

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: P651741

Luminaire Tested: **GALN-SA2A-840-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651741
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-840-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 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: 6666.6 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

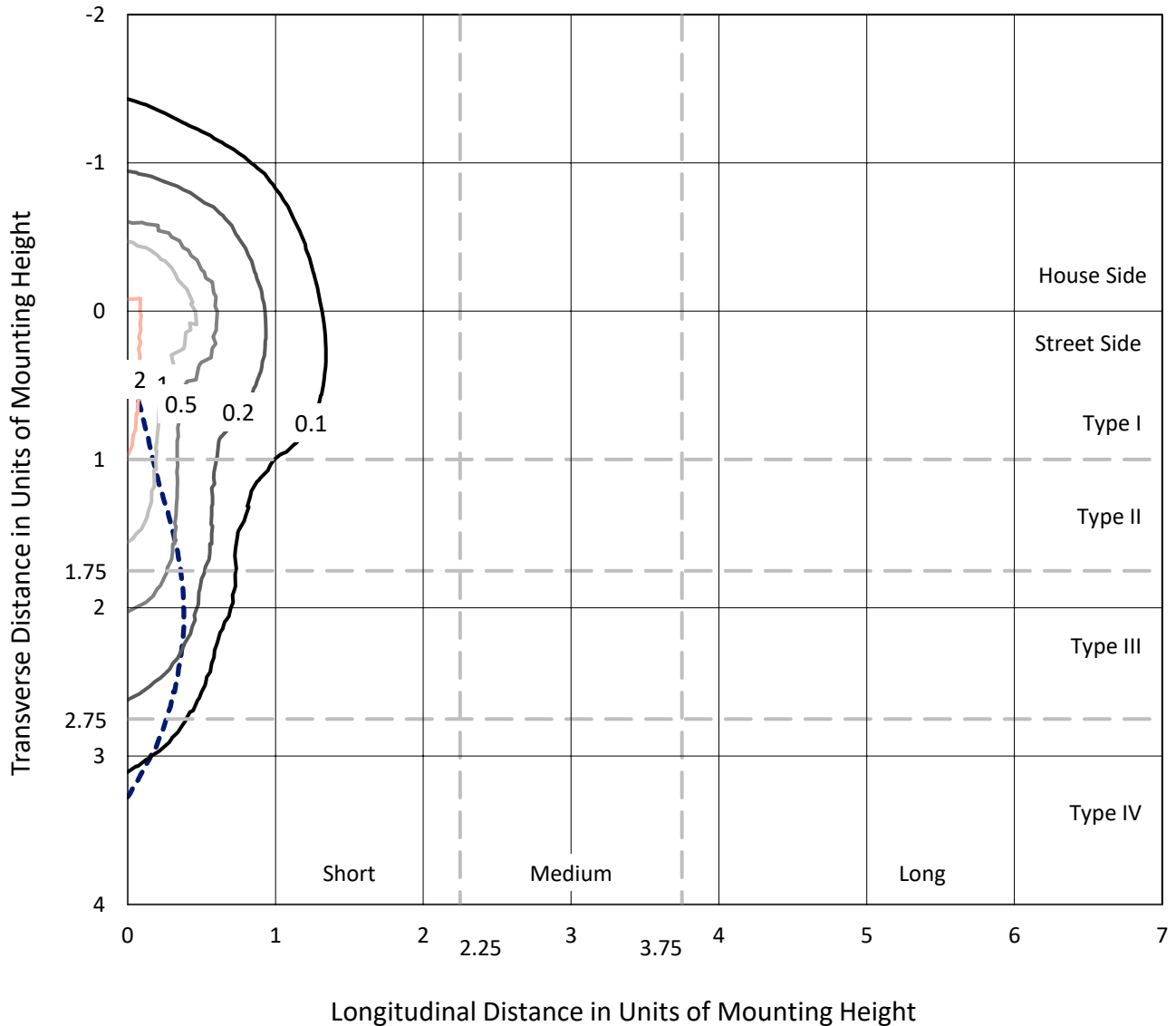
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

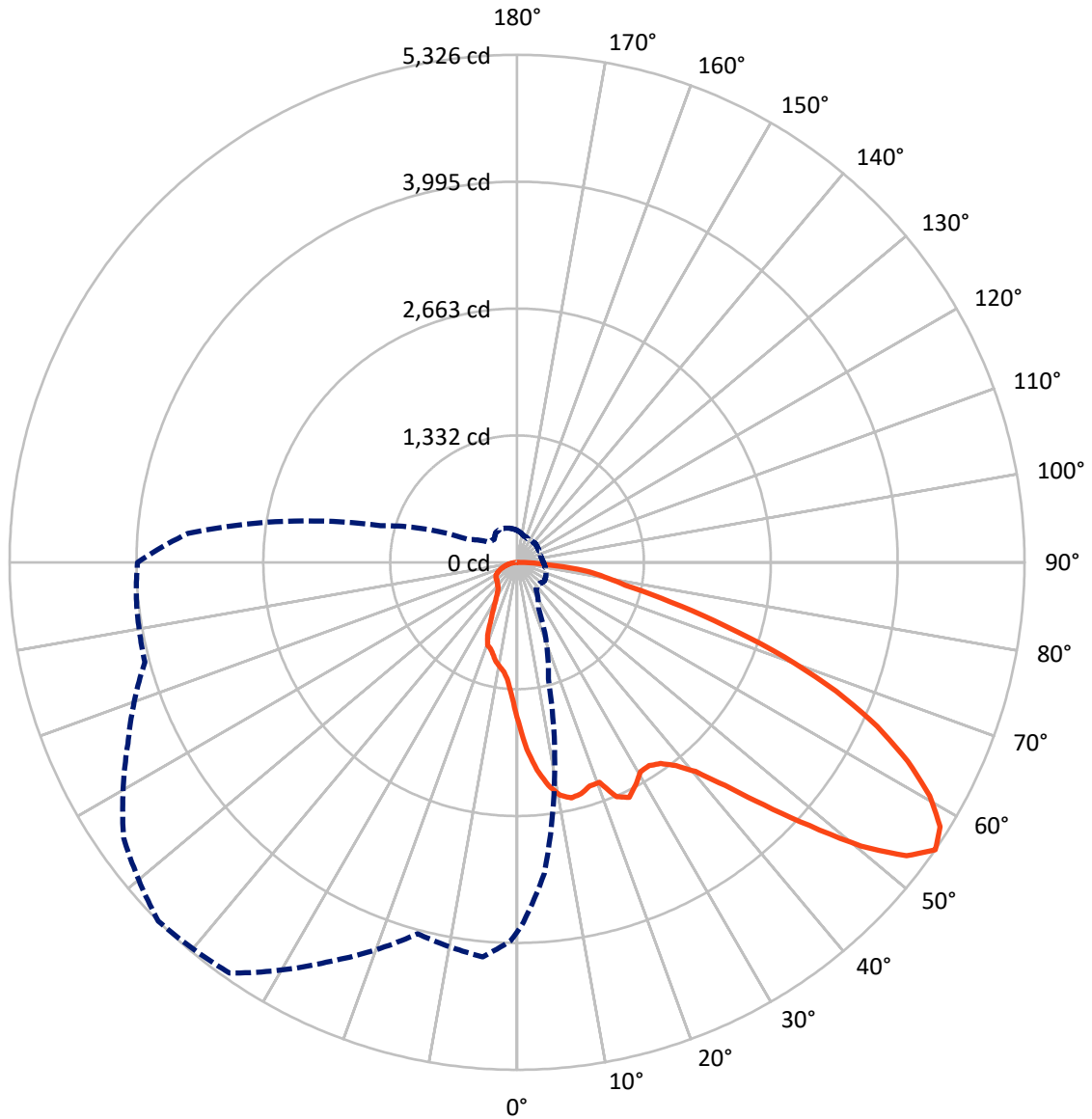
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	1458.3	0.0	1458.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	5208.3	0.0	5208.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	6666.6	0.0	6666.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.8	2.1
10°-20°	376.2	5.6
20°-30°	649.9	9.7
30°-40°	755.3	11.3
40°-50°	1053.8	15.8
50°-60°	1429.8	21.4
60°-70°	1360.3	20.4
70°-80°	734.9	11.0
80°-90°	164.7	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°	6666.6	100.0
0°-180°	6666.6	100.0

Coefficient of Utilization

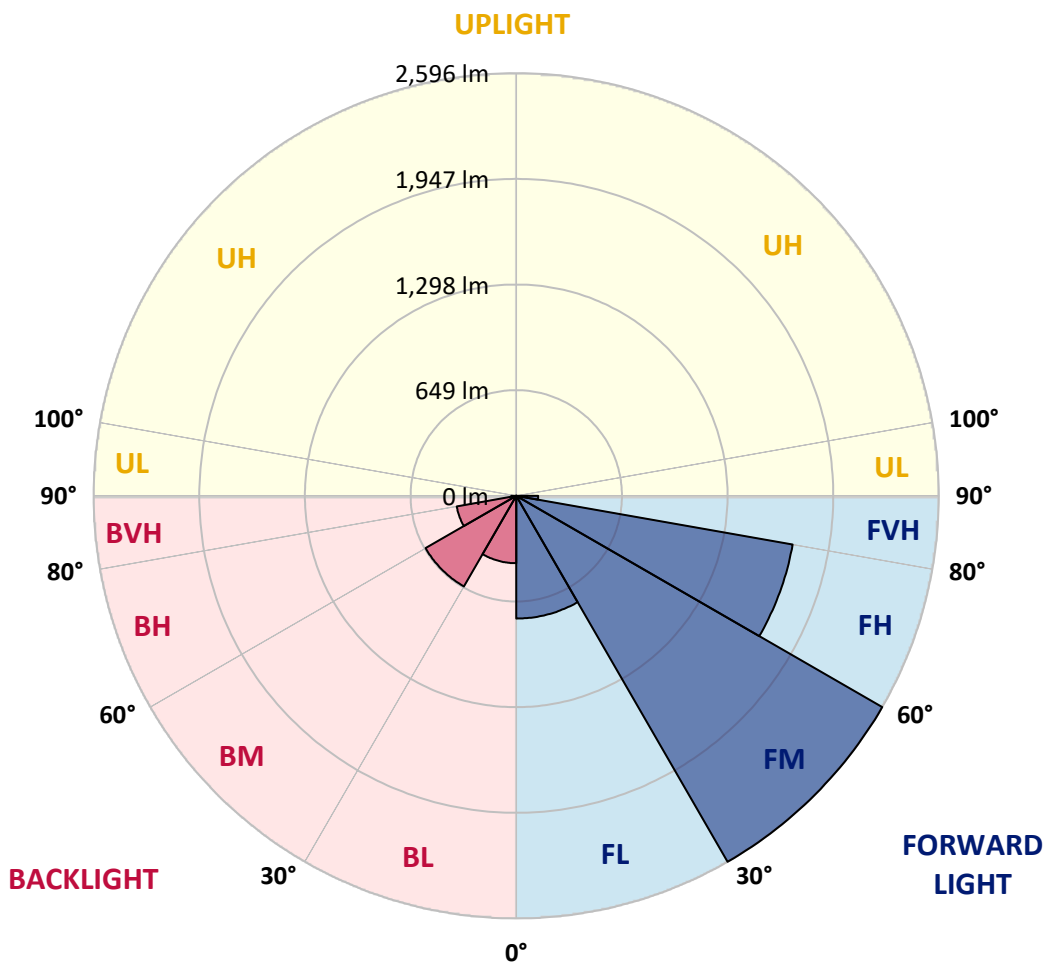


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	754.0	11.3			
FM (30°-60°)	2595.8	38.9			
FH (60°-80°)	1723.9	25.9			G1/1800
FVH (80°-90°)	134.6	2.0			G2/225
BL (0°-30°)	413.9	6.2	B1/500		
BM (30°-60°)	643.0	9.6	B1/1000		
BH (60°-80°)	371.3	5.6	B1/500		G1/500
BVH (80°-90°)	30.1	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°	1673.1	1673.1	1673.1	1673.1	1673.1	1673.1	1673.1	1673.1	1673.1	1673.1	1673.1
2.5°	1858.7	1851.6	1831.9	1779.9	1727.6	1674.3	1633.5	1582.4	1529.3	1500.7	1464.2
5°	1884.2	1876.3	1829.6	1712.6	1606.6	1495.4	1406.5	1328.7	1297.0	1250.4	1213.0
7.5°	1824.4	1820.8	1750.9	1582.9	1437.8	1292.2	1191.4	1129.0	1072.3	1051.2	1055.5
10°	1769.8	1755.8	1668.2	1448.8	1279.4	1161.1	1089.0	1027.9	987.8	977.2	979.4
12.5°	1724.6	1705.6	1602.3	1358.6	1210.4	1115.8	1023.9	960.1	923.6	933.8	968.1
15°	1715.3	1689.7	1574.5	1327.8	1172.5	1050.7	950.0	876.6	849.2	871.3	926.3
17.5°	1775.1	1743.0	1622.0	1337.9	1136.4	984.3	860.7	776.7	753.9	789.0	860.7
20°	1967.3	1919.8	1770.2	1396.4	1133.0	951.3	808.8	724.4	734.0	800.9	875.6
22.5°	2322.7	2251.4	2029.8	1481.8	1151.4	942.9	798.3	754.3	807.5	864.2	913.5
25°	2393.1	2337.1	2076.3	1501.1	1147.5	937.2	828.1	850.2	909.5	937.7	920.6
27.5°	2432.6	2368.8	2073.3	1405.2	1026.1	850.2	791.6	828.1	843.1	815.9	769.3
30°	2525.0	2458.6	2125.6	1304.5	844.9	630.7	552.9	537.9	548.0	553.3	536.6
32.5°	2652.1	2586.6	2224.1	1238.5	730.5	521.6	445.1	423.9	419.2	413.4	406.8
35°	2816.6	2715.8	2320.9	1196.3	683.5	482.5	412.1	395.9	389.2	381.3	374.2
37.5°	2983.7	2878.2	2443.2	1151.9	652.3	455.2	390.1	382.7	371.2	362.8	352.7
40°	3161.4	3043.1	2554.5	1113.1	621.9	437.7	374.2	373.4	358.4	348.8	336.9
42.5°	3315.3	3193.5	2653.9	1089.4	598.6	419.2	364.6	367.3	351.9	337.3	321.9
45°	3437.6	3318.0	2745.8	1089.4	579.7	400.7	362.8	361.1	345.7	327.7	310.1
47.5°	3544.9	3421.4	2835.5	1117.1	567.8	385.3	353.1	356.2	340.4	317.6	300.4
50°	3628.1	3519.0	2956.5	1160.2	555.9	373.0	340.9	357.6	336.0	312.3	292.5
52.5°	3734.0	3636.4	3102.0	1219.2	545.8	359.4	329.8	357.6	335.6	312.7	291.2
55°	3881.0	3778.0	3277.5	1268.0	529.6	346.6	320.2	347.4	334.3	310.5	287.6
57.5°	3983.8	3906.9	3401.5	1300.5	506.2	330.3	311.4	337.7	328.6	302.2	277.1
58°	3988.7	3913.5	3419.6	1308.0	500.5	327.2	309.2	333.4	325.9	298.6	273.6
60°	3933.3	3868.6	3423.1	1297.5	467.9	311.8	297.7	315.4	311.8	278.0	254.7
62.5°	3731.9	3662.8	3281.0	1211.7	424.9	292.9	280.1	291.2	283.2	248.9	227.4
65°	3445.5	3318.4	2989.0	1077.1	394.1	272.7	256.4	257.3	248.9	224.3	205.4
67.5°	3064.2	2922.1	2530.7	907.8	370.8	250.3	228.2	226.1	216.0	200.2	184.7
70°	2594.9	2497.7	2056.6	738.5	344.8	225.6	196.6	195.3	189.1	177.3	163.6
72.5°	2103.2	1979.6	1660.7	591.1	313.2	201.8	167.1	169.8	161.9	153.5	141.2
75°	1552.1	1471.2	1283.8	474.2	270.5	175.9	139.4	140.3	136.7	128.0	118.3
77.5°	1022.2	997.9	918.4	311.4	208.1	139.9	113.9	114.8	112.2	104.2	94.1
80°	687.9	671.6	622.3	200.6	139.0	101.2	88.0	88.8	88.4	80.1	66.4
82.5°	423.9	417.0	401.1	135.5	96.3	72.6	58.0	60.7	65.5	56.3	45.3
85°	200.2	200.6	242.4	73.9	56.8	46.6	31.7	33.9	33.9	33.9	25.5
87.5°	26.0	27.2	33.4	31.2	20.7	17.6	11.4	9.7	8.3	11.0	7.9
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°	1673.1	1673.1	1673.1	1673.1	1673.1	1673.1	1673.1	1673.1	1673.1	1673.1	1673.1
2.5°	1451.4	1442.6	1423.6	1419.3	1416.7	1424.1	1404.3	1409.6	1400.9	1425.4	1421.5
5°	1215.2	1216.1	1231.5	1241.6	1245.1	1241.6	1228.4	1205.6	1187.9	1180.9	1182.7
7.5°	1047.2	1062.6	1089.0	1118.4	1145.3	1153.2	1145.7	1102.2	1054.7	1024.8	1015.1
10°	991.4	1012.0	1042.3	1065.6	1089.4	1108.4	1112.3	1078.4	1022.2	951.3	923.6
12.5°	994.4	1022.6	1051.6	1059.1	1056.9	1064.4	1060.8	1055.1	1018.2	928.0	881.8
15°	965.4	998.9	1019.0	1015.1	1008.0	1001.5	992.2	977.7	964.5	901.2	850.2
17.5°	898.5	932.8	949.6	950.9	950.9	949.2	926.7	921.4	919.6	888.9	857.7
20°	910.9	929.8	922.3	910.0	913.5	925.4	912.1	909.5	919.6	933.3	927.5
22.5°	917.9	911.3	855.0	800.5	788.2	825.1	832.6	862.0	903.0	952.2	984.3
25°	874.4	821.2	720.4	658.8	624.1	658.4	703.2	757.8	819.0	882.3	919.6
27.5°	731.0	690.5	618.4	563.0	532.6	537.9	576.2	625.9	682.6	725.3	752.5
30°	550.7	532.6	495.3	476.3	457.8	453.5	469.7	488.6	513.7	519.0	526.0
32.5°	405.5	402.8	405.1	398.9	395.4	394.9	390.1	394.5	397.1	400.2	394.1
35°	366.8	363.3	357.1	355.4	353.1	354.1	351.9	349.7	351.5	354.1	355.8
37.5°	347.0	341.7	333.0	329.8	329.8	331.2	327.7	326.8	329.8	338.3	342.6
40°	331.6	325.5	315.4	311.4	314.0	317.6	312.7	310.9	318.4	327.2	334.3
42.5°	317.1	312.3	302.6	298.2	300.4	307.0	300.0	298.6	308.3	318.0	326.3
45°	304.8	300.0	291.2	289.0	289.8	296.0	291.2	291.2	300.4	310.9	318.4
47.5°	295.1	289.0	283.2	281.5	282.3	285.9	285.0	285.0	293.8	304.8	312.3
50°	285.4	280.1	272.7	273.6	275.8	280.6	280.1	281.5	290.3	303.9	311.8
52.5°	281.1	273.2	264.7	265.7	272.2	278.0	276.2	277.5	287.6	313.2	324.5
55°	276.2	265.7	256.0	257.3	264.7	273.2	270.9	272.7	284.6	319.3	335.1
57.5°	266.9	254.7	244.1	245.0	256.0	264.7	261.2	263.5	277.5	312.7	329.4
58°	263.0	252.5	242.4	242.8	253.3	263.0	259.0	260.8	275.3	310.9	326.8
60°	246.3	240.1	231.4	231.8	241.9	250.3	248.1	249.8	263.9	298.2	310.1
62.5°	223.5	219.9	217.7	217.7	223.9	231.8	234.0	236.2	248.9	269.6	280.1
65°	198.8	198.8	199.2	199.2	203.2	213.3	214.6	220.3	232.2	242.4	250.3
67.5°	182.1	181.2	182.1	179.9	181.7	187.8	194.4	199.7	212.0	219.0	221.7
70°	160.5	160.1	160.5	157.4	159.6	164.9	169.3	178.1	190.9	196.1	197.5
72.5°	139.4	139.4	140.3	138.1	138.1	143.8	146.9	156.6	168.5	171.6	172.0
75°	117.4	118.7	118.7	115.6	116.6	120.1	124.0	132.0	143.0	145.2	145.2
77.5°	93.3	98.1	98.1	95.0	96.3	96.8	102.0	106.0	114.4	115.2	111.7
80°	67.7	72.6	76.5	73.9	76.1	73.4	76.5	79.1	87.5	83.6	77.9
82.5°	48.4	51.9	55.0	55.4	53.2	48.4	52.3	52.8	56.8	51.5	48.4
85°	26.8	29.9	33.9	32.1	28.6	25.5	26.8	27.7	27.2	26.0	24.2
87.5°	7.1	7.5	8.3	6.1	5.7	4.9	6.6	6.6	7.5	7.9	7.5
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°	1673.1	1673.1	1673.1	1673.1	1673.1	1673.1	1673.1	1673.1	1673.1	1673.1	1673.1
2.5°	1424.6	1443.9	1485.7	1517.3	1556.1	1603.1	1658.5	1714.4	1774.7	1793.6	1819.9
5°	1178.7	1227.1	1247.3	1304.9	1362.1	1447.9	1539.4	1645.3	1761.5	1817.3	1871.0
7.5°	1007.2	1033.2	1054.3	1096.5	1165.0	1269.3	1384.1	1516.5	1681.0	1762.3	1841.0
10°	914.8	917.4	943.4	995.7	1055.5	1147.5	1256.1	1404.3	1587.7	1686.7	1779.1
12.5°	853.7	842.3	870.4	924.9	992.6	1077.6	1177.4	1318.6	1520.4	1622.0	1733.7
15°	800.0	782.0	803.1	859.0	925.8	1025.7	1133.0	1282.5	1494.0	1612.4	1736.4
17.5°	801.3	751.7	759.1	806.2	872.6	974.2	1104.4	1281.2	1534.1	1670.4	1817.3
20°	900.3	820.7	786.8	795.6	859.8	970.7	1117.6	1342.7	1665.6	1864.4	2021.4
22.5°	997.5	949.6	895.0	877.0	912.1	1028.3	1201.5	1488.3	1951.5	2250.9	2534.7
25°	963.6	1004.6	990.9	965.4	973.3	1069.7	1258.7	1608.0	2173.6	2510.9	2777.4
27.5°	771.0	845.3	860.3	859.8	863.0	942.1	1132.1	1527.5	2201.3	2560.6	2815.2
30°	541.9	548.4	556.4	571.8	585.8	656.7	885.8	1341.0	2189.0	2583.0	2838.1
32.5°	391.0	399.8	410.8	431.9	465.3	555.5	775.0	1281.6	2254.0	2675.8	2905.0
35°	357.6	367.7	378.3	402.4	434.1	517.6	731.0	1257.0	2360.9	2826.3	3025.1
37.5°	347.0	358.4	367.7	385.3	410.8	490.4	691.0	1240.3	2470.4	2985.5	3186.0
40°	339.5	352.7	360.2	374.2	391.9	465.3	655.3	1227.1	2576.4	3131.0	3315.3
42.5°	333.0	346.6	356.2	366.3	380.9	442.9	623.7	1213.9	2668.3	3272.2	3444.2
45°	325.0	342.2	354.5	362.4	375.2	423.9	599.5	1203.3	2773.0	3397.6	3574.4
47.5°	318.4	337.3	352.7	362.0	366.8	410.8	580.1	1217.9	2898.8	3528.7	3695.4
50°	318.9	336.9	356.2	370.8	358.0	399.8	568.3	1275.5	3062.4	3684.3	3790.8
52.5°	333.0	354.9	370.3	373.8	345.7	386.6	562.1	1376.2	3255.9	3822.0	3887.1
55°	348.8	371.6	388.4	386.2	339.1	369.9	560.8	1483.5	3467.9	3982.6	4012.4
57.5°	343.0	376.5	402.0	390.6	339.5	353.6	555.1	1570.1	3645.2	4102.6	4136.5
58°	341.3	374.7	403.8	389.6	338.3	348.8	553.7	1577.6	3669.8	4111.0	4154.0
60°	324.1	359.4	402.4	383.1	330.8	335.6	539.2	1601.8	3663.2	4067.8	4164.6
62.5°	292.9	321.9	372.1	350.9	307.9	318.0	506.7	1571.9	3484.7	3860.3	4010.2
65°	257.8	279.3	312.7	308.7	275.3	300.0	462.2	1453.6	3127.1	3523.4	3681.2
67.5°	231.4	248.9	270.0	264.3	247.6	275.8	414.3	1253.5	2726.0	3118.8	3317.5
70°	204.5	218.2	228.7	224.7	219.5	252.0	371.6	1017.3	2341.6	2734.3	2926.9
72.5°	177.3	190.0	198.8	193.1	190.0	227.0	336.9	789.4	1849.4	2255.8	2503.4
75°	148.2	161.0	167.1	160.5	158.8	200.2	285.4	589.8	1387.6	1739.0	1952.8
77.5°	114.8	128.4	136.3	134.1	135.1	164.5	230.4	403.8	992.2	1185.3	1410.5
80°	80.5	95.5	100.8	98.5	104.7	125.3	162.7	256.4	684.3	769.3	928.0
82.5°	49.7	63.7	64.7	66.9	71.2	92.8	122.7	156.2	429.7	444.2	559.4
85°	25.1	30.4	32.5	36.1	40.0	56.8	70.0	96.8	276.6	209.3	312.7
87.5°	8.3	8.8	10.6	13.2	16.2	23.3	29.9	39.6	68.6	37.8	96.8
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°	1673.1	1673.1	1673.1	1673.1	1673.1	1673.1	1673.1	1673.1	1673.1	1673.1
2.5°	1873.2	1910.6	1937.8	1962.9	1938.7	1936.5	1912.8	1874.5	1858.7	1858.7
5°	1983.6	2071.1	2141.9	2187.2	2167.8	2121.3	2044.3	1946.2	1893.4	1884.2
7.5°	2013.9	2186.8	2318.3	2364.9	2332.3	2229.4	2082.1	1916.7	1841.0	1824.4
10°	1995.4	2220.2	2413.2	2487.2	2441.8	2286.2	2085.2	1882.4	1789.1	1769.8
12.5°	1976.1	2224.6	2430.8	2537.7	2508.3	2331.9	2107.6	1860.0	1752.2	1724.6
15°	1990.1	2226.4	2409.3	2519.7	2538.6	2386.8	2144.5	1876.3	1744.7	1715.3
17.5°	2079.0	2259.8	2378.5	2467.8	2534.2	2461.6	2249.7	1954.1	1811.6	1775.1
20°	2264.6	2339.8	2396.1	2465.1	2572.0	2614.2	2464.7	2167.8	1999.4	1967.3
22.5°	2802.0	2788.4	2673.2	2671.9	2826.7	2996.1	2985.9	2602.4	2349.1	2322.7
25°	3003.5	2940.1	2773.4	2733.0	2801.2	3062.4	3024.6	2691.2	2457.2	2393.1
27.5°	2924.7	2767.7	2658.2	2649.0	2626.6	2873.3	2964.4	2727.3	2495.1	2432.6
30°	2920.0	2689.0	2532.4	2550.9	2572.5	2808.2	2997.7	2840.3	2591.8	2525.0
32.5°	2931.8	2700.0	2541.7	2545.2	2609.5	2817.9	3034.7	2963.5	2719.0	2652.1
35°	2979.7	2762.5	2600.6	2592.3	2692.5	2881.3	3097.7	3157.0	2892.7	2816.6
37.5°	3057.1	2887.0	2708.4	2706.2	2851.7	2995.6	3175.9	3352.3	3065.5	2983.7
40°	3171.1	3032.6	2900.1	2888.2	3068.1	3181.6	3277.5	3560.3	3266.5	3161.4
42.5°	3308.7	3207.2	3153.1	3200.1	3372.9	3390.6	3435.8	3752.5	3437.6	3315.3
45°	3436.2	3431.4	3506.6	3631.5	3732.3	3626.7	3601.2	3881.4	3570.4	3437.6
47.5°	3588.0	3719.1	3946.1	4129.0	4234.5	3901.6	3742.4	3965.4	3667.2	3544.9
50°	3741.9	4063.5	4425.8	4680.9	4703.4	4200.2	3839.6	4044.5	3755.1	3628.1
52.5°	3903.8	4338.3	4820.8	5117.2	5073.7	4460.2	3933.7	4098.2	3845.7	3734.0
55°	4044.5	4506.8	5041.6	5326.1	5262.4	4618.5	4035.3	4156.2	3975.1	3881.0
57.5°	4123.3	4520.9	4986.6	5235.1	5166.1	4587.7	4082.0	4199.4	4057.7	3983.8
58°	4134.7	4502.0	4937.8	5182.3	5111.9	4561.8	4081.5	4197.6	4063.0	3988.7
60°	4124.6	4379.3	4756.2	4973.8	4900.0	4399.0	4064.8	4164.6	3996.2	3933.3
62.5°	4030.9	4166.4	4442.6	4600.9	4579.8	4144.8	3996.2	4040.2	3792.5	3731.9
65°	3907.8	3876.1	4041.0	4153.2	4169.0	3954.4	3928.0	3771.0	3531.3	3445.5
67.5°	3758.3	3547.1	3546.7	3610.4	3636.8	3661.5	3785.9	3478.5	3154.8	3064.2
70°	3504.4	3040.0	2900.1	2975.4	2953.3	3161.4	3532.1	3067.7	2700.9	2594.9
72.5°	3039.1	2412.4	2188.5	2285.2	2229.8	2479.3	3090.6	2524.5	2233.4	2103.2
75°	2463.4	1804.5	1573.7	1662.5	1628.2	1880.6	2571.6	1833.6	1601.8	1552.1
77.5°	1912.8	1307.6	1173.4	1161.1	1186.7	1399.5	1886.4	1238.1	1056.0	1022.2
80°	1228.9	935.9	943.9	928.0	941.2	882.3	1145.3	789.9	715.1	687.9
82.5°	808.8	652.3	777.6	717.8	681.7	593.3	751.2	517.2	438.9	423.9
85°	551.1	480.3	437.2	334.3	393.7	457.0	563.4	278.4	220.8	200.2
87.5°	248.9	167.1	122.7	75.7	119.6	138.1	273.6	32.5	25.1	26.0
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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