

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: P526911

Luminaire Tested: **GALN-SA1D-827-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-827-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3181 lumens
Efficiency: N/A
Efficacy: 48.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G0

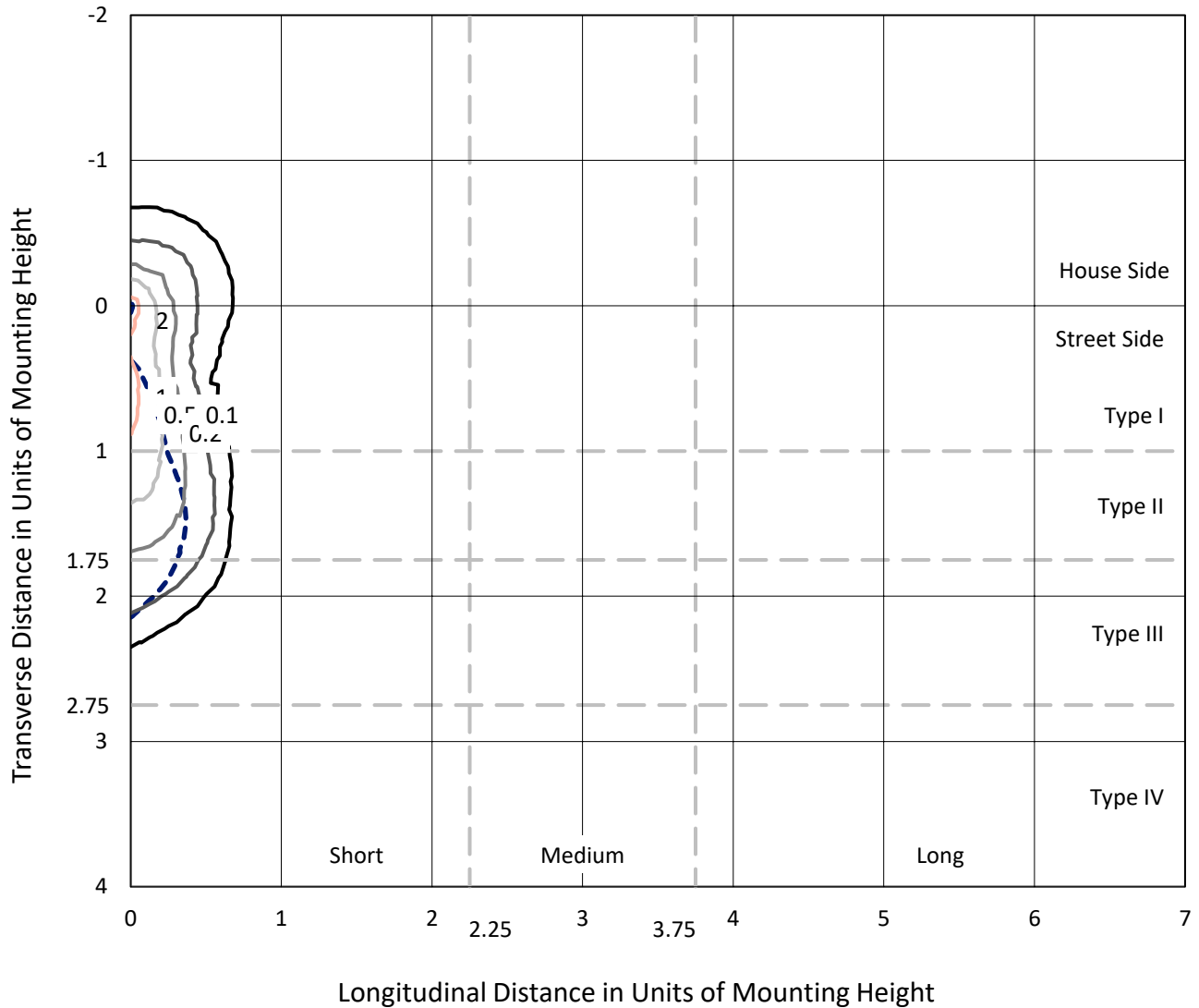
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

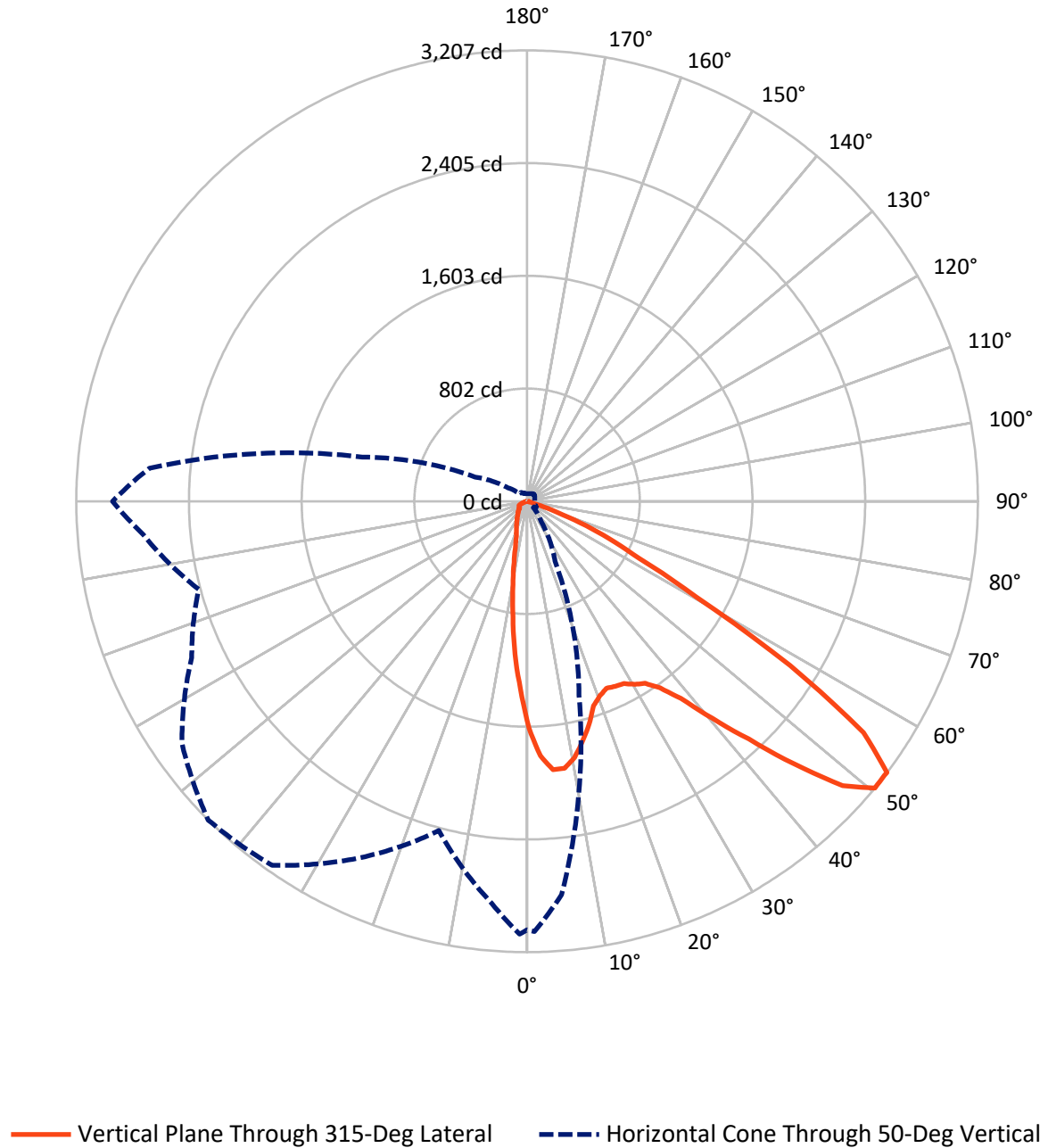
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	637.2	0.0	637.2
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	2543.8	0.0	2543.8
	% Fixture	80.0	0.0	80.0
Total	Lumens	3181.0	0.0	3181.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.6	3.7
10°-20°	233.7	7.3
20°-30°	351.1	11.0
30°-40°	527.0	16.6
40°-50°	740.6	23.3
50°-60°	798.9	25.1
60°-70°	370.9	11.7
70°-80°	34.9	1.1
80°-90°	6.4	0.2
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°	3181.0	100.0
0°-180°	3181.0	100.0

Coefficient of Utilization



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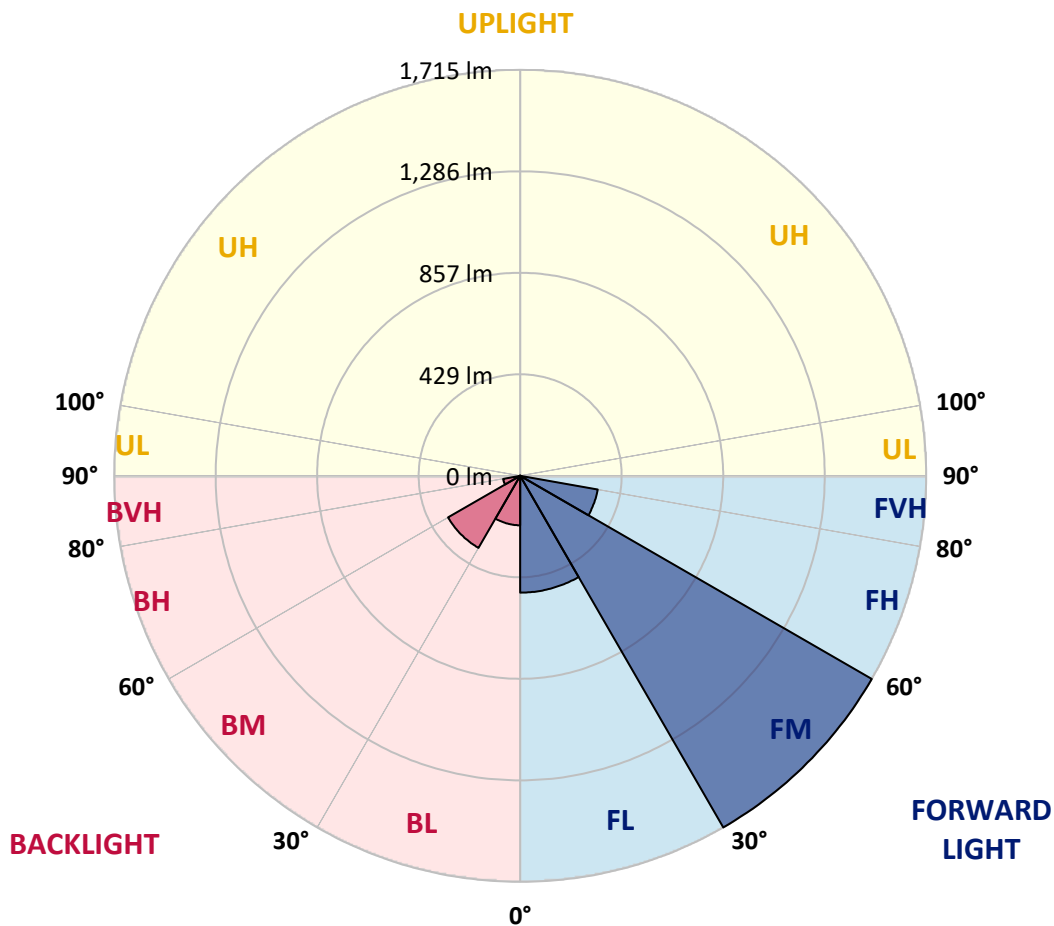
CATALOG NUMBER: GALN-SA1D-827-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	493.5	15.5			
FM (30°-60°)	1714.8	53.9			
FH (60°-80°)	332.7	10.5			G0/660
FVH (80°-90°)	2.9	0.1			G0/10
BL (0°-30°)	208.8	6.6	B1/500		
BM (30°-60°)	351.6	11.1	B1/1000		
BH (60°-80°)	73.2	2.3	B0/110		G0/110
BVH (80°-90°)	3.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2
2.5°	1676.9	1651.0	1618.2	1591.1	1550.7	1469.3	1447.2	1420.7	1398.6	1368.9	1327.3
5°	1524.8	1516.6	1501.5	1399.2	1325.4	1226.9	1146.1	1112.1	1067.2	1030.6	1004.1
7.5°	1408.7	1375.9	1327.9	1225.0	1107.0	1001.6	912.0	859.6	800.3	780.1	744.1
10°	1284.3	1291.9	1221.2	1076.7	934.1	848.9	793.3	742.8	689.2	653.9	602.7
12.5°	1244.6	1220.0	1165.7	987.1	865.3	785.8	718.2	655.7	598.9	542.1	492.9
15°	1270.5	1232.6	1156.9	968.2	812.3	713.2	628.6	544.0	491.7	419.1	367.9
17.5°	1363.2	1332.9	1231.3	988.3	785.1	643.8	518.2	431.1	350.9	285.3	259.4
20°	1517.9	1475.0	1347.5	1014.2	744.7	559.8	420.3	313.0	237.3	209.5	195.0
22.5°	1669.3	1646.0	1485.0	1064.1	708.8	485.3	315.6	210.8	177.3	172.3	162.8
25°	1957.8	1887.7	1695.2	1154.3	681.0	415.3	237.9	169.8	150.2	146.4	147.7
27.5°	2129.4	2070.7	1889.6	1214.3	650.1	361.6	201.3	155.9	142.6	134.4	131.3
30°	2294.2	2226.0	1986.2	1249.6	583.8	304.8	178.6	149.6	146.4	134.4	130.6
32.5°	2421.0	2354.1	2125.6	1302.7	556.7	268.2	147.1	116.8	108.6	107.3	118.7
35°	2615.4	2544.1	2244.9	1331.7	535.8	249.3	127.5	104.1	94.7	90.9	91.5
37.5°	2796.5	2747.9	2355.4	1343.0	513.7	243.6	114.2	93.4	85.2	82.7	82.0
40°	2948.0	2839.5	2460.1	1355.0	504.3	232.9	106.0	85.2	79.5	75.7	75.7
42.5°	3017.4	2907.0	2577.5	1348.1	501.7	215.8	106.0	78.3	73.8	70.1	69.4
45°	3002.3	2957.5	2629.9	1344.9	501.7	198.8	96.6	76.4	70.1	65.0	63.7
47.5°	3041.4	2982.7	2695.6	1358.2	491.7	186.8	81.4	80.2	66.3	60.0	58.7
50°	3048.4	3059.7	2809.8	1427.0	469.6	171.7	63.7	78.9	63.7	54.3	53.0
52°	3093.8	3023.1	2844.5	1463.6	446.2	160.3	53.6	67.5	61.2	50.5	49.2
52.5°	3031.3	3077.4	2852.7	1476.8	448.7	152.7	51.8	66.3	60.0	50.5	47.3
55°	2961.3	3005.4	2819.3	1505.2	411.5	119.9	40.4	48.0	54.3	44.2	42.3
57.5°	2573.7	2618.6	2450.0	1378.4	335.1	84.6	33.4	36.0	48.0	41.0	39.1
60°	2287.8	2255.7	2056.2	1149.9	237.9	47.3	26.5	27.8	52.4	37.9	37.2
62.5°	2090.9	2022.1	1718.6	888.0	145.2	31.6	20.8	21.5	40.4	35.3	35.3
65°	1546.9	1469.9	1141.7	537.1	71.3	22.1	15.8	17.0	25.2	30.3	30.3
67.5°	883.0	853.3	551.6	242.4	29.7	13.9	12.0	13.3	19.6	24.6	23.4
70°	405.8	364.2	212.1	51.1	13.9	9.5	9.5	10.7	15.8	18.3	17.0
72.5°	118.7	112.3	51.8	8.2	5.7	5.7	6.3	8.2	12.0	13.9	12.6
75°	8.8	5.7	3.8	2.5	2.5	3.8	5.0	8.2	12.0	13.3	10.7
77.5°	0.6	1.3	0.6	0.6	1.9	3.8	5.7	10.1	15.8	16.4	12.0
80°	0.6	0.6	0.0	0.6	1.9	3.8	6.3	11.4	17.7	18.9	10.1
82.5°	0.0	0.0	0.0	0.6	2.5	5.0	7.6	12.0	16.4	20.2	10.7
85°	0.0	0.0	0.0	0.6	3.8	6.9	8.8	3.2	1.9	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2
2.5°	1356.9	1340.5	1334.2	1339.9	1338.0	1336.1	1370.8	1363.2	1362.0	1373.3	1370.8
5°	1018.6	989.6	1069.1	1036.9	1070.4	1090.6	1094.4	1096.3	1119.6	1095.0	1127.2
7.5°	725.8	733.4	732.7	754.2	792.7	826.8	847.0	831.2	829.9	826.8	812.9
10°	580.0	566.8	564.2	559.2	571.2	600.2	624.8	605.3	591.4	610.3	604.6
12.5°	474.0	455.7	445.6	425.4	426.0	445.6	445.6	445.6	459.5	470.2	478.4
15°	363.5	348.4	348.4	328.2	323.8	324.4	334.5	335.8	357.9	364.2	367.3
17.5°	254.3	246.1	255.6	263.8	258.8	260.0	263.8	265.1	268.2	265.7	272.0
20°	195.7	194.4	196.9	211.4	222.2	228.5	224.1	217.7	214.0	205.1	205.1
22.5°	166.0	168.5	172.9	184.9	198.8	202.6	197.5	183.0	171.7	170.4	171.0
25°	147.7	150.2	157.2	164.7	172.3	178.6	173.6	162.8	156.5	150.8	150.8
27.5°	136.3	137.6	141.4	147.1	153.4	158.4	156.5	150.8	143.9	141.4	135.7
30°	127.5	129.4	133.8	135.1	140.7	143.3	140.1	138.8	134.4	131.3	129.4
32.5°	123.1	122.4	125.6	126.9	127.5	129.4	125.6	127.5	126.9	121.8	119.9
35°	92.8	97.8	106.0	113.0	114.9	117.4	116.8	114.2	107.3	101.6	94.7
37.5°	83.3	86.5	90.9	96.6	104.1	107.3	106.0	99.7	91.5	87.7	86.5
40°	77.0	78.9	82.7	86.5	94.0	99.7	95.3	89.6	83.3	80.2	78.3
42.5°	71.3	71.9	73.8	77.6	83.3	92.1	84.6	77.0	74.5	72.6	71.3
45°	65.0	65.0	67.5	69.4	75.7	83.9	76.4	69.4	68.2	66.9	66.3
47.5°	60.0	60.6	61.9	64.4	69.4	75.1	70.1	64.4	61.2	60.6	59.3
50°	53.6	54.3	56.8	59.3	65.6	68.8	65.6	59.3	56.2	54.3	54.3
52°	48.6	50.5	53.0	58.1	62.5	67.5	63.7	56.8	53.0	51.1	49.9
52.5°	48.0	49.2	51.8	57.4	62.5	66.9	63.1	56.2	51.8	50.5	49.2
55°	42.9	44.8	49.2	56.2	61.9	66.9	61.9	55.5	49.2	46.1	44.8
57.5°	41.0	42.3	48.0	56.8	61.2	66.9	61.9	55.5	49.2	43.5	42.3
60°	39.1	41.7	48.0	54.9	60.6	67.5	62.5	54.9	48.0	41.0	41.0
62.5°	37.2	39.1	47.3	53.6	58.1	65.0	60.0	53.6	46.1	39.1	38.5
65°	32.2	35.3	41.7	44.8	49.9	56.2	51.1	46.7	40.4	34.7	34.1
67.5°	24.6	25.9	30.9	34.7	37.9	43.5	41.0	35.3	30.9	26.5	26.5
70°	17.0	18.3	22.1	24.0	27.1	30.3	28.4	24.0	20.8	18.3	17.7
72.5°	12.0	12.6	13.9	15.1	16.4	17.7	17.0	13.9	12.0	11.4	10.7
75°	9.5	10.7	11.4	10.7	10.1	9.5	9.5	8.2	6.9	6.3	6.3
77.5°	9.5	10.1	9.5	8.2	6.9	6.3	5.7	5.0	3.8	3.2	3.8
80°	8.2	8.2	8.2	6.9	6.3	5.7	5.0	4.4	3.8	3.2	3.2
82.5°	8.8	8.8	8.2	6.9	6.9	5.7	5.7	5.0	4.4	3.2	3.2
85°	0.0	0.0	0.0	1.3	3.2	5.7	5.7	5.0	4.4	3.8	3.8
87.5°	0.0	0.0	0.0	0.0	0.6	1.3	2.5	3.2	3.8	3.8	3.8
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2
2.5°	1393.5	1417.5	1463.0	1508.4	1536.2	1569.0	1628.3	1659.9	1700.9	1721.1	1760.9
5°	1122.8	1179.6	1199.8	1251.5	1307.1	1362.6	1451.0	1548.2	1628.9	1684.5	1756.4
7.5°	819.2	832.5	910.7	945.4	1036.3	1137.3	1257.8	1380.3	1482.5	1573.4	1628.3
10°	614.1	662.7	711.9	778.2	851.4	955.5	1071.0	1206.1	1338.6	1429.5	1498.9
12.5°	493.5	532.0	597.7	669.0	759.2	828.0	944.2	1078.0	1249.6	1338.6	1430.1
15°	373.6	422.9	497.3	571.2	666.5	739.1	856.4	1025.0	1245.9	1368.3	1447.2
17.5°	277.1	310.5	377.4	460.1	557.3	659.5	817.9	1019.3	1288.1	1433.9	1515.3
20°	212.1	223.4	265.7	339.5	444.9	578.7	755.5	1043.9	1413.1	1593.6	1676.3
22.5°	171.7	176.7	193.1	244.2	346.5	508.1	725.8	1060.9	1553.8	1784.8	1895.3
25°	149.6	148.3	159.0	181.1	270.8	441.8	687.9	1125.3	1726.1	2009.5	2108.6
27.5°	136.3	136.3	141.4	157.2	224.7	398.9	663.9	1171.4	1899.7	2207.1	2260.7
30°	129.4	130.6	145.2	150.2	186.8	347.8	624.2	1218.1	2065.7	2333.3	2407.1
32.5°	119.9	114.9	111.7	124.3	157.2	301.7	584.4	1237.6	2200.1	2487.9	2551.0
35°	92.1	89.6	93.4	102.9	135.1	262.6	540.2	1259.7	2354.7	2667.2	2679.8
37.5°	83.3	82.7	85.2	93.4	113.6	228.5	508.7	1254.1	2472.8	2815.5	2781.4
40°	77.0	77.0	78.9	85.8	101.6	204.5	475.9	1249.0	2587.0	2982.1	2882.4
42.5°	71.9	71.9	75.1	79.5	96.6	188.7	451.3	1242.1	2682.9	3084.3	2941.7
45°	65.0	66.9	71.9	76.4	97.8	178.0	433.0	1215.6	2715.8	3083.1	2913.3
47.5°	60.0	62.5	67.5	73.8	88.4	174.8	420.3	1192.2	2704.4	3007.3	2824.3
50°	54.3	57.4	64.4	75.1	75.1	168.5	407.1	1213.0	2696.2	2948.6	2739.1
52°	50.5	53.0	61.9	73.2	65.6	155.3	398.9	1253.4	2729.6	2941.1	2701.2
52.5°	49.9	51.8	60.0	71.9	62.5	152.7	393.2	1262.9	2740.4	2922.1	2727.1
55°	44.2	46.7	54.9	56.2	51.1	125.6	374.9	1284.3	2687.4	2884.9	2702.5
57.5°	41.7	42.9	48.6	46.1	44.2	94.7	322.5	1250.9	2386.9	2562.4	2514.4
60°	38.5	39.8	45.4	36.0	37.2	66.3	242.4	1086.2	1916.7	2135.1	2221.6
62.5°	37.2	36.6	42.9	29.0	31.6	48.0	171.0	883.0	1476.8	1757.7	1907.3
65°	32.8	32.2	30.9	24.6	27.1	37.2	102.2	576.2	1040.7	1329.8	1411.8
67.5°	25.2	26.5	22.7	19.6	22.7	29.0	56.8	258.1	545.9	797.7	864.0
70°	17.7	18.9	18.3	17.0	20.2	24.0	32.8	88.4	225.9	419.1	462.0
72.5°	10.7	13.3	13.9	14.5	17.7	20.8	23.4	28.4	60.0	148.3	184.3
75°	6.3	8.8	10.7	12.6	14.5	17.7	19.6	20.2	20.8	27.8	44.8
77.5°	4.4	6.3	9.5	12.0	14.5	17.7	20.8	22.1	20.8	19.6	20.8
80°	3.8	6.3	8.8	11.4	15.1	18.3	20.8	20.8	20.2	17.7	18.9
82.5°	3.8	6.3	9.5	12.0	14.5	17.7	20.2	20.8	18.9	17.7	18.3
85°	4.4	6.9	10.1	12.6	15.8	14.5	13.3	10.7	10.1	8.2	8.8
87.5°	4.4	6.3	6.3	6.9	7.6	7.6	7.6	6.9	5.7	5.0	5.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2
2.5°	1762.7	1813.2	1811.3	1812.6	1805.0	1753.9	1729.3	1666.8	1684.5	1676.9
5°	1830.3	1880.1	1923.1	1918.0	1859.9	1790.5	1687.6	1590.4	1563.9	1524.8
7.5°	1762.7	1882.7	1922.4	1916.7	1830.9	1741.9	1577.8	1480.6	1434.6	1408.7
10°	1655.5	1794.3	1843.5	1853.6	1795.6	1660.5	1509.7	1353.8	1329.2	1284.3
12.5°	1594.2	1695.2	1725.5	1752.6	1732.5	1631.5	1457.9	1308.3	1274.3	1244.6
15°	1544.4	1604.3	1617.0	1647.9	1659.9	1605.6	1485.0	1357.6	1273.6	1270.5
17.5°	1590.4	1565.8	1519.8	1529.2	1567.1	1606.2	1555.1	1454.8	1373.3	1363.2
20°	1666.8	1558.3	1454.1	1477.5	1509.0	1628.9	1661.1	1590.4	1543.7	1517.9
22.5°	1754.5	1571.5	1433.3	1444.7	1504.6	1680.1	1832.8	1793.7	1706.6	1669.3
25°	1916.7	1608.1	1449.7	1457.3	1539.3	1751.4	1988.1	2017.1	1965.3	1957.8
27.5°	2075.2	1702.8	1485.7	1468.6	1557.0	1820.8	2082.1	2238.0	2147.1	2129.4
30°	2155.9	1779.8	1539.3	1510.3	1630.2	1863.1	2138.9	2381.9	2302.4	2294.2
32.5°	2279.6	1849.8	1581.0	1543.7	1671.2	1915.5	2244.9	2539.0	2462.0	2421.0
35°	2331.4	1926.2	1672.5	1628.9	1788.6	1988.7	2299.2	2679.1	2655.2	2615.4
37.5°	2431.1	2008.3	1780.4	1777.9	1930.6	2084.0	2397.0	2869.7	2865.3	2796.5
40°	2439.3	2097.9	1950.8	2030.3	2150.3	2250.0	2482.9	2922.8	2994.7	2948.0
42.5°	2451.9	2255.0	2245.6	2311.2	2414.1	2392.6	2486.0	2935.4	3045.2	3017.4
45°	2457.6	2412.2	2545.3	2666.5	2709.4	2579.4	2456.4	2911.4	3071.7	3002.3
47.5°	2412.2	2547.2	2787.7	3021.8	3034.5	2694.3	2443.7	2886.8	3087.5	3041.4
50°	2418.5	2631.8	2997.2	3206.8	3160.7	2795.9	2424.2	2871.6	3079.3	3048.4
52°	2403.3	2633.7	3026.9	3203.0	3170.8	2739.7	2390.7	2813.6	3071.7	3093.8
52.5°	2420.4	2622.3	2996.0	3205.5	3163.9	2767.5	2386.3	2845.8	3076.1	3031.3
55°	2361.7	2487.3	2814.8	2903.8	2897.5	2511.9	2250.6	2739.1	2960.6	2961.3
57.5°	2134.5	2155.9	2207.7	2205.8	2176.8	1974.8	1924.9	2518.8	2639.4	2573.7
60°	1880.8	1578.5	1439.0	1382.2	1350.0	1317.2	1702.8	2304.3	2315.6	2287.8
62.5°	1625.2	1094.4	908.8	893.0	900.6	1020.5	1646.0	2219.1	2150.9	2090.9
65°	1311.5	797.7	660.2	639.3	713.2	842.6	1332.3	1701.5	1596.8	1546.9
67.5°	823.6	581.9	446.2	407.1	496.1	580.0	875.4	1069.1	951.7	883.0
70°	488.5	325.0	202.0	181.1	203.9	309.3	490.4	533.3	441.2	405.8
72.5°	192.5	119.3	56.2	48.0	49.9	108.6	180.5	176.1	133.2	118.7
75°	51.8	36.0	19.6	15.8	13.3	20.2	29.0	18.9	6.9	8.8
77.5°	24.0	21.5	17.0	13.3	10.1	7.6	3.8	1.3	1.3	0.6
80°	20.8	18.3	15.8	13.3	10.1	6.3	3.2	0.6	0.6	0.6
82.5°	19.6	17.0	14.5	12.0	9.5	6.3	3.2	0.6	0.0	0.0
85°	8.2	10.7	12.0	11.4	10.1	6.3	3.2	0.6	0.0	0.0
87.5°	4.4	3.8	3.2	2.5	1.9	1.3	1.3	0.0	0.0	0.0
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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