

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: P450232

Luminaire Tested: **GALN-SA1A-730-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450232  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1A-730-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3633 lumens  
Efficiency: N/A  
Efficacy: 110.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

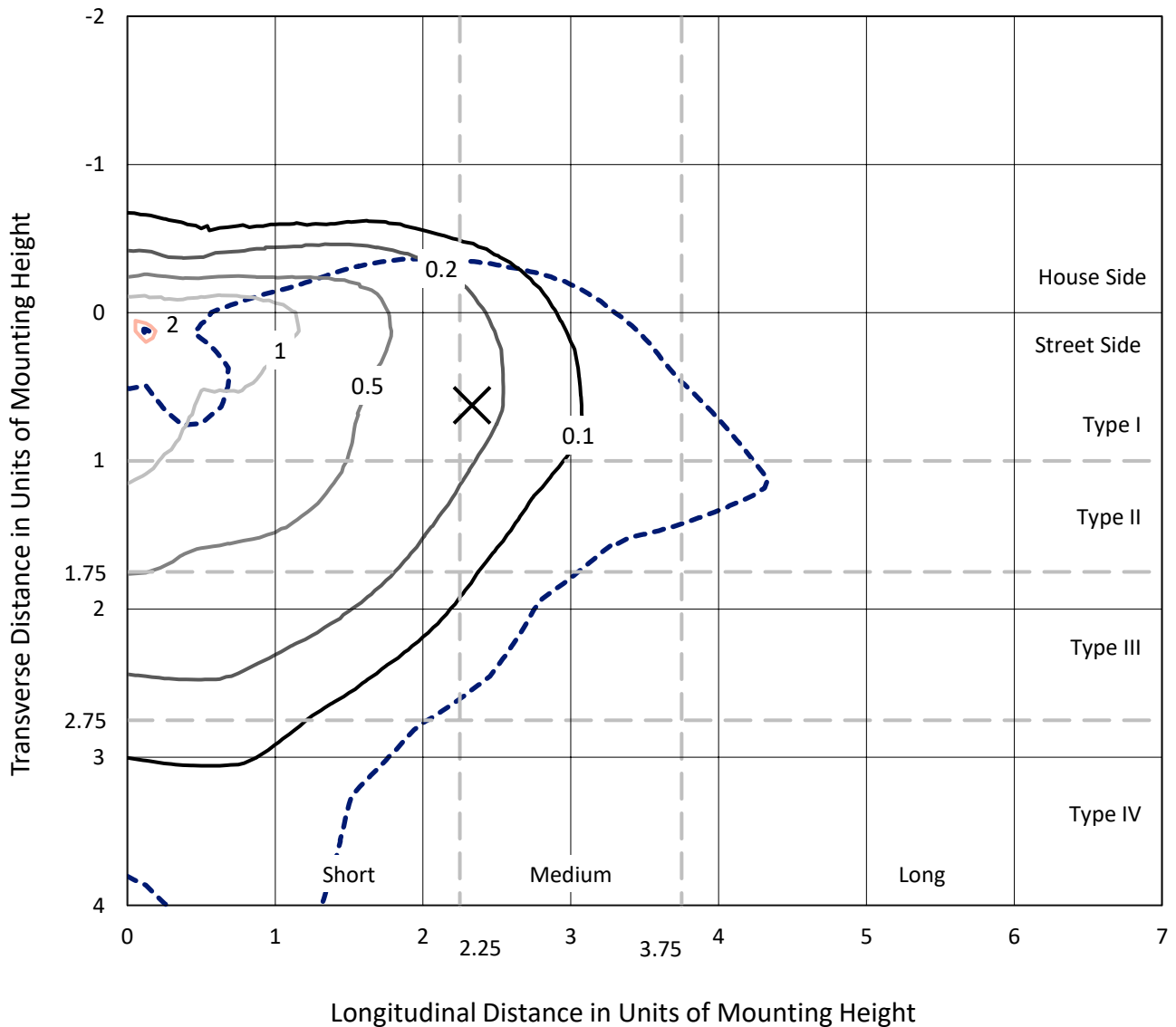
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

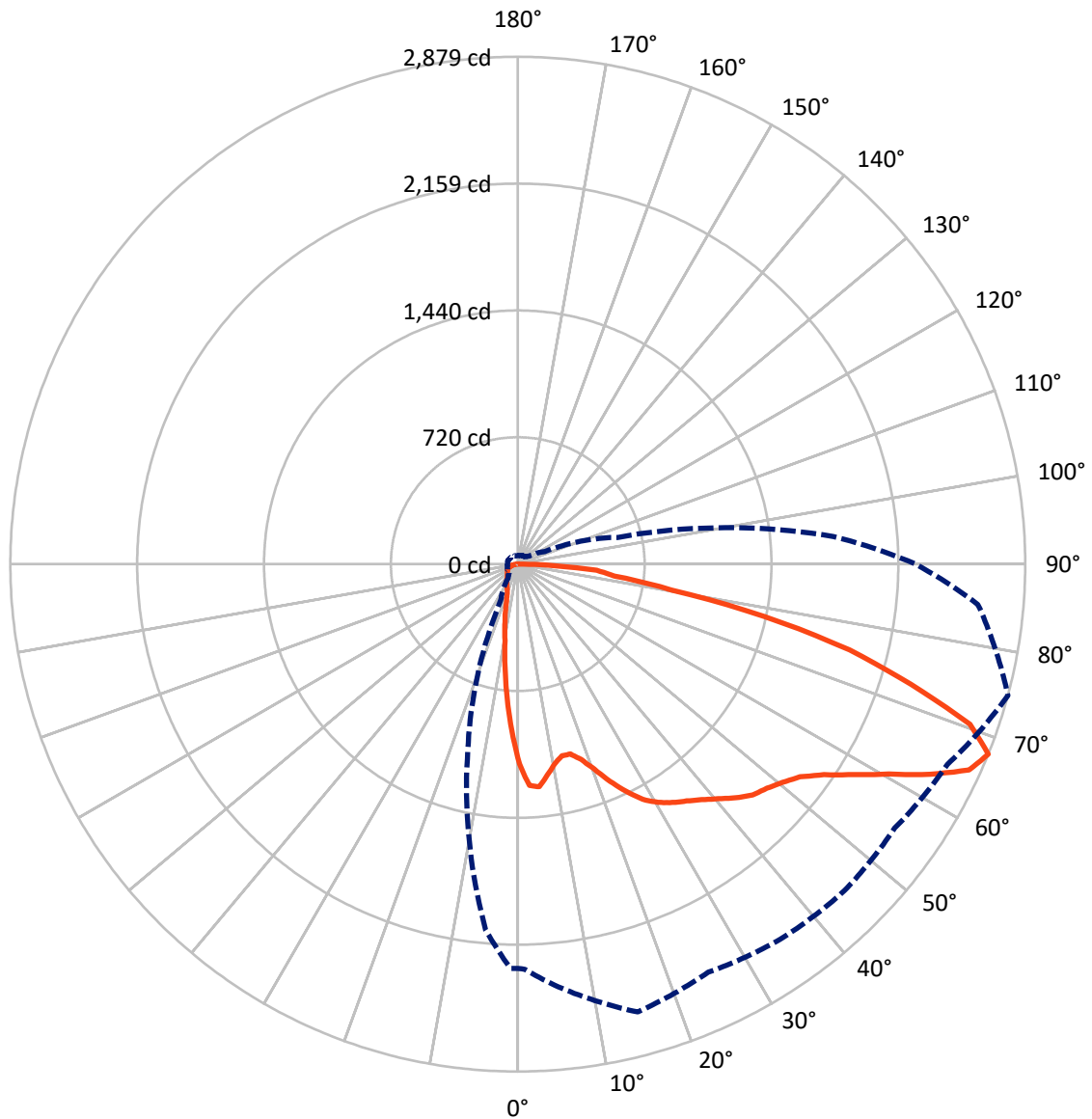
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical



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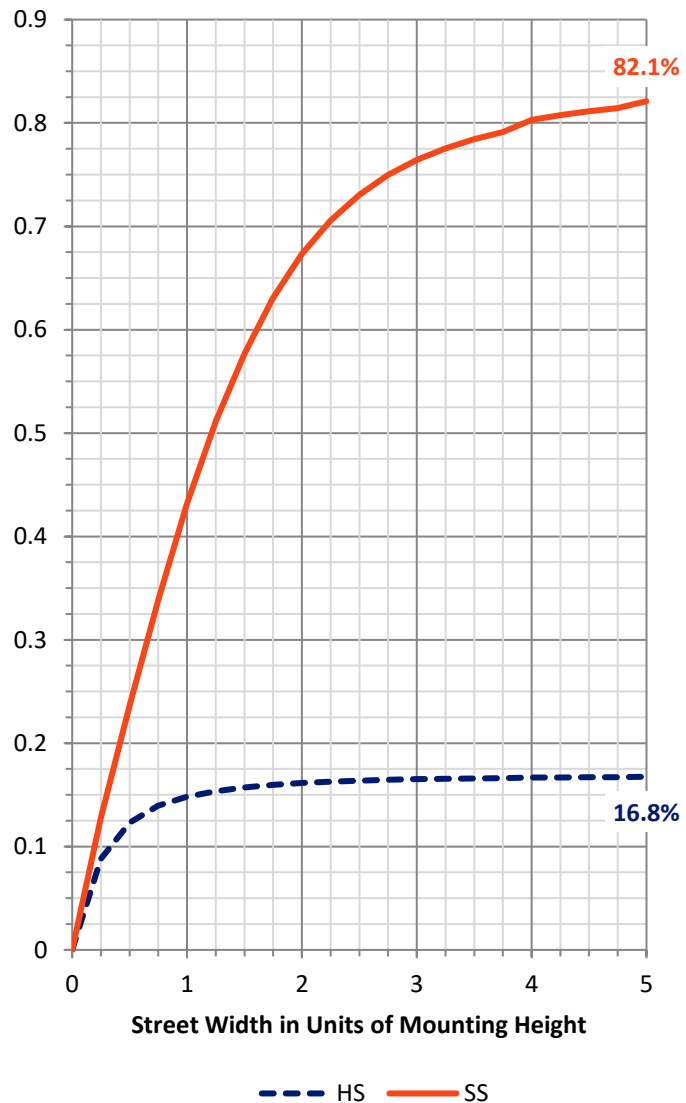
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	614.1	0.0	614.1
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	3018.9	0.0	3018.9
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	3633.0	0.0	3633.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.1	2.4
10°-20°	179.5	4.9
20°-30°	258.4	7.1
30°-40°	372.1	10.2
40°-50°	522.7	14.4
50°-60°	729.0	20.1
60°-70°	866.7	23.9
70°-80°	510.5	14.1
80°-90°	107.9	3.0
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°	3633.0	100.0
0°-180°	3633.0	100.0



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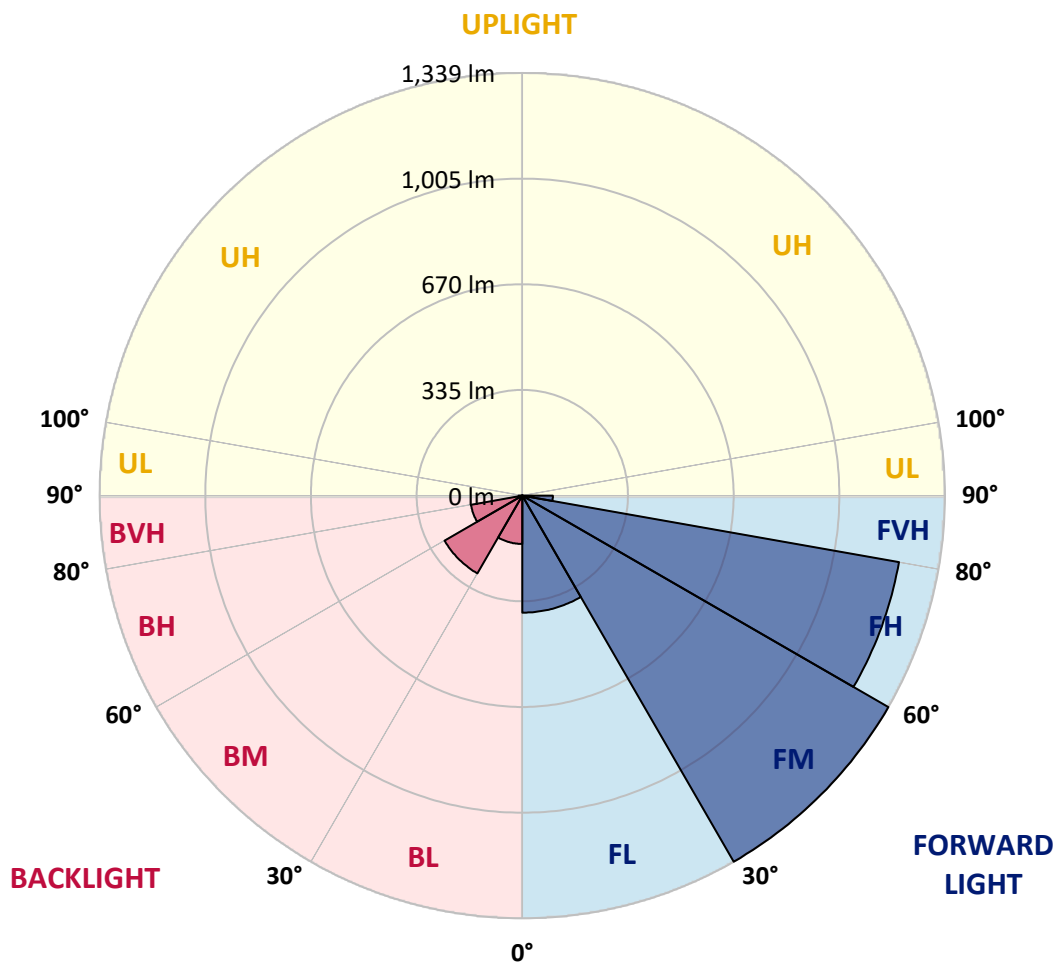
CATALOG NUMBER: GALN-SA1A-730-U-SLL

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	370.8	10.2			
FM	(30°-60°)	1339.4	36.9			
FH	(60°-80°)	1212.0	33.4			G1/1800
FVH	(80°-90°)	96.8	2.7			G1/100
BL	(0°-30°)	153.2	4.2	B1/500		
BM	(30°-60°)	284.5	7.8	B1/1000		
BH	(60°-80°)	165.2	4.5	B1/500		G1/500
BVH	(80°-90°)	11.2	0.3			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1135.0	1135.0	1135.0	1135.0	1135.0	1135.0	1135.0	1135.0	1135.0	1135.0	1135.0
2.5°	1223.8	1225.4	1235.9	1266.4	1287.4	1295.1	1300.4	1290.4	1280.6	1256.9	1221.0
5°	1220.1	1229.6	1256.9	1325.4	1379.4	1402.7	1409.7	1379.7	1330.0	1269.0	1195.6
7.5°	1148.8	1161.6	1203.5	1318.4	1413.7	1468.2	1461.0	1406.7	1317.2	1208.4	1105.9
10°	1064.2	1078.4	1129.0	1267.8	1390.6	1465.6	1465.6	1399.5	1280.6	1151.3	1033.2
12.5°	997.1	1012.0	1069.8	1215.9	1342.6	1413.7	1425.6	1368.7	1254.3	1115.2	985.5
15°	975.0	989.4	1051.6	1184.4	1291.8	1335.2	1339.1	1320.5	1241.5	1117.8	983.4
17.5°	1002.5	1021.1	1084.0	1193.7	1245.2	1247.8	1250.8	1265.5	1242.9	1164.6	1025.8
20°	1081.9	1102.0	1167.7	1223.8	1204.5	1177.9	1179.5	1217.3	1259.4	1242.0	1127.1
22.5°	1196.5	1214.0	1281.3	1276.7	1187.2	1132.5	1121.1	1173.7	1283.9	1338.4	1235.0
25°	1320.2	1340.7	1418.1	1355.2	1192.1	1105.4	1098.2	1148.1	1309.3	1428.6	1359.6
27.5°	1461.9	1481.9	1543.0	1434.4	1217.7	1103.4	1094.7	1145.8	1332.1	1512.0	1478.7
30°	1567.2	1585.6	1627.1	1501.0	1249.2	1117.3	1106.6	1164.2	1351.7	1569.1	1594.7
32.5°	1649.9	1669.0	1691.6	1542.5	1290.7	1142.7	1122.9	1197.7	1377.3	1612.6	1680.7
35°	1736.1	1758.7	1757.1	1579.3	1329.3	1172.1	1152.7	1246.2	1417.6	1650.6	1789.7
37.5°	1845.4	1854.4	1842.8	1612.4	1375.7	1225.0	1214.2	1318.2	1474.9	1696.5	1917.1
40°	1956.3	1974.4	1914.6	1652.5	1432.1	1324.4	1323.3	1424.6	1543.0	1750.3	2040.6
42.5°	2051.3	2066.7	1981.7	1687.4	1500.3	1445.8	1454.7	1567.4	1632.2	1812.7	2139.8
45°	2122.8	2136.6	2043.6	1721.2	1590.3	1586.1	1638.3	1720.5	1744.7	1868.9	2198.1
47.5°	2183.6	2196.9	2086.7	1772.4	1701.4	1753.6	1844.4	1880.1	1840.9	1901.0	2263.3
50°	2234.9	2238.9	2116.3	1833.5	1839.3	1958.8	2046.9	2069.9	1936.0	1947.2	2319.9
52.5°	2288.2	2283.1	2167.3	1910.4	1988.4	2153.6	2217.7	2241.6	2027.1	2004.0	2402.4
55°	2407.8	2412.6	2281.7	2007.3	2139.1	2344.9	2429.2	2406.1	2128.0	2108.6	2507.2
57.5°	2552.2	2548.0	2442.7	2158.9	2292.7	2522.8	2585.7	2548.7	2262.6	2252.4	2613.5
60°	2608.3	2613.9	2577.4	2322.0	2444.1	2678.7	2743.0	2685.5	2424.1	2419.4	2693.6
62.5°	2552.0	2583.4	2608.1	2467.2	2573.2	2793.3	2857.2	2791.5	2592.5	2626.3	2749.8
65°	2439.7	2446.4	2530.5	2590.2	2635.4	2812.2	2845.5	2810.6	2733.2	2814.8	2747.2
67.5°	2293.8	2299.7	2398.2	2630.5	2555.2	2597.9	2621.2	2610.9	2689.7	2879.3	2620.7
70°	2155.0	2150.3	2254.5	2527.7	2224.4	2159.6	2179.0	2146.8	2320.9	2721.6	2372.6
72.5°	1884.7	1901.5	2013.3	2242.1	1761.3	1656.0	1698.1	1615.0	1785.0	2330.9	1925.7
75°	1476.3	1480.3	1666.9	1881.7	1328.6	1162.5	1219.6	1184.9	1367.3	1944.4	1329.8
77.5°	1022.3	1013.4	1214.0	1437.2	947.5	851.0	852.0	835.4	954.7	1431.6	903.5
80°	649.3	635.8	760.0	887.9	651.2	696.6	673.8	673.1	621.6	883.2	546.3
82.5°	350.9	365.8	480.2	556.6	467.1	538.4	493.4	479.0	426.6	552.8	349.5
85°	159.8	173.8	256.0	378.6	354.8	358.8	239.7	282.8	353.0	448.9	186.6
87.5°	15.6	20.0	52.9	178.7	121.1	95.5	35.6	68.7	88.8	159.6	14.9
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°	1135.0	1135.0	1135.0	1135.0	1135.0	1135.0	1135.0	1135.0	1135.0	1135.0	1135.0
2.5°	1206.3	1194.2	1153.0	1119.0	1082.8	1055.4	1019.5	995.5	978.9	954.0	951.0
5°	1150.9	1121.3	1049.5	976.4	913.2	865.7	817.5	773.2	747.1	739.0	728.5
7.5°	1057.5	1007.6	915.3	831.5	759.0	688.2	633.7	595.0	569.1	554.0	535.8
10°	980.6	922.8	810.5	707.8	648.1	604.1	556.1	514.6	482.7	455.5	440.5
12.5°	928.9	863.6	737.4	653.9	607.8	561.0	504.8	458.3	411.2	380.2	366.9
15°	913.2	844.3	714.8	627.2	561.0	499.7	436.8	376.0	329.4	300.1	290.3
17.5°	951.5	868.1	714.5	591.5	506.0	432.9	352.3	295.2	247.4	225.5	218.5
20°	1022.7	913.7	716.6	556.3	446.4	343.4	256.3	209.4	186.6	177.3	173.8
22.5°	1122.2	983.4	722.9	521.6	381.1	263.7	192.0	168.2	160.1	158.4	157.7
25°	1244.8	1069.6	744.1	490.4	326.2	201.3	160.5	149.8	145.1	143.5	143.3
27.5°	1357.5	1180.9	769.7	463.6	273.0	173.6	145.1	136.1	131.4	131.2	131.6
30°	1459.3	1274.1	791.2	433.6	232.7	154.2	135.1	126.0	121.6	121.4	122.8
32.5°	1547.4	1350.8	807.0	404.0	210.4	142.3	126.0	116.3	112.5	111.8	112.5
35°	1641.5	1427.2	799.8	380.9	197.6	132.6	119.3	109.7	105.3	103.2	103.2
37.5°	1748.9	1505.9	787.4	361.8	191.7	124.4	113.5	104.1	99.7	97.6	97.4
40°	1866.1	1584.7	770.4	344.8	185.9	119.5	109.5	99.7	94.4	92.3	91.8
42.5°	1969.5	1652.0	756.5	333.6	176.4	120.4	106.0	96.5	89.7	86.9	86.7
45°	2059.5	1719.8	753.9	327.1	168.4	119.0	105.1	93.9	86.0	82.9	82.5
47.5°	2129.8	1790.4	768.6	323.4	159.8	111.6	111.1	92.3	82.7	79.4	79.0
50°	2215.6	1890.6	802.1	315.7	151.9	104.6	117.4	92.0	80.1	75.9	74.8
52.5°	2329.7	2021.0	847.5	301.9	140.5	98.1	112.1	92.0	77.1	72.9	71.5
55°	2502.3	2187.4	892.0	282.6	124.4	89.5	101.1	89.2	72.7	69.0	68.0
57.5°	2616.7	2309.0	920.5	255.8	104.4	83.2	87.1	84.8	68.3	64.3	64.3
60°	2622.6	2341.6	907.0	222.0	91.8	77.3	75.7	85.5	64.3	60.1	59.6
62.5°	2555.5	2261.7	836.6	191.7	85.0	71.1	68.5	75.0	60.3	56.1	55.4
65°	2450.6	2057.8	714.5	177.3	81.3	65.5	61.7	61.5	56.1	52.2	51.3
67.5°	2258.0	1798.3	587.1	168.9	79.4	59.2	55.7	54.5	51.3	48.0	47.5
70°	1974.0	1506.2	470.8	165.4	78.5	52.7	49.9	48.5	45.7	43.1	42.9
72.5°	1535.7	1221.7	388.6	163.1	78.0	46.6	43.6	41.7	40.1	37.7	37.7
75°	1103.1	898.8	296.6	147.0	72.2	40.1	36.8	35.6	33.3	31.5	31.9
77.5°	695.4	605.3	195.2	108.1	55.9	32.2	29.4	28.7	26.8	24.2	25.9
80°	469.7	425.6	113.9	68.0	35.2	23.5	22.6	22.4	20.3	17.5	17.7
82.5°	319.6	313.6	59.2	38.7	20.3	13.7	13.3	13.7	11.4	9.3	9.3
85°	124.9	170.5	28.0	15.1	6.5	2.1	3.0	3.3	1.9	0.9	1.2
87.5°	2.3	17.5	0.7	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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1135.0	1135.0	1135.0	1135.0	1135.0	1135.0	1135.0	1135.0	1135.0	1135.0	1135.0
2.5°	946.3	944.2	947.7	932.8	935.8	941.4	944.2	945.9	968.9	963.6	978.2
5°	738.3	736.2	749.7	751.6	758.6	757.2	763.9	765.5	773.9	777.0	797.5
7.5°	537.0	546.1	561.5	569.4	581.3	585.0	581.5	590.1	572.6	585.2	589.0
10°	431.5	420.5	414.0	432.2	434.5	451.7	444.7	439.2	449.4	449.9	459.7
12.5°	359.2	335.7	320.1	325.2	330.8	338.3	339.4	350.6	358.1	365.1	370.9
15°	281.7	273.5	259.3	252.3	260.2	263.3	270.5	279.8	287.7	289.8	297.7
17.5°	216.2	217.6	215.3	211.1	216.0	218.3	218.8	219.0	221.1	219.7	231.3
20°	174.0	178.9	184.7	185.7	187.3	188.5	186.4	178.5	178.7	183.6	187.3
22.5°	157.5	158.4	164.9	167.0	172.2	170.1	164.0	160.3	159.8	161.0	162.8
25°	144.4	145.8	150.5	153.8	157.7	154.0	149.6	146.1	145.6	146.8	148.6
27.5°	132.8	134.9	139.1	142.3	146.1	142.6	138.4	135.4	135.1	134.9	136.1
30°	123.5	125.8	128.8	132.6	135.1	132.1	128.1	126.5	126.3	125.8	126.3
32.5°	114.2	117.9	120.9	122.8	125.3	123.0	120.0	119.0	117.4	116.0	115.3
35°	103.7	107.6	112.3	114.6	117.2	114.9	112.8	108.8	106.0	105.8	106.2
37.5°	97.6	99.2	103.0	106.9	109.5	108.3	104.4	100.4	99.7	99.7	100.2
40°	92.3	93.0	94.6	99.7	104.4	100.9	96.0	94.8	94.8	94.6	94.8
42.5°	86.9	87.6	87.6	91.6	99.0	93.4	89.7	89.7	89.7	89.9	90.6
45°	82.0	82.2	82.0	84.8	91.8	87.1	84.6	85.3	85.7	86.2	86.7
47.5°	77.8	78.0	77.8	80.1	83.6	81.8	80.4	81.3	82.2	82.9	83.4
50°	74.1	73.9	74.3	75.7	77.3	77.8	76.9	78.3	78.7	79.7	80.8
52.5°	70.8	70.6	71.1	71.8	74.1	74.1	74.1	75.2	76.2	77.1	78.7
55°	67.1	67.3	68.0	69.0	72.0	71.5	71.8	72.7	73.6	75.0	75.9
57.5°	63.6	64.1	65.0	66.4	69.4	69.2	69.4	69.9	71.1	71.8	72.7
60°	59.6	60.6	61.7	62.7	65.7	65.5	66.6	67.6	68.3	68.3	68.7
62.5°	55.7	57.1	58.2	58.9	62.2	62.4	64.1	64.8	65.2	64.8	65.5
65°	51.7	53.8	54.3	55.2	58.5	58.7	60.6	62.2	61.7	61.3	62.4
67.5°	47.8	50.3	50.1	51.3	54.5	55.0	56.6	59.4	58.5	58.0	58.9
70°	43.3	45.2	45.4	46.1	50.6	49.9	52.4	55.0	54.3	54.5	54.5
72.5°	38.4	40.1	40.1	41.5	46.1	45.0	47.1	49.9	49.9	49.6	49.6
75°	32.6	33.5	34.5	36.6	41.5	40.1	41.5	44.0	44.5	44.0	44.0
77.5°	26.3	27.7	28.2	31.0	34.5	34.2	35.6	36.8	37.7	37.3	37.3
80°	18.6	20.0	21.9	24.9	27.0	27.7	28.4	29.4	29.8	29.8	30.3
82.5°	10.5	12.6	14.2	17.2	18.2	21.7	21.4	22.1	21.4	18.9	21.0
85°	2.3	4.4	6.3	7.9	9.1	12.6	13.3	14.9	12.3	11.4	11.4
87.5°	0.0	0.0	0.0	0.0	0.0	1.9	3.7	5.1	4.4	3.7	3.7
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°	1135.0	1135.0	1135.0	1135.0	1135.0	1135.0	1135.0	1135.0	1135.0	1135.0
2.5°	990.6	1010.9	1035.3	1077.5	1107.1	1139.0	1171.1	1205.4	1214.5	1223.8
5°	803.1	842.9	864.6	921.2	980.6	1056.1	1117.8	1185.4	1213.5	1220.1
7.5°	608.3	635.3	692.2	749.5	823.1	902.3	996.9	1102.2	1135.0	1148.8
10°	482.3	519.1	568.9	630.4	695.0	780.2	886.9	1009.9	1056.5	1064.2
12.5°	410.5	451.5	505.8	570.8	631.8	696.1	803.8	930.7	980.6	997.1
15°	328.3	377.9	440.5	509.0	575.4	645.8	754.8	898.1	955.6	975.0
17.5°	257.9	298.0	365.8	440.1	518.8	607.8	744.6	913.7	984.5	1002.5
20°	197.3	226.0	283.1	361.6	453.8	570.3	747.1	972.7	1057.5	1081.9
22.5°	170.5	185.2	219.9	294.7	397.9	537.7	757.6	1053.5	1155.8	1196.5
25°	154.5	162.1	181.7	230.6	344.6	506.0	781.6	1162.3	1293.2	1320.2
27.5°	140.7	146.3	158.4	193.6	296.1	476.7	809.6	1283.0	1421.6	1461.9
30°	127.7	135.1	146.5	171.9	265.1	449.9	844.8	1380.8	1529.7	1567.2
32.5°	117.7	125.1	135.6	156.8	238.8	421.7	865.7	1466.8	1618.0	1649.9
35°	109.5	115.8	126.7	144.7	218.8	400.2	861.5	1535.0	1703.5	1736.1
37.5°	103.7	109.0	120.0	133.3	203.6	377.9	859.4	1625.2	1807.6	1845.4
40°	98.3	103.9	113.9	125.8	188.5	351.6	860.6	1714.7	1918.5	1956.3
42.5°	94.1	100.4	108.6	123.7	172.9	330.4	860.6	1792.5	2015.0	2051.3
45°	90.6	97.4	105.3	123.5	160.5	314.3	854.8	1859.3	2091.8	2122.8
47.5°	87.6	95.1	106.5	119.3	157.5	302.6	849.6	1912.9	2154.5	2183.6
50°	85.5	94.4	113.2	114.4	158.4	299.1	874.3	1980.5	2209.7	2234.9
52.5°	83.9	94.6	113.0	107.2	156.8	301.5	925.8	2086.0	2286.4	2288.2
55°	80.6	94.4	107.2	99.0	150.0	305.4	992.0	2239.3	2406.4	2407.8
57.5°	77.3	91.8	99.5	92.0	136.3	305.4	1071.7	2384.5	2551.0	2552.2
60°	74.1	95.5	87.4	86.0	118.3	299.8	1155.8	2448.3	2596.5	2608.3
62.5°	70.8	96.2	78.0	80.6	105.3	286.3	1218.4	2377.7	2535.0	2552.0
65°	67.1	77.6	72.0	75.0	98.5	263.7	1198.6	2248.4	2419.4	2439.7
67.5°	62.7	65.7	65.5	69.2	96.2	230.4	1094.3	2084.9	2295.0	2293.8
70°	57.3	58.9	59.6	63.6	91.8	204.5	911.8	1872.6	2128.9	2155.0
72.5°	51.7	53.1	53.8	57.3	87.4	189.9	707.8	1580.2	1844.0	1884.7
75°	45.7	46.6	47.5	50.6	82.7	168.2	504.1	1206.3	1412.3	1476.3
77.5°	39.4	39.4	40.5	43.6	69.7	138.9	338.3	846.2	956.8	1022.3
80°	31.9	32.2	31.7	34.9	51.3	95.1	192.2	565.2	636.7	649.3
82.5°	24.5	23.8	24.0	25.6	38.2	64.8	102.5	351.1	357.8	350.9
85°	15.4	15.4	14.9	16.8	24.5	33.8	55.9	215.0	168.0	159.8
87.5°	6.3	5.1	5.8	6.8	11.6	13.7	21.9	44.3	17.0	15.6
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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