

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: P450493

Luminaire Tested: **GALN-SA1B-740-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450493  
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-SA1B-740-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4963 lumens  
Efficiency: N/A  
Efficacy: 112.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

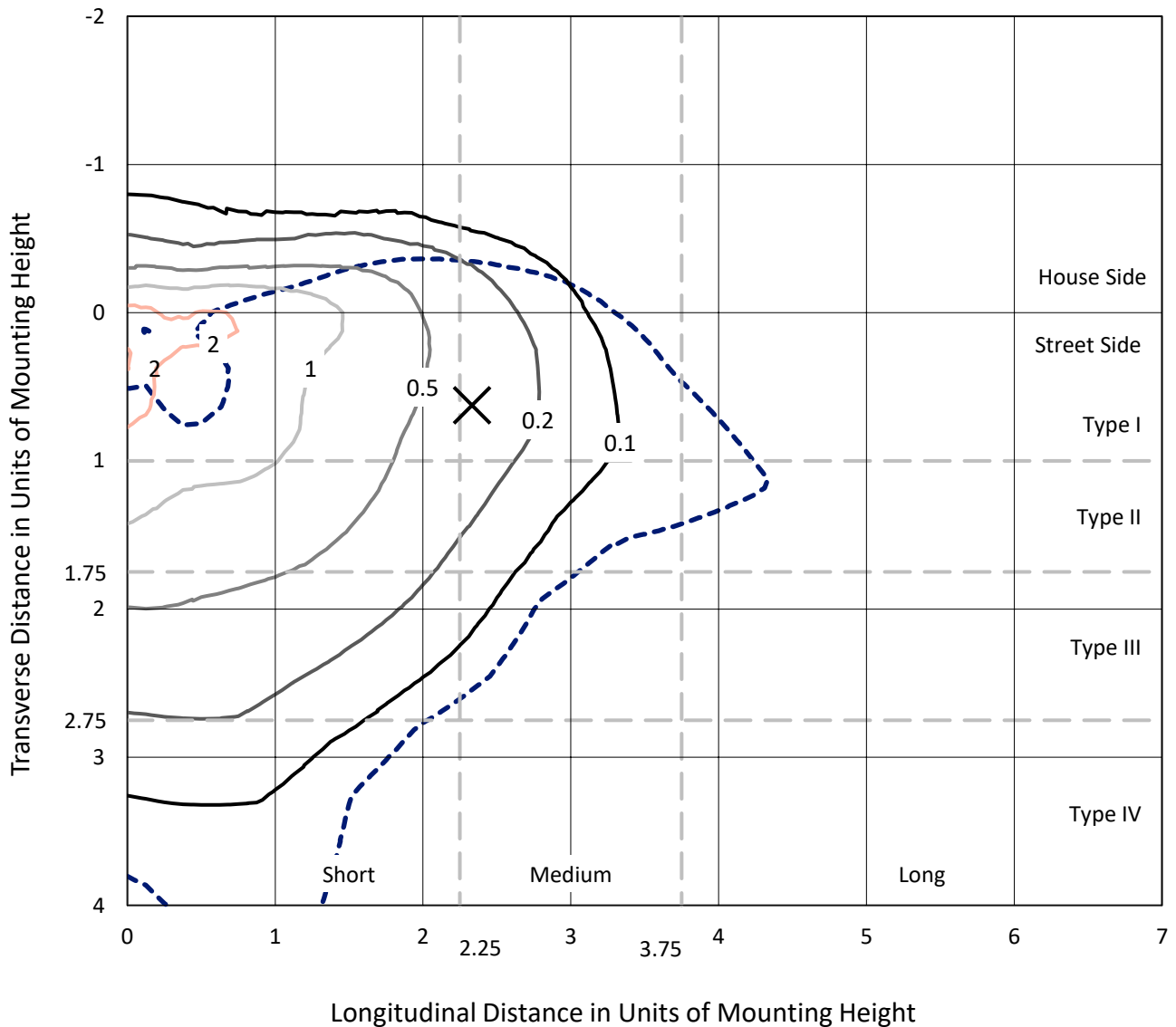
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

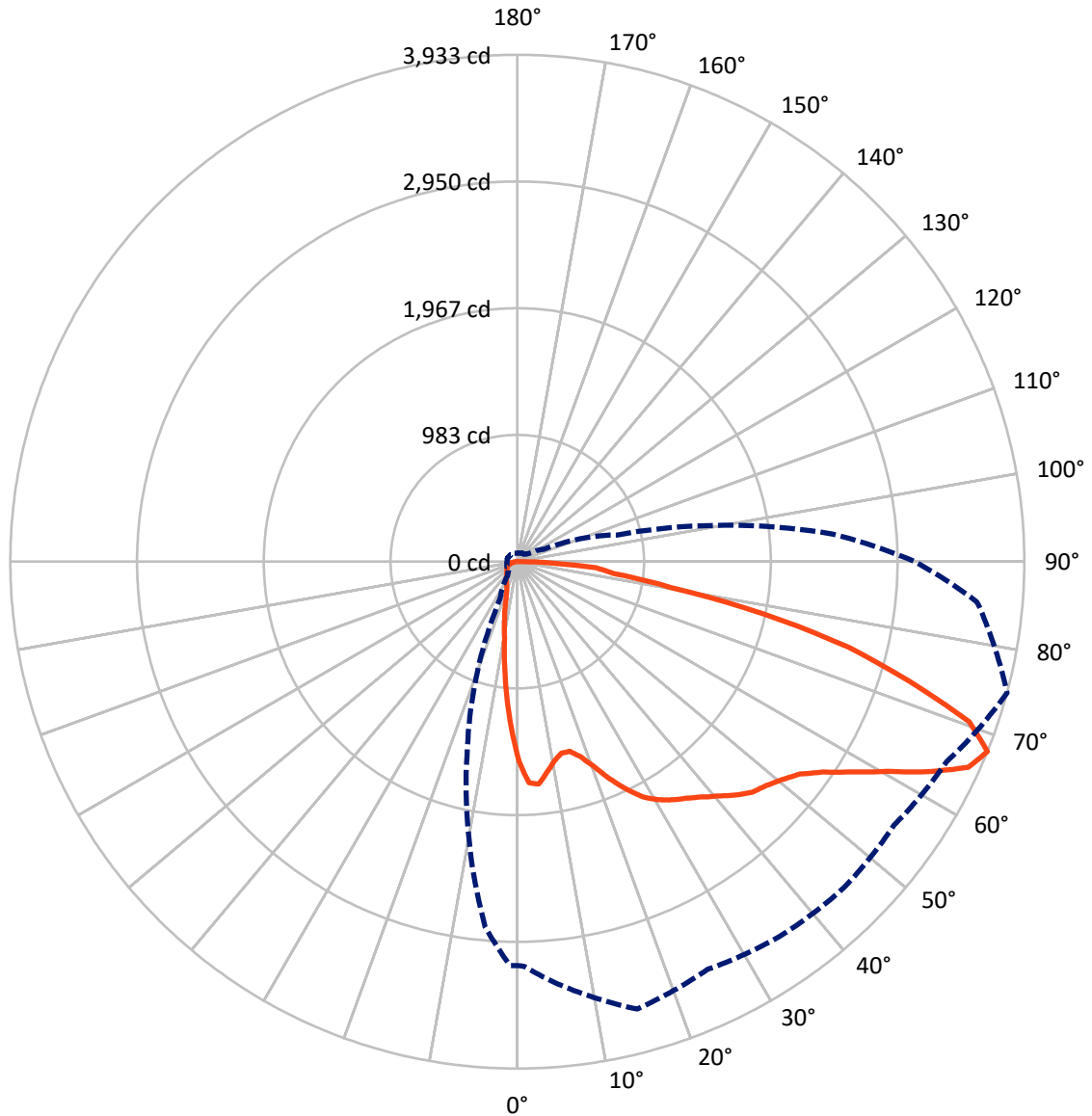
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	838.9	0.0	838.9
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	4124.1	0.0	4124.1
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	4963.0	0.0	4963.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.6	2.4
10°-20°	245.3	4.9
20°-30°	352.9	7.1
30°-40°	508.3	10.2
40°-50°	714.1	14.4
50°-60°	995.9	20.1
60°-70°	1184.1	23.9
70°-80°	697.3	14.1
80°-90°	147.5	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°	4963.0	100.0
0°-180°	4963.0	100.0

**Coefficient of Utilization**



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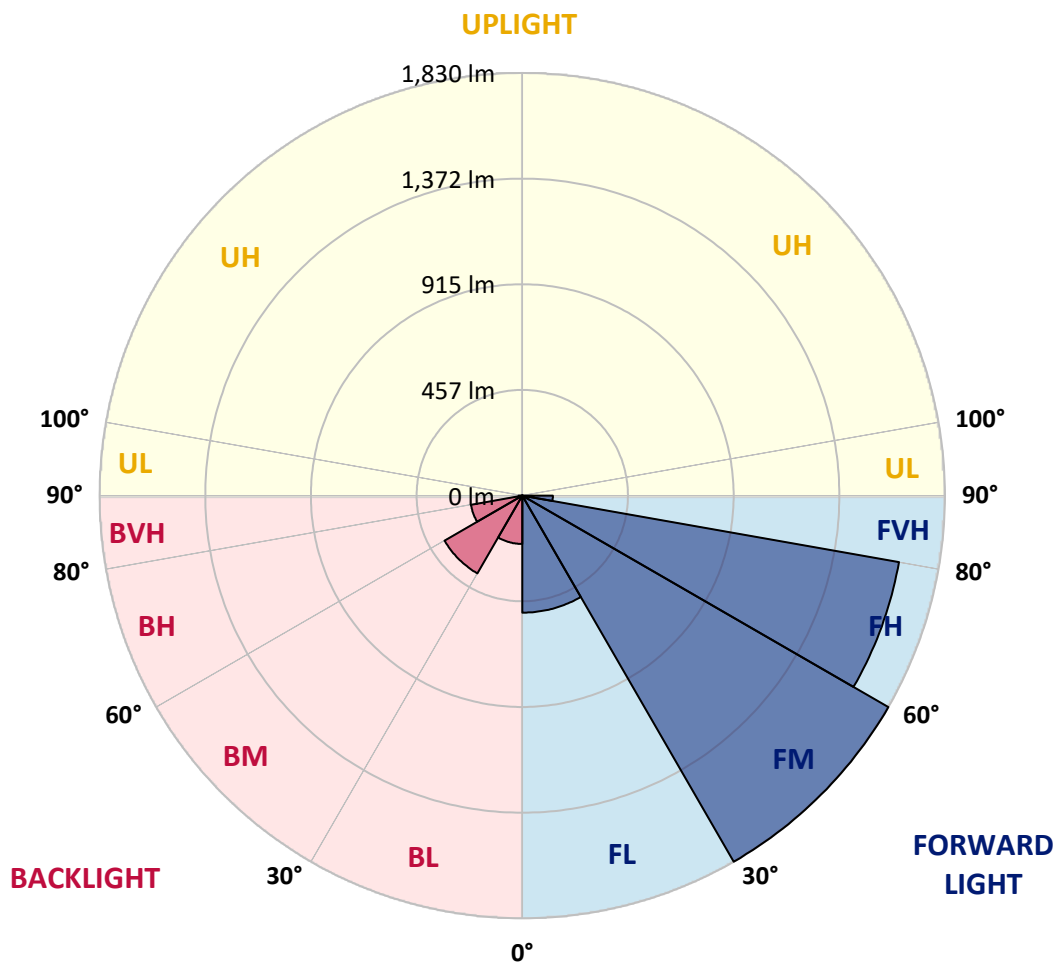
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	506.6	10.2			
FM (30°-60°)	1829.7	36.9			
FH (60°-80°)	1655.7	33.4			G1/1800
FVH (80°-90°)	132.2	2.7			G2/225
BL (0°-30°)	209.2	4.2	B1/500		
BM (30°-60°)	388.6	7.8	B1/1000		
BH (60°-80°)	225.7	4.5	B1/500		G1/500
BVH (80°-90°)	15.3	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-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1550.6	1550.6	1550.6	1550.6	1550.6	1550.6	1550.6	1550.6	1550.6	1550.6	1550.6
2.5°	1671.8	1674.0	1688.4	1730.1	1758.7	1769.2	1776.5	1762.8	1749.5	1717.0	1668.0
5°	1666.7	1679.8	1717.0	1810.6	1884.4	1916.2	1925.8	1884.7	1816.9	1733.6	1633.3
7.5°	1569.3	1586.8	1644.1	1801.0	1931.2	2005.7	1995.8	1921.6	1799.4	1650.8	1510.8
10°	1453.8	1473.2	1542.3	1732.0	1899.7	2002.2	2002.2	1911.8	1749.5	1572.8	1411.5
12.5°	1362.1	1382.5	1461.4	1661.0	1834.1	1931.2	1947.4	1869.8	1713.5	1523.5	1346.2
15°	1331.9	1351.6	1436.6	1618.0	1764.7	1823.9	1829.4	1803.9	1696.0	1527.0	1343.4
17.5°	1369.5	1394.9	1480.9	1630.8	1701.1	1704.6	1708.7	1728.8	1697.9	1591.0	1401.3
20°	1478.0	1505.4	1595.1	1671.8	1645.4	1609.1	1611.3	1662.9	1720.5	1696.6	1539.7
22.5°	1634.6	1658.4	1750.4	1744.1	1621.8	1547.1	1531.5	1603.4	1753.9	1828.4	1687.1
25°	1803.6	1831.6	1937.2	1851.3	1628.5	1510.1	1500.3	1568.4	1788.6	1951.6	1857.4
27.5°	1997.1	2024.4	2107.8	1959.5	1663.5	1507.3	1495.5	1565.2	1819.8	2065.5	2020.0
30°	2140.9	2166.1	2222.7	2050.5	1706.5	1526.4	1511.7	1590.3	1846.5	2143.5	2178.5
32.5°	2253.9	2280.0	2310.9	2107.2	1763.2	1561.1	1534.0	1636.2	1881.5	2203.0	2295.9
35°	2371.7	2402.5	2400.3	2157.5	1816.0	1601.2	1574.7	1702.4	1936.6	2254.9	2444.9
37.5°	2520.9	2533.3	2517.4	2202.7	1879.3	1673.4	1658.8	1800.7	2014.9	2317.6	2619.0
40°	2672.4	2697.2	2615.5	2257.4	1956.3	1809.3	1807.7	1946.2	2107.8	2391.1	2787.6
42.5°	2802.3	2823.3	2707.1	2305.2	2049.6	1975.1	1987.2	2141.2	2229.7	2476.4	2923.2
45°	2900.0	2918.8	2791.8	2351.3	2172.4	2166.7	2238.0	2350.3	2383.4	2553.1	3002.8
47.5°	2983.0	3001.2	2850.6	2421.3	2324.2	2395.5	2519.7	2568.4	2514.9	2597.0	3091.9
50°	3053.1	3058.5	2891.1	2504.7	2512.7	2675.9	2796.2	2827.7	2644.7	2660.0	3169.2
52.5°	3125.9	3118.9	2960.8	2609.7	2716.3	2942.0	3029.5	3062.3	2769.2	2737.7	3281.9
55°	3289.2	3295.9	3117.0	2742.1	2922.3	3203.3	3318.5	3287.0	2907.0	2880.6	3425.1
57.5°	3486.5	3480.8	3336.9	2949.3	3132.0	3446.4	3532.4	3481.8	3090.9	3076.9	3570.2
60°	3563.2	3570.9	3520.9	3172.1	3338.9	3659.3	3747.2	3668.6	3311.5	3305.1	3679.7
62.5°	3486.2	3529.2	3562.9	3370.4	3515.2	3815.9	3903.1	3813.4	3541.6	3587.7	3756.4
65°	3332.8	3342.0	3456.9	3538.4	3600.1	3841.7	3887.2	3839.5	3733.8	3845.2	3752.9
67.5°	3133.6	3141.5	3276.2	3593.5	3490.7	3548.9	3580.7	3566.7	3674.3	3933.4	3580.1
70°	2943.9	2937.5	3079.8	3453.1	3038.7	2950.3	2976.7	2932.8	3170.5	3717.9	3241.2
72.5°	2574.7	2597.6	2750.4	3062.9	2406.0	2262.2	2319.8	2206.2	2438.5	3184.2	2630.7
75°	2016.8	2022.2	2277.1	2570.6	1815.0	1588.1	1666.1	1618.7	1867.9	2656.2	1816.6
77.5°	1396.5	1384.4	1658.4	1963.3	1294.4	1162.6	1163.9	1141.3	1304.2	1955.7	1234.2
80°	887.0	868.5	1038.2	1212.9	889.5	951.6	920.4	919.5	849.1	1206.5	746.3
82.5°	479.3	499.7	655.9	760.3	638.1	735.5	674.1	654.3	582.7	755.2	477.4
85°	218.3	237.4	349.8	517.2	484.7	490.1	327.5	386.4	482.2	613.3	254.9
87.5°	21.3	27.4	72.2	244.1	165.5	130.5	48.7	93.9	121.3	218.0	20.4
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°	1550.6	1550.6	1550.6	1550.6	1550.6	1550.6	1550.6	1550.6	1550.6	1550.6	1550.6
2.5°	1647.9	1631.4	1575.1	1528.6	1479.3	1441.7	1392.7	1359.9	1337.3	1303.3	1299.1
5°	1572.2	1531.8	1433.8	1333.8	1247.6	1182.7	1116.8	1056.3	1020.7	1009.5	995.2
7.5°	1444.6	1376.5	1250.4	1135.9	1036.9	940.1	865.7	812.8	777.5	756.8	732.0
10°	1339.6	1260.6	1107.2	966.9	885.4	825.2	759.7	703.0	659.4	622.2	601.8
12.5°	1268.9	1179.8	1007.3	893.4	830.3	766.4	689.7	626.0	561.7	519.4	501.3
15°	1247.6	1153.4	976.4	856.8	766.4	682.7	596.7	513.7	450.0	409.9	396.6
17.5°	1299.8	1185.8	976.1	808.1	691.3	591.3	481.2	403.2	338.0	308.1	298.5
20°	1397.2	1248.2	979.0	760.0	609.8	469.1	350.1	286.1	254.9	242.2	237.4
22.5°	1533.1	1343.4	987.6	712.6	520.7	360.3	262.2	229.8	218.6	216.4	215.5
25°	1700.5	1461.1	1016.5	669.9	445.6	275.0	219.3	204.6	198.3	196.0	195.7
27.5°	1854.5	1613.3	1051.5	633.3	373.0	237.1	198.3	185.9	179.5	179.2	179.8
30°	1993.6	1740.6	1080.8	592.3	317.9	210.7	184.6	172.2	166.1	165.8	167.7
32.5°	2113.9	1845.3	1102.4	551.9	287.4	194.5	172.2	158.8	153.7	152.8	153.7
35°	2242.5	1949.7	1092.6	520.4	269.9	181.1	162.9	149.9	143.9	141.0	141.0
37.5°	2389.2	2057.2	1075.7	494.3	261.9	170.0	155.0	142.3	136.2	133.4	133.0
40°	2549.3	2164.8	1052.5	471.0	254.0	163.3	149.6	136.2	128.9	126.0	125.4
42.5°	2690.6	2256.8	1033.4	455.7	240.9	164.5	144.8	131.8	122.5	118.7	118.4
45°	2813.4	2349.4	1029.9	446.8	230.1	162.6	143.5	128.3	117.4	113.3	112.7
47.5°	2909.5	2445.8	1049.9	441.7	218.3	152.4	151.8	126.0	113.0	108.5	107.9
50°	3026.6	2582.7	1095.8	431.2	207.5	142.9	160.4	125.7	109.5	103.8	102.2
52.5°	3182.6	2760.9	1157.8	412.5	191.9	134.0	153.1	125.7	105.3	99.6	97.7
55°	3418.4	2988.1	1218.6	386.0	170.0	122.2	138.1	121.9	99.3	94.2	92.9
57.5°	3574.7	3154.3	1257.4	349.4	142.6	113.6	119.0	115.8	93.2	87.8	87.8
60°	3582.6	3198.8	1239.0	303.3	125.4	105.7	103.4	116.8	87.8	82.1	81.5
62.5°	3491.0	3089.7	1142.9	261.9	116.2	97.1	93.6	102.5	82.4	76.7	75.7
65°	3347.8	2811.2	976.1	242.2	111.1	89.4	84.3	84.0	76.7	71.3	70.0
67.5°	3084.6	2456.6	802.0	230.7	108.5	80.8	76.1	74.5	70.0	65.6	64.9
70°	2696.6	2057.5	643.2	226.0	107.3	71.9	68.1	66.2	62.4	58.9	58.6
72.5°	2098.0	1669.0	530.9	222.8	106.6	63.7	59.5	57.0	54.7	51.6	51.6
75°	1507.0	1227.8	405.1	200.8	98.7	54.7	50.3	48.7	45.5	43.0	43.6
77.5°	950.0	826.8	266.7	147.7	76.4	43.9	40.1	39.1	36.6	33.1	35.3
80°	641.6	581.5	155.6	92.9	48.1	32.1	30.9	30.6	27.7	23.9	24.2
82.5°	436.7	428.4	80.8	52.8	27.7	18.8	18.1	18.8	15.6	12.7	12.7
85°	170.6	233.0	38.2	20.7	8.9	2.9	4.1	4.5	2.5	1.3	1.6
87.5°	3.2	23.9	1.0	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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1550.6	1550.6	1550.6	1550.6	1550.6	1550.6	1550.6	1550.6	1550.6	1550.6	1550.6
2.5°	1292.8	1289.9	1294.7	1274.3	1278.4	1286.1	1289.9	1292.1	1323.6	1316.3	1336.4
5°	1008.6	1005.7	1024.2	1026.7	1036.3	1034.3	1043.6	1045.8	1057.3	1061.4	1089.4
7.5°	733.6	746.0	767.0	777.8	794.1	799.1	794.4	806.2	782.3	799.5	804.6
10°	589.4	574.5	565.5	590.4	593.6	617.1	607.6	599.9	613.9	614.6	627.9
12.5°	490.8	458.6	437.3	444.3	451.9	462.1	463.7	479.0	489.2	498.7	506.7
15°	384.8	373.6	354.2	344.7	355.5	359.6	369.5	382.2	393.1	395.9	406.7
17.5°	295.3	297.3	294.1	288.3	295.0	298.2	298.8	299.2	302.0	300.1	316.0
20°	237.7	244.4	252.4	253.7	255.9	257.5	254.6	243.8	244.1	250.8	255.9
22.5°	215.1	216.4	225.3	228.2	235.2	232.3	224.1	219.0	218.3	219.9	222.5
25°	197.3	199.2	205.6	210.1	215.5	210.4	204.3	199.5	198.9	200.5	203.0
27.5°	181.4	184.3	190.0	194.5	199.5	194.8	189.0	184.9	184.6	184.3	185.9
30°	168.7	171.9	176.0	181.1	184.6	180.5	175.0	172.8	172.5	171.9	172.5
32.5°	155.9	161.0	165.2	167.7	171.2	168.0	163.9	162.6	160.4	158.5	157.5
35°	141.6	147.0	153.4	156.6	160.1	156.9	154.0	148.6	144.8	144.5	145.1
37.5°	133.4	135.6	140.7	146.1	149.6	148.0	142.6	137.2	136.2	136.2	136.9
40°	126.0	127.0	129.2	136.2	142.6	137.8	131.1	129.5	129.5	129.2	129.5
42.5°	118.7	119.7	119.7	125.1	135.3	127.6	122.5	122.5	122.5	122.8	123.8
45°	112.0	112.3	112.0	115.8	125.4	119.0	115.5	116.5	117.1	117.8	118.4
47.5°	106.3	106.6	106.3	109.5	114.3	111.7	109.8	111.1	112.3	113.3	113.9
50°	101.2	100.9	101.5	103.4	105.7	106.3	105.0	106.9	107.6	108.8	110.4
52.5°	96.8	96.4	97.1	98.0	101.2	101.2	101.2	102.8	104.1	105.3	107.6
55°	91.7	92.0	92.9	94.2	98.3	97.7	98.0	99.3	100.6	102.5	103.8
57.5°	86.9	87.5	88.8	90.7	94.8	94.5	94.8	95.5	97.1	98.0	99.3
60°	81.5	82.7	84.3	85.6	89.7	89.4	91.0	92.3	93.2	93.2	93.9
62.5°	76.1	78.0	79.6	80.5	85.0	85.3	87.5	88.5	89.1	88.5	89.4
65°	70.7	73.5	74.2	75.4	79.9	80.2	82.7	85.0	84.3	83.7	85.3
67.5°	65.2	68.7	68.4	70.0	74.5	75.1	77.3	81.2	79.9	79.2	80.5
70°	59.2	61.7	62.1	63.0	69.1	68.1	71.6	75.1	74.2	74.5	74.5
72.5°	52.5	54.7	54.7	56.7	63.0	61.4	64.3	68.1	68.1	67.8	67.8
75°	44.6	45.8	47.1	50.0	56.7	54.7	56.7	60.2	60.8	60.2	60.2
77.5°	36.0	37.9	38.5	42.3	47.1	46.8	48.7	50.3	51.6	50.9	50.9
80°	25.5	27.4	29.9	34.1	36.9	37.9	38.8	40.1	40.7	40.7	41.4
82.5°	14.3	17.2	19.4	23.6	24.8	29.6	29.3	30.2	29.3	25.8	28.6
85°	3.2	6.0	8.6	10.8	12.4	17.2	18.1	20.4	16.9	15.6	15.6
87.5°	0.0	0.0	0.0	0.0	0.0	2.5	5.1	7.0	6.0	5.1	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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1550.6	1550.6	1550.6	1550.6	1550.6	1550.6	1550.6	1550.6	1550.6	1550.6
2.5°	1353.2	1380.9	1414.3	1471.9	1512.4	1556.0	1599.9	1646.7	1659.1	1671.8
5°	1097.0	1151.5	1181.1	1258.4	1339.6	1442.7	1527.0	1619.3	1657.8	1666.7
7.5°	831.0	867.9	945.5	1023.8	1124.4	1232.6	1361.8	1505.7	1550.6	1569.3
10°	658.8	709.1	777.2	861.2	949.4	1065.8	1211.6	1379.7	1443.3	1453.8
12.5°	560.8	616.8	690.9	779.7	863.1	951.0	1098.0	1271.4	1339.6	1362.1
15°	448.4	516.2	601.8	695.4	786.1	882.2	1031.2	1226.9	1305.5	1331.9
17.5°	352.3	407.1	499.7	601.2	708.8	830.3	1017.2	1248.2	1345.0	1369.5
20°	269.6	308.7	386.7	493.9	620.0	779.1	1020.7	1328.7	1444.6	1478.0
22.5°	233.0	253.0	300.4	402.6	543.6	734.5	1035.0	1439.2	1578.9	1634.6
25°	211.0	221.5	248.2	315.1	470.7	691.3	1067.8	1587.8	1766.7	1803.6
27.5°	192.2	199.9	216.4	264.5	404.5	651.2	1106.0	1752.7	1942.0	1997.1
30°	174.4	184.6	200.2	234.9	362.2	614.6	1154.0	1886.3	2089.7	2140.9
32.5°	160.7	170.9	185.2	214.2	326.2	576.0	1182.7	2003.8	2210.3	2253.9
35°	149.6	158.2	173.1	197.6	298.8	546.8	1176.9	2097.0	2327.1	2371.7
37.5°	141.6	148.9	163.9	182.0	278.2	516.2	1174.1	2220.2	2469.4	2520.9
40°	134.3	141.9	155.6	171.9	257.5	480.3	1175.6	2342.4	2620.9	2672.4
42.5°	128.6	137.2	148.3	169.0	236.1	451.3	1175.6	2448.7	2752.6	2802.3
45°	123.8	133.0	143.9	168.7	219.3	429.3	1167.7	2540.0	2857.6	2900.0
47.5°	119.7	129.8	145.4	162.9	215.1	413.4	1160.7	2613.2	2943.3	2983.0
50°	116.8	128.9	154.7	156.3	216.4	408.6	1194.4	2705.5	3018.7	3053.1
52.5°	114.6	129.2	154.4	146.4	214.2	411.8	1264.8	2849.7	3123.4	3125.9
55°	110.1	128.9	146.4	135.3	205.0	417.2	1355.1	3059.1	3287.3	3289.2
57.5°	105.7	125.4	135.9	125.7	186.2	417.2	1464.0	3257.4	3484.9	3486.5
60°	101.2	130.5	119.3	117.4	161.7	409.6	1578.9	3344.6	3547.0	3563.2
62.5°	96.8	131.4	106.6	110.1	143.9	391.1	1664.5	3248.2	3463.0	3486.2
65°	91.7	106.0	98.3	102.5	134.6	360.3	1637.4	3071.5	3305.1	3332.8
67.5°	85.6	89.7	89.4	94.5	131.4	314.8	1494.9	2848.1	3135.2	3133.6
70°	78.3	80.5	81.5	86.9	125.4	279.4	1245.7	2558.2	2908.3	2943.9
72.5°	70.7	72.6	73.5	78.3	119.3	259.4	966.9	2158.8	2519.0	2574.7
75°	62.4	63.7	64.9	69.1	113.0	229.8	688.7	1647.9	1929.3	2016.8
77.5°	53.8	53.8	55.4	59.5	95.2	189.7	462.1	1155.9	1307.1	1396.5
80°	43.6	43.9	43.3	47.7	70.0	129.8	262.6	772.1	869.8	887.0
82.5°	33.4	32.5	32.8	35.0	52.2	88.5	140.0	479.6	488.8	479.3
85°	21.0	21.0	20.4	22.9	33.4	46.1	76.4	293.8	229.5	218.3
87.5°	8.6	7.0	8.0	9.2	15.9	18.8	29.9	60.5	23.2	21.3
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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