	27.4	21.0	16.0	11.8	8.0	5.5	4.6	4.6
85°	13.5	13.5	19.8	17.3	12.2	8.4	5.5	2.9	2.5	2.5
87.5°	3.4	3.4	3.4	3.4	2.9	2.5	2.5	1.3	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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