

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: P450901

Luminaire Tested: **GALN-SA1D-727-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450901
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-727-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5643 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

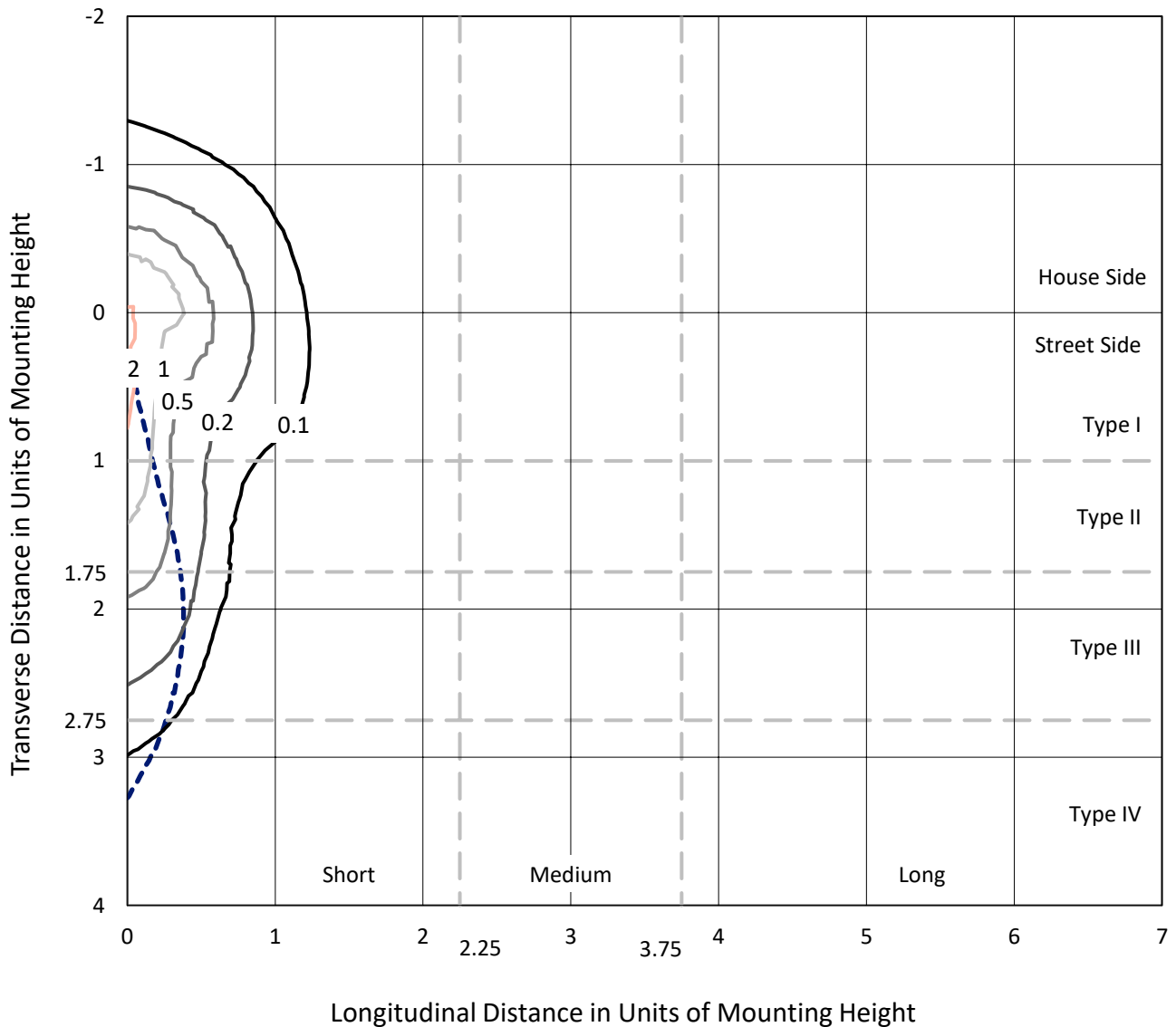
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

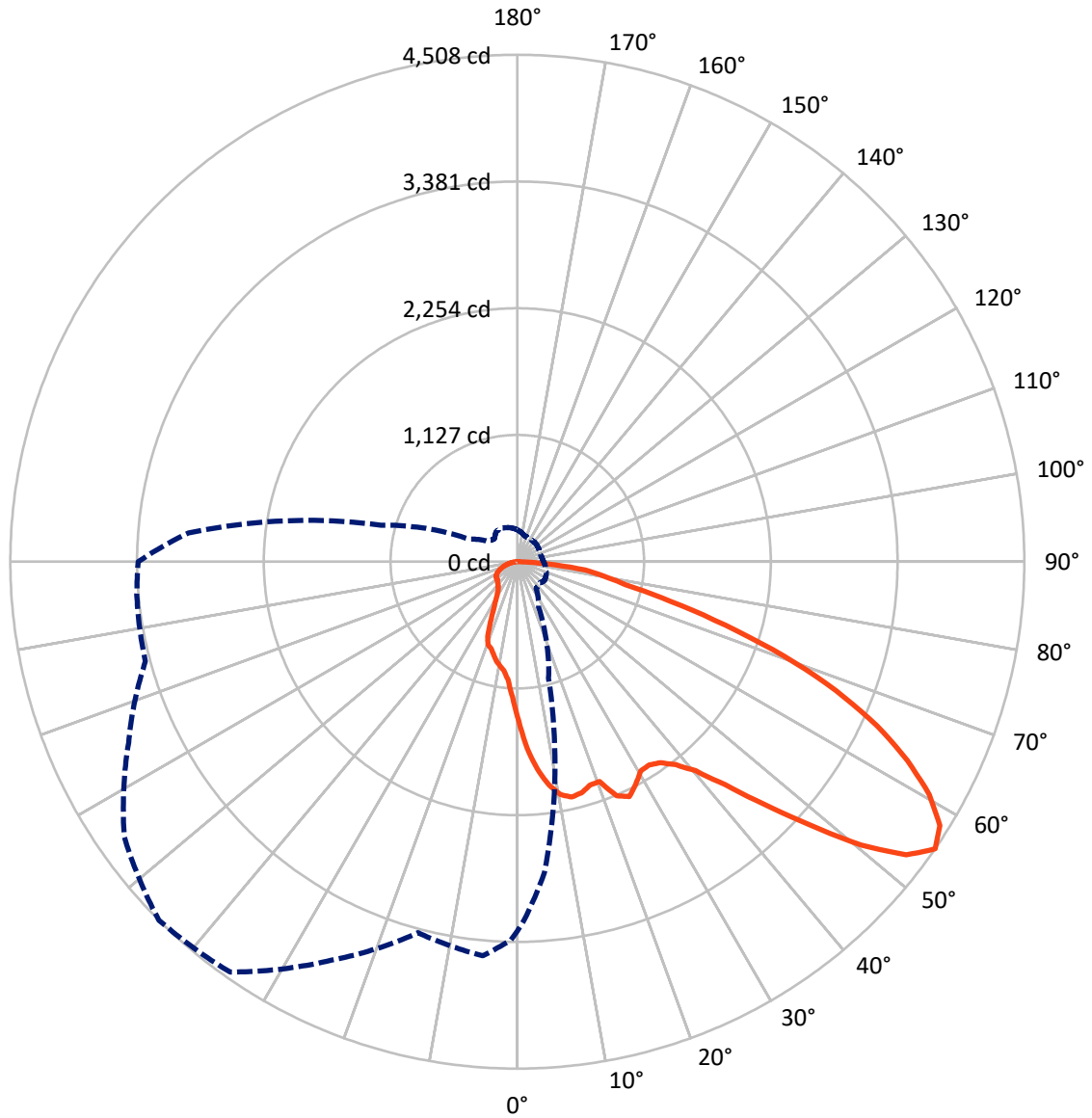
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1234.4	0.0	1234.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	4408.6	0.0	4408.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	5643.0	0.0	5643.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.0	2.1
10°-20°	318.4	5.6
20°-30°	550.1	9.7
30°-40°	639.3	11.3
40°-50°	892.0	15.8
50°-60°	1210.3	21.4
60°-70°	1151.4	20.4
70°-80°	622.0	11.0
80°-90°	139.4	2.5
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°	5643.0	100.0
0°-180°	5643.0	100.0

Coefficient of Utilization



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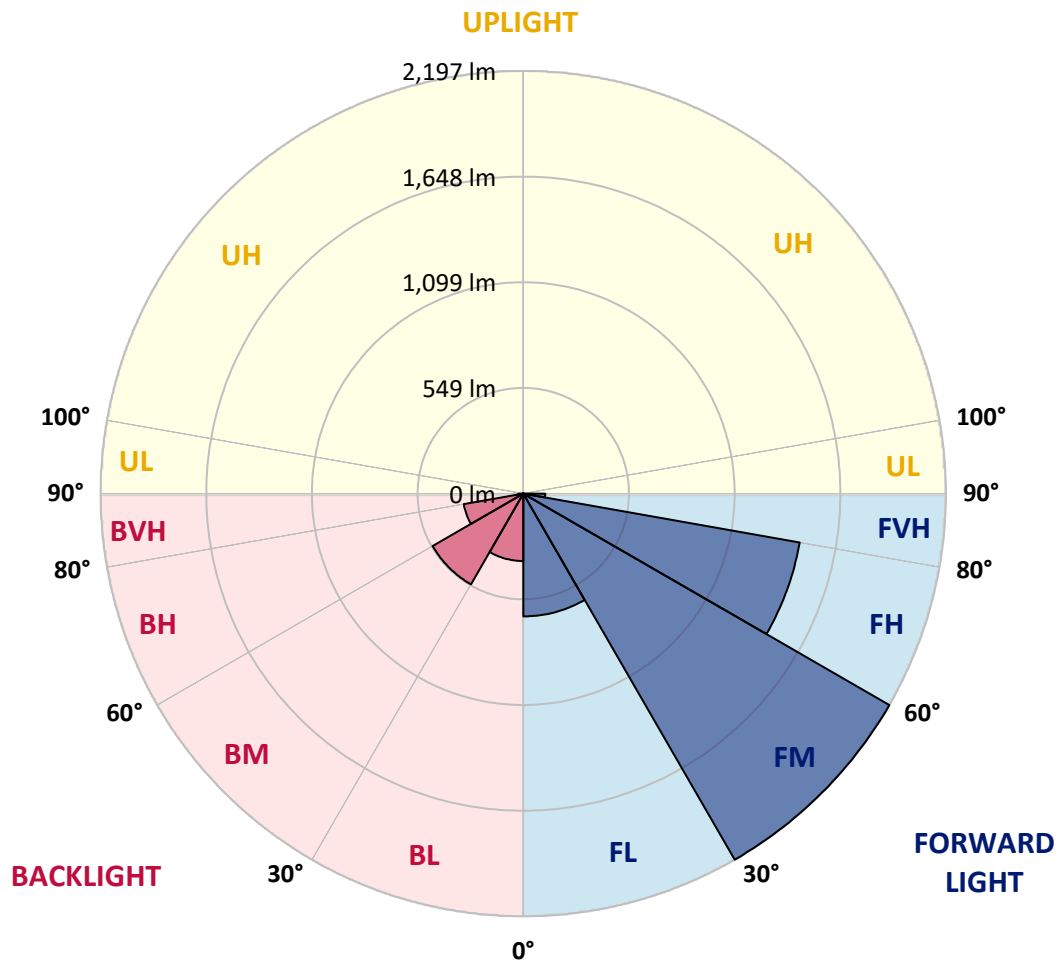
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	638.2	11.3			
FM	(30°-60°)	2197.3	38.9			
FH	(60°-80°)	1459.2	25.9			G1/1800
FVH	(80°-90°)	113.9	2.0			G2/225
BL	(0°-30°)	350.3	6.2	B1/500		
BM	(30°-60°)	544.3	9.6	B1/1000		
BH	(60°-80°)	314.3	5.6	B1/500		G1/500
BVH	(80°-90°)	25.5	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1416.2	1416.2	1416.2	1416.2	1416.2	1416.2	1416.2	1416.2	1416.2	1416.2	1416.2
2.5°	1573.3	1567.3	1550.6	1506.6	1462.3	1417.3	1382.7	1339.5	1294.4	1270.2	1239.3
5°	1594.9	1588.2	1548.7	1449.7	1360.0	1265.8	1190.6	1124.7	1097.9	1058.4	1026.8
7.5°	1544.2	1541.3	1482.1	1339.9	1217.0	1093.8	1008.5	955.7	907.6	889.8	893.5
10°	1498.1	1486.2	1412.1	1226.3	1083.0	982.8	921.8	870.0	836.2	827.2	829.1
12.5°	1459.7	1443.7	1356.2	1150.0	1024.5	944.5	866.7	812.7	781.8	790.4	819.4
15°	1451.9	1430.3	1332.8	1123.9	992.5	889.4	804.1	742.0	718.9	737.5	784.0
17.5°	1502.5	1475.4	1373.0	1132.5	962.0	833.2	728.6	657.5	638.1	667.9	728.6
20°	1665.2	1625.0	1498.4	1182.0	959.0	805.3	684.6	613.2	621.3	677.9	741.2
22.5°	1966.0	1905.7	1718.1	1254.2	974.6	798.2	675.7	638.5	683.5	731.5	773.2
25°	2025.6	1978.3	1757.6	1270.6	971.3	793.3	701.0	719.6	769.9	793.7	779.2
27.5°	2059.1	2005.1	1755.0	1189.5	868.5	719.6	670.1	701.0	713.7	690.6	651.1
30°	2137.3	2081.1	1799.3	1104.2	715.2	533.9	468.0	455.3	463.9	468.3	454.2
32.5°	2244.9	2189.4	1882.6	1048.4	618.4	441.5	376.8	358.9	354.8	349.9	344.4
35°	2384.1	2298.9	1964.5	1012.6	578.5	408.4	348.8	335.1	329.5	322.8	316.8
37.5°	2525.6	2436.2	2068.0	975.0	552.1	385.3	330.2	323.9	314.2	307.1	298.6
40°	2676.0	2575.8	2162.2	942.3	526.4	370.4	316.8	316.1	303.4	295.2	285.2
42.5°	2806.3	2703.2	2246.4	922.2	506.7	354.8	308.6	310.9	297.8	285.5	272.5
45°	2909.8	2808.5	2324.2	922.2	490.7	339.2	307.1	305.6	292.6	277.4	262.5
47.5°	3000.6	2896.0	2400.1	945.6	480.6	326.1	298.9	301.6	288.1	268.8	254.3
50°	3071.0	2978.7	2502.5	982.1	470.6	315.7	288.5	302.7	284.4	264.3	247.6
52.5°	3160.7	3078.1	2625.7	1032.0	462.0	304.2	279.2	302.7	284.1	264.7	246.5
55°	3285.0	3197.9	2774.3	1073.3	448.2	293.4	271.0	294.1	282.9	262.8	243.5
57.5°	3372.2	3307.0	2879.3	1100.8	428.5	279.6	263.6	285.9	278.1	255.8	234.5
58°	3376.3	3312.6	2894.5	1107.2	423.7	277.0	261.7	282.2	275.9	252.8	231.6
60°	3329.3	3274.6	2897.5	1098.2	396.1	264.0	252.0	266.9	264.0	235.3	215.6
62.5°	3158.8	3100.4	2777.2	1025.6	359.6	247.9	237.1	246.5	239.8	210.7	192.5
65°	2916.5	2808.9	2530.0	911.7	333.6	230.8	217.0	217.8	210.7	189.9	173.9
67.5°	2593.7	2473.5	2142.1	768.4	313.8	211.8	193.2	191.4	182.8	169.4	156.4
70°	2196.5	2114.2	1740.8	625.1	291.9	191.0	166.4	165.3	160.1	150.0	138.5
72.5°	1780.3	1675.7	1405.7	500.4	265.1	170.9	141.5	143.7	137.0	129.9	119.5
75°	1313.8	1245.3	1086.7	401.3	229.0	148.9	118.0	118.8	115.8	108.3	100.1
77.5°	865.2	844.7	777.3	263.6	176.1	118.4	96.4	97.2	94.9	88.2	79.7
80°	582.3	568.5	526.8	169.8	117.6	85.6	74.5	75.2	74.8	67.8	56.2
82.5°	358.9	352.9	339.5	114.7	81.5	61.4	49.1	51.4	55.5	47.7	38.3
85°	169.4	169.8	205.1	62.5	48.0	39.5	26.8	28.7	28.7	28.7	21.6
87.5°	22.0	23.1	28.3	26.4	17.5	14.9	9.7	8.2	7.1	9.3	6.7
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°	1416.2	1416.2	1416.2	1416.2	1416.2	1416.2	1416.2	1416.2	1416.2	1416.2	1416.2
2.5°	1228.5	1221.1	1205.1	1201.4	1199.1	1205.5	1188.7	1193.2	1185.7	1206.6	1203.2
5°	1028.6	1029.4	1042.4	1051.0	1053.9	1051.0	1039.8	1020.4	1005.5	999.6	1001.1
7.5°	886.4	899.4	921.8	946.7	969.4	976.1	969.8	932.9	892.7	867.4	859.2
10°	839.1	856.6	882.3	902.0	922.2	938.2	941.5	912.8	865.2	805.3	781.8
12.5°	841.7	865.6	890.1	896.5	894.6	900.9	898.0	893.1	861.8	785.5	746.4
15°	817.2	845.5	862.6	859.2	853.3	847.7	839.9	827.6	816.4	762.8	719.6
17.5°	760.6	789.6	803.8	804.9	804.9	803.4	784.4	779.9	778.4	752.4	726.0
20°	771.0	787.0	780.7	770.3	773.2	783.3	772.1	769.9	778.4	790.0	785.1
22.5°	777.0	771.4	723.7	677.6	667.1	698.4	704.7	729.7	764.3	806.0	833.2
25°	740.1	695.1	609.8	557.7	528.3	557.3	595.3	641.4	693.2	746.8	778.4
27.5°	618.7	584.5	523.4	476.5	450.8	455.3	487.7	529.8	577.8	613.9	637.0
30°	466.1	450.8	419.2	403.2	387.5	383.8	397.6	413.6	434.8	439.3	445.3
32.5°	343.2	341.0	342.9	337.7	334.7	334.3	330.2	333.9	336.2	338.8	333.6
35°	310.5	307.5	302.3	300.8	298.9	299.7	297.8	296.0	297.5	299.7	301.2
37.5°	293.7	289.3	281.8	279.2	279.2	280.3	277.4	276.6	279.2	286.3	290.0
40°	280.7	275.5	266.9	263.6	265.8	268.8	264.7	263.2	269.5	277.0	282.9
42.5°	268.4	264.3	256.1	252.4	254.3	259.9	253.9	252.8	261.0	269.2	276.2
45°	258.0	253.9	246.5	244.6	245.3	250.5	246.5	246.5	254.3	263.2	269.5
47.5°	249.8	244.6	239.8	238.3	239.0	242.0	241.2	241.2	248.7	258.0	264.3
50°	241.6	237.1	230.8	231.6	233.4	237.5	237.1	238.3	245.7	257.2	264.0
52.5°	237.9	231.2	224.1	224.9	230.4	235.3	233.8	234.9	243.5	265.1	274.7
55°	233.8	224.9	216.7	217.8	224.1	231.2	229.3	230.8	240.9	270.3	283.7
57.5°	226.0	215.6	206.6	207.4	216.7	224.1	221.1	223.0	234.9	264.7	278.8
58°	222.6	213.7	205.1	205.5	214.4	222.6	219.3	220.8	233.1	263.2	276.6
60°	208.5	203.3	195.8	196.2	204.8	211.8	210.0	211.5	223.4	252.4	262.5
62.5°	189.1	186.1	184.3	184.3	189.5	196.2	198.1	199.9	210.7	228.2	237.1
65°	168.3	168.3	168.6	168.6	172.0	180.6	181.7	186.5	196.6	205.1	211.8
67.5°	154.1	153.4	154.1	152.3	153.8	159.0	164.6	169.0	179.4	185.4	187.6
70°	135.9	135.5	135.9	133.3	135.1	139.6	143.3	150.8	161.6	166.0	167.2
72.5°	118.0	118.0	118.8	116.9	116.9	121.7	124.3	132.5	142.6	145.2	145.6
75°	99.4	100.5	100.5	97.9	98.7	101.6	105.0	111.7	121.0	122.9	122.9
77.5°	78.9	83.0	83.0	80.4	81.5	81.9	86.4	89.7	96.8	97.5	94.6
80°	57.3	61.4	64.8	62.5	64.4	62.2	64.8	67.0	74.1	70.7	65.9
82.5°	41.0	43.9	46.5	46.9	45.0	41.0	44.3	44.7	48.0	43.6	41.0
85°	22.7	25.3	28.7	27.2	24.2	21.6	22.7	23.5	23.1	22.0	20.5
87.5°	6.0	6.3	7.1	5.2	4.8	4.1	5.6	5.6	6.3	6.7	6.3
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°	1416.2	1416.2	1416.2	1416.2	1416.2	1416.2	1416.2	1416.2	1416.2	1416.2	1416.2
2.5°	1205.8	1222.2	1257.6	1284.4	1317.1	1357.0	1403.9	1451.2	1502.2	1518.2	1540.5
5°	997.7	1038.7	1055.8	1104.6	1153.0	1225.6	1303.0	1392.7	1491.0	1538.3	1583.7
7.5°	852.5	874.5	892.4	928.1	986.2	1074.4	1171.6	1283.6	1422.9	1491.7	1558.4
10°	774.4	776.6	798.6	842.9	893.5	971.3	1063.2	1188.7	1343.9	1427.7	1505.9
12.5°	722.6	712.9	736.8	782.9	840.2	912.1	996.6	1116.1	1287.0	1373.0	1467.5
15°	677.2	661.9	679.8	727.1	783.7	868.2	959.0	1085.6	1264.7	1364.8	1469.8
17.5°	678.3	636.2	642.6	682.4	738.6	824.6	934.8	1084.5	1298.5	1413.9	1538.3
20°	762.1	694.7	666.0	673.5	727.8	821.6	946.0	1136.6	1409.8	1578.1	1711.0
22.5°	844.3	803.8	757.6	742.3	772.1	870.4	1017.1	1259.8	1651.8	1905.4	2145.5
25°	815.7	850.3	838.8	817.2	823.9	905.4	1065.5	1361.1	1839.8	2125.4	2351.0
27.5°	652.6	715.5	728.2	727.8	730.4	797.4	958.3	1292.9	1863.3	2167.4	2383.0
30°	458.7	464.2	470.9	484.0	495.9	555.8	749.8	1135.1	1852.9	2186.4	2402.4
32.5°	331.0	338.4	347.7	365.6	393.9	470.2	656.0	1084.8	1908.0	2265.0	2458.9
35°	302.7	311.2	320.2	340.6	367.4	438.2	618.7	1064.0	1998.4	2392.3	2560.6
37.5°	293.7	303.4	311.2	326.1	347.7	415.1	584.9	1049.8	2091.1	2527.1	2696.8
40°	287.4	298.6	304.9	316.8	331.7	393.9	554.7	1038.7	2180.8	2650.3	2806.3
42.5°	281.8	293.4	301.6	310.1	322.4	374.9	527.9	1027.5	2258.7	2769.8	2915.4
45°	275.1	289.6	300.1	306.8	317.6	358.9	507.4	1018.6	2347.3	2875.9	3025.6
47.5°	269.5	285.5	298.6	306.4	310.5	347.7	491.0	1030.9	2453.7	2986.8	3127.9
50°	269.9	285.2	301.6	313.8	303.0	338.4	481.0	1079.6	2592.2	3118.6	3208.7
52.5°	281.8	300.4	313.5	316.4	292.6	327.2	475.8	1164.9	2756.0	3235.2	3290.3
55°	295.2	314.6	328.7	326.9	287.0	313.1	474.7	1255.7	2935.5	3371.0	3396.4
57.5°	290.4	318.7	340.3	330.6	287.4	299.3	469.8	1329.1	3085.5	3472.7	3501.3
58°	288.9	317.2	341.8	329.8	286.3	295.2	468.7	1335.4	3106.3	3479.7	3516.2
60°	274.4	304.2	340.6	324.3	280.0	284.1	456.4	1355.9	3100.8	3443.3	3525.2
62.5°	247.9	272.5	315.0	297.1	260.6	269.2	428.9	1330.5	2949.6	3267.5	3394.5
65°	218.2	236.4	264.7	261.3	233.1	253.9	391.3	1230.4	2646.9	2982.4	3116.0
67.5°	195.8	210.7	228.6	223.7	209.6	233.4	350.7	1061.0	2307.4	2639.9	2808.1
70°	173.1	184.7	193.6	190.2	185.8	213.3	314.6	861.1	1982.0	2314.5	2477.6
72.5°	150.0	160.8	168.3	163.4	160.8	192.1	285.2	668.3	1565.5	1909.5	2119.0
75°	125.5	136.3	141.5	135.9	134.4	169.4	241.6	499.2	1174.6	1472.0	1652.9
77.5°	97.2	108.7	115.4	113.5	114.3	139.2	195.1	341.8	839.9	1003.3	1193.9
80°	68.1	80.8	85.3	83.4	88.6	106.1	137.7	217.0	579.3	651.1	785.5
82.5°	42.1	54.0	54.7	56.6	60.3	78.6	103.9	132.2	363.7	376.0	473.5
85°	21.2	25.7	27.5	30.5	33.9	48.0	59.2	81.9	234.2	177.2	264.7
87.5°	7.1	7.4	8.9	11.2	13.8	19.7	25.3	33.5	58.1	32.0	81.9
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°	1416.2	1416.2	1416.2	1416.2	1416.2	1416.2	1416.2	1416.2	1416.2	1416.2
2.5°	1585.6	1617.2	1640.3	1661.5	1641.0	1639.2	1619.1	1586.7	1573.3	1573.3
5°	1679.0	1753.1	1813.0	1851.4	1835.0	1795.5	1730.4	1647.4	1602.7	1594.9
7.5°	1704.7	1851.0	1962.3	2001.8	1974.2	1887.1	1762.4	1622.4	1558.4	1544.2
10°	1689.1	1879.3	2042.7	2105.3	2066.9	1935.1	1765.0	1593.4	1514.5	1498.1
12.5°	1672.7	1883.0	2057.6	2148.1	2123.1	1973.9	1784.0	1574.4	1483.2	1459.7
15°	1684.6	1884.5	2039.4	2132.8	2148.8	2020.4	1815.3	1588.2	1476.9	1451.9
17.5°	1759.8	1912.8	2013.3	2088.9	2145.1	2083.7	1904.2	1654.1	1533.4	1502.5
20°	1916.9	1980.6	2028.2	2086.7	2177.1	2212.9	2086.3	1835.0	1692.4	1665.2
22.5°	2371.8	2360.3	2262.7	2261.6	2392.7	2536.0	2527.4	2202.8	1988.4	1966.0
25°	2542.3	2488.7	2347.6	2313.4	2371.1	2592.2	2560.2	2278.0	2080.0	2025.6
27.5°	2475.7	2342.8	2250.1	2242.3	2223.3	2432.1	2509.2	2308.5	2112.0	2059.1
30°	2471.6	2276.2	2143.6	2159.3	2177.5	2377.0	2537.5	2404.2	2193.9	2137.3
32.5°	2481.7	2285.5	2151.4	2154.4	2208.8	2385.2	2568.8	2508.5	2301.5	2244.9
35°	2522.2	2338.3	2201.3	2194.2	2279.1	2438.8	2622.0	2672.3	2448.5	2384.1
37.5°	2587.8	2443.7	2292.5	2290.7	2413.9	2535.6	2688.3	2837.6	2594.8	2525.6
40°	2684.2	2566.9	2454.8	2444.8	2597.1	2693.1	2774.3	3013.6	2765.0	2676.0
42.5°	2800.7	2714.7	2668.9	2708.7	2855.1	2869.9	2908.3	3176.3	2909.8	2806.3
45°	2908.7	2904.6	2968.2	3074.0	3159.2	3069.9	3048.3	3285.4	3022.2	2909.8
47.5°	3037.1	3148.0	3340.1	3495.0	3584.4	3302.5	3167.8	3356.5	3104.1	3000.6
50°	3167.4	3439.5	3746.3	3962.2	3981.2	3555.3	3250.0	3423.5	3178.6	3071.0
52.5°	3304.4	3672.2	4080.6	4331.5	4294.7	3775.3	3329.7	3469.0	3255.3	3160.7
55°	3423.5	3814.8	4267.5	4508.4	4454.4	3909.4	3415.7	3518.1	3364.7	3285.0
57.5°	3490.2	3826.7	4221.0	4431.3	4372.9	3883.3	3455.2	3554.6	3434.7	3372.2
58°	3499.9	3810.7	4179.6	4386.6	4327.1	3861.3	3454.8	3553.1	3439.2	3376.3
60°	3491.3	3706.8	4025.9	4210.2	4147.6	3723.6	3440.7	3525.2	3382.6	3329.3
62.5°	3412.0	3526.7	3760.5	3894.5	3876.6	3508.4	3382.6	3419.8	3210.2	3158.8
65°	3307.8	3280.9	3420.6	3515.5	3528.9	3347.2	3324.9	3192.0	2989.1	2916.5
67.5°	3181.2	3002.5	3002.1	3056.1	3078.4	3099.3	3204.6	2944.4	2670.4	2593.7
70°	2966.4	2573.2	2454.8	2518.5	2499.9	2676.0	2989.8	2596.7	2286.2	2196.5
72.5°	2572.5	2042.0	1852.5	1934.4	1887.5	2098.6	2616.0	2136.9	1890.5	1780.3
75°	2085.2	1527.5	1332.0	1407.2	1378.2	1591.9	2176.8	1552.1	1355.9	1313.8
77.5°	1619.1	1106.8	993.3	982.8	1004.4	1184.6	1596.7	1048.0	893.9	865.2
80°	1040.2	792.2	798.9	785.5	796.7	746.8	969.4	668.6	605.3	582.3
82.5°	684.6	552.1	658.2	607.6	577.0	502.2	635.9	437.8	371.5	358.9
85°	466.5	406.5	370.1	282.9	333.2	386.8	476.9	235.7	186.9	169.4
87.5°	210.7	141.5	103.9	64.0	101.3	116.9	231.6	27.5	21.2	22.0
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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