

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: P450407

Luminaire Tested: **GALN-SA1B-722-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450407  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1B-722-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2200K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3040 lumens  
Efficiency: N/A  
Efficacy: 69.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1

Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

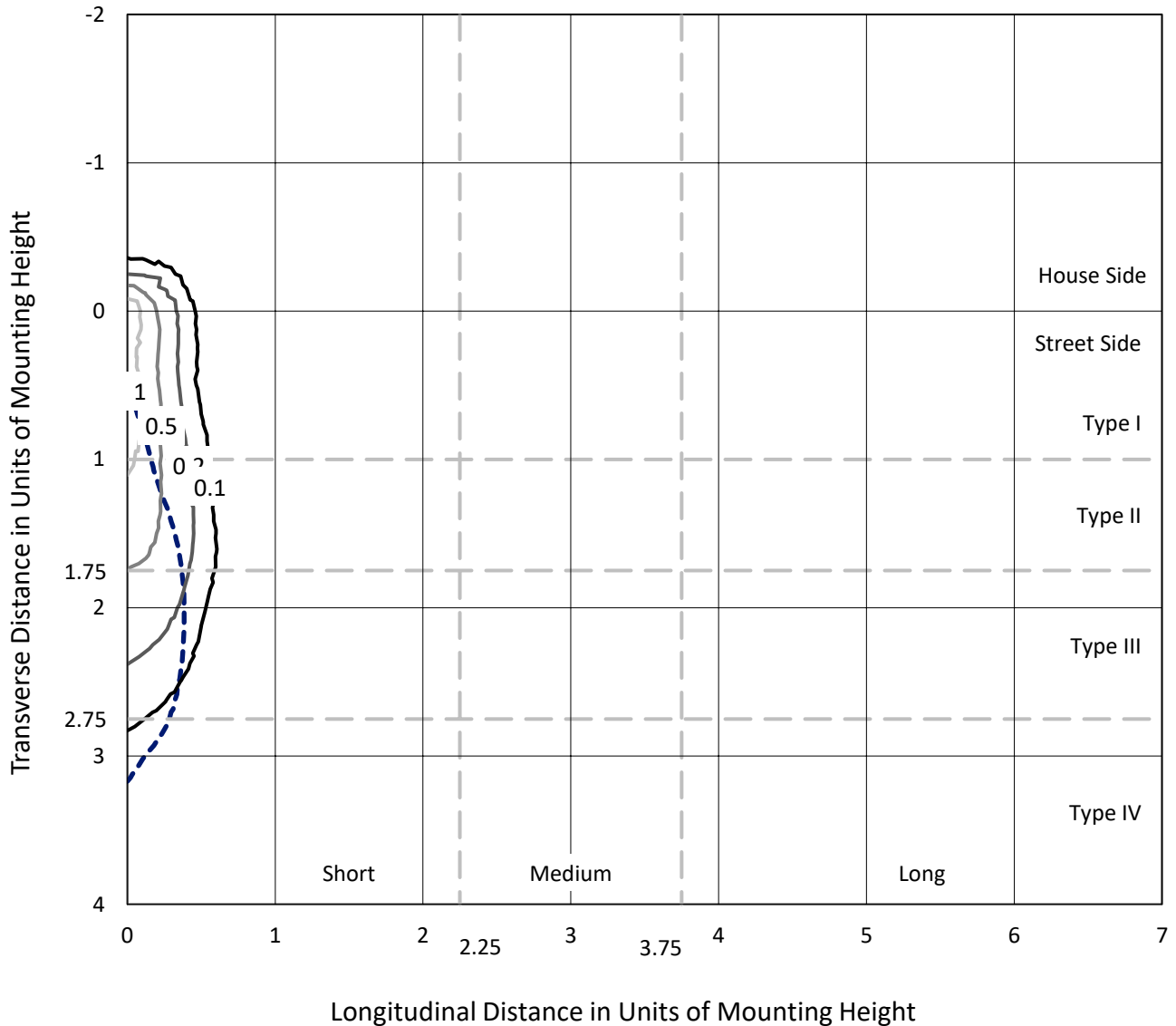




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### Iso-Footcandle Lines of Horizontal Illumination

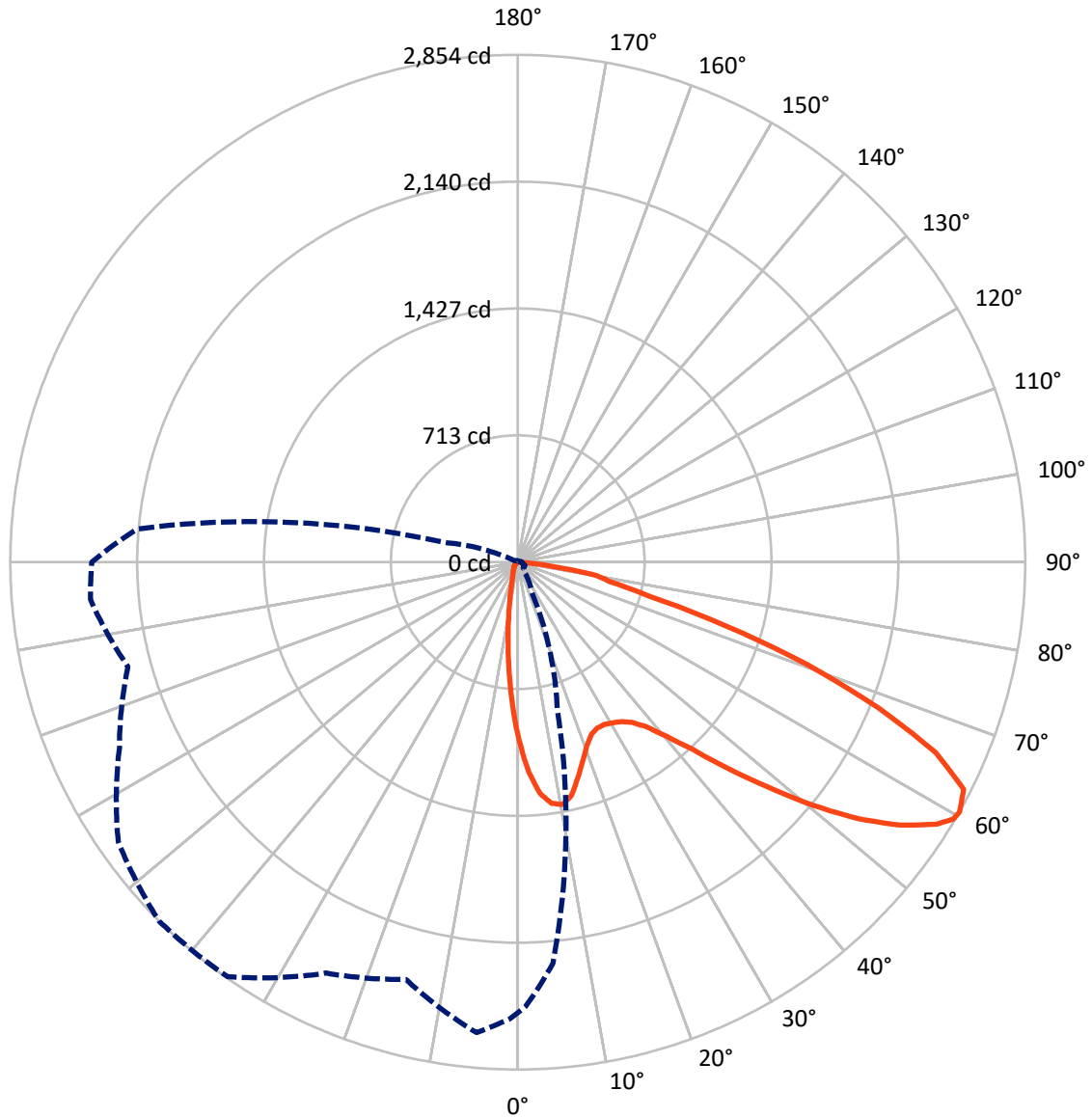
× Max cd  
 - - - 1/2 Max cd



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 60-Deg Vertical

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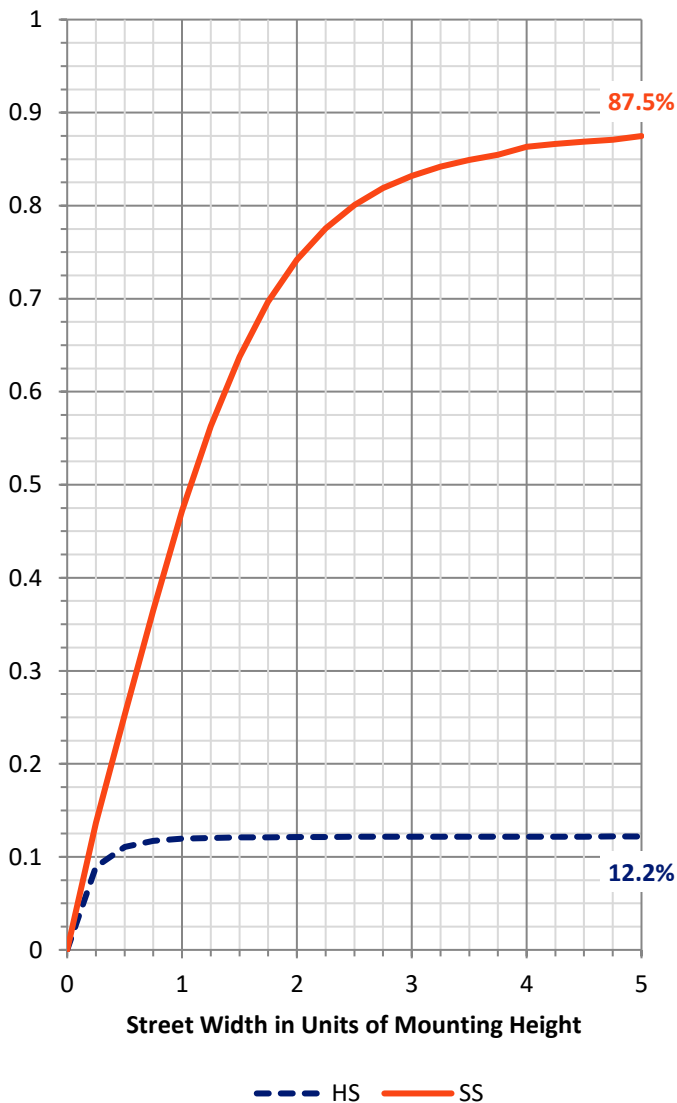
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	375.0	0.0	375.0
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	2665.0	0.0	2665.0
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	3040.0	0.0	3040.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.7	2.5
10°-20°	148.4	4.9
20°-30°	217.6	7.2
30°-40°	323.6	10.6
40°-50°	471.0	15.5
50°-60°	679.2	22.3
60°-70°	747.1	24.6
70°-80°	334.6	11.0
80°-90°	43.7	1.4
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°	3040.0	100.0
0°-180°	3040.0	100.0



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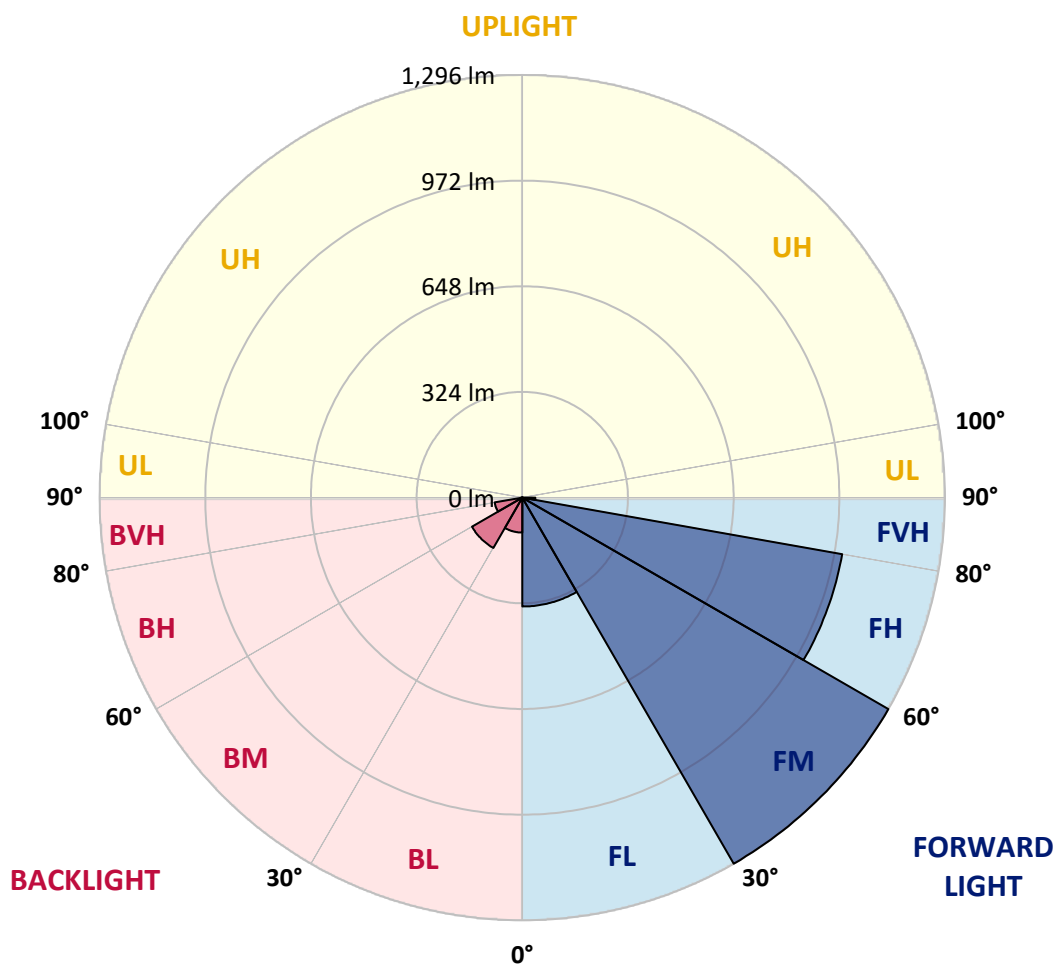
CATALOG NUMBER: GALN-SA1B-722-U-SLR-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	333.6	11.0			
FM	(30°-60°)	1295.7	42.6			
FH	(60°-80°)	995.7	32.8			G1/1800
FVH	(80°-90°)	40.0	1.3			G1/100
BL	(0°-30°)	107.1	3.5	B0/110		
BM	(30°-60°)	178.1	5.9	B0/220		
BH	(60°-80°)	86.0	2.8	B0/110		G0/110
BVH	(80°-90°)	3.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1004.8	1004.8	1004.8	1004.8	1004.8	1004.8	1004.8	1004.8	1004.8	1004.8	1004.8
2.5°	1104.6	1099.7	1088.6	1054.9	1025.6	987.2	948.4	917.9	899.2	864.7	849.0
5°	1070.2	1072.5	1040.4	971.0	893.8	841.2	783.6	737.9	687.5	655.6	622.1
7.5°	980.3	975.6	940.8	844.2	750.3	674.1	601.3	542.1	504.9	475.1	450.2
10°	903.3	899.9	855.3	730.9	630.2	573.1	523.9	472.1	432.1	388.5	353.6
12.5°	855.0	847.2	795.9	666.0	584.0	530.8	477.2	423.4	368.1	324.0	281.7
15°	838.8	827.5	770.4	643.6	554.4	486.9	419.7	357.7	294.2	245.4	213.5
17.5°	868.2	849.5	788.7	639.6	519.0	429.6	346.9	266.2	200.1	162.9	143.3
20°	935.4	913.9	834.9	635.7	479.7	365.3	263.7	188.1	138.4	118.1	107.2
22.5°	1035.3	1005.7	903.3	642.0	443.5	302.7	190.4	132.9	110.0	97.3	89.7
25°	1155.2	1130.5	990.0	664.1	414.8	253.5	147.2	108.6	92.7	84.8	79.0
27.5°	1286.7	1247.2	1102.1	690.7	388.7	215.4	129.2	97.1	82.5	75.3	72.3
30°	1380.3	1349.5	1195.9	709.2	356.1	186.7	118.1	95.7	82.7	74.2	68.6
32.5°	1472.7	1433.4	1274.4	717.8	332.3	166.8	102.1	83.4	72.6	68.2	62.6
35°	1571.6	1530.5	1352.8	713.1	314.5	153.7	92.7	74.4	62.2	54.8	49.2
37.5°	1671.7	1628.2	1430.7	696.5	303.4	148.4	85.3	70.7	58.7	51.1	45.1
40°	1790.5	1732.5	1503.7	682.9	291.9	145.6	80.4	68.4	56.2	48.1	42.1
42.5°	1887.5	1832.3	1572.8	675.7	284.0	139.1	80.4	66.6	54.5	45.5	39.3
45°	1979.5	1922.2	1647.4	681.5	280.8	131.0	81.3	66.3	53.4	43.7	37.4
47.5°	2056.4	2006.8	1724.1	703.2	276.6	122.2	76.5	69.6	52.7	42.1	35.6
50°	2147.3	2099.2	1825.6	747.1	269.2	113.5	70.5	74.9	52.5	40.7	34.0
52.5°	2275.3	2223.3	1965.6	797.0	257.4	100.1	64.9	74.2	51.5	38.4	32.4
55°	2431.7	2389.7	2127.8	856.9	241.3	85.0	56.2	65.9	48.8	34.4	29.6
57.5°	2532.0	2496.2	2249.4	882.7	216.5	69.6	49.5	55.2	44.6	30.7	26.3
59°	2543.8	2511.4	2274.8	874.2	200.4	63.5	46.2	47.4	43.4	28.7	24.5
60°	2533.9	2500.4	2264.6	857.6	185.3	59.4	43.4	42.1	43.7	27.5	23.1
62.5°	2470.1	2412.8	2166.0	773.2	162.0	54.5	38.6	34.4	38.6	24.7	20.6
65°	2346.9	2260.9	1970.7	654.4	152.7	51.8	32.8	28.9	29.3	21.7	17.8
67.5°	2131.8	2023.4	1710.7	531.7	148.8	52.0	27.7	25.9	22.6	18.5	15.7
70°	1791.6	1683.5	1372.7	437.4	147.0	52.0	23.6	22.2	18.9	15.5	13.6
72.5°	1269.6	1153.1	926.0	343.6	132.4	51.8	20.1	20.1	15.5	12.9	11.1
75°	717.3	718.2	582.1	243.1	110.0	42.8	16.2	15.9	11.3	9.9	8.3
77.5°	418.0	410.6	392.4	104.5	51.1	19.4	11.3	9.7	7.9	7.2	6.0
80°	214.9	176.8	172.2	37.9	18.3	12.2	7.9	5.5	5.1	4.6	4.2
82.5°	63.5	63.8	56.8	15.3	10.2	8.1	3.9	3.0	2.8	2.5	2.5
85°	4.4	2.8	3.2	4.6	6.2	3.2	0.2	0.7	0.7	0.9	1.2
87.5°	0.5	0.2	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°	1004.8	1004.8	1004.8	1004.8	1004.8	1004.8	1004.8	1004.8	1004.8	1004.8	1004.8
2.5°	831.7	841.8	822.9	823.4	807.6	812.7	794.2	800.3	789.4	797.7	822.2
5°	625.8	628.1	612.8	608.0	610.3	619.8	623.5	606.6	613.8	599.7	598.7
7.5°	440.9	443.7	434.9	433.7	450.4	446.5	453.6	436.3	419.9	427.0	413.9
10°	342.5	330.9	312.9	307.8	304.6	306.7	306.7	290.9	288.6	282.4	291.9
12.5°	270.4	256.3	239.2	216.1	210.3	209.8	201.3	187.4	183.0	177.7	185.6
15°	196.4	190.6	176.3	163.4	150.2	147.7	133.8	122.5	107.5	105.4	104.7
17.5°	138.2	129.6	129.4	122.0	114.4	109.3	96.4	83.4	77.6	77.0	77.0
20°	103.5	100.5	95.7	94.7	92.4	86.7	75.1	68.2	65.4	65.6	66.6
22.5°	87.1	85.0	80.6	78.6	77.6	72.6	64.0	59.4	58.0	58.0	58.2
25°	77.9	76.0	71.2	67.9	66.8	63.1	56.4	52.9	51.8	51.8	51.8
27.5°	70.9	68.6	63.5	60.8	58.7	54.5	50.4	46.9	45.8	45.8	46.0
30°	66.1	63.5	58.9	55.2	52.0	48.3	44.8	41.8	40.4	40.2	40.4
32.5°	59.6	57.3	52.7	50.4	46.7	42.3	39.5	36.7	35.4	35.6	35.4
35°	46.4	45.8	42.5	43.2	41.1	37.4	34.9	31.9	30.3	30.0	30.5
37.5°	42.3	39.5	35.8	36.0	35.4	34.0	29.8	26.6	25.4	25.4	25.7
40°	39.1	36.3	32.1	30.0	30.3	30.3	25.9	22.4	21.3	21.0	21.5
42.5°	36.3	33.5	28.9	25.4	24.5	25.7	22.0	18.5	17.3	16.9	17.3
45°	34.4	31.4	26.1	22.2	19.4	20.8	18.0	15.3	13.9	13.9	13.6
47.5°	32.6	29.8	24.0	19.2	16.2	15.5	14.8	12.2	10.9	10.6	10.9
50°	31.0	28.2	21.7	16.6	13.6	12.0	12.0	9.7	8.8	8.3	8.6
52.5°	29.3	26.3	19.6	14.8	11.8	9.7	8.6	7.9	7.2	6.9	7.2
55°	27.0	24.0	17.6	12.7	10.2	8.1	6.7	6.5	6.0	5.5	6.0
57.5°	24.3	21.5	15.5	10.9	8.1	6.2	5.5	5.3	4.9	4.6	4.6
59°	22.6	20.1	14.3	9.5	7.2	5.5	5.1	4.9	4.4	3.9	4.2
60°	21.7	19.6	13.6	8.8	6.5	5.1	4.6	4.4	3.9	3.7	3.9
62.5°	19.2	17.6	12.0	7.2	5.1	3.7	3.2	3.5	3.2	3.0	3.2
65°	16.9	15.5	10.2	5.5	3.9	2.5	2.3	3.0	2.8	2.5	2.8
67.5°	15.0	13.4	8.6	4.2	2.8	1.4	1.6	2.5	2.5	2.3	2.5
70°	12.9	11.6	6.9	3.0	1.4	0.7	1.2	1.8	2.3	2.1	2.3
72.5°	10.6	9.0	5.3	2.1	0.7	0.0	0.7	1.6	2.3	2.1	2.3
75°	8.3	6.7	3.9	1.2	0.0	0.0	0.2	1.4	2.3	2.1	2.3
77.5°	6.0	4.9	2.3	0.2	0.0	0.0	0.2	1.4	2.3	2.1	2.3
80°	3.9	3.5	0.9	0.0	0.0	0.0	0.2	1.4	2.3	2.3	2.5
82.5°	2.5	1.8	0.0	0.0	0.0	0.0	0.5	1.8	2.5	2.8	2.8
85°	1.2	0.0	0.0	0.0	0.0	0.0	0.9	2.3	3.0	3.0	3.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.5	1.6	2.8	3.5	3.5	3.5
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°	1004.8	1004.8	1004.8	1004.8	1004.8	1004.8	1004.8	1004.8	1004.8	1004.8	1004.8
2.5°	826.4	840.9	861.5	893.1	918.8	959.2	990.2	1032.5	1075.2	1088.2	1108.3
5°	608.2	626.9	673.6	716.1	742.9	828.4	882.5	967.8	1044.3	1081.0	1121.0
7.5°	422.4	444.6	480.2	539.6	596.0	665.5	752.9	850.4	962.5	1014.9	1071.3
10°	296.5	324.2	374.4	423.1	494.1	560.2	646.3	754.0	877.7	939.6	1010.3
12.5°	187.2	211.9	278.2	333.0	421.5	498.2	577.7	675.2	818.5	882.1	956.2
15°	107.0	127.8	158.8	229.0	327.2	428.7	527.8	641.0	788.2	866.6	946.8
17.5°	79.7	85.3	99.1	138.9	228.3	346.9	481.8	630.6	808.8	900.8	992.3
20°	67.0	70.7	77.2	92.9	145.6	267.1	437.0	632.5	875.4	990.9	1077.8
22.5°	60.1	62.4	67.7	77.9	99.4	194.6	384.5	643.3	956.0	1101.6	1201.9
25°	52.7	55.7	60.3	69.1	82.7	135.0	332.8	667.6	1069.0	1242.1	1336.4
27.5°	46.9	49.7	54.3	62.4	72.6	103.1	272.5	688.4	1188.2	1383.5	1460.7
30°	41.1	43.9	48.5	55.0	64.2	83.4	207.5	700.7	1304.0	1489.6	1549.0
32.5°	36.3	38.6	43.0	48.8	56.4	70.7	163.6	687.9	1392.5	1585.9	1625.7
35°	31.4	34.2	37.9	43.2	49.9	60.3	136.1	644.0	1468.6	1685.1	1699.4
37.5°	26.3	29.6	33.5	38.4	43.7	55.5	109.3	595.5	1549.9	1808.7	1785.1
40°	22.2	25.2	28.9	34.2	39.1	50.8	84.1	543.7	1637.7	1924.7	1878.7
42.5°	18.0	21.3	25.7	30.5	38.6	44.4	65.2	490.1	1716.5	2025.7	1963.3
45°	14.3	17.1	21.7	28.0	38.4	38.1	50.4	437.2	1775.9	2097.8	2026.4
47.5°	11.3	13.6	18.3	27.3	35.4	32.4	40.4	404.4	1838.3	2162.7	2074.7
50°	9.0	11.3	15.7	28.4	31.0	27.7	34.0	409.7	1898.6	2195.8	2094.6
52.5°	7.6	9.9	13.6	22.4	23.8	24.3	29.8	434.2	1976.5	2231.1	2134.1
55°	6.7	8.8	11.6	15.7	18.5	21.7	27.3	452.0	2080.7	2306.9	2221.2
57.5°	5.3	7.6	10.4	13.4	15.3	18.9	25.2	453.4	2175.0	2404.2	2337.0
59°	4.9	6.9	9.7	12.7	13.6	17.1	23.8	441.6	2178.5	2418.8	2390.1
60°	4.4	6.7	9.2	11.8	12.9	16.2	22.6	428.0	2147.0	2395.7	2412.1
62.5°	3.7	5.8	8.1	9.5	11.1	13.4	19.6	378.5	1994.7	2291.0	2371.4
65°	3.2	5.1	6.9	7.9	9.2	11.6	17.3	303.0	1826.5	2149.1	2254.9
67.5°	3.0	4.6	6.0	6.7	8.1	10.6	15.5	214.0	1608.6	1969.1	2080.0
70°	2.8	4.4	5.3	6.2	7.2	9.0	13.2	124.8	1239.1	1653.4	1770.6
72.5°	2.8	4.2	4.6	5.3	6.2	8.1	12.2	67.5	847.2	1261.3	1412.6
75°	2.8	3.9	4.2	4.6	5.5	7.4	10.9	35.4	547.7	876.3	1081.5
77.5°	2.8	3.7	4.2	4.4	5.3	6.5	9.5	22.2	364.9	613.8	730.9
80°	3.0	3.7	3.9	4.4	5.1	6.0	7.9	14.8	214.4	369.3	444.8
82.5°	3.2	3.7	4.2	4.6	5.3	5.8	6.9	9.2	98.9	244.3	276.4
85°	3.5	3.9	4.4	4.9	5.5	5.8	6.5	6.7	16.2	110.2	149.1
87.5°	3.7	4.2	4.6	5.1	6.0	6.0	6.0	6.0	5.5	11.8	30.0
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°	1004.8	1004.8	1004.8	1004.8	1004.8	1004.8	1004.8	1004.8	1004.8	1004.8
2.5°	1133.7	1159.8	1178.1	1182.7	1169.5	1163.5	1146.9	1121.0	1105.3	1104.6
5°	1194.7	1256.0	1298.5	1305.6	1280.2	1237.2	1186.2	1120.3	1081.7	1070.2
7.5°	1184.3	1291.5	1359.9	1369.9	1327.1	1245.1	1146.2	1040.1	998.1	980.3
10°	1141.6	1272.4	1370.1	1385.8	1328.7	1213.2	1087.5	969.2	917.0	903.3
12.5°	1105.1	1237.2	1324.1	1345.8	1302.6	1187.3	1052.4	923.7	867.7	855.0
15°	1089.1	1195.6	1248.8	1259.9	1252.7	1171.1	1048.7	916.7	852.7	838.8
17.5°	1105.1	1160.3	1167.0	1178.3	1194.3	1169.5	1084.3	954.4	885.3	868.2
20°	1146.9	1129.6	1101.8	1106.7	1143.2	1176.2	1147.6	1037.8	953.7	935.4
22.5°	1218.1	1121.9	1059.1	1054.9	1101.1	1198.6	1240.5	1150.8	1053.3	1035.3
25°	1305.4	1141.1	1043.4	1034.3	1084.7	1231.5	1341.5	1289.2	1182.7	1155.2
27.5°	1400.6	1180.9	1043.4	1034.6	1083.3	1260.6	1427.9	1411.7	1316.7	1286.7
30°	1452.8	1213.7	1058.4	1048.4	1100.4	1277.4	1474.1	1520.5	1417.5	1380.3
32.5°	1499.5	1259.2	1087.7	1069.0	1136.3	1302.4	1515.5	1613.0	1497.7	1472.7
35°	1542.5	1307.9	1128.2	1106.4	1183.4	1336.6	1561.2	1710.0	1609.3	1571.6
37.5°	1589.9	1364.6	1191.3	1172.8	1262.2	1403.2	1615.5	1837.6	1719.1	1671.7
40°	1641.4	1430.2	1295.0	1287.2	1387.4	1478.5	1684.2	1973.7	1844.3	1790.5
42.5°	1693.9	1505.8	1422.1	1435.0	1529.3	1584.1	1754.6	2078.4	1946.9	1887.5
45°	1741.5	1602.4	1587.3	1651.3	1694.8	1687.2	1806.9	2152.1	2036.3	1979.5
47.5°	1801.5	1743.1	1787.2	1885.9	1887.1	1799.2	1846.4	2212.4	2113.3	2056.4
50°	1868.8	1909.2	2045.3	2145.9	2118.8	1909.5	1892.6	2283.8	2192.8	2147.3
52.5°	1946.7	2095.3	2283.8	2395.4	2332.4	2029.6	1969.5	2361.0	2319.0	2275.3
55°	2037.3	2222.1	2521.6	2610.6	2547.0	2178.9	2086.5	2465.7	2461.5	2431.7
57.5°	2139.6	2356.2	2659.3	2779.7	2723.1	2354.1	2249.9	2564.4	2548.7	2532.0
59°	2220.5	2425.0	2720.1	2844.9	2810.7	2476.8	2359.6	2625.8	2568.8	2543.8
60°	2269.5	2471.7	2742.5	2853.7	2845.8	2549.8	2429.2	2655.9	2568.5	2533.9
62.5°	2414.9	2553.3	2734.0	2814.6	2845.4	2689.8	2633.2	2688.9	2520.9	2470.1
65°	2466.6	2526.2	2592.3	2582.4	2608.7	2682.7	2763.6	2652.6	2419.2	2346.9
67.5°	2365.9	2229.8	2253.1	2186.8	2173.8	2385.0	2710.6	2475.2	2220.3	2131.8
70°	1994.3	1708.2	1696.4	1726.9	1643.3	1931.0	2434.0	2133.4	1891.9	1791.6
72.5°	1569.8	1207.2	1107.8	1220.1	1217.6	1473.2	2022.0	1513.8	1278.1	1269.6
75°	1234.5	840.5	737.6	755.9	791.0	1066.5	1610.4	961.3	787.1	717.3
77.5°	828.7	595.5	555.5	533.1	571.0	684.7	1018.9	521.3	441.4	418.0
80°	477.7	432.6	491.3	446.0	466.3	431.4	506.8	239.2	198.5	214.9
82.5°	310.8	246.3	262.5	195.0	266.7	269.0	162.7	70.7	59.9	63.5
85°	194.3	115.5	64.9	46.2	92.0	169.2	50.8	4.4	5.1	4.4
87.5°	50.4	19.2	8.1	12.0	14.8	13.2	11.8	0.7	0.2	0.5
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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