

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: P451278

Luminaire Tested: **GALN-SA2A-827-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451278
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-SA2A-827-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA 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: 5827 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

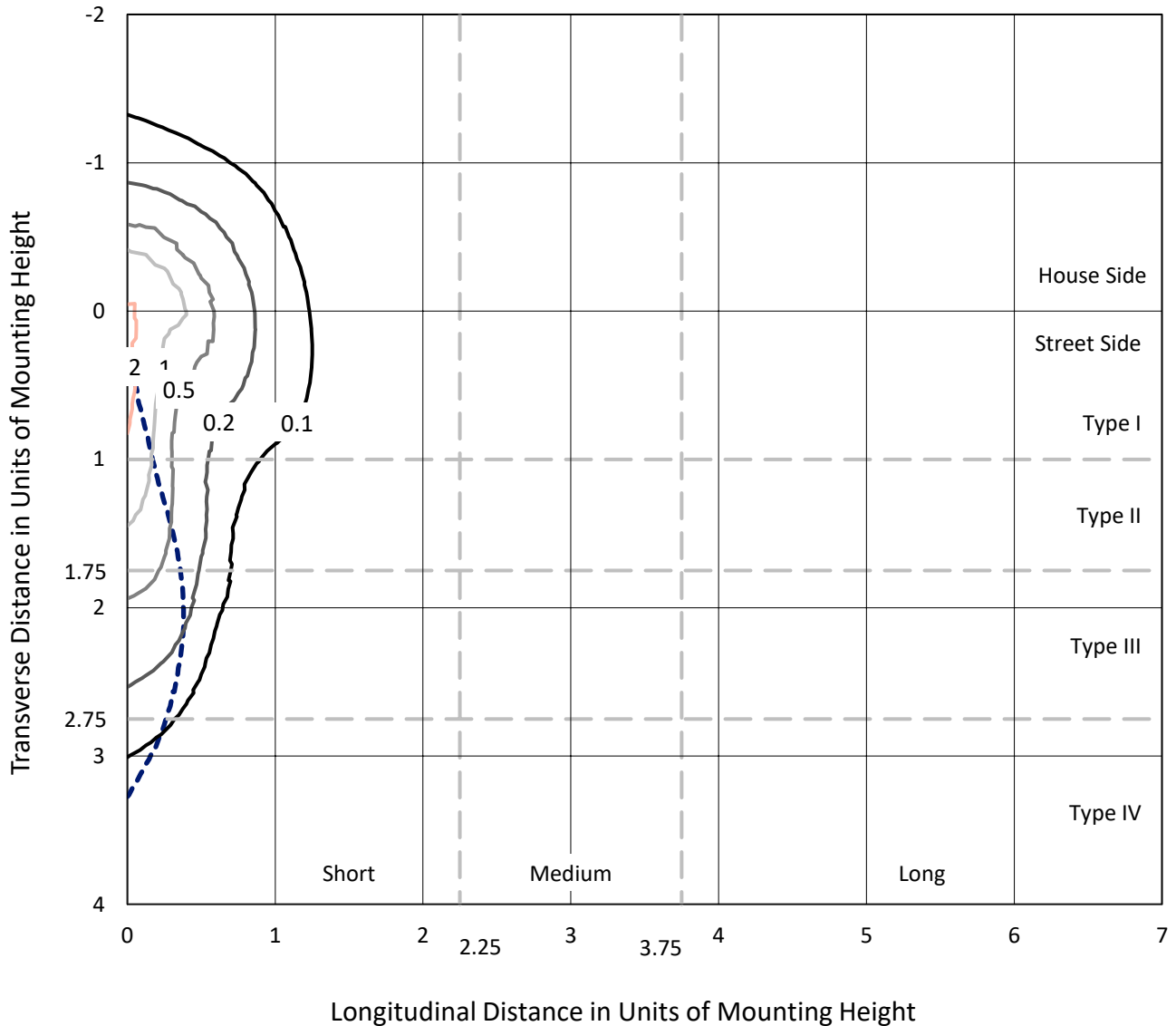
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

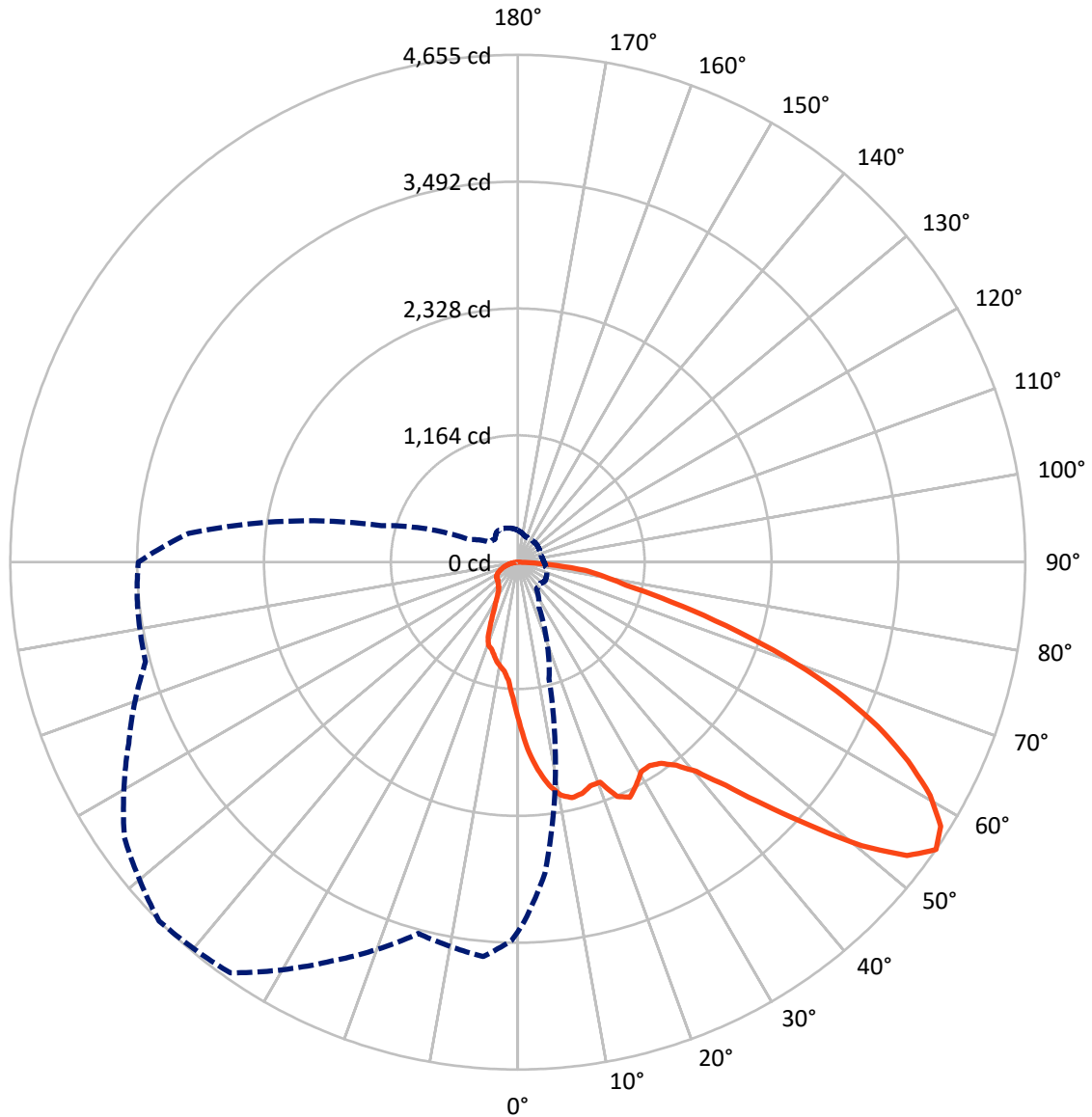
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	1274.6	0.0	1274.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	4552.4	0.0	4552.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	5827.0	0.0	5827.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.9	2.1
10°-20°	328.8	5.6
20°-30°	568.0	9.7
30°-40°	660.1	11.3
40°-50°	921.0	15.8
50°-60°	1249.7	21.4
60°-70°	1189.0	20.4
70°-80°	642.3	11.0
80°-90°	144.0	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°	5827.0	100.0
0°-180°	5827.0	100.0

Coefficient of Utilization



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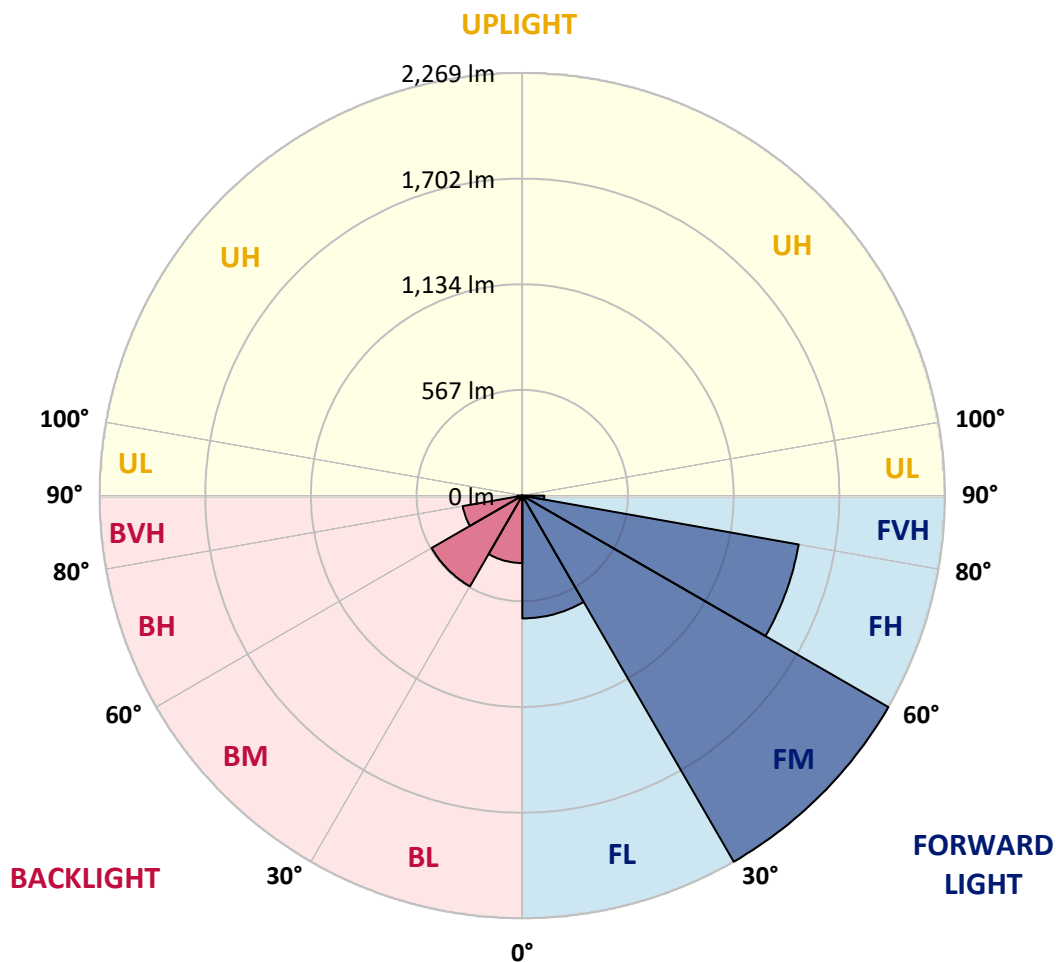
CATALOG NUMBER: GALN-SA2A-827-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	659.0	11.3			
FM	(30°-60°)	2268.9	38.9			
FH	(60°-80°)	1506.8	25.9			G1/1800
FVH	(80°-90°)	117.7	2.0			G2/225
BL	(0°-30°)	361.7	6.2	B1/500		
BM	(30°-60°)	562.0	9.6	B1/1000		
BH	(60°-80°)	324.5	5.6	B1/500		G1/500
BVH	(80°-90°)	26.3	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°	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3
2.5°	1624.6	1618.4	1601.1	1555.8	1510.0	1463.5	1427.8	1383.2	1336.6	1311.7	1279.7
5°	1646.9	1640.0	1599.2	1496.9	1404.3	1307.0	1229.4	1161.3	1133.7	1092.9	1060.2
7.5°	1594.6	1591.5	1530.4	1383.5	1256.7	1129.4	1041.4	986.8	937.2	918.8	922.6
10°	1546.9	1534.6	1458.1	1266.3	1118.3	1014.9	951.8	898.4	863.4	854.2	856.1
12.5°	1507.3	1490.8	1400.5	1187.5	1057.9	975.3	894.9	839.2	807.3	816.1	846.1
15°	1499.3	1477.0	1376.2	1160.6	1024.9	918.4	830.4	766.2	742.3	761.5	809.6
17.5°	1551.5	1523.5	1417.8	1169.4	993.4	860.3	752.3	678.9	658.9	689.7	752.3
20°	1719.5	1678.0	1547.3	1220.5	990.3	831.5	707.0	633.1	641.6	700.0	765.4
22.5°	2030.1	1967.9	1774.1	1295.1	1006.4	824.2	697.7	659.3	705.8	755.4	798.4
25°	2091.7	2042.8	1814.9	1312.0	1003.0	819.2	723.9	743.1	795.0	819.6	804.6
27.5°	2126.2	2070.5	1812.2	1228.2	896.9	743.1	692.0	723.9	736.9	713.1	672.4
30°	2207.0	2148.9	1857.9	1140.2	738.5	551.3	483.2	470.2	479.0	483.6	469.0
32.5°	2318.1	2260.8	1944.0	1082.5	638.5	455.9	389.0	370.6	366.4	361.4	355.6
35°	2461.9	2373.8	2028.6	1045.6	597.4	421.7	360.2	346.0	340.2	333.3	327.1
37.5°	2607.9	2515.7	2135.5	1006.8	570.1	397.9	341.0	334.4	324.5	317.1	308.3
40°	2763.2	2659.8	2232.7	973.0	543.6	382.5	327.1	326.4	313.3	304.8	294.5
42.5°	2897.8	2791.3	2319.6	952.2	523.2	366.4	318.7	321.0	307.5	294.9	281.4
45°	3004.7	2900.1	2400.0	952.2	506.7	350.2	317.1	315.6	302.2	286.4	271.0
47.5°	3098.5	2990.4	2478.4	976.4	496.3	336.8	308.7	311.4	297.5	277.6	262.6
50°	3171.1	3075.8	2584.1	1014.1	485.9	326.0	297.9	312.5	293.7	272.9	255.6
52.5°	3263.8	3178.4	2711.3	1065.6	477.1	314.1	288.3	312.5	293.3	273.3	254.5
55°	3392.2	3302.2	2864.7	1108.3	462.8	302.9	279.9	303.7	292.2	271.4	251.4
57.5°	3482.1	3414.8	2973.1	1136.7	442.5	288.7	272.2	295.2	287.2	264.1	242.2
58°	3486.3	3420.6	2988.9	1143.3	437.5	286.0	270.3	291.4	284.9	261.0	239.1
60°	3437.9	3381.4	2992.0	1134.1	409.0	272.6	260.3	275.6	272.6	243.0	222.6
62.5°	3261.8	3201.5	2867.8	1059.1	371.4	256.0	244.9	254.5	247.6	217.6	198.7
65°	3011.6	2900.5	2612.5	941.5	344.4	238.3	224.1	224.9	217.6	196.1	179.5
67.5°	2678.3	2554.1	2212.0	793.5	324.1	218.7	199.5	197.6	188.8	174.9	161.5
70°	2268.1	2183.1	1797.6	645.4	301.4	197.2	171.8	170.7	165.3	154.9	143.0
72.5°	1838.3	1730.3	1451.6	516.7	273.7	176.5	146.1	148.4	141.5	134.2	123.4
75°	1356.6	1285.9	1122.1	414.4	236.4	153.8	121.9	122.6	119.6	111.9	103.4
77.5°	893.4	872.3	802.7	272.2	181.8	122.2	99.6	100.3	98.0	91.1	82.3
80°	601.2	587.0	544.0	175.3	121.5	88.4	76.9	77.7	77.3	70.0	58.0
82.5°	370.6	364.4	350.6	118.4	84.2	63.4	50.7	53.1	57.3	49.2	39.6
85°	174.9	175.3	211.8	64.6	49.6	40.7	27.7	29.6	29.6	29.6	22.3
87.5°	22.7	23.8	29.2	27.3	18.1	15.4	10.0	8.5	7.3	9.6	6.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3
2.5°	1268.6	1260.9	1244.4	1240.5	1238.2	1244.8	1227.5	1232.1	1224.4	1245.9	1242.5
5°	1062.2	1062.9	1076.4	1085.2	1088.3	1085.2	1073.7	1053.7	1038.3	1032.2	1033.7
7.5°	915.3	928.8	951.8	977.6	1001.0	1008.0	1001.4	963.4	921.8	895.7	887.3
10°	866.5	884.6	911.1	931.5	952.2	968.7	972.2	942.6	893.4	831.5	807.3
12.5°	869.2	893.8	919.2	925.7	923.8	930.3	927.2	922.2	889.9	811.1	770.8
15°	843.8	873.0	890.7	887.3	881.1	875.3	867.3	854.6	843.0	787.7	743.1
17.5°	785.4	815.4	830.0	831.1	831.1	829.6	810.0	805.4	803.8	776.9	749.6
20°	796.1	812.7	806.1	795.4	798.4	808.8	797.3	795.0	803.8	815.7	810.8
22.5°	802.3	796.5	747.3	699.7	688.9	721.2	727.7	753.5	789.2	832.3	860.3
25°	764.2	717.7	629.7	575.9	545.5	575.5	614.7	662.4	715.8	771.2	803.8
27.5°	638.9	603.5	540.5	492.1	465.5	470.2	503.6	547.0	596.6	633.9	657.7
30°	481.3	465.5	432.9	416.3	400.2	396.3	410.6	427.1	449.0	453.6	459.8
32.5°	354.4	352.1	354.1	348.7	345.6	345.2	341.0	344.8	347.1	349.8	344.4
35°	320.6	317.5	312.2	310.6	308.7	309.5	307.5	305.6	307.2	309.5	311.0
37.5°	303.3	298.7	291.0	288.3	288.3	289.5	286.4	285.6	288.3	295.6	299.5
40°	289.9	284.5	275.6	272.2	274.5	277.6	273.3	271.8	278.3	286.0	292.2
42.5°	277.2	272.9	264.5	260.6	262.6	268.3	262.2	261.0	269.5	277.9	285.2
45°	266.4	262.2	254.5	252.6	253.3	258.7	254.5	254.5	262.6	271.8	278.3
47.5°	257.9	252.6	247.6	246.0	246.8	249.9	249.1	249.1	256.8	266.4	272.9
50°	249.5	244.9	238.3	239.1	241.0	245.3	244.9	246.0	253.7	265.6	272.6
52.5°	245.6	238.7	231.4	232.2	238.0	243.0	241.4	242.6	251.4	273.7	283.7
55°	241.4	232.2	223.7	224.9	231.4	238.7	236.8	238.3	248.7	279.1	292.9
57.5°	233.3	222.6	213.4	214.1	223.7	231.4	228.3	230.3	242.6	273.3	287.9
58°	229.9	220.7	211.8	212.2	221.4	229.9	226.4	228.0	240.6	271.8	285.6
60°	215.3	209.9	202.2	202.6	211.4	218.7	216.8	218.4	230.7	260.6	271.0
62.5°	195.3	192.2	190.3	190.3	195.7	202.6	204.5	206.4	217.6	235.7	244.9
65°	173.8	173.8	174.1	174.1	177.6	186.4	187.6	192.6	203.0	211.8	218.7
67.5°	159.2	158.4	159.2	157.2	158.8	164.1	169.9	174.5	185.3	191.4	193.7
70°	140.3	139.9	140.3	137.6	139.5	144.2	148.0	155.7	166.8	171.5	172.6
72.5°	121.9	121.9	122.6	120.7	120.7	125.7	128.4	136.9	147.2	149.9	150.3
75°	102.6	103.8	103.8	101.1	101.9	104.9	108.4	115.3	124.9	126.9	126.9
77.5°	81.5	85.7	85.7	83.0	84.2	84.6	89.2	92.6	100.0	100.7	97.6
80°	59.2	63.4	66.9	64.6	66.5	64.2	66.9	69.2	76.5	73.0	68.0
82.5°	42.3	45.4	48.1	48.4	46.5	42.3	45.7	46.1	49.6	45.0	42.3
85°	23.4	26.1	29.6	28.1	25.0	22.3	23.4	24.2	23.8	22.7	21.1
87.5°	6.2	6.5	7.3	5.4	5.0	4.2	5.8	5.8	6.5	6.9	6.5
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3
2.5°	1245.1	1262.1	1298.6	1326.3	1360.1	1401.2	1449.7	1498.5	1551.2	1567.7	1590.7
5°	1030.3	1072.5	1090.2	1140.6	1190.6	1265.5	1345.5	1438.1	1539.6	1588.4	1635.3
7.5°	880.3	903.0	921.5	958.4	1018.3	1109.4	1209.8	1325.5	1469.3	1540.4	1609.2
10°	799.6	801.9	824.6	870.3	922.6	1003.0	1097.9	1227.5	1387.8	1474.3	1555.0
12.5°	746.2	736.2	760.8	808.4	867.6	941.8	1029.1	1152.5	1329.0	1417.8	1515.4
15°	699.3	683.5	702.0	750.8	809.2	896.5	990.3	1121.0	1305.9	1409.3	1517.7
17.5°	700.4	657.0	663.5	704.6	762.7	851.5	965.3	1119.8	1340.9	1460.0	1588.4
20°	786.9	717.3	687.7	695.4	751.5	848.4	976.8	1173.6	1455.8	1629.6	1766.8
22.5°	871.9	830.0	782.3	766.5	797.3	898.8	1050.2	1300.9	1705.7	1967.5	2215.4
25°	842.3	878.0	866.1	843.8	850.7	934.9	1100.2	1405.5	1899.8	2194.7	2427.6
27.5°	673.9	738.9	751.9	751.5	754.2	823.4	989.5	1335.1	1924.0	2238.1	2460.7
30°	473.6	479.4	486.3	499.8	512.1	573.9	774.2	1172.1	1913.3	2257.7	2480.7
32.5°	341.8	349.4	359.1	377.5	406.7	485.5	677.4	1120.2	1970.2	2338.8	2539.1
35°	312.5	321.4	330.6	351.7	379.4	452.5	638.9	1098.7	2063.6	2470.3	2644.1
37.5°	303.3	313.3	321.4	336.8	359.1	428.6	603.9	1084.1	2159.3	2609.5	2784.8
40°	296.8	308.3	314.8	327.1	342.5	406.7	572.8	1072.5	2252.0	2736.7	2897.8
42.5°	291.0	302.9	311.4	320.2	332.9	387.1	545.1	1061.0	2332.3	2860.1	3010.4
45°	284.1	299.1	309.8	316.8	327.9	370.6	524.0	1051.8	2423.8	2969.7	3124.2
47.5°	278.3	294.9	308.3	316.4	320.6	359.1	507.1	1064.5	2533.7	3084.2	3229.9
50°	278.7	294.5	311.4	324.1	312.9	349.4	496.7	1114.8	2676.7	3220.3	3313.4
52.5°	291.0	310.2	323.7	326.8	302.2	337.9	491.3	1202.9	2845.9	3340.6	3397.5
55°	304.8	324.8	339.4	337.5	296.4	323.3	490.1	1296.7	3031.2	3481.0	3507.1
57.5°	299.9	329.1	351.4	341.4	296.8	309.1	485.1	1372.4	3186.1	3585.9	3615.5
58°	298.3	327.5	352.9	340.6	295.6	304.8	484.0	1378.9	3207.6	3593.2	3630.9
60°	283.3	314.1	351.7	334.8	289.1	293.3	471.3	1400.1	3201.9	3555.5	3640.1
62.5°	256.0	281.4	325.2	306.8	269.1	277.9	442.9	1373.9	3045.8	3374.1	3505.2
65°	225.3	244.1	273.3	269.9	240.6	262.2	404.0	1270.5	2733.3	3079.6	3217.6
67.5°	202.2	217.6	236.0	231.0	216.4	241.0	362.1	1095.6	2382.7	2726.0	2899.7
70°	178.8	190.7	199.9	196.4	191.8	220.3	324.8	889.2	2046.7	2390.0	2558.3
72.5°	154.9	166.1	173.8	168.8	166.1	198.4	294.5	690.0	1616.5	1971.7	2188.1
75°	129.6	140.7	146.1	140.3	138.8	174.9	249.5	515.5	1212.9	1520.0	1706.8
77.5°	100.3	112.3	119.2	117.2	118.0	143.8	201.4	352.9	867.3	1036.0	1232.8
80°	70.3	83.4	88.0	86.1	91.5	109.6	142.2	224.1	598.2	672.4	811.1
82.5°	43.4	55.7	56.5	58.4	62.3	81.1	107.3	136.5	375.6	388.3	489.0
85°	21.9	26.5	28.4	31.5	35.0	49.6	61.1	84.6	241.8	183.0	273.3
87.5°	7.3	7.7	9.2	11.5	14.2	20.4	26.1	34.6	60.0	33.1	84.6
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°	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3
2.5°	1637.3	1669.9	1693.8	1715.7	1694.5	1692.6	1671.9	1638.4	1624.6	1624.6
5°	1733.8	1810.3	1872.1	1911.7	1894.8	1854.1	1786.8	1701.1	1654.9	1646.9
7.5°	1760.3	1911.4	2026.3	2067.0	2038.6	1948.6	1819.9	1675.3	1609.2	1594.6
10°	1744.1	1940.6	2109.3	2173.9	2134.3	1998.2	1822.6	1645.3	1563.8	1546.9
12.5°	1727.2	1944.4	2124.7	2218.1	2192.4	2038.2	1842.2	1625.7	1531.5	1507.3
15°	1739.5	1946.0	2105.9	2202.4	2218.9	2086.3	1874.5	1640.0	1525.0	1499.3
17.5°	1817.2	1975.2	2079.0	2157.0	2215.1	2151.6	1966.3	1708.0	1583.4	1551.5
20°	1979.4	2045.1	2094.3	2154.7	2248.1	2285.0	2154.3	1894.8	1747.6	1719.5
22.5°	2449.2	2437.2	2336.5	2335.4	2470.7	2618.7	2609.9	2274.6	2053.2	2030.1
25°	2625.2	2569.9	2424.2	2388.8	2448.4	2676.7	2643.7	2352.3	2147.8	2091.7
27.5°	2556.4	2419.2	2323.5	2315.4	2295.8	2511.4	2591.0	2383.8	2180.8	2126.2
30°	2552.2	2350.4	2213.5	2229.7	2248.5	2454.5	2620.2	2482.6	2265.4	2207.0
32.5°	2562.6	2360.0	2221.6	2224.7	2280.8	2463.0	2652.5	2590.2	2376.5	2318.1
35°	2604.5	2414.6	2273.1	2265.8	2353.4	2518.4	2707.5	2759.4	2528.4	2461.9
37.5°	2672.1	2523.4	2367.3	2365.4	2492.6	2618.3	2775.9	2930.1	2679.4	2607.9
40°	2771.7	2650.6	2534.9	2524.5	2681.7	2780.9	2864.7	3111.9	2855.1	2763.2
42.5°	2892.0	2803.2	2755.9	2797.1	2948.1	2963.5	3003.1	3279.9	3004.7	2897.8
45°	3003.5	2999.3	3065.0	3174.2	3262.2	3170.0	3147.7	3392.5	3120.8	3004.7
47.5°	3136.1	3250.7	3449.1	3609.0	3701.2	3410.2	3271.1	3466.0	3205.3	3098.5
50°	3270.7	3551.7	3868.5	4091.4	4111.0	3671.3	3356.0	3535.2	3282.2	3171.1
52.5°	3412.1	3792.0	4213.7	4472.8	4434.7	3898.4	3438.3	3582.1	3361.4	3263.8
55°	3535.2	3939.2	4406.7	4655.4	4599.6	4036.8	3527.1	3632.8	3474.4	3392.2
57.5°	3604.0	3951.5	4358.6	4575.8	4515.4	4009.9	3567.8	3670.5	3546.7	3482.1
58°	3614.0	3935.0	4315.9	4529.7	4468.2	3987.2	3567.5	3668.9	3551.3	3486.3
60°	3605.1	3827.7	4157.2	4347.5	4282.9	3845.0	3552.8	3640.1	3492.9	3437.9
62.5°	3523.2	3641.6	3883.1	4021.5	4003.0	3622.8	3492.9	3531.3	3314.9	3261.8
65°	3415.6	3387.9	3532.1	3630.1	3644.0	3456.4	3433.3	3296.1	3086.5	3011.6
67.5°	3284.9	3100.4	3100.0	3155.7	3178.8	3200.3	3309.1	3040.4	2757.5	2678.3
70°	3063.1	2657.1	2534.9	2600.6	2581.4	2763.2	3087.3	2681.4	2360.7	2268.1
72.5°	2656.4	2108.6	1912.9	1997.5	1949.0	2167.0	2701.3	2206.6	1952.1	1838.3
75°	2153.2	1577.3	1375.5	1453.1	1423.1	1643.8	2247.7	1602.7	1400.1	1356.6
77.5°	1671.9	1142.9	1025.6	1014.9	1037.2	1223.2	1648.8	1082.2	923.0	893.4
80°	1074.1	818.1	825.0	811.1	822.7	771.2	1001.0	690.4	625.1	601.2
82.5°	707.0	570.1	679.7	627.4	595.9	518.6	656.6	452.1	383.7	370.6
85°	481.7	419.8	382.1	292.2	344.1	399.4	492.4	243.3	193.0	174.9
87.5°	217.6	146.1	107.3	66.1	104.6	120.7	239.1	28.4	21.9	22.7
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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