

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: P647231

Luminaire Tested: **GALN-SA1D-835-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647231
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-835-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 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: 5282.9 lumens
Efficiency: N/A
Efficacy: 81.3 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

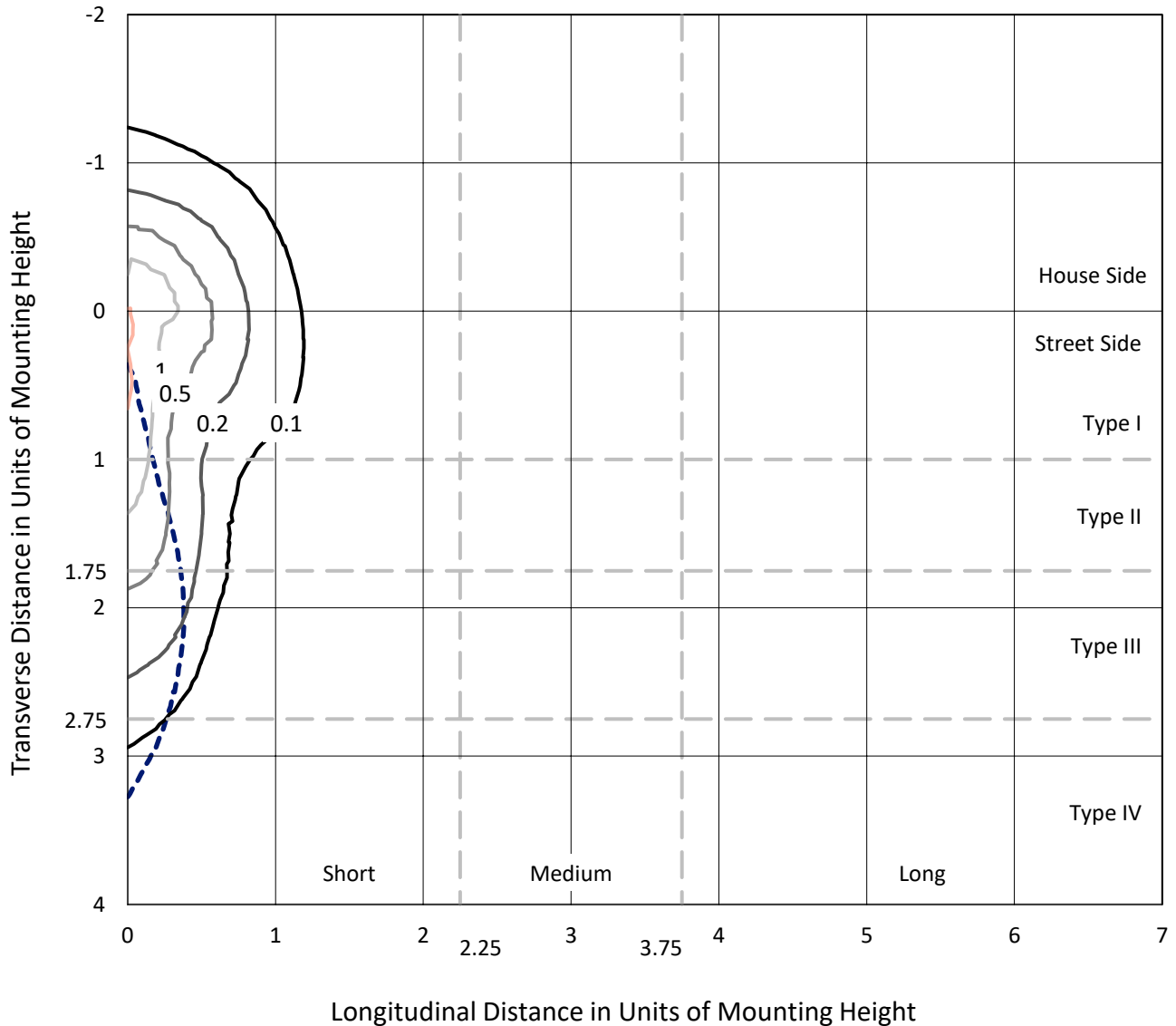
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

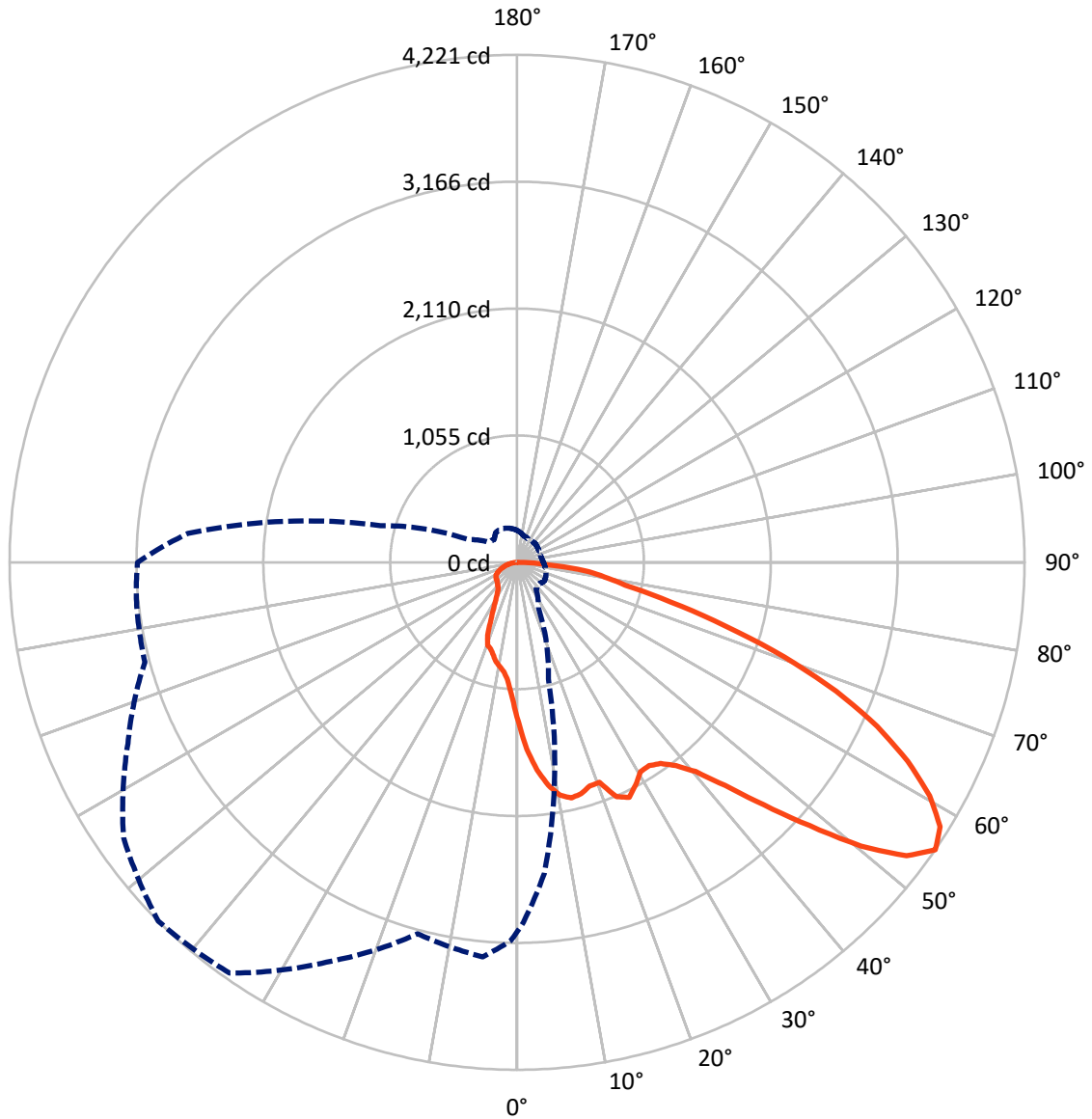
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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	1155.6	0.0	1155.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	4127.3	0.0	4127.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	5282.9	0.0	5282.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.4	2.1
10°-20°	298.1	5.6
20°-30°	515.0	9.7
30°-40°	598.5	11.3
40°-50°	835.0	15.8
50°-60°	1133.1	21.4
60°-70°	1078.0	20.4
70°-80°	582.3	11.0
80°-90°	130.5	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°	5282.9	100.0
0°-180°	5282.9	100.0

Coefficient of Utilization

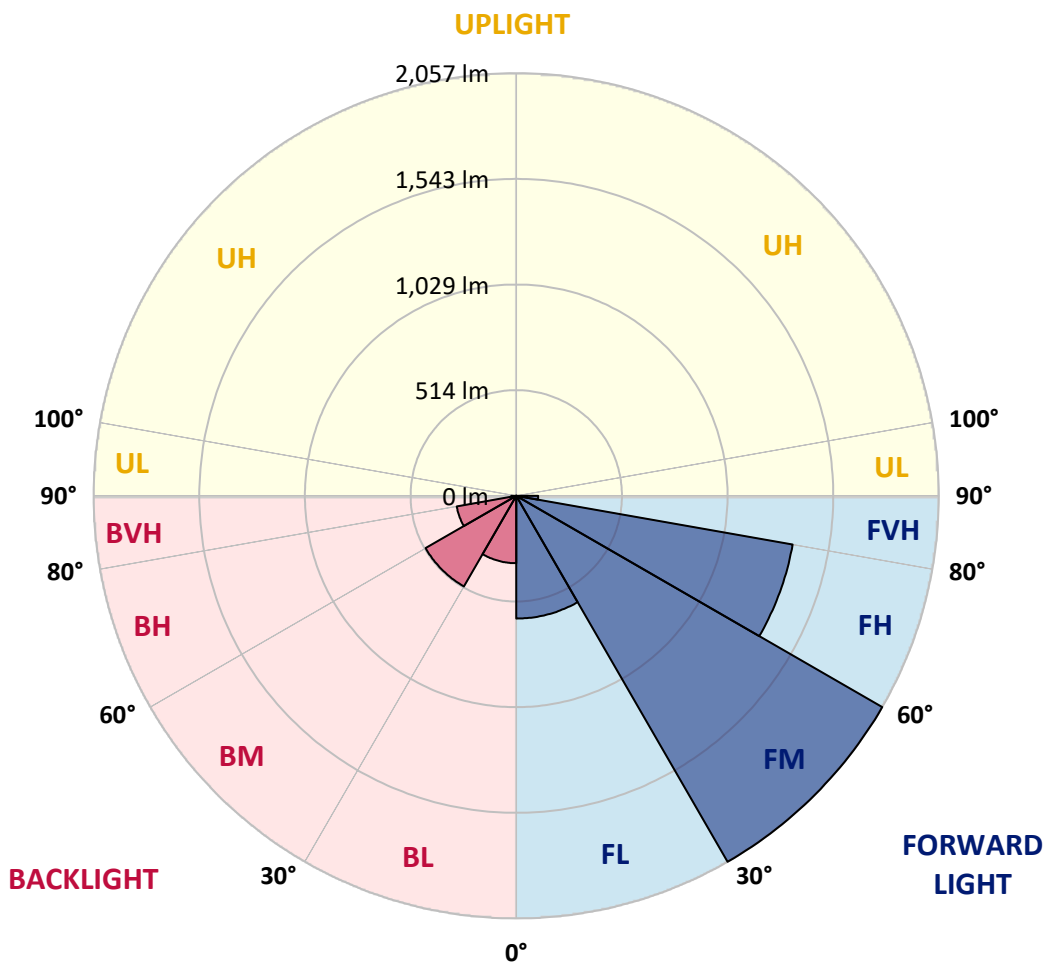


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	597.5	11.3			
FM (30°-60°)	2057.1	38.9			
FH (60°-80°)	1366.1	25.9			G1/1800
FVH (80°-90°)	106.7	2.0			G2/225
BL (0°-30°)	328.0	6.2	B1/500		
BM (30°-60°)	509.5	9.6	B1/1000		
BH (60°-80°)	294.2	5.6	B1/500		G1/500
BVH (80°-90°)	23.9	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°	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8
2.5°	1472.9	1467.3	1451.6	1410.5	1369.0	1326.9	1294.5	1254.0	1211.8	1189.1	1160.2
5°	1493.1	1486.8	1449.9	1357.2	1273.2	1185.0	1114.6	1052.9	1027.8	990.9	961.2
7.5°	1445.7	1442.9	1387.5	1254.4	1139.3	1024.0	944.1	894.7	849.7	833.0	836.5
10°	1402.5	1391.3	1321.9	1148.0	1013.9	920.1	862.9	814.5	782.8	774.5	776.2
12.5°	1366.6	1351.6	1269.7	1076.6	959.2	884.2	811.3	760.8	731.9	739.9	767.1
15°	1359.3	1339.0	1247.7	1052.2	929.2	832.6	752.9	694.6	673.0	690.4	734.0
17.5°	1406.7	1381.2	1285.4	1060.3	900.6	780.0	682.1	615.5	597.4	625.2	682.1
20°	1559.0	1521.3	1402.8	1106.6	897.8	753.9	641.0	574.0	581.7	634.7	693.9
22.5°	1840.6	1784.1	1608.4	1174.2	912.4	747.2	632.6	597.7	639.9	684.9	723.9
25°	1896.3	1852.1	1645.4	1189.5	909.3	742.7	656.3	673.7	720.8	743.1	729.4
27.5°	1927.7	1877.2	1643.0	1113.6	813.1	673.7	627.3	656.3	668.1	646.5	609.6
30°	2000.9	1948.3	1684.5	1033.7	669.5	499.8	438.1	426.3	434.3	438.5	425.2
32.5°	2101.7	2049.7	1762.5	981.5	578.9	413.3	352.7	336.0	332.1	327.6	322.4
35°	2231.9	2152.2	1839.2	948.0	541.6	382.3	326.6	313.7	308.4	302.2	296.6
37.5°	2364.4	2280.8	1936.0	912.8	516.9	360.7	309.1	303.3	294.2	287.5	279.5
40°	2505.2	2411.5	2024.3	882.1	492.8	346.8	296.6	295.9	284.1	276.4	267.0
42.5°	2627.2	2530.7	2103.0	863.3	474.3	332.1	288.9	291.0	278.8	267.3	255.1
45°	2724.1	2629.3	2175.9	863.3	459.4	317.5	287.5	286.1	274.0	259.6	245.7
47.5°	2809.2	2711.2	2247.0	885.3	449.9	305.3	279.8	282.3	269.7	251.7	238.0
50°	2875.0	2788.6	2342.8	919.4	440.5	295.6	270.1	283.4	266.3	247.4	231.8
52.5°	2959.0	2881.6	2458.2	966.1	432.5	284.8	261.4	283.4	265.9	247.8	230.8
55°	3075.4	2993.9	2597.2	1004.8	419.6	274.7	253.7	275.3	264.9	246.1	227.9
57.5°	3157.0	3096.0	2695.6	1030.6	401.1	261.8	246.7	267.7	260.3	239.4	219.6
58°	3160.8	3101.2	2709.8	1036.5	396.6	259.3	245.0	264.2	258.2	236.6	216.8
60°	3116.9	3065.7	2712.6	1028.2	370.8	247.1	235.9	249.9	247.1	220.3	201.8
62.5°	2957.2	2902.6	2600.0	960.2	336.7	232.1	222.0	230.8	224.5	197.2	180.2
65°	2730.4	2629.6	2368.6	853.5	312.3	216.1	203.2	203.9	197.2	177.7	162.8
67.5°	2428.2	2315.6	2005.4	719.3	293.8	198.3	180.9	179.2	171.2	158.6	146.4
70°	2056.3	1979.3	1629.7	585.2	273.3	178.8	155.8	154.7	149.9	140.5	129.7
72.5°	1666.7	1568.7	1316.1	468.4	248.1	160.0	132.4	134.5	128.3	121.6	111.9
75°	1229.9	1165.8	1017.4	375.7	214.3	139.4	110.5	111.2	108.4	101.4	93.7
77.5°	810.0	790.8	727.7	246.7	164.8	110.8	90.3	91.0	88.9	82.6	74.6
80°	545.1	532.2	493.1	158.9	110.2	80.2	69.7	70.4	70.1	63.4	52.6
82.5°	336.0	330.4	317.8	107.3	76.3	57.5	46.0	48.1	51.9	44.6	35.9
85°	158.6	158.9	192.1	58.6	44.9	37.0	25.1	26.9	26.9	26.9	20.2
87.5°	20.6	21.6	26.5	24.7	16.4	13.9	9.1	7.7	6.7	8.7	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8
2.5°	1150.1	1143.2	1128.2	1124.7	1122.6	1128.5	1112.9	1117.0	1110.1	1129.6	1126.4
5°	963.0	963.7	975.9	983.9	986.7	983.9	973.4	955.3	941.4	935.8	937.2
7.5°	829.8	842.0	862.9	886.3	907.6	913.8	907.9	873.4	835.8	812.0	804.4
10°	785.6	801.9	826.0	844.5	863.3	878.3	881.4	854.6	810.0	753.9	731.9
12.5°	788.0	810.3	833.3	839.2	837.5	843.4	840.6	836.1	806.9	735.4	698.8
15°	765.0	791.5	807.5	804.4	798.8	793.6	786.3	774.8	764.3	714.1	673.7
17.5°	712.1	739.2	752.5	753.5	753.5	752.1	734.4	730.1	728.7	704.4	679.6
20°	721.8	736.8	730.9	721.1	723.9	733.3	722.9	720.8	728.7	739.5	735.1
22.5°	727.4	722.2	677.5	634.3	624.6	653.8	659.8	683.1	715.5	754.6	780.0
25°	692.9	650.7	570.9	522.1	494.5	521.7	557.3	600.5	649.0	699.1	728.7
27.5°	579.3	547.2	490.0	446.2	422.0	426.3	456.6	496.0	540.9	574.7	596.3
30°	436.4	422.0	392.4	377.5	362.8	359.3	372.2	387.2	407.1	411.2	416.9
32.5°	321.3	319.2	321.0	316.1	313.4	313.0	309.1	312.7	314.7	317.2	312.3
35°	290.6	287.9	283.0	281.6	279.8	280.5	278.8	277.1	278.5	280.5	282.0
37.5°	275.0	270.8	263.9	261.4	261.4	262.5	259.6	258.9	261.4	268.0	271.5
40°	262.8	257.9	249.9	246.7	248.8	251.7	247.8	246.4	252.4	259.3	264.9
42.5°	251.3	247.4	239.8	236.3	238.0	243.3	237.7	236.6	244.3	252.0	258.6
45°	241.6	237.7	230.8	228.9	229.7	234.6	230.8	230.8	238.0	246.4	252.4
47.5°	233.9	228.9	224.5	223.1	223.8	226.5	225.8	225.8	232.8	241.6	247.4
50°	226.2	222.0	216.1	216.8	218.5	222.4	222.0	223.1	230.0	240.9	247.1
52.5°	222.7	216.4	209.8	210.5	215.7	220.3	218.8	219.9	227.9	248.1	257.2
55°	218.8	210.5	202.9	203.9	209.8	216.4	214.7	216.1	225.5	253.1	265.6
57.5°	211.6	201.8	193.4	194.1	202.9	209.8	207.0	208.7	219.9	247.8	261.1
58°	208.4	200.1	192.1	192.4	200.8	208.4	205.3	206.7	218.1	246.4	258.9
60°	195.2	190.3	183.3	183.7	191.7	198.3	196.5	197.9	209.1	236.3	245.7
62.5°	177.0	174.3	172.5	172.5	177.4	183.7	185.4	187.1	197.2	213.7	222.0
65°	157.5	157.5	157.9	157.9	161.0	169.0	170.1	174.6	184.0	192.1	198.3
67.5°	144.3	143.6	144.3	142.6	143.9	148.8	154.0	158.2	168.0	173.6	175.6
70°	127.2	126.8	127.2	124.8	126.5	130.7	134.2	141.2	151.3	155.4	156.5
72.5°	110.5	110.5	111.2	109.5	109.5	114.0	116.4	124.1	133.5	135.9	136.2
75°	93.0	94.1	94.1	91.7	92.4	95.1	98.3	104.5	113.3	115.0	115.0
77.5°	73.9	77.8	77.8	75.2	76.3	76.7	80.9	84.0	90.6	91.3	88.6
80°	53.6	57.5	60.7	58.6	60.3	58.2	60.7	62.7	69.4	66.2	61.7
82.5°	38.4	41.1	43.5	43.9	42.2	38.4	41.5	41.8	44.9	40.8	38.4
85°	21.3	23.7	26.9	25.4	22.6	20.2	21.3	21.9	21.6	20.6	19.2
87.5°	5.6	6.0	6.7	4.9	4.5	3.8	5.2	5.2	6.0	6.3	6.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8
2.5°	1128.9	1144.2	1177.3	1202.5	1233.1	1270.4	1314.3	1358.6	1406.3	1421.3	1442.2
5°	934.0	972.4	988.5	1034.1	1079.4	1147.3	1219.8	1303.9	1395.9	1440.1	1482.6
7.5°	798.1	818.7	835.5	868.9	923.2	1005.8	1096.8	1201.7	1332.0	1396.6	1459.0
10°	724.9	727.0	747.6	789.0	836.5	909.3	995.4	1112.9	1258.2	1336.6	1409.8
12.5°	676.5	667.4	689.7	733.0	786.6	853.9	933.0	1044.9	1204.9	1285.4	1373.9
15°	634.0	619.7	636.4	680.7	733.7	812.8	897.8	1016.3	1184.0	1277.7	1376.0
17.5°	635.0	595.6	601.6	638.8	691.5	772.0	875.2	1015.2	1215.7	1323.7	1440.1
20°	713.5	650.4	623.5	630.5	681.4	769.2	885.6	1064.0	1319.9	1477.4	1601.9
22.5°	790.4	752.5	709.2	695.0	722.9	814.9	952.2	1179.4	1546.4	1783.8	2008.6
25°	763.7	796.1	785.3	765.0	771.3	847.6	997.5	1274.3	1722.4	1989.8	2200.9
27.5°	611.0	669.9	681.8	681.4	683.8	746.5	897.1	1210.4	1744.4	2029.1	2230.9
30°	429.4	434.6	440.9	453.1	464.2	520.4	702.0	1062.7	1734.7	2046.9	2249.1
32.5°	309.8	316.8	325.5	342.2	368.7	440.2	614.1	1015.6	1786.2	2120.4	2302.0
35°	283.4	291.4	299.7	318.9	344.0	410.2	579.3	996.1	1870.9	2239.6	2397.2
37.5°	275.0	284.1	291.4	305.3	325.5	388.6	547.6	982.8	1957.7	2365.8	2524.7
40°	269.0	279.5	285.5	296.6	310.5	368.7	519.3	972.4	2041.7	2481.2	2627.2
42.5°	263.9	274.7	282.3	290.3	301.8	350.9	494.2	961.9	2114.5	2593.1	2729.3
45°	257.5	271.2	280.9	287.2	297.3	336.0	475.0	953.5	2197.5	2692.3	2832.5
47.5°	252.4	267.3	279.5	286.8	290.6	325.5	459.7	965.0	2297.2	2796.2	2928.3
50°	252.7	267.0	282.3	293.8	283.7	316.8	450.3	1010.7	2426.8	2919.7	3004.0
52.5°	263.9	281.3	293.5	296.3	274.0	306.4	445.4	1090.6	2580.1	3028.7	3080.3
55°	276.4	294.5	307.7	306.0	268.7	293.1	444.4	1175.6	2748.2	3156.0	3179.6
57.5°	271.9	298.3	318.5	309.5	269.0	280.2	439.8	1244.3	2888.6	3251.1	3277.9
58°	270.4	296.9	319.9	308.8	268.0	276.4	438.8	1250.1	2908.1	3257.7	3291.9
60°	256.9	284.8	318.9	303.6	262.1	265.9	427.3	1269.3	2902.9	3223.5	3300.2
62.5°	232.1	255.1	294.9	278.1	244.0	252.0	401.5	1245.7	2761.4	3059.0	3177.9
65°	204.2	221.4	247.8	244.7	218.1	237.7	366.3	1151.9	2478.0	2792.0	2917.1
67.5°	183.3	197.2	214.0	209.5	196.2	218.5	328.3	993.3	2160.1	2471.4	2628.9
70°	162.1	172.9	181.3	178.1	173.9	199.7	294.5	806.2	1855.6	2166.8	2319.5
72.5°	140.5	150.6	157.5	153.0	150.6	179.9	267.0	625.6	1465.5	1787.6	1983.8
75°	117.4	127.6	132.4	127.2	125.8	158.6	226.2	467.4	1099.6	1378.1	1547.4
77.5°	91.0	101.8	108.1	106.3	107.0	130.4	182.6	319.9	786.3	939.3	1117.7
80°	63.8	75.6	79.8	78.1	82.9	99.4	129.0	203.2	542.3	609.6	735.4
82.5°	39.4	50.5	51.2	53.0	56.5	73.5	97.2	123.7	340.5	352.0	443.3
85°	19.9	24.0	25.8	28.6	31.7	44.9	55.4	76.7	219.2	165.9	247.8
87.5°	6.7	7.0	8.4	10.5	12.9	18.5	23.7	31.4	54.3	30.0	76.7
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8
2.5°	1484.4	1514.0	1535.6	1555.5	1536.3	1534.6	1515.7	1485.4	1472.9	1472.9
5°	1571.9	1641.2	1697.3	1733.2	1717.9	1680.9	1619.9	1542.3	1500.4	1493.1
7.5°	1595.9	1732.9	1837.1	1874.0	1848.3	1766.7	1649.9	1518.9	1459.0	1445.7
10°	1581.3	1759.4	1912.4	1970.9	1935.0	1811.6	1652.4	1491.7	1417.8	1402.5
12.5°	1565.9	1762.8	1926.3	2011.0	1987.6	1847.9	1670.1	1473.9	1388.6	1366.6
15°	1577.1	1764.3	1909.3	1996.7	2011.7	1891.5	1699.4	1486.8	1382.6	1359.3
17.5°	1647.5	1790.7	1884.8	1955.6	2008.2	1950.7	1782.7	1548.5	1435.6	1406.7
20°	1794.6	1854.1	1898.8	1953.5	2038.2	2071.7	1953.1	1717.9	1584.4	1559.0
22.5°	2220.5	2209.7	2118.3	2117.3	2240.0	2374.2	2366.1	2062.3	1861.5	1840.6
25°	2380.1	2329.9	2197.8	2165.8	2219.8	2426.8	2396.8	2132.7	1947.2	1896.3
27.5°	2317.7	2193.3	2106.5	2099.2	2081.4	2277.0	2349.1	2161.2	1977.2	1927.7
30°	2313.8	2130.9	2006.8	2021.5	2038.5	2225.4	2375.5	2250.8	2053.9	2000.9
32.5°	2323.3	2139.6	2014.1	2016.9	2067.8	2233.0	2404.8	2348.4	2154.6	2101.7
35°	2361.3	2189.1	2060.9	2054.2	2133.7	2283.2	2454.7	2501.8	2292.2	2231.9
37.5°	2422.6	2287.8	2146.2	2144.5	2259.9	2373.8	2516.7	2656.5	2429.3	2364.4
40°	2512.9	2403.1	2298.2	2288.8	2431.4	2521.3	2597.2	2821.3	2588.5	2505.2
42.5°	2622.0	2541.5	2498.6	2535.9	2672.8	2686.8	2722.7	2973.7	2724.1	2627.2
45°	2723.0	2719.2	2778.8	2877.8	2957.6	2874.0	2853.7	3075.8	2829.4	2724.1
47.5°	2843.3	2947.1	3127.0	3272.0	3355.6	3091.8	2965.6	3142.3	2906.0	2809.2
50°	2965.3	3220.1	3507.2	3709.4	3727.2	3328.5	3042.7	3205.1	2975.7	2875.0
52.5°	3093.6	3437.9	3820.3	4055.2	4020.6	3534.5	3117.2	3247.6	3047.5	2959.0
55°	3205.1	3571.3	3995.2	4220.7	4170.2	3659.9	3197.8	3293.6	3150.0	3075.4
57.5°	3267.5	3582.5	3951.6	4148.6	4093.8	3635.5	3234.7	3327.8	3215.5	3157.0
58°	3276.5	3567.5	3913.0	4106.7	4050.9	3615.0	3234.3	3326.3	3219.7	3160.8
60°	3268.5	3470.3	3769.0	3941.5	3883.0	3486.0	3221.1	3300.2	3166.8	3116.9
62.5°	3194.2	3301.6	3520.4	3646.0	3629.2	3284.5	3166.8	3201.6	3005.4	2957.2
65°	3096.7	3071.6	3202.3	3291.2	3303.7	3133.6	3112.7	2988.3	2798.4	2730.4
67.5°	2978.1	2810.9	2810.5	2861.1	2882.0	2901.5	3000.1	2756.5	2500.0	2428.2
70°	2777.1	2409.1	2298.2	2357.8	2340.4	2505.2	2799.1	2431.0	2140.3	2056.3
72.5°	2408.4	1911.7	1734.3	1810.9	1767.1	1964.6	2449.1	2000.6	1769.8	1666.7
75°	1952.1	1430.0	1247.0	1317.5	1290.2	1490.3	2037.8	1453.0	1269.3	1229.9
77.5°	1515.7	1036.1	929.9	920.1	940.3	1109.0	1494.8	981.1	836.8	810.0
80°	973.8	741.7	747.9	735.4	745.9	699.1	907.6	625.9	566.7	545.1
82.5°	641.0	516.9	616.2	568.8	540.2	470.2	595.3	409.9	347.8	336.0
85°	436.7	380.6	346.4	264.9	311.9	362.1	446.5	220.6	174.9	158.6
87.5°	197.2	132.4	97.2	60.0	94.8	109.5	216.8	25.8	19.9	20.6
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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