

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: P450697

Luminaire Tested: **GALN-SA1C-730-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450697  
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-SA1C-730-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA 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: 4653 lumens  
Efficiency: N/A  
Efficacy: 81.6 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): 57  
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

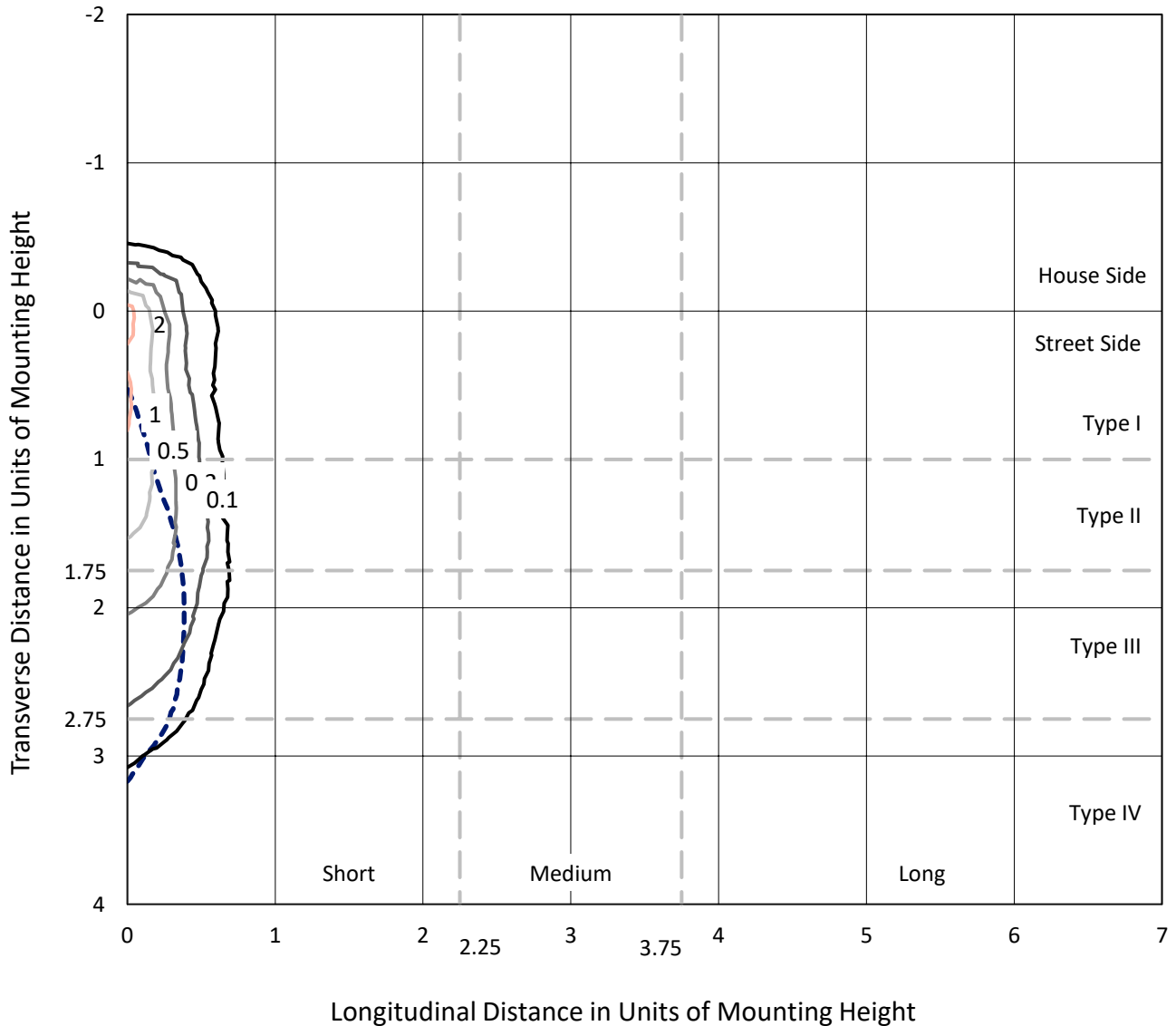




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### Iso-Footcandle Lines of Horizontal Illumination

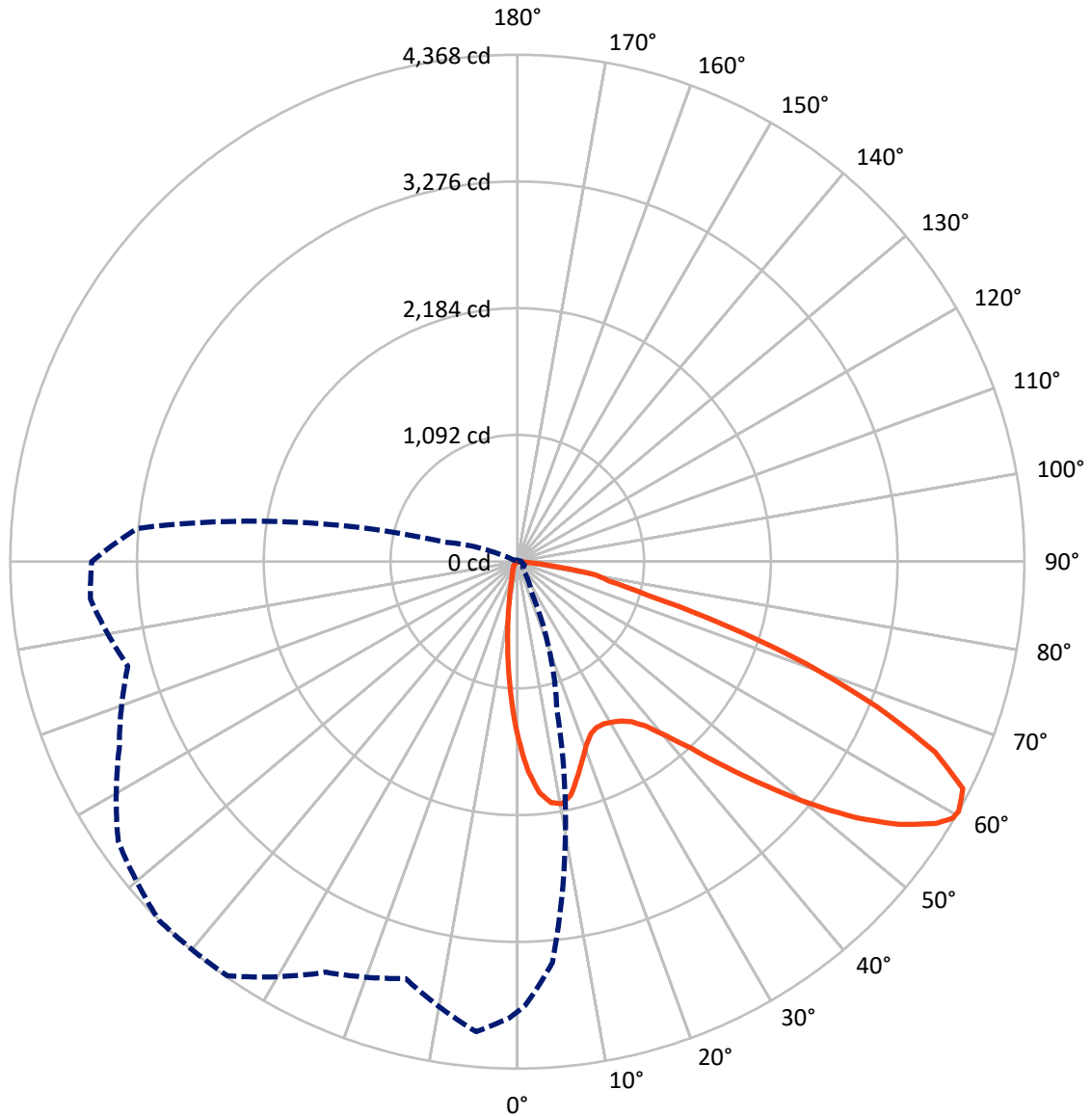
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	573.9	0.0	573.9
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	4079.1	0.0	4079.1
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	4653.0	0.0	4653.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.4	2.5
10°-20°	227.2	4.9
20°-30°	333.1	7.2
30°-40°	495.4	10.6
40°-50°	720.9	15.5
50°-60°	1039.6	22.3
60°-70°	1143.4	24.6
70°-80°	512.2	11.0
80°-90°	66.9	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°	4653.0	100.0
0°-180°	4653.0	100.0



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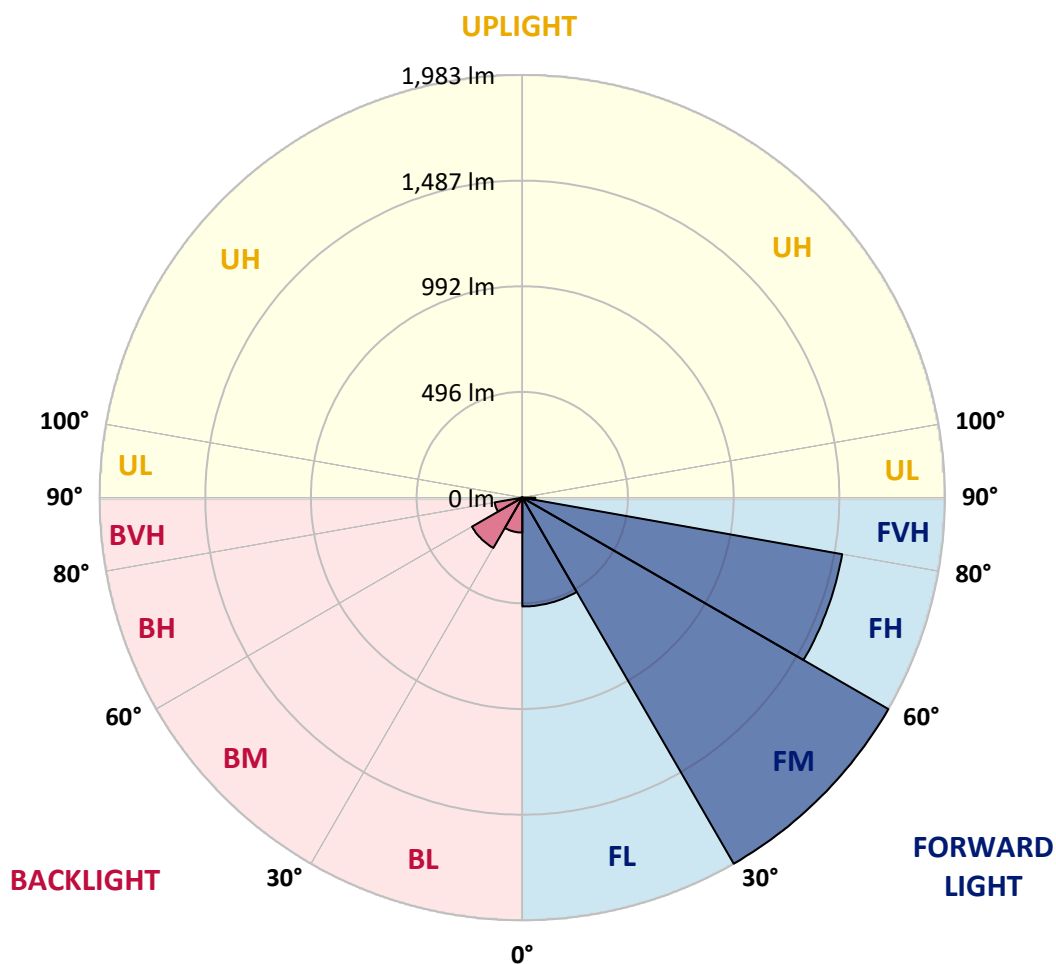
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	510.6	11.0			
FM (30°-60°)	1983.3	42.6			
FH (60°-80°)	1524.0	32.8			G1/1800
FVH (80°-90°)	61.2	1.3			G1/100
BL (0°-30°)	164.0	3.5	B1/500		
BM (30°-60°)	272.6	5.9	B1/1000		
BH (60°-80°)	131.6	2.8	B1/500		G1/500
BVH (80°-90°)	5.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	1537.9	1537.9	1537.9	1537.9	1537.9	1537.9	1537.9	1537.9	1537.9	1537.9	1537.9
2.5°	1690.7	1683.3	1666.3	1614.6	1569.7	1511.0	1451.6	1404.9	1376.2	1323.5	1299.5
5°	1638.0	1641.5	1592.4	1486.2	1368.1	1287.5	1199.4	1129.4	1052.3	1003.4	952.2
7.5°	1500.4	1493.3	1439.9	1292.1	1148.5	1031.7	920.3	829.8	772.8	727.2	689.0
10°	1382.6	1377.3	1309.0	1118.7	964.5	877.2	801.8	722.6	661.4	594.6	541.2
12.5°	1308.7	1296.7	1218.1	1019.4	893.8	812.4	730.4	648.0	563.4	495.9	431.2
15°	1283.9	1266.6	1179.2	985.1	848.5	745.2	642.3	547.5	450.3	375.6	326.8
17.5°	1328.8	1300.2	1207.2	979.0	794.4	657.5	530.9	407.5	306.3	249.4	219.3
20°	1431.8	1398.9	1277.9	973.0	734.3	559.2	403.6	287.9	211.9	180.7	164.1
22.5°	1584.6	1539.3	1382.6	982.6	678.7	463.3	291.4	203.4	168.4	148.9	137.2
25°	1768.1	1730.3	1515.2	1016.5	634.9	388.0	225.3	166.2	141.8	129.8	121.0
27.5°	1969.4	1908.9	1686.8	1057.2	594.9	329.6	197.7	148.6	126.3	115.3	110.7
30°	2112.6	2065.6	1830.4	1085.5	545.1	285.8	180.7	146.4	126.6	113.5	105.0
32.5°	2254.1	2194.0	1950.6	1098.6	508.6	255.4	156.3	127.7	111.1	104.3	95.9
35°	2405.5	2342.5	2070.6	1091.5	481.4	235.2	141.8	113.9	95.1	83.8	75.3
37.5°	2558.7	2492.2	2189.8	1066.0	464.4	227.1	130.5	108.2	89.8	78.2	69.0
40°	2740.5	2651.7	2301.5	1045.2	446.7	222.8	123.1	104.7	85.9	73.6	64.4
42.5°	2889.0	2804.5	2407.3	1034.2	434.7	212.9	123.1	101.9	83.5	69.7	60.1
45°	3029.8	2942.1	2521.5	1043.1	429.7	200.5	124.5	101.5	81.7	66.8	57.3
47.5°	3147.6	3071.5	2638.9	1076.3	423.4	187.1	117.1	106.5	80.6	64.4	54.5
50°	3286.6	3213.0	2794.2	1143.5	412.1	173.7	107.9	114.6	80.3	62.3	52.0
52.5°	3482.5	3402.9	3008.6	1219.9	394.0	153.2	99.4	113.5	78.9	58.7	49.5
55°	3722.0	3657.6	3256.9	1311.5	369.3	130.2	85.9	100.8	74.6	52.7	45.3
57.5°	3875.5	3820.7	3442.9	1351.1	331.4	106.5	75.7	84.5	68.3	47.0	40.3
59°	3893.5	3844.0	3481.8	1338.0	306.7	97.3	70.7	72.5	66.5	43.9	37.5
60°	3878.3	3827.0	3466.2	1312.6	283.7	90.9	66.5	64.4	66.8	42.1	35.4
62.5°	3780.7	3693.0	3315.2	1183.5	247.9	83.5	59.1	52.7	59.1	37.8	31.5
65°	3592.2	3460.6	3016.3	1001.7	233.8	79.2	50.2	44.2	44.9	33.2	27.2
67.5°	3262.9	3097.0	2618.4	813.9	227.8	79.6	42.4	39.6	34.7	28.3	24.1
70°	2742.2	2576.7	2101.0	669.6	225.0	79.6	36.1	34.0	29.0	23.7	20.9
72.5°	1943.2	1765.0	1417.3	526.0	202.7	79.2	30.8	30.8	23.7	19.8	17.0
75°	1097.9	1099.3	891.0	372.1	168.4	65.4	24.8	24.4	17.3	15.2	12.7
77.5°	639.8	628.5	600.6	159.9	78.2	29.7	17.3	14.9	12.0	11.0	9.2
80°	328.9	270.6	263.5	58.0	27.9	18.7	12.0	8.5	7.8	7.1	6.4
82.5°	97.3	97.6	87.0	23.3	15.6	12.4	6.0	4.6	4.2	3.9	3.9
85°	6.7	4.2	5.0	7.1	9.5	5.0	0.4	1.1	1.1	1.4	1.8
87.5°	0.7	0.4	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°	1537.9	1537.9	1537.9	1537.9	1537.9	1537.9	1537.9	1537.9	1537.9	1537.9	1537.9
2.5°	1273.0	1288.5	1259.5	1260.2	1236.2	1244.0	1215.7	1224.9	1208.2	1221.0	1258.5
5°	957.8	961.4	938.0	930.6	934.1	948.6	954.3	928.5	939.4	917.8	916.4
7.5°	674.9	679.1	665.7	663.9	689.4	683.3	694.3	667.8	642.7	653.6	633.5
10°	524.2	506.5	478.9	471.1	466.2	469.4	469.4	445.3	441.8	432.2	446.7
12.5°	413.8	392.3	366.1	330.7	321.9	321.2	308.1	286.8	280.1	272.0	284.0
15°	300.6	291.8	269.9	250.1	229.9	226.0	204.8	187.5	164.5	161.3	160.2
17.5°	211.5	198.4	198.1	186.8	175.1	167.3	147.5	127.7	118.8	117.8	117.8
20°	158.5	153.9	146.4	145.0	141.5	132.6	115.0	104.3	100.1	100.5	101.9
22.5°	133.3	130.2	123.4	120.3	118.8	111.1	98.0	90.9	88.8	88.8	89.1
25°	119.2	116.4	108.9	104.0	102.2	96.6	86.3	81.0	79.2	79.2	79.2
27.5°	108.6	105.0	97.3	93.0	89.8	83.5	77.1	71.8	70.0	70.0	70.4
30°	101.2	97.3	90.2	84.5	79.6	73.9	68.6	64.0	61.9	61.5	61.9
32.5°	91.3	87.7	80.6	77.1	71.4	64.7	60.5	56.2	54.1	54.5	54.1
35°	71.1	70.0	65.1	66.1	63.0	57.3	53.4	48.8	46.3	46.0	46.7
37.5°	64.7	60.5	54.8	55.2	54.1	52.0	45.6	40.7	38.9	38.9	39.3
40°	59.8	55.5	49.2	46.0	46.3	46.3	39.6	34.3	32.5	32.2	32.9
42.5°	55.5	51.3	44.2	38.9	37.5	39.3	33.6	28.3	26.5	25.8	26.5
45°	52.7	48.1	40.0	34.0	29.7	31.8	27.6	23.3	21.2	21.2	20.9
47.5°	49.9	45.6	36.8	29.4	24.8	23.7	22.6	18.7	16.6	16.3	16.6
50°	47.4	43.2	33.2	25.5	20.9	18.4	18.4	14.9	13.4	12.7	13.1
52.5°	44.9	40.3	30.1	22.6	18.0	14.9	13.1	12.0	11.0	10.6	11.0
55°	41.4	36.8	26.9	19.5	15.6	12.4	10.3	9.9	9.2	8.5	9.2
57.5°	37.1	32.9	23.7	16.6	12.4	9.5	8.5	8.1	7.4	7.1	7.1
59°	34.7	30.8	21.9	14.5	11.0	8.5	7.8	7.4	6.7	6.0	6.4
60°	33.2	30.1	20.9	13.4	9.9	7.8	7.1	6.7	6.0	5.7	6.0
62.5°	29.4	26.9	18.4	11.0	7.8	5.7	5.0	5.3	5.0	4.6	5.0
65°	25.8	23.7	15.6	8.5	6.0	3.9	3.5	4.6	4.2	3.9	4.2
67.5°	23.0	20.5	13.1	6.4	4.2	2.1	2.5	3.9	3.9	3.5	3.9
70°	19.8	17.7	10.6	4.6	2.1	1.1	1.8	2.8	3.5	3.2	3.5
72.5°	16.3	13.8	8.1	3.2	1.1	0.0	1.1	2.5	3.5	3.2	3.5
75°	12.7	10.3	6.0	1.8	0.0	0.0	0.4	2.1	3.5	3.2	3.5
77.5°	9.2	7.4	3.5	0.4	0.0	0.0	0.4	2.1	3.5	3.2	3.5
80°	6.0	5.3	1.4	0.0	0.0	0.0	0.4	2.1	3.5	3.5	3.9
82.5°	3.9	2.8	0.0	0.0	0.0	0.0	0.7	2.8	3.9	4.2	4.2
85°	1.8	0.0	0.0	0.0	0.0	0.0	1.4	3.5	4.6	4.6	4.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.7	2.5	4.2	5.3	5.3	5.3
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1537.9	1537.9	1537.9	1537.9	1537.9	1537.9	1537.9	1537.9	1537.9	1537.9	1537.9
2.5°	1264.8	1287.1	1318.6	1367.0	1406.3	1468.2	1515.6	1580.3	1645.8	1665.6	1696.3
5°	930.9	959.6	1031.0	1096.1	1137.1	1268.0	1350.8	1481.3	1598.4	1654.6	1715.8
7.5°	646.6	680.5	735.0	825.9	912.2	1018.7	1152.4	1301.6	1473.2	1553.4	1639.7
10°	453.8	496.2	573.0	647.6	756.2	857.4	989.3	1154.1	1343.3	1438.1	1546.4
12.5°	286.5	324.3	425.9	509.7	645.1	762.6	884.2	1033.5	1252.8	1350.1	1463.6
15°	163.8	195.6	243.0	350.5	500.8	656.1	807.8	981.2	1206.5	1326.4	1449.1
17.5°	122.0	130.5	151.7	212.6	349.5	530.9	737.5	965.2	1237.9	1378.7	1518.8
20°	102.6	108.2	118.1	142.2	222.8	408.9	668.8	968.1	1339.8	1516.7	1649.7
22.5°	92.0	95.5	103.6	119.2	152.1	297.8	588.6	984.7	1463.3	1686.1	1839.6
25°	80.6	85.2	92.3	105.8	126.6	206.6	509.3	1021.8	1636.2	1901.1	2045.4
27.5°	71.8	76.0	83.1	95.5	111.1	157.7	417.0	1053.7	1818.7	2117.6	2235.7
30°	63.0	67.2	74.3	84.2	98.3	127.7	317.6	1072.4	1995.9	2279.9	2370.8
32.5°	55.5	59.1	65.8	74.6	86.3	108.2	250.4	1053.0	2131.4	2427.4	2488.3
35°	48.1	52.3	58.0	66.1	76.4	92.3	208.3	985.8	2247.8	2579.2	2601.1
37.5°	40.3	45.3	51.3	58.7	66.8	84.9	167.3	911.5	2372.3	2768.4	2732.3
40°	34.0	38.6	44.2	52.3	59.8	77.8	128.7	832.3	2506.7	2946.0	2875.6
42.5°	27.6	32.5	39.3	46.7	59.1	67.9	99.7	750.2	2627.3	3100.5	3005.0
45°	21.9	26.2	33.2	42.8	58.7	58.4	77.1	669.2	2718.2	3210.9	3101.6
47.5°	17.3	20.9	27.9	41.7	54.1	49.5	61.9	619.0	2813.7	3310.3	3175.5
50°	13.8	17.3	24.1	43.5	47.4	42.4	52.0	627.1	2906.0	3360.8	3205.9
52.5°	11.7	15.2	20.9	34.3	36.4	37.1	45.6	664.6	3025.2	3415.0	3266.4
55°	10.3	13.4	17.7	24.1	28.3	33.2	41.7	691.8	3184.7	3531.0	3399.8
57.5°	8.1	11.7	15.9	20.5	23.3	29.0	38.6	694.0	3329.0	3679.9	3577.0
59°	7.4	10.6	14.9	19.5	20.9	26.2	36.4	675.9	3334.3	3702.2	3658.3
60°	6.7	10.3	14.1	18.0	19.8	24.8	34.7	655.1	3286.2	3666.8	3691.9
62.5°	5.7	8.8	12.4	14.5	17.0	20.5	30.1	579.4	3053.1	3506.6	3629.7
65°	5.0	7.8	10.6	12.0	14.1	17.7	26.5	463.7	2795.6	3289.4	3451.4
67.5°	4.6	7.1	9.2	10.3	12.4	16.3	23.7	327.5	2462.1	3013.9	3183.6
70°	4.2	6.7	8.1	9.5	11.0	13.8	20.2	191.0	1896.5	2530.7	2710.0
72.5°	4.2	6.4	7.1	8.1	9.5	12.4	18.7	103.3	1296.7	1930.5	2162.2
75°	4.2	6.0	6.4	7.1	8.5	11.3	16.6	54.1	838.3	1341.2	1655.3
77.5°	4.2	5.7	6.4	6.7	8.1	9.9	14.5	34.0	558.5	939.4	1118.7
80°	4.6	5.7	6.0	6.7	7.8	9.2	12.0	22.6	328.2	565.2	680.9
82.5°	5.0	5.7	6.4	7.1	8.1	8.8	10.6	14.1	151.4	373.9	423.0
85°	5.3	6.0	6.7	7.4	8.5	8.8	9.9	10.3	24.8	168.7	228.1
87.5°	5.7	6.4	7.1	7.8	9.2	9.2	9.2	9.2	8.5	18.0	46.0
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°	1537.9	1537.9	1537.9	1537.9	1537.9	1537.9	1537.9	1537.9	1537.9	1537.9
2.5°	1735.2	1775.2	1803.2	1810.2	1790.1	1780.9	1755.4	1715.8	1691.7	1690.7
5°	1828.6	1922.4	1987.4	1998.4	1959.5	1893.7	1815.5	1714.7	1655.7	1638.0
7.5°	1812.7	1976.8	2081.5	2096.7	2031.3	1905.7	1754.3	1592.0	1527.6	1500.4
10°	1747.3	1947.5	2097.1	2121.1	2033.8	1856.9	1664.5	1483.4	1403.5	1382.6
12.5°	1691.4	1893.7	2026.7	2059.9	1993.8	1817.3	1610.7	1413.7	1328.1	1308.7
15°	1667.0	1830.0	1911.4	1928.4	1917.4	1792.5	1605.1	1403.1	1305.1	1283.9
17.5°	1691.4	1775.9	1786.2	1803.5	1827.9	1790.1	1659.6	1460.8	1355.0	1328.8
20°	1755.4	1728.9	1686.4	1693.9	1749.7	1800.3	1756.5	1588.5	1459.7	1431.8
22.5°	1864.3	1717.2	1621.0	1614.6	1685.4	1834.6	1898.7	1761.4	1612.2	1584.6
25°	1998.0	1746.6	1597.0	1583.2	1660.3	1884.9	2053.2	1973.3	1810.2	1768.1
27.5°	2143.8	1807.4	1597.0	1583.5	1658.1	1929.4	2185.5	2160.7	2015.4	1969.4
30°	2223.7	1857.6	1619.9	1604.7	1684.3	1955.2	2256.2	2327.3	2169.6	2112.6
32.5°	2295.2	1927.3	1664.9	1636.2	1739.1	1993.4	2319.6	2468.8	2292.3	2254.1
35°	2360.9	2001.9	1726.8	1693.5	1811.3	2045.8	2389.6	2617.4	2463.2	2405.5
37.5°	2433.4	2088.6	1823.3	1795.0	1931.9	2147.7	2472.7	2812.6	2631.2	2558.7
40°	2512.3	2189.0	1982.1	1970.1	2123.6	2263.0	2577.8	3020.9	2822.9	2740.5
42.5°	2592.6	2304.7	2176.7	2196.5	2340.8	2424.6	2685.6	3181.2	2979.9	2889.0
45°	2665.5	2452.5	2429.6	2527.5	2594.0	2582.4	2765.6	3294.0	3116.8	3029.8
47.5°	2757.4	2668.0	2735.5	2886.5	2888.3	2753.9	2826.1	3386.3	3234.6	3147.6
50°	2860.4	2922.3	3130.6	3284.4	3243.1	2922.6	2896.8	3495.6	3356.2	3286.6
52.5°	2979.6	3207.0	3495.6	3666.4	3569.9	3106.5	3014.6	3613.7	3549.4	3482.5
55°	3118.2	3401.2	3859.6	3995.7	3898.5	3335.0	3193.5	3774.0	3767.6	3722.0
57.5°	3274.9	3606.3	4070.4	4254.6	4168.0	3603.1	3443.6	3925.0	3900.9	3875.5
59°	3398.7	3711.7	4163.4	4354.4	4302.0	3790.9	3611.6	4019.1	3931.7	3893.5
60°	3473.7	3783.2	4197.7	4367.8	4355.8	3902.7	3718.1	4065.1	3931.4	3878.3
62.5°	3696.2	3908.0	4184.6	4308.1	4355.1	4117.1	4030.4	4115.6	3858.5	3780.7
65°	3775.4	3866.6	3967.8	3952.6	3992.9	4106.1	4229.9	4060.1	3702.9	3592.2
67.5°	3621.2	3412.8	3448.6	3347.1	3327.2	3650.5	4148.9	3788.5	3398.3	3262.9
70°	3052.4	2614.5	2596.5	2643.2	2515.2	2955.5	3725.5	3265.3	2895.7	2742.2
72.5°	2402.7	1847.7	1695.6	1867.5	1863.6	2254.8	3094.9	2317.1	1956.3	1943.2
75°	1889.5	1286.4	1129.0	1156.9	1210.7	1632.3	2464.9	1471.4	1204.7	1097.9
77.5°	1268.4	911.5	850.3	816.0	874.0	1048.0	1559.5	797.9	675.6	639.8
80°	731.1	662.1	752.0	682.6	713.8	660.4	775.7	366.1	303.8	328.9
82.5°	475.7	377.0	401.8	298.5	408.2	411.7	249.0	108.2	91.6	97.3
85°	297.5	176.8	99.4	70.7	140.8	258.9	77.8	6.7	7.8	6.7
87.5°	77.1	29.4	12.4	18.4	22.6	20.2	18.0	1.1	0.4	0.7
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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