

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: P648276

Luminaire Tested: **GALN-SA2B-835-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648276
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-SA2B-835-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 800mA 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: 7722.7 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

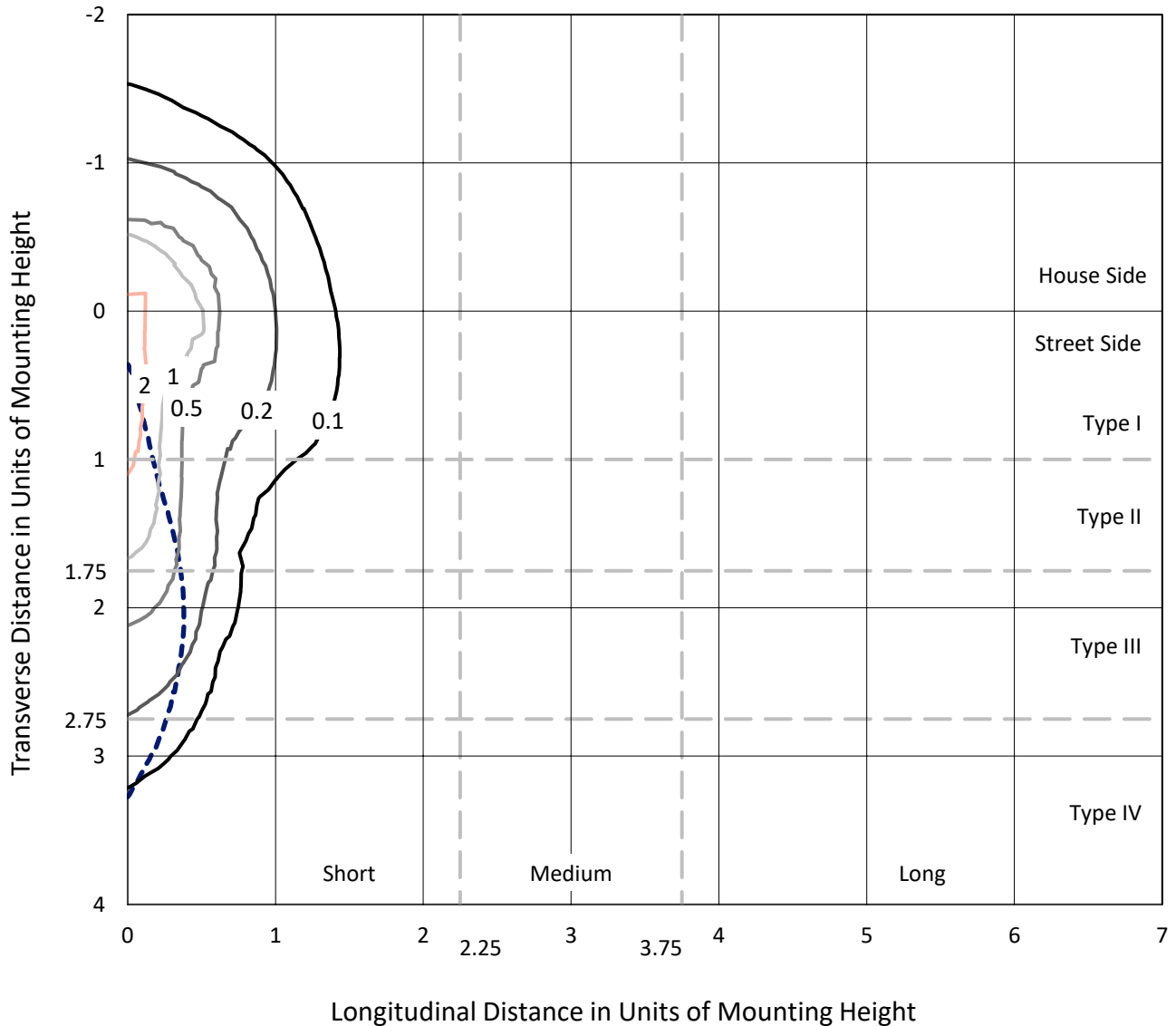
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

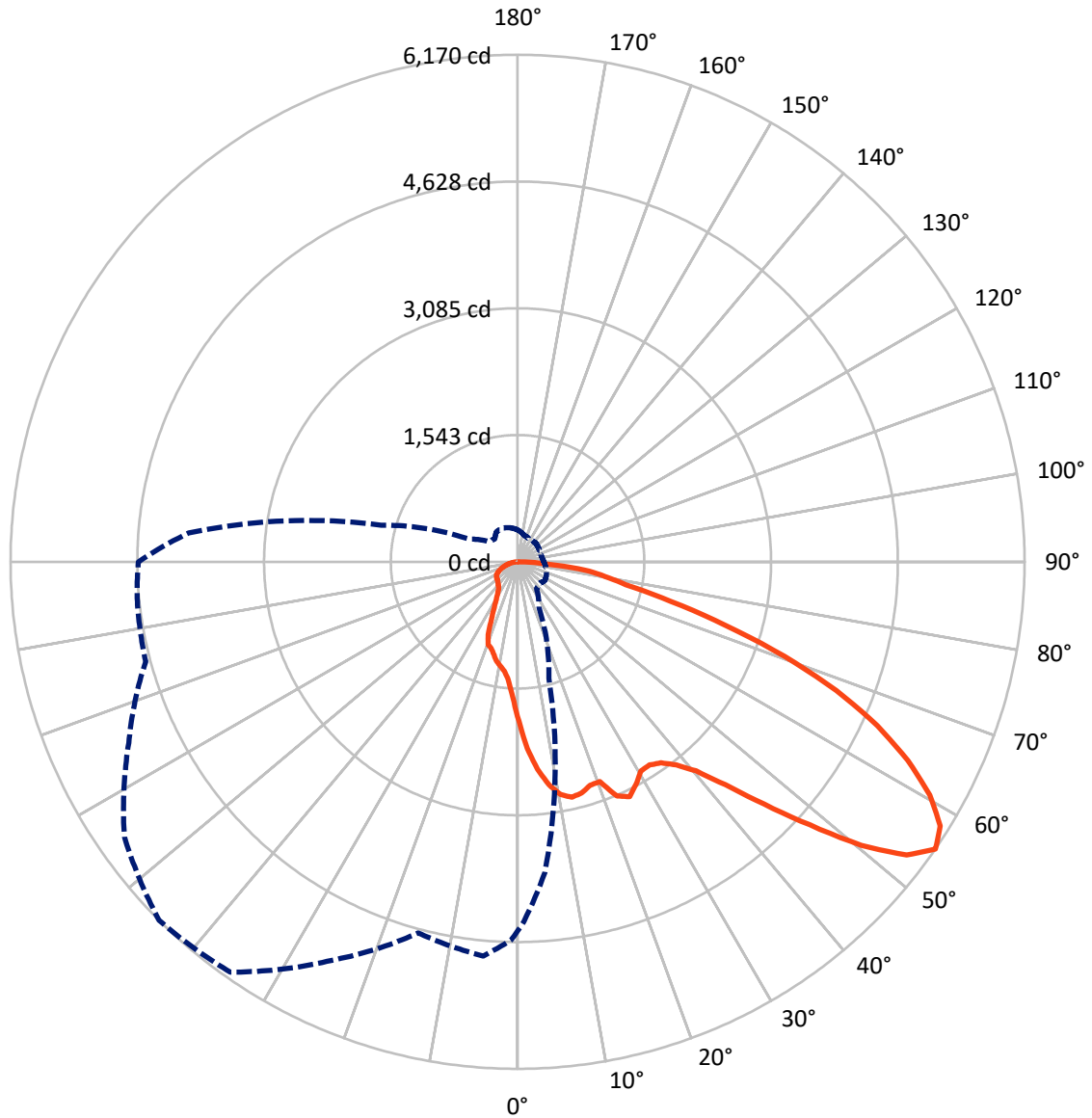
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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	1689.3	0.0	1689.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	6033.4	0.0	6033.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	7722.7	0.0	7722.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.3	2.1
10°-20°	435.8	5.6
20°-30°	752.8	9.7
30°-40°	874.9	11.3
40°-50°	1220.7	15.8
50°-60°	1656.3	21.4
60°-70°	1575.8	20.4
70°-80°	851.3	11.0
80°-90°	190.8	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°	7722.7	100.0
0°-180°	7722.7	100.0

Coefficient of Utilization



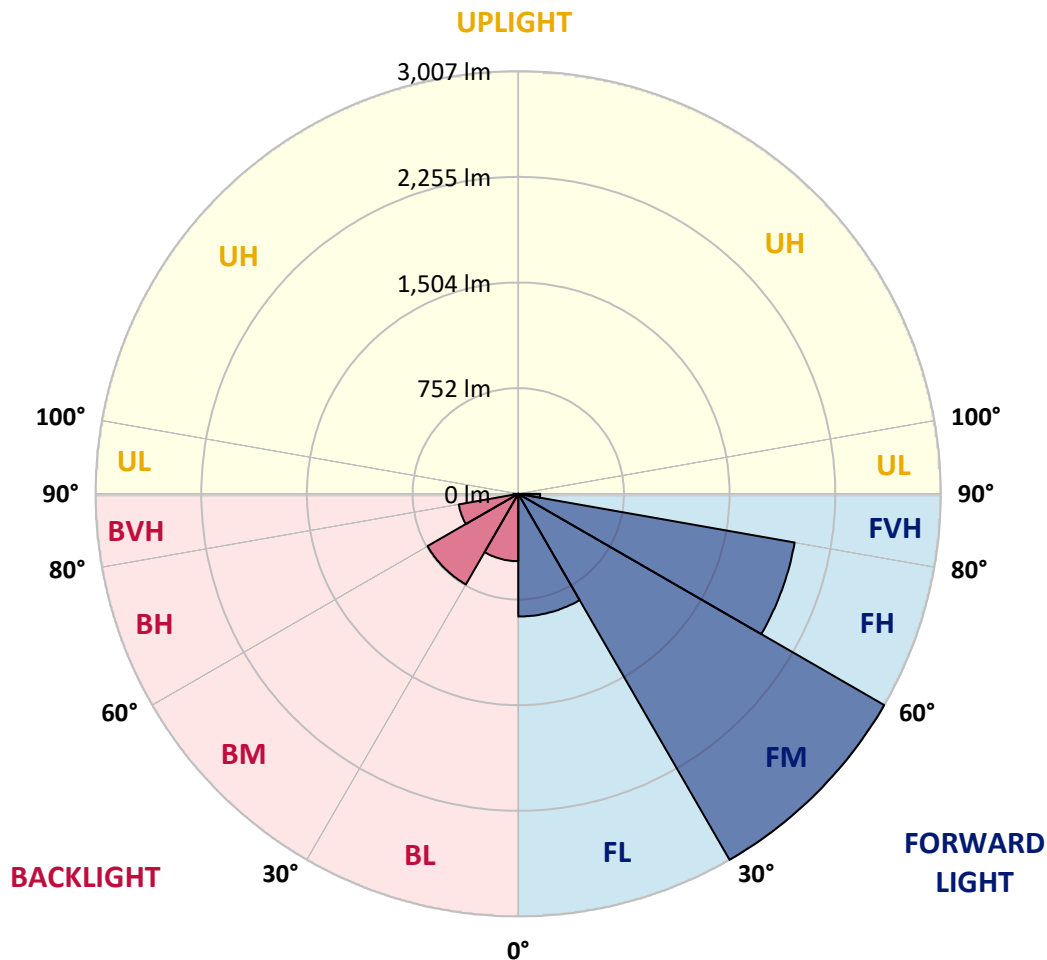
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	873.5	11.3			
FM (30°-60°)	3007.1	38.9			
FH (60°-80°)	1997.0	25.9			G2/5000
FVH (80°-90°)	155.9	2.0			G2/225
BL (0°-30°)	479.4	6.2	B1/500		
BM (30°-60°)	744.9	9.6	B1/1000		
BH (60°-80°)	430.1	5.6	B1/500		G1/500
BVH (80°-90°)	34.9	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°	1938.1	1938.1	1938.1	1938.1	1938.1	1938.1	1938.1	1938.1	1938.1	1938.1	1938.1
2.5°	2153.1	2145.0	2122.0	2061.9	2001.3	1939.6	1892.3	1833.2	1771.5	1738.4	1696.1
5°	2182.7	2173.5	2119.5	1984.0	1861.2	1732.2	1629.3	1539.1	1502.5	1448.5	1405.2
7.5°	2113.4	2109.3	2028.3	1833.6	1665.5	1496.9	1380.2	1307.8	1242.2	1217.7	1222.8
10°	2050.2	2033.9	1932.5	1678.3	1482.1	1345.0	1261.5	1190.7	1144.4	1132.1	1134.6
12.5°	1997.7	1975.8	1856.1	1573.8	1402.1	1292.6	1186.1	1112.3	1070.0	1081.6	1121.4
15°	1987.0	1957.5	1824.0	1538.1	1358.3	1217.2	1100.5	1015.4	983.8	1009.3	1073.0
17.5°	2056.3	2019.1	1879.0	1549.9	1316.5	1140.2	997.1	899.7	873.3	914.0	997.1
20°	2278.9	2224.0	2050.7	1617.6	1312.5	1102.0	936.9	839.1	850.3	927.8	1014.4
22.5°	2690.6	2608.1	2351.3	1716.5	1333.8	1092.4	924.7	873.7	935.5	1001.1	1058.2
25°	2772.1	2707.5	2405.3	1738.9	1329.3	1085.7	959.4	984.9	1053.6	1086.3	1066.4
27.5°	2818.0	2744.1	2401.8	1627.9	1188.7	984.9	917.0	959.4	976.7	945.1	891.1
30°	2925.0	2848.1	2462.4	1511.1	978.8	730.6	640.4	623.1	634.9	641.0	621.5
32.5°	3072.3	2996.3	2576.5	1434.7	846.3	604.2	515.6	491.2	485.5	478.9	471.3
35°	3262.8	3146.1	2688.6	1385.8	791.8	558.9	477.4	458.5	450.9	441.7	433.5
37.5°	3456.4	3334.1	2830.2	1334.4	755.6	527.4	451.9	443.3	430.0	420.3	408.6
40°	3662.2	3525.1	2959.1	1289.5	720.4	506.9	433.5	432.5	415.2	404.0	390.2
42.5°	3840.5	3699.4	3074.3	1262.0	693.4	485.5	422.4	425.4	407.6	390.8	372.9
45°	3982.2	3843.6	3180.8	1262.0	671.5	464.2	420.3	418.3	400.4	379.6	359.2
47.5°	4106.5	3963.3	3284.7	1294.1	657.7	446.3	409.1	412.7	394.3	367.9	348.0
50°	4202.8	4076.5	3424.8	1344.0	644.0	432.1	394.9	414.2	389.2	361.7	338.8
52.5°	4325.6	4212.5	3593.4	1412.3	632.3	416.2	382.1	414.2	388.8	362.2	337.3
55°	4495.8	4376.5	3796.7	1468.8	613.4	401.4	370.9	402.5	387.2	359.7	333.2
57.5°	4615.0	4525.8	3940.4	1506.6	586.4	382.7	360.7	391.3	380.6	350.0	321.0
58°	4620.6	4533.4	3961.3	1515.3	579.8	379.1	358.1	386.2	377.6	345.9	316.9
60°	4556.4	4481.5	3965.3	1503.0	542.1	361.2	344.9	365.3	361.2	322.0	295.0
62.5°	4323.0	4243.1	3800.8	1403.7	492.2	339.4	324.6	337.3	328.1	288.4	263.4
65°	3991.3	3844.1	3462.5	1247.7	456.5	315.9	297.1	298.1	288.4	259.9	238.0
67.5°	3549.7	3385.1	2931.6	1051.6	429.5	289.9	264.4	261.9	250.2	231.8	214.0
70°	3006.0	2893.4	2382.4	855.4	399.4	261.4	227.8	226.2	219.1	205.3	189.6
72.5°	2436.4	2293.3	1923.8	684.7	362.8	233.9	193.6	196.7	187.5	177.8	163.6
75°	1798.0	1704.3	1487.2	549.2	313.4	203.8	161.5	162.6	158.5	148.3	137.0
77.5°	1184.1	1156.0	1063.8	360.7	241.0	162.0	131.9	133.0	129.9	120.7	109.0
80°	796.9	778.0	720.9	232.3	161.0	117.2	101.9	102.9	102.4	92.7	77.0
82.5°	491.2	483.0	464.6	156.9	111.6	84.1	67.3	70.3	76.0	65.2	52.5
85°	231.8	232.3	280.7	85.6	65.7	54.0	36.6	39.2	39.2	39.2	29.5
87.5°	30.1	31.6	38.8	36.2	24.0	20.4	13.2	11.2	9.7	12.8	9.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1938.1	1938.1	1938.1	1938.1	1938.1	1938.1	1938.1	1938.1	1938.1	1938.1	1938.1
2.5°	1681.3	1671.2	1649.2	1644.1	1641.1	1649.7	1626.8	1632.9	1622.8	1651.3	1646.6
5°	1407.8	1408.8	1426.5	1438.3	1442.4	1438.3	1423.0	1396.5	1376.1	1368.0	1370.0
7.5°	1213.1	1231.0	1261.5	1295.6	1326.7	1335.9	1327.2	1276.8	1221.8	1187.1	1175.9
10°	1148.4	1172.3	1207.5	1234.5	1262.0	1283.9	1288.5	1249.3	1184.1	1102.0	1070.0
12.5°	1151.9	1184.6	1218.2	1226.9	1224.3	1233.0	1228.9	1222.3	1179.4	1075.1	1021.5
15°	1118.4	1157.0	1180.5	1175.9	1167.8	1160.1	1149.4	1132.6	1117.3	1044.0	984.9
17.5°	1040.9	1080.6	1100.0	1101.5	1101.5	1099.5	1073.5	1067.4	1065.3	1029.6	993.5
20°	1055.2	1077.1	1068.4	1054.2	1058.2	1072.0	1056.7	1053.6	1065.3	1081.2	1074.5
22.5°	1063.3	1055.6	990.4	927.3	913.0	955.8	964.5	998.6	1046.0	1103.0	1140.2
25°	1012.9	951.2	834.5	763.2	722.9	762.7	814.7	877.8	948.7	1022.0	1065.3
27.5°	846.7	799.9	716.4	652.2	617.0	623.1	667.4	725.0	790.8	840.2	871.7
30°	637.9	617.0	573.7	551.8	530.4	525.3	544.1	566.0	595.1	601.2	609.3
32.5°	469.7	466.7	469.3	462.1	458.1	457.5	451.9	457.0	460.1	463.6	456.5
35°	424.9	420.9	413.7	411.7	409.1	410.1	407.6	405.0	407.1	410.1	412.2
37.5°	402.0	395.9	385.7	382.1	382.1	383.7	379.6	378.6	382.1	391.8	396.9
40°	384.1	377.0	365.3	360.7	363.8	367.9	362.2	360.2	368.9	379.1	387.2
42.5°	367.3	361.7	350.5	345.5	348.0	355.6	347.5	345.9	357.1	368.3	378.0
45°	353.1	347.5	337.3	334.7	335.8	342.9	337.3	337.3	348.0	360.2	368.9
47.5°	341.9	334.7	328.1	326.0	327.1	331.1	330.1	330.1	340.4	353.1	361.7
50°	330.7	324.6	315.9	316.9	319.5	325.0	324.6	326.0	336.3	352.0	361.2
52.5°	325.6	316.4	306.7	307.7	315.4	322.0	319.9	321.5	333.2	362.8	376.0
55°	319.9	307.7	296.5	298.1	306.7	316.4	313.8	315.9	329.6	369.9	388.2
57.5°	309.3	295.0	282.7	283.8	296.5	306.7	302.6	305.2	321.5	362.2	381.6
58°	304.7	292.5	280.7	281.3	293.5	304.7	300.1	302.2	318.9	360.2	378.6
60°	285.3	278.2	268.0	268.5	280.2	289.9	287.4	289.4	305.7	345.5	359.2
62.5°	258.9	254.7	252.2	252.2	259.3	268.5	271.1	273.6	288.4	312.3	324.6
65°	230.3	230.3	230.8	230.8	235.4	247.1	248.6	255.3	269.0	280.7	289.9
67.5°	210.9	209.9	210.9	208.4	210.4	217.5	225.2	231.3	245.5	253.7	256.7
70°	186.0	185.5	186.0	182.4	184.9	191.1	196.1	206.3	221.1	227.2	228.8
72.5°	161.5	161.5	162.6	160.0	160.0	166.6	170.1	181.3	195.1	198.7	199.2
75°	136.0	137.6	137.6	134.0	135.0	139.1	143.7	152.8	165.6	168.1	168.1
77.5°	108.0	113.6	113.6	110.0	111.6	112.1	118.2	122.8	132.5	133.5	129.4
80°	78.5	84.1	88.6	85.6	88.2	85.1	88.6	91.7	101.4	96.8	90.2
82.5°	56.1	60.1	63.7	64.2	61.6	56.1	60.6	61.2	65.7	59.6	56.1
85°	31.1	34.6	39.2	37.2	33.1	29.5	31.1	32.1	31.6	30.1	28.0
87.5°	8.1	8.7	9.7	7.1	6.7	5.6	7.7	7.7	8.7	9.2	8.7
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1938.1	1938.1	1938.1	1938.1	1938.1	1938.1	1938.1	1938.1	1938.1	1938.1	1938.1
2.5°	1650.3	1672.6	1721.0	1757.8	1802.5	1857.1	1921.3	1986.0	2055.8	2077.7	2108.3
5°	1365.5	1421.5	1444.9	1511.7	1577.9	1677.3	1783.2	1906.0	2040.5	2105.3	2167.3
7.5°	1166.7	1196.8	1221.2	1270.2	1349.7	1470.4	1603.3	1756.7	1947.2	2041.5	2132.7
10°	1059.7	1062.8	1092.8	1153.5	1222.8	1329.3	1455.1	1626.8	1839.3	1953.9	2060.9
12.5°	988.9	975.7	1008.3	1071.5	1149.9	1248.3	1363.9	1527.5	1761.3	1879.0	2008.4
15°	926.8	905.9	930.4	995.0	1072.5	1188.1	1312.5	1485.7	1730.7	1867.8	2011.4
17.5°	928.3	870.7	879.4	933.9	1010.9	1128.5	1279.3	1484.2	1777.1	1935.0	2105.3
20°	1043.0	950.7	911.5	921.7	996.1	1124.5	1294.6	1555.5	1929.5	2159.7	2341.6
22.5°	1155.6	1100.0	1036.8	1015.9	1056.7	1191.2	1391.9	1724.1	2260.6	2607.5	2936.2
25°	1116.3	1163.7	1147.9	1118.4	1127.5	1239.1	1458.2	1862.7	2517.9	2908.7	3217.4
27.5°	893.2	979.2	996.6	996.1	999.7	1091.3	1311.4	1769.4	2550.0	2966.2	3261.3
30°	627.7	635.3	644.5	662.3	678.6	760.7	1026.1	1553.5	2535.7	2992.2	3287.7
32.5°	453.0	463.1	475.8	500.3	539.0	643.5	897.7	1484.6	2611.1	3099.7	3365.2
35°	414.2	426.0	438.2	466.2	502.8	599.7	846.7	1456.1	2734.9	3274.0	3504.3
37.5°	402.0	415.2	426.0	446.3	475.8	568.1	800.4	1436.7	2861.8	3458.4	3690.7
40°	393.3	408.6	417.3	433.5	454.0	539.0	759.1	1421.5	2984.6	3627.1	3840.5
42.5°	385.7	401.4	412.7	424.4	441.2	513.0	722.5	1406.2	3091.0	3790.6	3989.9
45°	376.5	396.4	410.7	419.8	434.6	491.2	694.4	1394.0	3212.3	3935.8	4140.7
47.5°	368.9	390.8	408.6	419.3	424.9	475.8	672.0	1410.8	3358.1	4087.7	4280.7
50°	369.4	390.2	412.7	429.5	414.8	463.1	658.3	1477.5	3547.6	4268.0	4391.3
52.5°	385.7	411.2	429.0	433.1	400.4	447.9	651.1	1594.2	3771.8	4427.5	4502.9
55°	404.0	430.5	449.9	447.3	392.8	428.5	649.6	1718.5	4017.3	4613.4	4648.1
57.5°	397.4	436.1	465.7	452.4	393.3	409.7	643.0	1818.9	4222.6	4752.5	4791.7
58°	395.3	434.1	467.7	451.4	391.8	404.0	641.4	1827.5	4251.2	4762.2	4812.2
60°	375.5	416.2	466.2	443.8	383.1	388.8	624.6	1855.6	4243.5	4712.3	4824.4
62.5°	339.4	372.9	431.0	406.6	356.7	368.3	586.9	1820.9	4036.7	4471.8	4645.5
65°	298.6	323.5	362.2	357.7	318.9	347.5	535.5	1683.8	3622.5	4081.5	4264.5
67.5°	268.0	288.4	312.8	306.2	286.8	319.5	480.0	1452.1	3157.8	3612.8	3843.1
70°	236.9	252.7	265.0	260.3	254.2	291.9	430.5	1178.4	2712.5	3167.5	3390.6
72.5°	205.3	220.1	230.3	223.7	220.1	262.9	390.2	914.5	2142.4	2613.2	2900.0
75°	171.7	186.5	193.6	186.0	183.9	231.8	330.7	683.2	1607.4	2014.5	2262.2
77.5°	133.0	148.8	157.9	155.4	156.4	190.6	267.0	467.7	1149.4	1373.1	1634.0
80°	93.3	110.6	116.7	114.2	121.3	145.2	188.5	297.1	792.8	891.1	1075.1
82.5°	57.6	73.9	74.9	77.4	82.5	107.5	142.1	180.9	497.8	514.6	648.1
85°	29.0	35.2	37.7	41.8	46.4	65.7	81.0	112.1	320.5	242.5	362.2
87.5°	9.7	10.2	12.2	15.3	18.9	27.0	34.6	45.9	79.5	43.8	112.1
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°	1938.1	1938.1	1938.1	1938.1	1938.1	1938.1	1938.1	1938.1	1938.1	1938.1
2.5°	2169.9	2213.2	2244.8	2273.8	2245.8	2243.3	2215.8	2171.4	2153.1	2153.1
5°	2297.8	2399.2	2481.2	2533.7	2511.3	2457.3	2368.1	2254.5	2193.3	2182.7
7.5°	2332.9	2533.2	2685.5	2739.6	2701.8	2582.6	2412.0	2220.4	2132.7	2113.4
10°	2311.6	2571.9	2795.5	2881.2	2828.7	2648.3	2415.5	2180.7	2072.6	2050.2
12.5°	2289.2	2577.0	2816.0	2939.8	2905.6	2701.4	2441.5	2154.7	2029.8	1997.7
15°	2305.5	2579.0	2791.0	2918.9	2940.8	2765.0	2484.3	2173.5	2021.2	1987.0
17.5°	2408.4	2617.7	2755.3	2858.7	2935.7	2851.6	2606.1	2263.7	2098.6	2056.3
20°	2623.4	2710.5	2775.7	2855.7	2979.5	3028.4	2855.2	2511.3	2316.1	2278.9
22.5°	3246.0	3230.2	3096.7	3095.1	3274.5	3470.6	3458.9	3014.6	2721.2	2690.6
25°	3479.3	3406.0	3212.9	3166.0	3244.9	3547.6	3503.8	3117.6	2846.5	2772.1
27.5°	3388.1	3206.2	3079.4	3068.7	3042.7	3328.5	3434.0	3159.3	2890.4	2818.0
30°	3382.5	3115.0	2933.7	2955.0	2980.0	3253.1	3472.7	3290.3	3002.4	2925.0
32.5°	3396.3	3127.8	2944.3	2948.4	3022.8	3264.3	3515.5	3433.0	3149.7	3072.3
35°	3451.8	3200.1	3012.6	3003.0	3119.1	3337.7	3588.3	3657.2	3350.9	3262.8
37.5°	3541.5	3344.3	3137.5	3134.9	3303.6	3470.2	3679.0	3883.4	3551.1	3456.4
40°	3673.4	3512.9	3359.6	3345.8	3554.2	3685.7	3796.7	4124.3	3784.0	3662.2
42.5°	3832.9	3715.2	3652.5	3707.0	3907.2	3927.7	3980.1	4347.0	3982.2	3840.5
45°	3980.6	3975.1	4062.2	4206.9	4323.6	4201.3	4171.7	4496.2	4136.0	3982.2
47.5°	4156.4	4308.2	4571.2	4783.1	4905.4	4519.7	4335.2	4593.5	4248.2	4106.5
50°	4334.8	4707.2	5127.0	5422.5	5448.5	4865.6	4447.8	4685.3	4350.0	4202.8
52.5°	4522.2	5025.6	5584.5	5927.9	5877.5	5166.8	4556.9	4747.4	4455.0	4325.6
55°	4685.3	5220.7	5840.3	6170.0	6096.0	5350.2	4674.6	4814.7	4604.7	4495.8
57.5°	4776.5	5237.1	5776.6	6064.5	5984.5	5314.5	4728.6	4864.6	4700.6	4615.0
58°	4789.7	5215.2	5720.0	6003.3	5921.8	5284.5	4728.1	4862.6	4706.7	4620.6
60°	4778.0	5073.0	5509.7	5761.9	5676.2	5095.9	4708.7	4824.4	4629.3	4556.4
62.5°	4669.5	4826.4	5146.3	5329.8	5305.3	4801.4	4629.3	4680.1	4393.3	4323.0
65°	4526.8	4490.1	4681.2	4811.1	4829.5	4580.9	4550.2	4368.4	4090.7	3991.3
67.5°	4353.6	4109.0	4108.6	4182.4	4213.0	4241.5	4385.7	4029.6	3654.6	3549.7
70°	4059.6	3521.6	3359.6	3446.7	3421.2	3662.2	4091.7	3553.7	3128.8	3006.0
72.5°	3520.6	2794.5	2535.2	2647.3	2583.1	2872.0	3580.2	2924.5	2587.2	2436.4
75°	2853.6	2090.5	1823.0	1925.9	1886.2	2178.6	2979.0	2124.0	1855.6	1798.0
77.5°	2215.8	1514.7	1359.3	1345.0	1374.6	1621.2	2185.2	1434.2	1223.3	1184.1
80°	1423.5	1084.2	1093.4	1075.1	1090.3	1022.0	1326.7	915.0	828.4	796.9
82.5°	936.9	755.6	900.8	831.5	789.7	687.3	870.2	599.2	508.5	491.2
85°	638.4	556.4	506.4	387.2	456.0	529.4	652.6	322.5	255.7	231.8
87.5°	288.4	193.6	142.1	87.6	138.6	160.0	316.9	37.7	29.0	30.1
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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