

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: P450466

Luminaire Tested: **GALN-SA1B-730-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450466  
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-730-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 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: 4520 lumens  
Efficiency: N/A  
Efficacy: 102.7 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

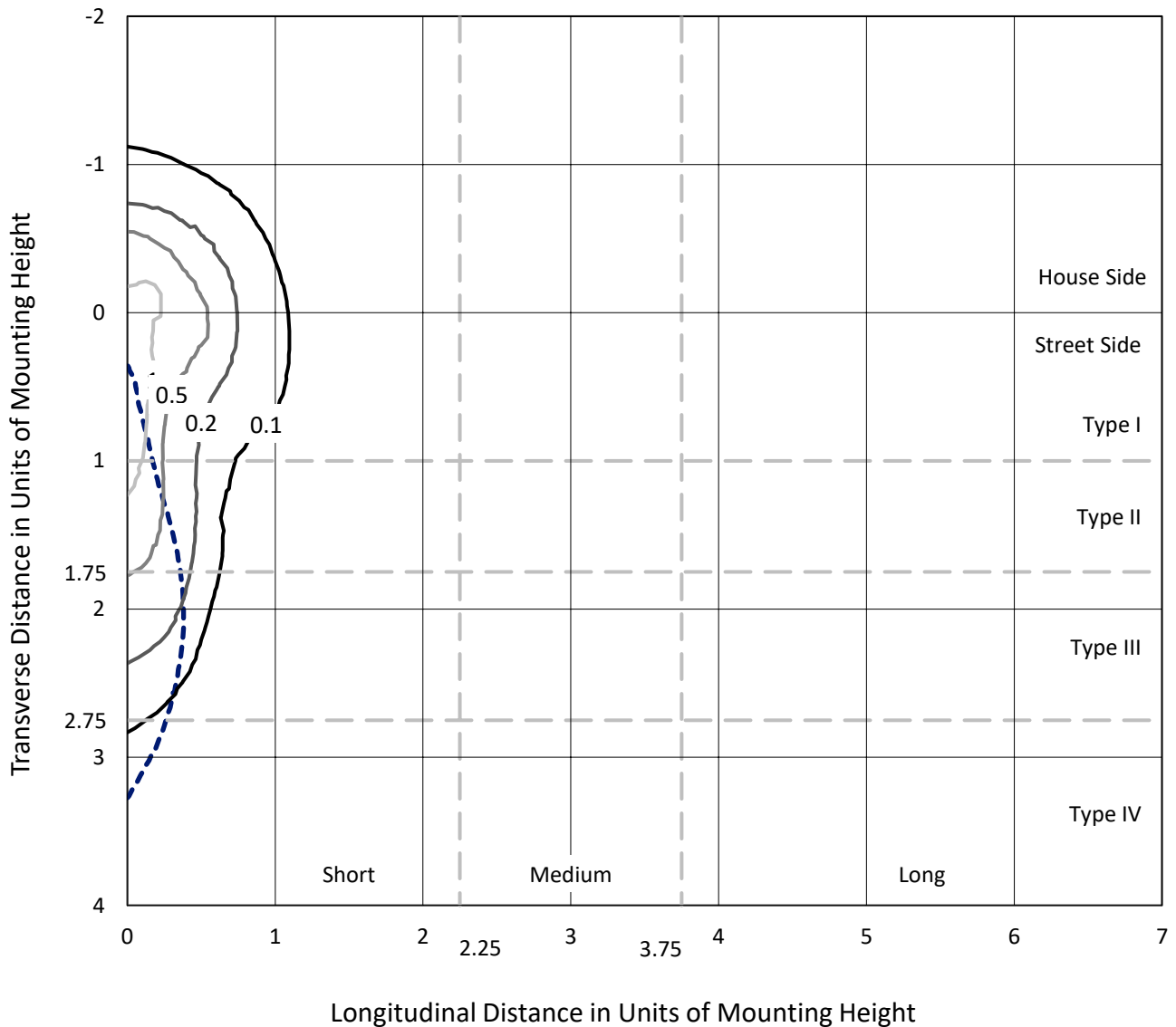
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

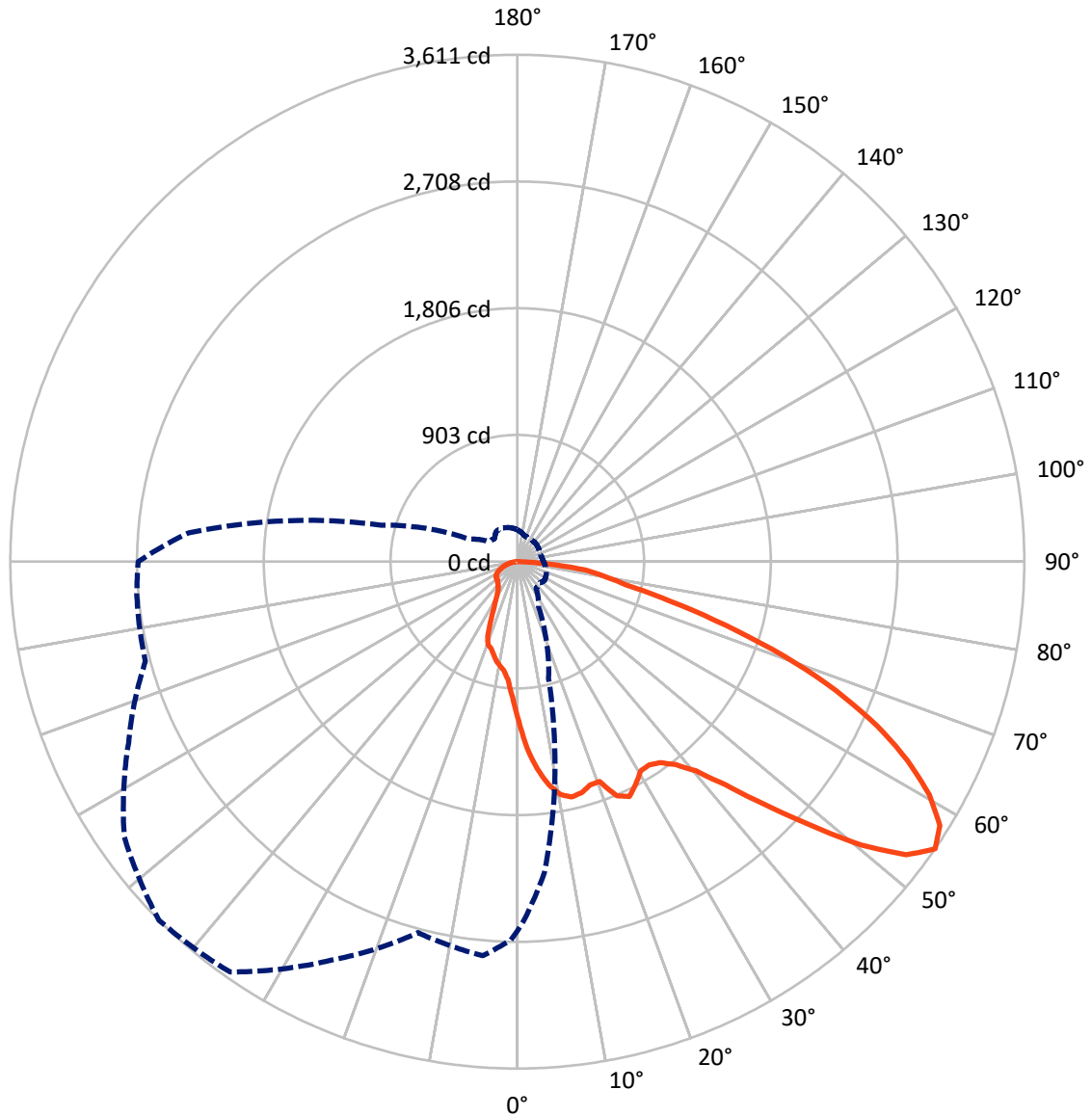
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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	988.7	0.0	988.7
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	3531.3	0.0	3531.3
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	4520.0	0.0	4520.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.1	2.1
10°-20°	255.1	5.6
20°-30°	440.6	9.7
30°-40°	512.1	11.3
40°-50°	714.4	15.8
50°-60°	969.4	21.4
60°-70°	922.3	20.4
70°-80°	498.2	11.0
80°-90°	111.7	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°	4520.0	100.0
0°-180°	4520.0	100.0

**Coefficient of Utilization**



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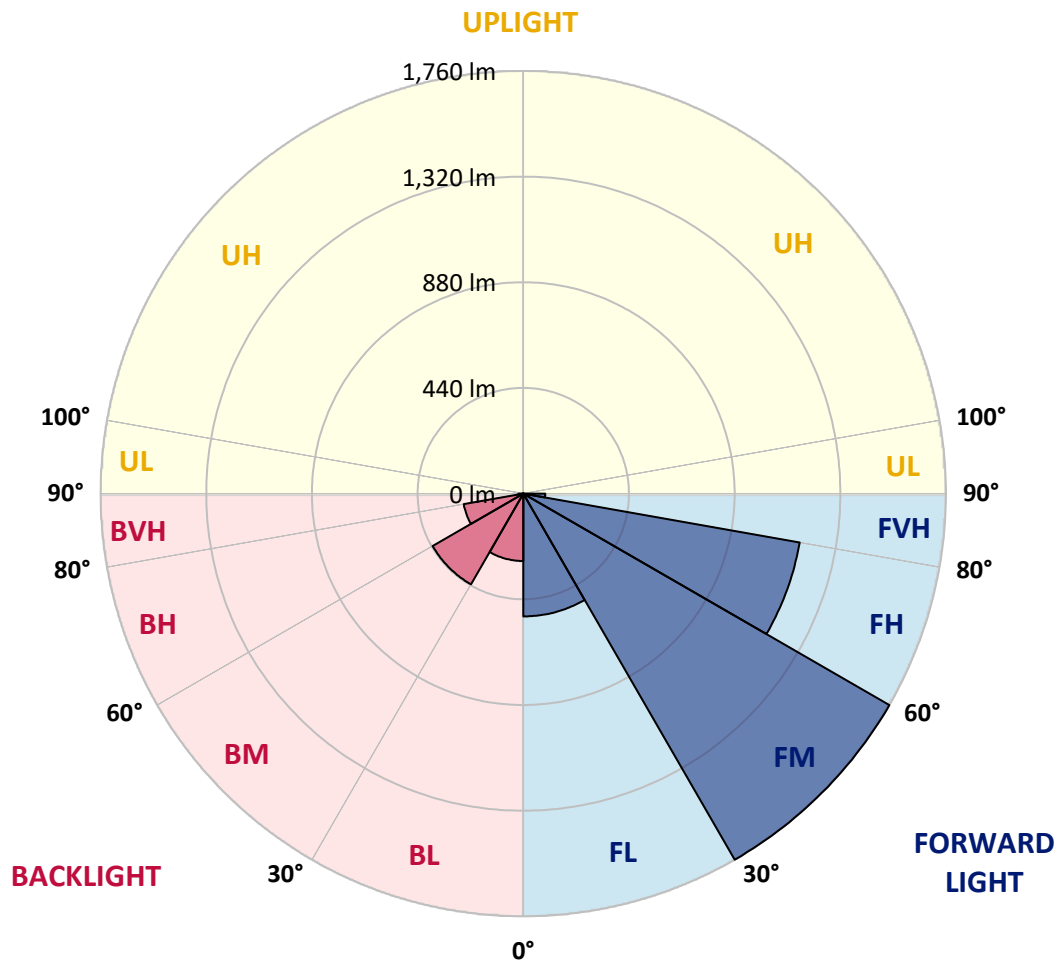
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	511.2	11.3			
FM	(30°-60°)	1760.0	38.9			
FH	(60°-80°)	1168.8	25.9			G1/1800
FVH	(80°-90°)	91.3	2.0			G1/100
BL	(0°-30°)	280.6	6.2	B1/500		
BM	(30°-60°)	436.0	9.6	B1/1000		
BH	(60°-80°)	251.8	5.6	B1/500		G1/500
BVH	(80°-90°)	20.4	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°	1134.3	1134.3	1134.3	1134.3	1134.3	1134.3	1134.3	1134.3	1134.3	1134.3	1134.3
2.5°	1260.2	1255.4	1242.0	1206.8	1171.3	1135.2	1107.5	1072.9	1036.8	1017.5	992.7
5°	1277.5	1272.1	1240.5	1161.2	1089.3	1013.9	953.6	900.9	879.4	847.8	822.4
7.5°	1236.9	1234.5	1187.1	1073.2	974.8	876.1	807.8	765.5	727.0	712.7	715.7
10°	1199.9	1190.4	1131.1	982.3	867.5	787.2	738.3	696.9	669.8	662.6	664.1
12.5°	1169.2	1156.4	1086.3	921.1	820.6	756.5	694.2	651.0	626.2	633.1	656.3
15°	1163.0	1145.7	1067.5	900.3	795.0	712.4	644.1	594.3	575.8	590.7	628.0
17.5°	1203.5	1181.8	1099.8	907.1	770.5	667.4	583.6	526.6	511.1	535.0	583.6
20°	1333.8	1301.6	1200.2	946.8	768.2	645.0	548.4	491.1	497.7	543.0	593.7
22.5°	1574.8	1526.5	1376.2	1004.6	780.7	639.3	541.2	511.4	547.5	586.0	619.4
25°	1622.5	1584.6	1407.8	1017.7	778.0	635.5	561.5	576.4	616.7	635.8	624.1
27.5°	1649.3	1606.1	1405.7	952.7	695.7	576.4	536.8	561.5	571.6	553.2	521.5
30°	1712.0	1666.9	1441.2	884.5	572.8	427.6	374.8	364.7	371.6	375.1	363.8
32.5°	1798.1	1753.7	1508.0	839.7	495.3	353.7	301.8	287.5	284.2	280.3	275.8
35°	1909.7	1841.4	1573.6	811.1	463.4	327.1	279.4	268.4	263.9	258.5	253.8
37.5°	2023.0	1951.4	1656.5	781.0	442.2	308.6	264.5	259.4	251.7	246.0	239.2
40°	2143.4	2063.2	1731.9	754.7	421.7	296.7	253.8	253.2	243.0	236.5	228.4
42.5°	2247.8	2165.2	1799.3	738.6	405.8	284.2	247.2	249.0	238.6	228.7	218.3
45°	2330.7	2249.6	1861.6	738.6	393.0	271.7	246.0	244.8	234.4	222.2	210.2
47.5°	2403.5	2319.7	1922.5	757.4	385.0	261.2	239.5	241.5	230.8	215.3	203.7
50°	2459.8	2385.9	2004.5	786.6	376.9	252.9	231.1	242.4	227.8	211.7	198.3
52.5°	2531.7	2465.5	2103.2	826.6	370.1	243.6	223.6	242.4	227.5	212.0	197.4
55°	2631.3	2561.5	2222.2	859.7	359.0	235.0	217.1	235.6	226.6	210.5	195.0
57.5°	2701.1	2648.9	2306.3	881.8	343.2	223.9	211.1	229.0	222.8	204.9	187.9
58°	2704.4	2653.4	2318.5	886.8	339.3	221.9	209.6	226.0	221.0	202.5	185.5
60°	2666.8	2622.9	2320.9	879.7	317.3	211.4	201.9	213.8	211.4	188.5	172.7
62.5°	2530.2	2483.4	2224.6	821.5	288.1	198.6	190.0	197.4	192.0	168.8	154.2
65°	2336.1	2249.9	2026.6	730.3	267.2	184.9	173.8	174.4	168.8	152.1	139.3
67.5°	2077.5	1981.2	1715.8	615.5	251.4	169.7	154.8	153.3	146.4	135.7	125.2
70°	1759.4	1693.5	1394.4	500.7	233.8	153.0	133.3	132.4	128.2	120.2	110.9
72.5°	1426.0	1342.2	1126.0	400.8	212.3	136.9	113.3	115.1	109.7	104.1	95.7
75°	1052.3	997.5	870.4	321.5	183.4	119.3	94.5	95.1	92.7	86.8	80.2
77.5°	693.0	676.6	622.6	211.1	141.0	94.8	77.2	77.8	76.0	70.7	63.8
80°	466.4	455.3	421.9	136.0	94.2	68.6	59.6	60.2	59.9	54.3	45.0
82.5°	287.5	282.7	272.0	91.8	65.3	49.2	39.4	41.2	44.4	38.2	30.7
85°	135.7	136.0	164.3	50.1	38.5	31.6	21.5	23.0	23.0	23.0	17.3
87.5°	17.6	18.5	22.7	21.2	14.0	11.9	7.8	6.6	5.7	7.5	5.4
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°	1134.3	1134.3	1134.3	1134.3	1134.3	1134.3	1134.3	1134.3	1134.3	1134.3	1134.3
2.5°	984.1	978.1	965.3	962.3	960.5	965.6	952.1	955.7	949.8	966.5	963.8
5°	823.9	824.5	835.0	841.8	844.2	841.8	832.9	817.4	805.4	800.7	801.9
7.5°	710.0	720.4	738.3	758.3	776.5	781.9	776.8	747.3	715.1	694.8	688.2
10°	672.1	686.2	706.7	722.5	738.6	751.5	754.1	731.2	693.0	645.0	626.2
12.5°	674.2	693.3	713.0	718.1	716.6	721.6	719.3	715.4	690.3	629.2	597.9
15°	654.5	677.2	690.9	688.2	683.5	679.0	672.7	662.9	653.9	611.0	576.4
17.5°	609.2	632.5	643.8	644.7	644.7	643.5	628.3	624.7	623.5	602.7	581.5
20°	617.6	630.4	625.3	617.0	619.4	627.4	618.5	616.7	623.5	632.8	628.9
22.5°	622.3	617.9	579.7	542.7	534.4	559.4	564.5	584.5	612.2	645.6	667.4
25°	592.8	556.7	488.4	446.7	423.1	446.4	476.8	513.8	555.2	598.2	623.5
27.5°	495.6	468.2	419.3	381.7	361.1	364.7	390.6	424.3	462.8	491.7	510.2
30°	373.3	361.1	335.8	322.9	310.4	307.4	318.5	331.3	348.3	351.9	356.6
32.5°	274.9	273.1	274.6	270.5	268.1	267.8	264.5	267.5	269.3	271.4	267.2
35°	248.7	246.3	242.1	240.9	239.5	240.0	238.6	237.1	238.3	240.0	241.2
37.5°	235.3	231.7	225.7	223.6	223.6	224.5	222.2	221.6	223.6	229.3	232.3
40°	224.8	220.7	213.8	211.1	212.9	215.3	212.0	210.8	215.9	221.9	226.6
42.5°	215.0	211.7	205.2	202.2	203.7	208.1	203.4	202.5	209.0	215.6	221.3
45°	206.7	203.4	197.4	195.9	196.5	200.7	197.4	197.4	203.7	210.8	215.9
47.5°	200.1	195.9	192.0	190.8	191.4	193.8	193.2	193.2	199.2	206.7	211.7
50°	193.5	190.0	184.9	185.5	187.0	190.3	190.0	190.8	196.8	206.1	211.4
52.5°	190.5	185.2	179.5	180.1	184.6	188.5	187.3	188.2	195.0	212.3	220.1
55°	187.3	180.1	173.6	174.4	179.5	185.2	183.7	184.9	192.9	216.5	227.2
57.5°	181.0	172.7	165.5	166.1	173.6	179.5	177.1	178.6	188.2	212.0	223.3
58°	178.3	171.2	164.3	164.6	171.8	178.3	175.6	176.8	186.7	210.8	221.6
60°	167.0	162.8	156.9	157.2	164.0	169.7	168.2	169.4	178.9	202.2	210.2
62.5°	151.5	149.1	147.6	147.6	151.8	157.2	158.6	160.1	168.8	182.8	190.0
65°	134.8	134.8	135.1	135.1	137.8	144.6	145.5	149.4	157.4	164.3	169.7
67.5°	123.5	122.9	123.5	122.0	123.2	127.3	131.8	135.4	143.7	148.5	150.3
70°	108.8	108.5	108.8	106.8	108.2	111.8	114.8	120.8	129.4	133.0	133.9
72.5°	94.5	94.5	95.1	93.6	93.6	97.5	99.6	106.2	114.2	116.3	116.6
75°	79.6	80.5	80.5	78.4	79.0	81.4	84.1	89.5	96.9	98.4	98.4
77.5°	63.2	66.5	66.5	64.4	65.3	65.6	69.2	71.9	77.5	78.1	75.7
80°	45.9	49.2	51.9	50.1	51.6	49.8	51.9	53.7	59.3	56.7	52.8
82.5°	32.8	35.2	37.3	37.6	36.1	32.8	35.5	35.8	38.5	34.9	32.8
85°	18.2	20.3	23.0	21.8	19.4	17.3	18.2	18.8	18.5	17.6	16.4
87.5°	4.8	5.1	5.7	4.2	3.9	3.3	4.5	4.5	5.1	5.4	5.1
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°	1134.3	1134.3	1134.3	1134.3	1134.3	1134.3	1134.3	1134.3	1134.3	1134.3	1134.3
2.5°	965.9	979.0	1007.3	1028.8	1055.0	1086.9	1124.5	1162.4	1203.2	1216.0	1233.9
5°	799.2	832.0	845.7	884.8	923.5	981.7	1043.7	1115.6	1194.3	1232.2	1268.5
7.5°	682.9	700.5	714.8	743.4	789.9	860.6	938.4	1028.2	1139.7	1194.9	1248.3
10°	620.3	622.0	639.6	675.1	715.7	778.0	851.7	952.1	1076.5	1143.6	1206.2
12.5°	578.8	571.0	590.1	627.1	673.0	730.6	798.3	894.0	1030.9	1099.8	1175.5
15°	542.4	530.2	544.5	582.4	627.7	695.4	768.2	869.5	1013.0	1093.2	1177.3
17.5°	543.3	509.6	514.7	546.6	591.6	660.5	748.8	868.6	1040.1	1132.6	1232.2
20°	610.4	556.4	533.5	539.4	583.0	658.1	757.7	910.4	1129.3	1264.1	1370.5
22.5°	676.3	643.8	606.8	594.6	618.5	697.2	814.7	1009.1	1323.1	1526.2	1718.5
25°	653.4	681.1	671.8	654.5	659.9	725.2	853.4	1090.2	1473.7	1702.4	1883.1
27.5°	522.7	573.1	583.3	583.0	585.1	638.7	767.6	1035.6	1492.5	1736.1	1908.8
30°	367.4	371.9	377.2	387.7	397.2	445.2	600.6	909.2	1484.1	1751.3	1924.3
32.5°	265.1	271.1	278.5	292.8	315.5	376.6	525.4	868.9	1528.3	1814.2	1969.6
35°	242.4	249.3	256.4	272.9	294.3	351.0	495.6	852.2	1600.7	1916.2	2051.0
37.5°	235.3	243.0	249.3	261.2	278.5	332.5	468.5	840.9	1675.0	2024.2	2160.1
40°	230.2	239.2	244.2	253.8	265.7	315.5	444.3	832.0	1746.8	2122.9	2247.8
42.5°	225.7	235.0	241.5	248.4	258.2	300.3	422.8	823.0	1809.2	2218.6	2335.2
45°	220.4	232.0	240.3	245.7	254.4	287.5	406.4	815.9	1880.1	2303.6	2423.5
47.5°	215.9	228.7	239.2	245.4	248.7	278.5	393.3	825.7	1965.4	2392.4	2505.5
50°	216.2	228.4	241.5	251.4	242.7	271.1	385.3	864.8	2076.3	2498.0	2570.2
52.5°	225.7	240.6	251.1	253.5	234.4	262.1	381.1	933.1	2207.6	2591.3	2635.5
55°	236.5	252.0	263.3	261.8	229.9	250.8	380.2	1005.8	2351.3	2700.2	2720.5
57.5°	232.6	255.3	272.6	264.8	230.2	239.8	376.3	1064.6	2471.5	2781.6	2804.5
58°	231.4	254.1	273.7	264.2	229.3	236.5	375.4	1069.6	2488.2	2787.3	2816.5
60°	219.8	243.6	272.9	259.7	224.2	227.5	365.6	1086.0	2483.7	2758.0	2823.6
62.5°	198.6	218.3	252.3	238.0	208.7	215.6	343.5	1065.8	2362.6	2617.3	2719.0
65°	174.7	189.4	212.0	209.3	186.7	203.4	313.4	985.5	2120.2	2388.9	2495.9
67.5°	156.9	168.8	183.1	179.2	167.9	187.0	280.9	849.9	1848.2	2114.5	2249.3
70°	138.7	147.9	155.1	152.4	148.8	170.9	252.0	689.7	1587.6	1853.9	1984.5
72.5°	120.2	128.8	134.8	130.9	128.8	153.9	228.4	535.3	1253.9	1529.5	1697.3
75°	100.5	109.1	113.3	108.8	107.6	135.7	193.5	399.9	940.8	1179.1	1324.0
77.5°	77.8	87.1	92.4	91.0	91.5	111.5	156.3	273.7	672.7	803.6	956.3
80°	54.6	64.7	68.3	66.8	71.0	85.0	110.3	173.8	464.0	521.5	629.2
82.5°	33.7	43.2	43.8	45.3	48.3	62.9	83.2	105.9	291.3	301.2	379.3
85°	17.0	20.6	22.1	24.5	27.1	38.5	47.4	65.6	187.6	141.9	212.0
87.5°	5.7	6.0	7.2	8.9	11.0	15.8	20.3	26.8	46.5	25.6	65.6
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°	1134.3	1134.3	1134.3	1134.3	1134.3	1134.3	1134.3	1134.3	1134.3	1134.3
2.5°	1270.0	1295.4	1313.9	1330.9	1314.5	1313.0	1296.9	1270.9	1260.2	1260.2
5°	1344.9	1404.2	1452.2	1482.9	1469.8	1438.2	1386.0	1319.5	1283.7	1277.5
7.5°	1365.4	1482.6	1571.8	1603.4	1581.3	1511.6	1411.7	1299.5	1248.3	1236.9
10°	1352.9	1505.3	1636.2	1686.3	1655.6	1550.0	1413.8	1276.3	1213.1	1199.9
12.5°	1339.8	1508.3	1648.1	1720.6	1700.6	1581.0	1429.0	1261.1	1188.0	1169.2
15°	1349.3	1509.5	1633.5	1708.4	1721.2	1618.3	1454.0	1272.1	1182.9	1163.0
17.5°	1409.6	1532.1	1612.7	1673.2	1718.2	1669.0	1525.3	1324.9	1228.3	1203.5
20°	1535.4	1586.4	1624.6	1671.4	1743.9	1772.5	1671.1	1469.8	1355.6	1333.8
22.5°	1899.8	1890.6	1812.4	1811.6	1916.5	2031.3	2024.5	1764.4	1592.7	1574.8
25°	2036.4	1993.5	1880.4	1853.0	1899.2	2076.3	2050.7	1824.7	1666.0	1622.5
27.5°	1983.0	1876.6	1802.3	1796.0	1780.8	1948.1	2009.9	1849.1	1691.7	1649.3
30°	1979.7	1823.2	1717.0	1729.5	1744.2	1904.0	2032.5	1925.8	1757.3	1712.0
32.5°	1987.8	1830.6	1723.3	1725.7	1769.2	1910.6	2057.6	2009.3	1843.5	1798.1
35°	2020.3	1873.0	1763.2	1757.6	1825.6	1953.5	2100.2	2140.5	1961.2	1909.7
37.5°	2072.8	1957.4	1836.3	1834.8	1933.5	2031.0	2153.3	2272.9	2078.4	2023.0
40°	2150.0	2056.1	1966.3	1958.3	2080.2	2157.2	2222.2	2413.9	2214.7	2143.4
42.5°	2243.3	2174.5	2137.8	2169.7	2286.9	2298.8	2329.5	2544.2	2330.7	2247.8
45°	2329.8	2326.5	2377.5	2462.2	2530.5	2458.9	2441.6	2631.6	2420.8	2330.7
47.5°	2432.7	2521.6	2675.4	2799.5	2871.0	2645.3	2537.4	2688.5	2486.4	2403.5
50°	2537.1	2755.0	3000.8	3173.7	3188.9	2847.8	2603.3	2742.2	2546.0	2459.8
52.5°	2646.8	2941.4	3268.5	3469.5	3440.0	3024.0	2667.1	2778.6	2607.4	2531.7
55°	2742.2	3055.6	3418.2	3611.2	3567.9	3131.4	2736.0	2818.0	2695.1	2631.3
57.5°	2795.6	3065.2	3381.0	3549.4	3502.6	3110.5	2767.6	2847.2	2751.2	2701.1
58°	2803.4	3052.4	3347.9	3513.7	3465.9	3092.9	2767.3	2846.0	2754.7	2704.4
60°	2796.5	2969.2	3224.7	3372.3	3322.2	2982.6	2755.9	2823.6	2709.4	2666.8
62.5°	2733.0	2824.8	3012.1	3119.4	3105.1	2810.2	2709.4	2739.2	2571.4	2530.2
65°	2649.5	2628.0	2739.8	2815.9	2826.6	2681.1	2663.2	2556.7	2394.2	2336.1
67.5°	2548.1	2405.0	2404.7	2447.9	2465.8	2482.5	2566.9	2358.4	2139.0	2077.5
70°	2376.0	2061.1	1966.3	2017.3	2002.4	2143.4	2394.8	2079.9	1831.2	1759.4
72.5°	2060.5	1635.6	1483.8	1549.4	1511.9	1680.9	2095.4	1711.7	1514.2	1426.0
75°	1670.2	1223.5	1067.0	1127.2	1103.9	1275.1	1743.6	1243.2	1086.0	1052.3
77.5°	1296.9	886.5	795.6	787.2	804.5	948.9	1279.0	839.4	716.0	693.0
80°	833.2	634.6	639.9	629.2	638.1	598.2	776.5	535.6	484.9	466.4
82.5°	548.4	442.2	527.2	486.7	462.2	402.3	509.3	350.7	297.6	287.5
85°	373.6	325.6	296.4	226.6	266.9	309.8	382.0	188.8	149.7	135.7
87.5°	168.8	113.3	83.2	51.3	81.1	93.6	185.5	22.1	17.0	17.6
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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