

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: P450582

Luminaire Tested: **GALN-SA1B-827-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450582  
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-SA1B-827-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3648 lumens  
Efficiency: N/A  
Efficacy: 82.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

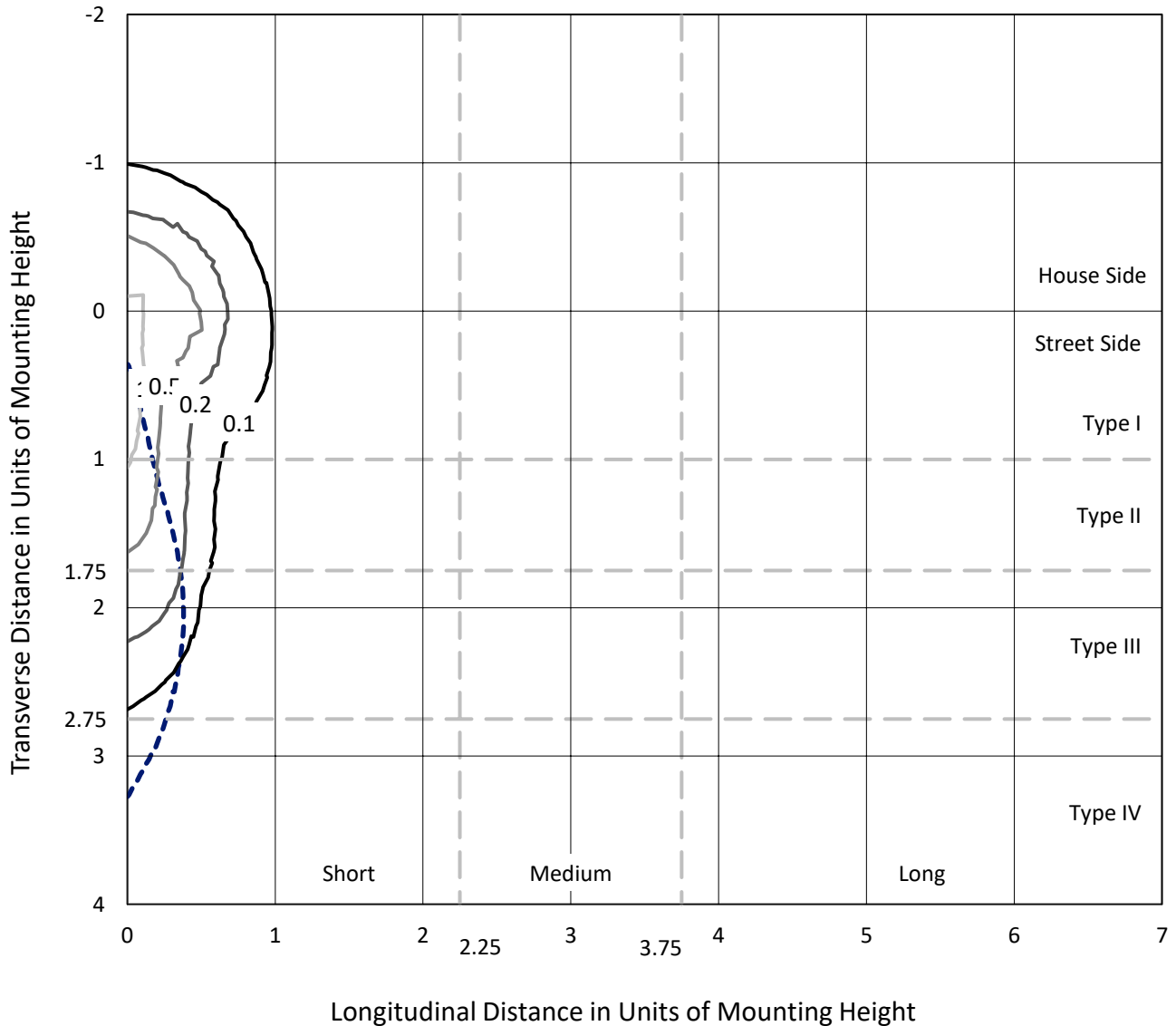
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

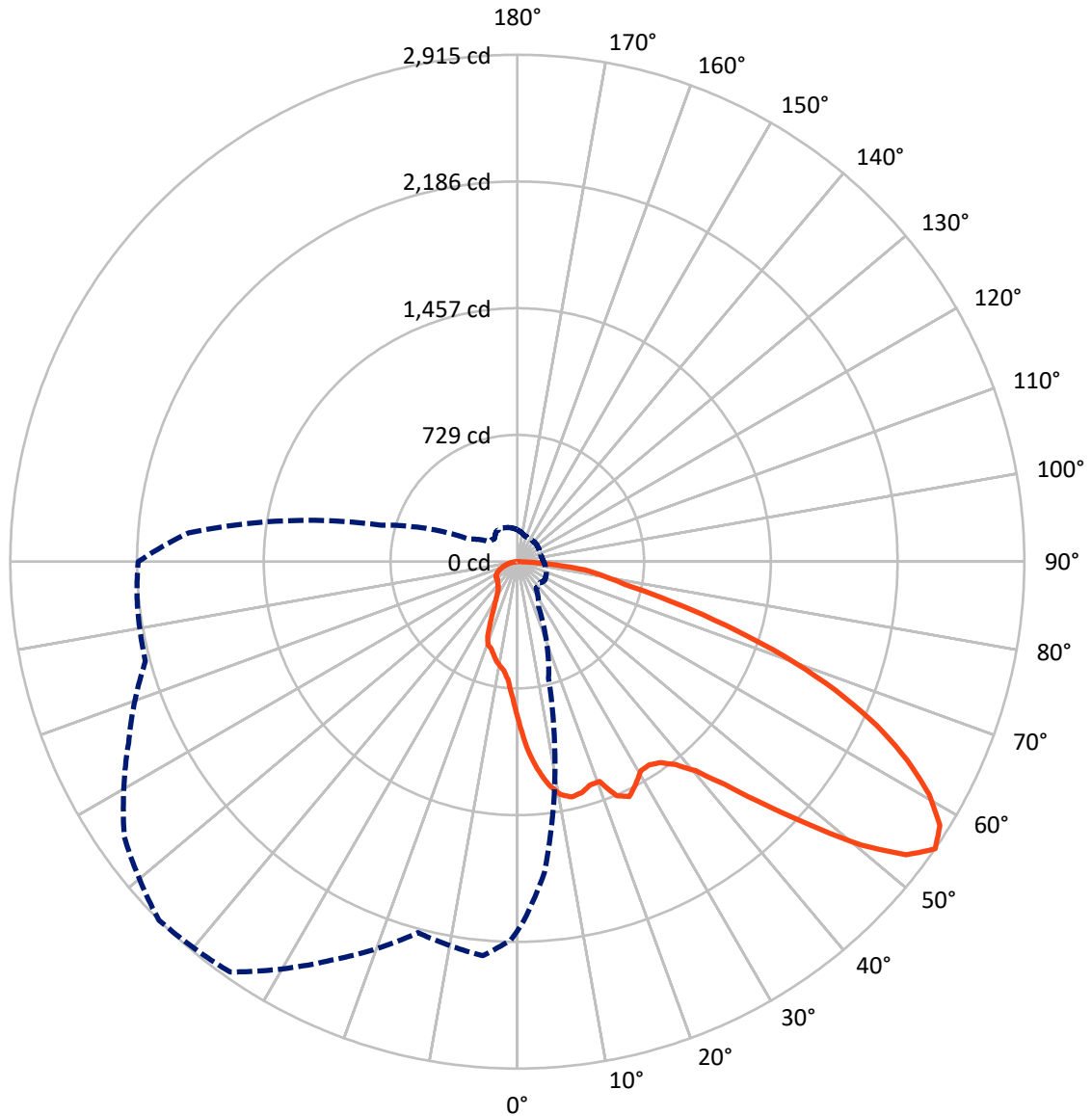
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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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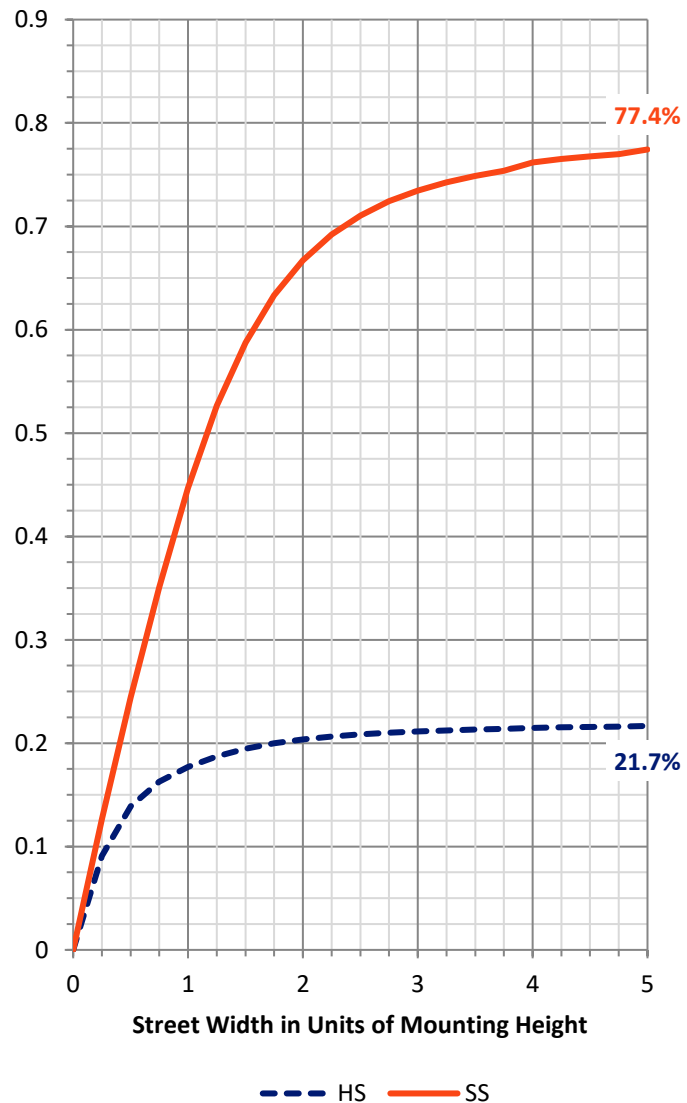
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	798.0	0.0	798.0
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	2850.0	0.0	2850.0
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	3648.0	0.0	3648.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.6	2.1
10°-20°	205.9	5.6
20°-30°	355.6	9.7
30°-40°	413.3	11.3
40°-50°	576.6	15.8
50°-60°	782.4	21.4
60°-70°	744.4	20.4
70°-80°	402.1	11.0
80°-90°	90.1	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°	3648.0	100.0
0°-180°	3648.0	100.0



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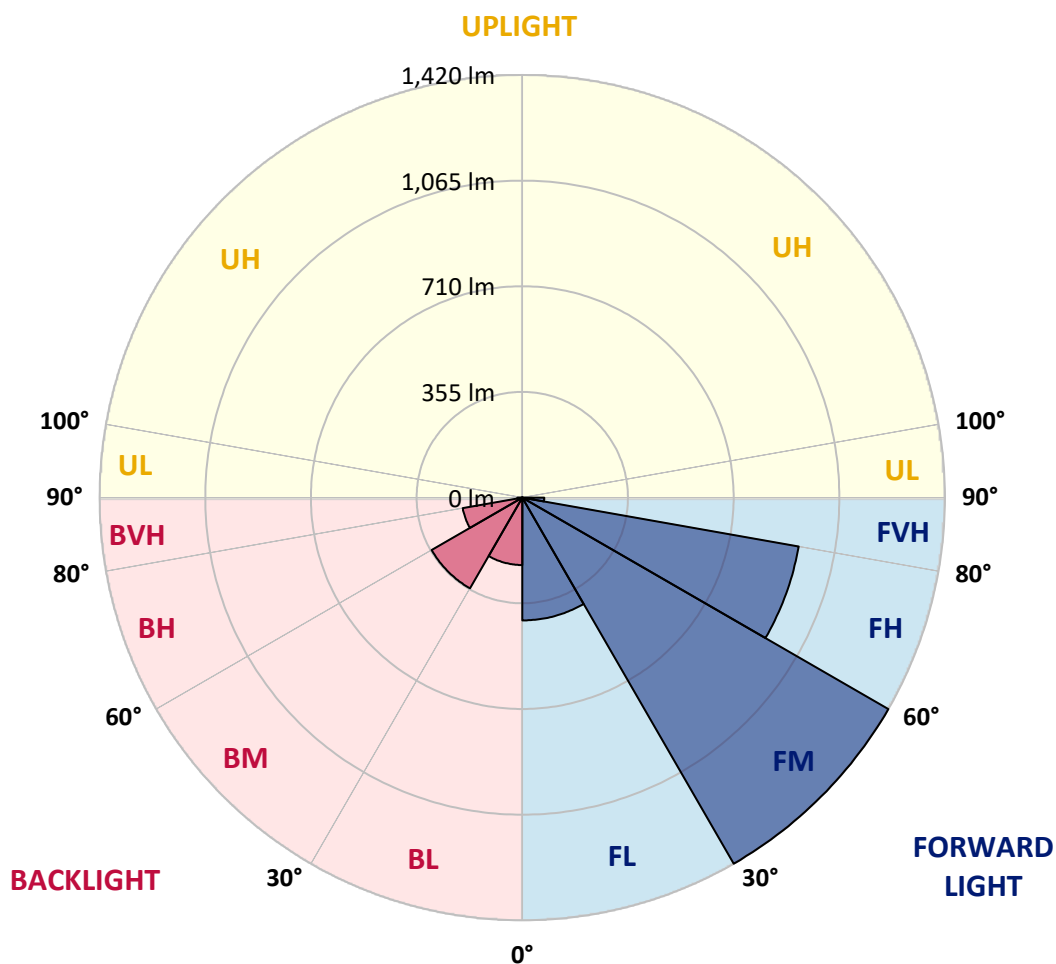
CATALOG NUMBER: GALN-SA1B-827-U-SLR

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	412.6	11.3			
FM	(30°-60°)	1420.5	38.9			
FH	(60°-80°)	943.3	25.9			G1/1800
FVH	(80°-90°)	73.7	2.0			G1/100
BL	(0°-30°)	226.5	6.2	B1/500		
BM	(30°-60°)	351.9	9.6	B1/1000		
BH	(60°-80°)	203.2	5.6	B1/500		G1/500
BVH	(80°-90°)	16.5	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-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	915.5	915.5	915.5	915.5	915.5	915.5	915.5	915.5	915.5	915.5	915.5
2.5°	1017.1	1013.2	1002.4	974.0	945.3	916.2	893.8	865.9	836.8	821.2	801.2
5°	1031.0	1026.7	1001.2	937.2	879.2	818.3	769.7	727.1	709.7	684.2	663.8
7.5°	998.3	996.4	958.1	866.2	786.7	707.1	652.0	617.8	586.8	575.2	577.6
10°	968.5	960.8	912.9	792.8	700.1	635.4	595.9	562.4	540.5	534.8	536.0
12.5°	943.7	933.3	876.8	743.4	662.3	610.6	560.3	525.4	505.4	510.9	529.7
15°	938.6	924.7	861.6	726.6	641.6	575.0	519.8	479.7	464.7	476.8	506.8
17.5°	971.3	953.8	887.6	732.1	621.9	538.6	471.0	425.0	412.5	431.8	471.0
20°	1076.5	1050.5	968.7	764.1	620.0	520.6	442.6	396.4	401.7	438.3	479.2
22.5°	1271.0	1232.0	1110.7	810.8	630.1	516.0	436.8	412.7	441.9	472.9	499.9
25°	1309.5	1278.9	1136.2	821.4	627.9	512.9	453.2	465.2	497.7	513.1	503.7
27.5°	1331.1	1296.2	1134.5	768.9	561.5	465.2	433.2	453.2	461.4	446.4	420.9
30°	1381.7	1345.3	1163.2	713.8	462.3	345.1	302.5	294.3	299.9	302.8	293.6
32.5°	1451.2	1415.4	1217.1	677.7	399.8	285.4	243.6	232.0	229.4	226.2	222.6
35°	1541.2	1486.1	1270.0	654.6	374.0	264.0	225.5	216.6	213.0	208.7	204.8
37.5°	1632.7	1574.9	1336.9	630.3	356.9	249.1	213.5	209.4	203.1	198.6	193.0
40°	1729.9	1665.2	1397.8	609.1	340.3	239.5	204.8	204.3	196.1	190.9	184.4
42.5°	1814.2	1747.5	1452.2	596.1	327.6	229.4	199.5	201.0	192.5	184.6	176.2
45°	1881.1	1815.6	1502.5	596.1	317.2	219.2	198.6	197.6	189.2	179.3	169.7
47.5°	1939.8	1872.2	1551.6	611.3	310.7	210.8	193.3	194.9	186.3	173.8	164.4
50°	1985.3	1925.6	1617.8	634.9	304.2	204.1	186.5	195.7	183.9	170.9	160.0
52.5°	2043.3	1989.9	1697.4	667.1	298.7	196.6	180.5	195.7	183.6	171.1	159.3
55°	2123.7	2067.3	1793.5	693.8	289.8	189.6	175.2	190.1	182.9	169.9	157.4
57.5°	2180.0	2137.9	1861.3	711.7	277.0	180.7	170.4	184.8	179.8	165.3	151.6
58°	2182.6	2141.5	1871.2	715.8	273.9	179.1	169.2	182.4	178.3	163.4	149.7
60°	2152.3	2116.9	1873.1	710.0	256.1	170.6	162.9	172.6	170.6	152.1	139.3
62.5°	2042.1	2004.3	1795.4	663.0	232.5	160.3	153.3	159.3	155.0	136.2	124.4
65°	1885.4	1815.8	1635.6	589.4	215.6	149.2	140.3	140.8	136.2	122.7	112.4
67.5°	1676.7	1599.0	1384.8	496.7	202.9	136.9	124.9	123.7	118.2	109.5	101.1
70°	1419.9	1366.8	1125.4	404.1	188.7	123.5	107.6	106.9	103.5	97.0	89.5
72.5°	1150.9	1083.3	908.8	323.5	171.4	110.5	91.5	92.9	88.6	84.0	77.3
75°	849.3	805.0	702.5	259.4	148.0	96.3	76.3	76.8	74.8	70.0	64.7
77.5°	559.3	546.1	502.5	170.4	113.8	76.5	62.3	62.8	61.4	57.0	51.5
80°	376.4	367.5	340.5	109.7	76.1	55.4	48.1	48.6	48.4	43.8	36.3
82.5°	232.0	228.2	219.5	74.1	52.7	39.7	31.8	33.2	35.9	30.8	24.8
85°	109.5	109.7	132.6	40.4	31.0	25.5	17.3	18.5	18.5	18.5	14.0
87.5°	14.2	14.9	18.3	17.1	11.3	9.6	6.3	5.3	4.6	6.0	4.3
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°	915.5	915.5	915.5	915.5	915.5	915.5	915.5	915.5	915.5	915.5	915.5
2.5°	794.2	789.4	779.0	776.6	775.2	779.3	768.5	771.3	766.5	780.0	777.8
5°	665.0	665.5	673.9	679.4	681.3	679.4	672.2	659.7	650.0	646.2	647.2
7.5°	573.0	581.5	595.9	612.0	626.7	631.0	626.9	603.1	577.1	560.8	555.5
10°	542.5	553.8	570.4	583.1	596.1	606.5	608.7	590.1	559.3	520.6	505.4
12.5°	544.2	559.6	575.4	579.5	578.3	582.4	580.5	577.4	557.1	507.8	482.5
15°	528.3	546.6	557.6	555.5	551.6	548.0	542.9	535.0	527.8	493.1	465.2
17.5°	491.7	510.5	519.6	520.3	520.3	519.4	507.1	504.2	503.2	486.4	469.3
20°	498.4	508.8	504.7	497.9	499.9	506.4	499.1	497.7	503.2	510.7	507.6
22.5°	502.3	498.7	467.9	438.0	431.3	451.5	455.6	471.7	494.1	521.0	538.6
25°	478.5	449.3	394.2	360.5	341.5	360.3	384.8	414.7	448.1	482.8	503.2
27.5°	400.0	377.9	338.4	308.1	291.5	294.3	315.3	342.5	373.5	396.9	411.8
30°	301.3	291.5	271.0	260.6	250.5	248.1	257.0	267.4	281.1	284.0	287.8
32.5°	221.9	220.5	221.7	218.3	216.4	216.1	213.5	215.9	217.3	219.0	215.6
35°	200.7	198.8	195.4	194.5	193.3	193.7	192.5	191.3	192.3	193.7	194.7
37.5°	189.9	187.0	182.2	180.5	180.5	181.2	179.3	178.8	180.5	185.1	187.5
40°	181.5	178.1	172.6	170.4	171.8	173.8	171.1	170.2	174.2	179.1	182.9
42.5°	173.5	170.9	165.6	163.2	164.4	168.0	164.1	163.4	168.7	174.0	178.6
45°	166.8	164.1	159.3	158.1	158.6	162.0	159.3	159.3	164.4	170.2	174.2
47.5°	161.5	158.1	155.0	154.0	154.5	156.4	156.0	156.0	160.8	166.8	170.9
50°	156.2	153.3	149.2	149.7	150.9	153.5	153.3	154.0	158.8	166.3	170.6
52.5°	153.8	149.5	144.9	145.4	149.0	152.1	151.1	151.9	157.4	171.4	177.6
55°	151.1	145.4	140.1	140.8	144.9	149.5	148.3	149.2	155.7	174.7	183.4
57.5°	146.1	139.3	133.6	134.1	140.1	144.9	143.0	144.2	151.9	171.1	180.3
58°	143.9	138.1	132.6	132.8	138.6	143.9	141.8	142.7	150.7	170.2	178.8
60°	134.8	131.4	126.6	126.8	132.4	136.9	135.7	136.7	144.4	163.2	169.7
62.5°	122.3	120.3	119.1	119.1	122.5	126.8	128.0	129.2	136.2	147.5	153.3
65°	108.8	108.8	109.0	109.0	111.2	116.7	117.4	120.6	127.1	132.6	136.9
67.5°	99.6	99.2	99.6	98.4	99.4	102.8	106.4	109.3	116.0	119.9	121.3
70°	87.8	87.6	87.8	86.2	87.4	90.3	92.7	97.5	104.5	107.3	108.1
72.5°	76.3	76.3	76.8	75.6	75.6	78.7	80.4	85.7	92.2	93.9	94.1
75°	64.3	65.0	65.0	63.3	63.8	65.7	67.9	72.2	78.2	79.4	79.4
77.5°	51.0	53.7	53.7	52.0	52.7	52.9	55.8	58.0	62.6	63.1	61.1
80°	37.1	39.7	41.9	40.4	41.6	40.2	41.9	43.3	47.9	45.7	42.6
82.5°	26.5	28.4	30.1	30.3	29.1	26.5	28.6	28.9	31.0	28.2	26.5
85°	14.7	16.4	18.5	17.6	15.6	14.0	14.7	15.2	14.9	14.2	13.2
87.5°	3.9	4.1	4.6	3.4	3.1	2.6	3.6	3.6	4.1	4.3	4.1
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	915.5	915.5	915.5	915.5	915.5	915.5	915.5	915.5	915.5	915.5	915.5
2.5°	779.5	790.1	813.0	830.3	851.5	877.2	907.6	938.1	971.1	981.4	995.9
5°	645.0	671.5	682.5	714.1	745.4	792.3	842.3	900.3	963.9	994.4	1023.8
7.5°	551.1	565.3	576.9	600.0	637.5	694.6	757.4	829.8	919.8	964.4	1007.4
10°	500.6	502.0	516.2	544.9	577.6	627.9	687.4	768.5	868.8	923.0	973.5
12.5°	467.1	460.9	476.3	506.1	543.2	589.6	644.3	721.5	832.0	887.6	948.7
15°	437.8	427.9	439.5	470.0	506.6	561.2	620.0	701.8	817.6	882.3	950.2
17.5°	438.5	411.3	415.4	441.1	477.5	533.1	604.3	701.1	839.5	914.1	994.4
20°	492.6	449.1	430.6	435.4	470.5	531.2	611.5	734.8	911.4	1020.2	1106.1
22.5°	545.8	519.6	489.8	479.9	499.1	562.7	657.5	814.4	1067.8	1231.7	1387.0
25°	527.3	549.7	542.2	528.3	532.6	585.3	688.8	879.9	1189.4	1374.0	1519.8
27.5°	421.9	462.6	470.7	470.5	472.2	515.5	619.5	835.8	1204.5	1401.2	1540.5
30°	296.5	300.1	304.4	312.9	320.6	359.3	484.7	733.8	1197.8	1413.4	1553.0
32.5°	214.0	218.8	224.8	236.3	254.6	304.0	424.1	701.3	1233.4	1464.2	1589.6
35°	195.7	201.2	207.0	220.2	237.5	283.3	400.0	687.8	1291.9	1546.5	1655.3
37.5°	189.9	196.1	201.2	210.8	224.8	268.3	378.1	678.7	1351.8	1633.7	1743.4
40°	185.8	193.0	197.1	204.8	214.4	254.6	358.6	671.5	1409.8	1713.3	1814.2
42.5°	182.2	189.6	194.9	200.5	208.4	242.4	341.3	664.2	1460.1	1790.6	1884.7
45°	177.9	187.2	194.0	198.3	205.3	232.0	328.0	658.5	1517.4	1859.2	1955.9
47.5°	174.2	184.6	193.0	198.1	200.7	224.8	317.4	666.4	1586.3	1930.9	2022.1
50°	174.5	184.4	194.9	202.9	195.9	218.8	310.9	697.9	1675.8	2016.1	2074.3
52.5°	182.2	194.2	202.6	204.6	189.2	211.5	307.6	753.1	1781.7	2091.4	2127.0
55°	190.9	203.4	212.5	211.3	185.6	202.4	306.9	811.8	1897.7	2179.3	2195.6
57.5°	187.7	206.0	220.0	213.7	185.8	193.5	303.7	859.2	1994.7	2245.0	2263.5
58°	186.8	205.1	220.9	213.2	185.1	190.9	303.0	863.3	2008.1	2249.5	2273.1
60°	177.4	196.6	220.2	209.6	181.0	183.6	295.1	876.5	2004.5	2225.9	2278.9
62.5°	160.3	176.2	203.6	192.1	168.5	174.0	277.3	860.2	1906.8	2112.4	2194.4
65°	141.0	152.8	171.1	168.9	150.7	164.1	252.9	795.4	1711.2	1928.0	2014.4
67.5°	126.6	136.2	147.8	144.6	135.5	150.9	226.7	685.9	1491.7	1706.6	1815.4
70°	111.9	119.4	125.1	123.0	120.1	137.9	203.4	556.7	1281.3	1496.2	1601.7
72.5°	97.0	104.0	108.8	105.7	104.0	124.2	184.4	432.0	1012.0	1234.4	1369.9
75°	81.1	88.1	91.5	87.8	86.9	109.5	156.2	322.7	759.3	951.6	1068.6
77.5°	62.8	70.3	74.6	73.4	73.9	90.0	126.1	220.9	542.9	648.6	771.8
80°	44.0	52.2	55.1	53.9	57.3	68.6	89.0	140.3	374.5	420.9	507.8
82.5°	27.2	34.9	35.4	36.6	39.0	50.8	67.1	85.4	235.1	243.1	306.1
85°	13.7	16.6	17.8	19.7	21.9	31.0	38.3	52.9	151.4	114.6	171.1
87.5°	4.6	4.8	5.8	7.2	8.9	12.8	16.4	21.7	37.5	20.7	52.9
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	915.5	915.5	915.5	915.5	915.5	915.5	915.5	915.5	915.5	915.5
2.5°	1025.0	1045.5	1060.4	1074.1	1060.9	1059.7	1046.7	1025.7	1017.1	1017.1
5°	1085.4	1133.3	1172.1	1196.8	1186.3	1160.7	1118.6	1065.0	1036.1	1031.0
7.5°	1102.0	1196.6	1268.6	1294.1	1276.3	1220.0	1139.3	1048.8	1007.4	998.3
10°	1091.9	1214.9	1320.6	1361.0	1336.2	1251.0	1141.0	1030.1	979.0	968.5
12.5°	1081.3	1217.3	1330.2	1388.7	1372.5	1276.0	1153.3	1017.8	958.8	943.7
15°	1089.0	1218.3	1318.4	1378.8	1389.1	1306.1	1173.5	1026.7	954.7	938.6
17.5°	1137.6	1236.6	1301.5	1350.4	1386.7	1347.0	1231.0	1069.3	991.3	971.3
20°	1239.2	1280.4	1311.2	1349.0	1407.4	1430.5	1348.7	1186.3	1094.1	1076.5
22.5°	1533.3	1525.8	1462.8	1462.1	1546.8	1639.4	1633.9	1424.0	1285.4	1271.0
25°	1643.5	1608.9	1517.7	1495.5	1532.8	1675.8	1655.1	1472.7	1344.6	1309.5
27.5°	1600.4	1514.5	1454.6	1449.6	1437.3	1572.3	1622.1	1492.4	1365.3	1331.1
30°	1597.8	1471.5	1385.8	1395.9	1407.7	1536.7	1640.4	1554.2	1418.3	1381.7
32.5°	1604.3	1477.5	1390.8	1392.8	1427.9	1542.0	1660.6	1621.6	1487.8	1451.2
35°	1630.5	1511.6	1423.1	1418.5	1473.4	1576.6	1695.0	1727.5	1582.9	1541.2
37.5°	1672.9	1579.8	1482.0	1480.8	1560.5	1639.2	1737.9	1834.4	1677.5	1632.7
40°	1735.2	1659.4	1587.0	1580.5	1678.9	1741.0	1793.5	1948.2	1787.4	1729.9
42.5°	1810.6	1755.0	1725.4	1751.1	1845.7	1855.3	1880.1	2053.4	1881.1	1814.2
45°	1880.3	1877.7	1918.9	1987.2	2042.3	1984.6	1970.6	2123.9	1953.8	1881.1
47.5°	1963.4	2035.1	2159.3	2259.4	2317.2	2135.0	2047.9	2169.9	2006.7	1939.8
50°	2047.6	2223.5	2421.9	2561.4	2573.7	2298.4	2101.0	2213.2	2054.8	1985.3
52.5°	2136.2	2374.0	2638.0	2800.2	2776.4	2440.6	2152.5	2242.6	2104.4	2043.3
55°	2213.2	2466.1	2758.8	2914.5	2879.6	2527.3	2208.1	2274.3	2175.2	2123.7
57.5°	2256.3	2473.8	2728.7	2864.7	2826.9	2510.4	2233.7	2297.9	2220.4	2180.0
58°	2262.5	2463.5	2702.0	2835.8	2797.3	2496.2	2233.4	2296.9	2223.3	2182.6
60°	2257.0	2396.3	2602.6	2721.7	2681.3	2407.2	2224.3	2278.9	2186.7	2152.3
62.5°	2205.7	2279.9	2431.0	2517.6	2506.1	2268.1	2186.7	2210.8	2075.3	2042.1
65°	2138.3	2121.0	2211.3	2272.6	2281.3	2163.9	2149.4	2063.5	1932.3	1885.4
67.5°	2056.5	1941.0	1940.8	1975.7	1990.1	2003.6	2071.7	1903.5	1726.3	1676.7
70°	1917.7	1663.5	1587.0	1628.1	1616.1	1729.9	1932.8	1678.7	1477.9	1419.9
72.5°	1663.0	1320.1	1197.6	1250.5	1220.2	1356.7	1691.2	1381.4	1222.1	1150.9
75°	1348.0	987.5	861.1	909.7	891.0	1029.1	1407.2	1003.3	876.5	849.3
77.5°	1046.7	715.5	642.1	635.4	649.3	765.8	1032.2	677.5	577.8	559.3
80°	672.4	512.1	516.5	507.8	515.0	482.8	626.7	432.2	391.3	376.4
82.5°	442.6	356.9	425.5	392.8	373.0	324.7	411.1	283.0	240.2	232.0
85°	301.6	262.8	239.2	182.9	215.4	250.1	308.3	152.3	120.8	109.5
87.5°	136.2	91.5	67.1	41.4	65.5	75.6	149.7	17.8	13.7	14.2
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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