

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: P450870

Luminaire Tested: **GALN-SA1D-722-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450870  
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-SA1D-722-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2200K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4960 lumens  
Efficiency: N/A  
Efficacy: 76.3 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

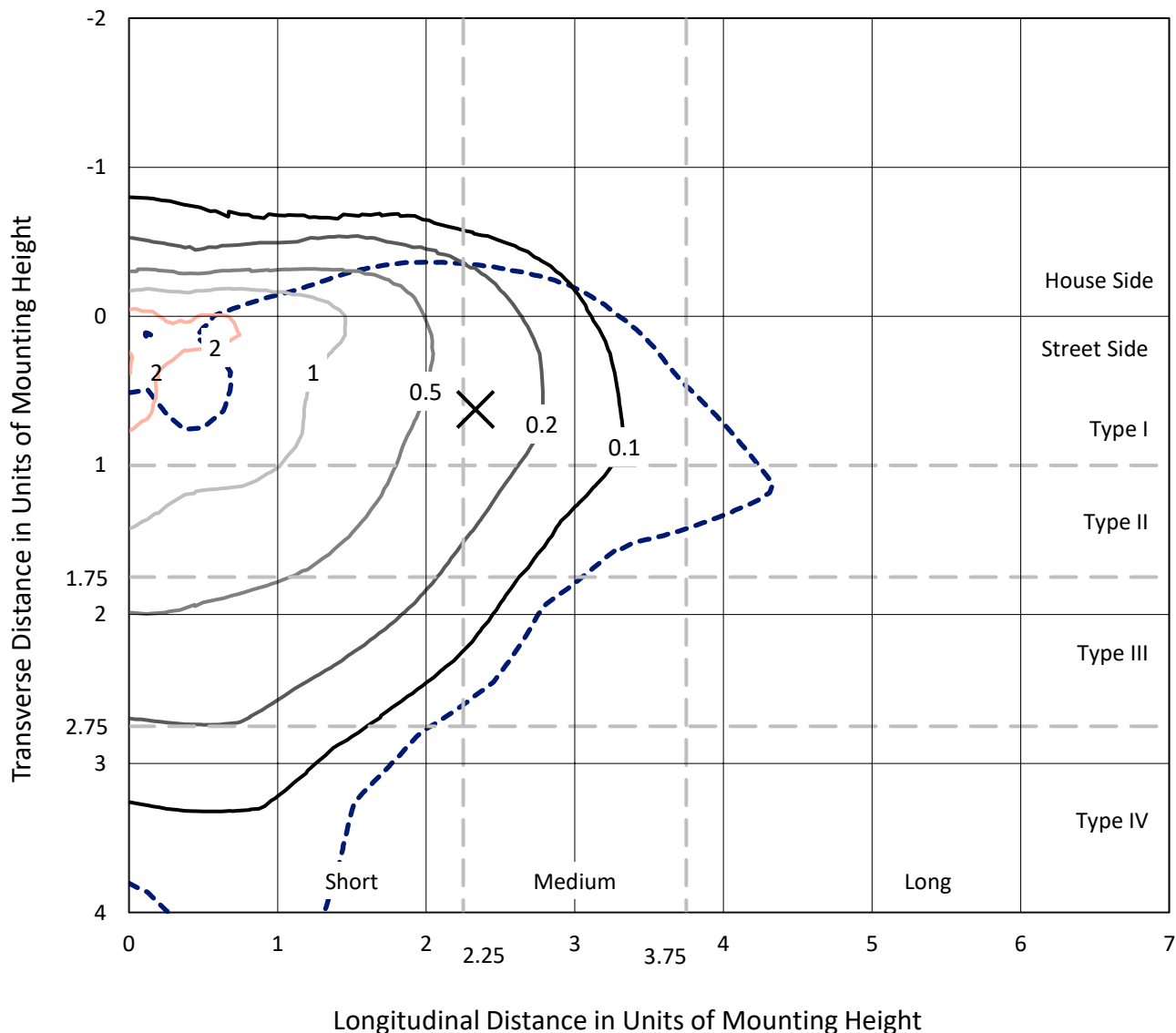
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

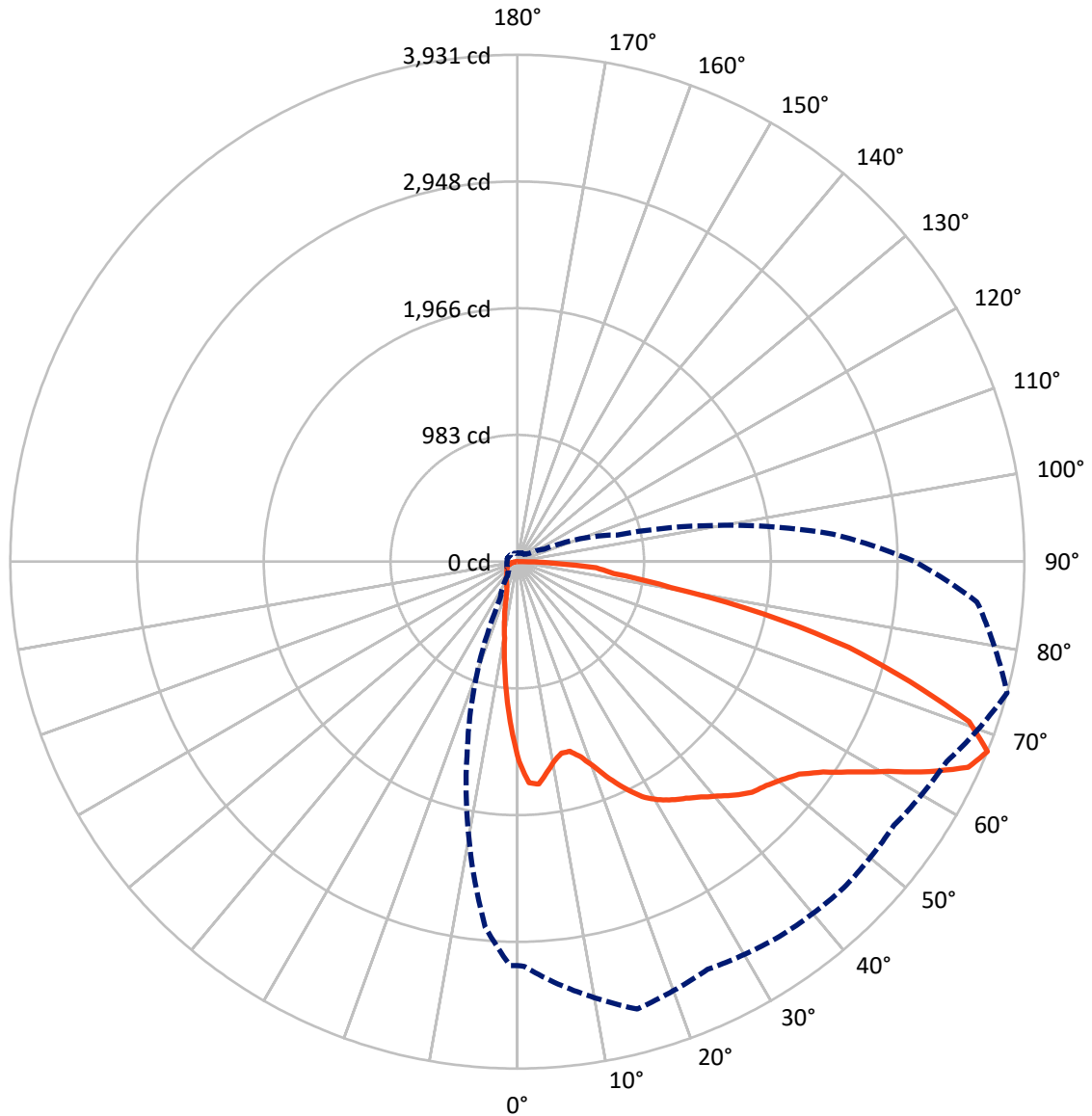
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	838.3	0.0	838.3
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	4121.7	0.0	4121.7
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	4960.0	0.0	4960.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.5	2.4
10°-20°	245.1	4.9
20°-30°	352.7	7.1
30°-40°	508.0	10.2
40°-50°	713.7	14.4
50°-60°	995.3	20.1
60°-70°	1183.3	23.9
70°-80°	696.9	14.1
80°-90°	147.4	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°	4960.0	100.0
0°-180°	4960.0	100.0

**Coefficient of Utilization**



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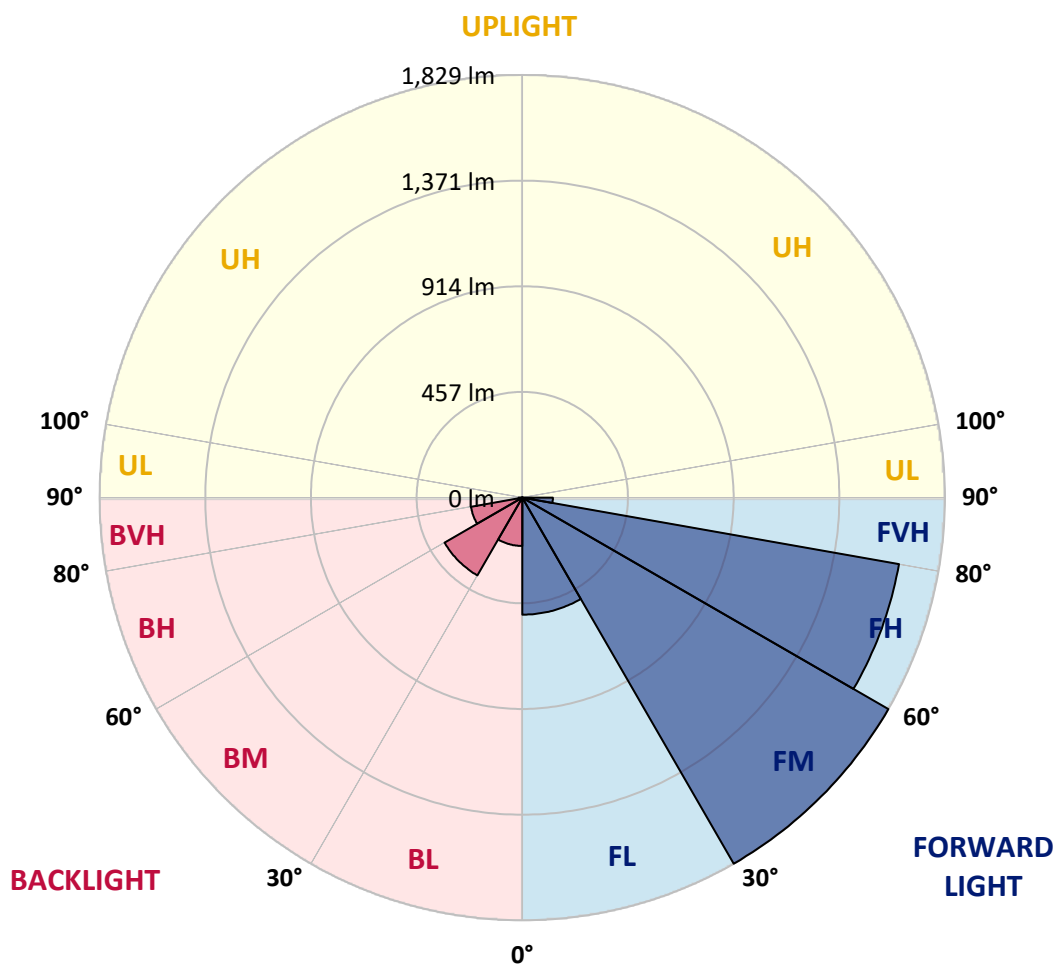
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	506.3	10.2			
FM	(30°-60°)	1828.6	36.9			
FH	(60°-80°)	1654.7	33.4			G1/1800
FVH	(80°-90°)	132.1	2.7			G2/225
BL	(0°-30°)	209.1	4.2	B1/500		
BM	(30°-60°)	388.4	7.8	B1/1000		
BH	(60°-80°)	225.6	4.5	B1/500		G1/500
BVH	(80°-90°)	15.2	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-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6
2.5°	1670.8	1673.0	1687.3	1729.0	1757.6	1768.1	1775.4	1761.8	1748.4	1716.0	1667.0
5°	1665.7	1678.8	1716.0	1809.5	1883.3	1915.1	1924.6	1883.6	1815.8	1732.5	1632.3
7.5°	1568.4	1585.9	1643.1	1799.9	1930.0	2004.5	1994.6	1920.5	1798.3	1649.8	1509.9
10°	1452.9	1472.3	1541.4	1730.9	1898.5	2001.0	2001.0	1910.6	1748.4	1571.9	1410.6
12.5°	1361.3	1381.7	1460.6	1660.0	1833.0	1930.0	1946.3	1868.6	1712.5	1522.6	1345.4
15°	1331.1	1350.8	1435.8	1617.1	1763.7	1822.8	1828.2	1802.8	1695.0	1526.1	1342.6
17.5°	1368.6	1394.1	1480.0	1629.8	1700.1	1703.6	1707.7	1727.7	1696.9	1590.0	1400.4
20°	1477.1	1504.5	1594.2	1670.8	1644.4	1608.1	1610.4	1661.9	1719.5	1695.6	1538.8
22.5°	1633.6	1657.4	1749.4	1743.0	1620.9	1546.1	1530.5	1602.4	1752.9	1827.3	1686.1
25°	1802.5	1830.5	1936.1	1850.2	1627.5	1509.2	1499.4	1567.4	1787.5	1950.4	1856.2
27.5°	1995.9	2023.2	2106.6	1958.3	1662.5	1506.4	1494.6	1564.3	1818.7	2064.3	2018.8
30°	2139.6	2164.8	2221.4	2049.3	1705.5	1525.4	1510.8	1589.4	1845.4	2142.2	2177.2
32.5°	2252.5	2278.6	2309.5	2105.9	1762.1	1560.1	1533.1	1635.2	1880.4	2201.7	2294.5
35°	2370.2	2401.1	2398.9	2156.2	1814.9	1600.2	1573.8	1701.3	1935.4	2253.5	2443.4
37.5°	2519.4	2531.8	2515.9	2201.3	1878.2	1672.4	1657.8	1799.6	2013.7	2316.2	2617.4
40°	2670.8	2695.6	2613.9	2256.0	1955.2	1808.2	1806.6	1945.0	2106.6	2389.6	2785.9
42.5°	2800.6	2821.6	2705.5	2303.8	2048.4	1973.9	1986.0	2140.0	2228.4	2474.9	2921.4
45°	2898.2	2917.0	2790.1	2349.9	2171.1	2165.4	2236.6	2348.9	2382.0	2551.5	3001.0
47.5°	2981.2	2999.4	2848.9	2419.9	2322.8	2394.1	2518.1	2566.8	2513.4	2595.4	3090.0
50°	3051.2	3056.6	2889.3	2503.2	2511.1	2674.3	2794.5	2826.0	2643.1	2658.4	3167.3
52.5°	3124.1	3117.1	2959.0	2608.1	2714.7	2940.2	3027.7	3060.4	2767.5	2736.0	3279.9
55°	3287.2	3293.9	3115.1	2740.5	2920.5	3201.3	3316.5	3285.0	2905.2	2878.8	3423.0
57.5°	3484.4	3478.7	3334.9	2947.5	3130.1	3444.3	3530.2	3479.7	3089.1	3075.1	3568.1
60°	3561.1	3568.7	3518.8	3170.2	3336.8	3657.1	3744.9	3666.4	3309.5	3303.1	3677.5
62.5°	3484.1	3527.0	3560.8	3368.3	3513.0	3813.6	3900.8	3811.1	3539.4	3585.6	3754.1
65°	3330.8	3340.0	3454.8	3536.3	3598.0	3839.4	3884.9	3837.2	3731.6	3842.9	3750.6
67.5°	3131.7	3139.6	3274.2	3591.3	3488.6	3546.8	3578.6	3564.6	3672.1	3931.0	3577.9
70°	2942.1	2935.8	3077.9	3451.0	3036.9	2948.5	2974.9	2931.0	3168.6	3715.7	3239.2
72.5°	2573.2	2596.1	2748.7	3061.1	2404.6	2260.8	2318.4	2204.8	2437.0	3182.3	2629.1
75°	2015.6	2021.0	2275.8	2569.0	1813.9	1587.2	1665.1	1617.7	1866.7	2654.6	1815.5
77.5°	1395.7	1383.6	1657.4	1962.2	1293.6	1161.9	1163.2	1140.6	1303.4	1954.5	1233.5
80°	886.5	868.0	1037.5	1212.2	889.0	951.0	919.8	918.9	848.6	1205.8	745.9
82.5°	479.0	499.4	655.5	759.9	637.7	735.1	673.7	653.9	582.4	754.8	477.1
85°	218.2	237.3	349.6	516.9	484.4	489.8	327.3	386.1	481.9	612.9	254.8
87.5°	21.3	27.4	72.2	244.0	165.4	130.4	48.7	93.8	121.2	217.9	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°	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6
2.5°	1646.9	1630.4	1574.1	1527.7	1478.4	1440.8	1391.9	1359.1	1336.5	1302.5	1298.3
5°	1571.2	1530.9	1432.9	1333.0	1246.8	1181.9	1116.1	1055.7	1020.0	1008.9	994.6
7.5°	1443.7	1375.6	1249.7	1135.2	1036.3	939.6	865.1	812.3	777.0	756.4	731.6
10°	1338.7	1259.9	1106.6	966.3	884.9	824.7	759.2	702.6	659.0	621.8	601.5
12.5°	1268.1	1179.1	1006.7	892.8	829.8	765.9	689.3	625.6	561.4	519.1	501.0
15°	1246.8	1152.7	975.8	856.2	765.9	682.3	596.4	513.4	449.7	409.7	396.3
17.5°	1299.0	1185.1	975.5	807.6	690.8	591.0	480.9	403.0	337.8	307.9	298.3
20°	1396.3	1247.5	978.4	759.5	609.4	468.8	349.9	285.9	254.8	242.0	237.3
22.5°	1532.1	1342.6	987.0	712.2	520.4	360.1	262.1	229.6	218.5	216.3	215.3
25°	1699.4	1460.2	1015.9	669.5	445.3	274.8	219.1	204.5	198.2	195.9	195.6
27.5°	1853.4	1612.3	1050.9	633.0	372.8	237.0	198.2	185.8	179.4	179.1	179.7
30°	1992.4	1739.5	1080.2	591.9	317.7	210.6	184.5	172.1	166.0	165.7	167.6
32.5°	2112.6	1844.2	1101.8	551.5	287.2	194.3	172.1	158.7	153.6	152.7	153.6
35°	2241.1	1948.5	1091.9	520.0	269.7	181.0	162.9	149.8	143.8	140.9	140.9
37.5°	2387.7	2056.0	1075.1	494.0	261.8	169.8	154.9	142.2	136.1	133.3	133.0
40°	2547.7	2163.5	1051.8	470.7	253.8	163.2	149.5	136.1	128.8	126.0	125.3
42.5°	2688.9	2255.4	1032.8	455.5	240.8	164.4	144.7	131.7	122.5	118.6	118.3
45°	2811.7	2348.0	1029.3	446.6	230.0	162.5	143.4	128.2	117.4	113.2	112.6
47.5°	2907.8	2444.3	1049.3	441.5	218.2	152.4	151.7	126.0	112.9	108.5	107.8
50°	3024.8	2581.1	1095.1	431.0	207.4	142.8	160.3	125.6	109.4	103.7	102.1
52.5°	3180.7	2759.2	1157.1	412.2	191.8	133.9	153.0	125.6	105.3	99.6	97.6
55°	3416.4	2986.3	1217.9	385.8	169.8	122.1	138.0	121.8	99.2	94.1	92.9
57.5°	3572.5	3152.4	1256.7	349.2	142.5	113.5	119.0	115.8	93.2	87.8	87.8
60°	3580.5	3196.9	1238.2	303.1	125.3	105.6	103.4	116.7	87.8	82.1	81.4
62.5°	3488.9	3087.8	1142.2	261.8	116.1	97.0	93.5	102.4	82.4	76.7	75.7
65°	3345.7	2809.5	975.5	242.0	111.0	89.4	84.3	84.0	76.7	71.2	70.0
67.5°	3082.7	2455.2	801.5	230.6	108.5	80.8	76.0	74.4	70.0	65.5	64.9
70°	2695.0	2056.3	642.8	225.8	107.2	71.9	68.1	66.2	62.3	58.8	58.5
72.5°	2096.7	1667.9	530.5	222.6	106.6	63.6	59.5	56.9	54.7	51.5	51.5
75°	1506.0	1227.1	404.9	200.7	98.6	54.7	50.3	48.7	45.5	42.9	43.6
77.5°	949.4	826.3	266.5	147.6	76.3	43.9	40.1	39.1	36.6	33.1	35.3
80°	641.2	581.1	155.5	92.9	48.0	32.1	30.9	30.5	27.7	23.9	24.2
82.5°	436.4	428.1	80.8	52.8	27.7	18.8	18.1	18.8	15.6	12.7	12.7
85°	170.5	232.8	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°	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6
2.5°	1292.0	1289.1	1293.9	1273.5	1277.7	1285.3	1289.1	1291.4	1322.8	1315.5	1335.6
5°	1008.0	1005.1	1023.5	1026.1	1035.6	1033.7	1042.9	1045.2	1056.6	1060.8	1088.7
7.5°	733.1	745.5	766.5	777.4	793.6	798.7	793.9	805.7	781.8	799.0	804.1
10°	589.1	574.1	565.2	590.0	593.2	616.7	607.2	599.6	613.6	614.2	627.5
12.5°	490.5	458.3	437.0	444.0	451.7	461.8	463.4	478.7	488.9	498.4	506.4
15°	384.5	373.4	354.0	344.5	355.3	359.4	369.3	382.0	392.8	395.7	406.5
17.5°	295.2	297.1	293.9	288.2	294.8	298.0	298.7	299.0	301.8	299.9	315.8
20°	237.6	244.3	252.2	253.5	255.7	257.3	254.5	243.6	244.0	250.6	255.7
22.5°	215.0	216.3	225.2	228.1	235.1	232.2	223.9	218.8	218.2	219.8	222.3
25°	197.2	199.1	205.5	209.9	215.3	210.2	204.2	199.4	198.8	200.4	202.9
27.5°	181.3	184.2	189.9	194.3	199.4	194.7	188.9	184.8	184.5	184.2	185.8
30°	168.6	171.8	175.9	181.0	184.5	180.3	174.9	172.7	172.4	171.8	172.4
32.5°	155.9	160.9	165.1	167.6	171.1	167.9	163.8	162.5	160.3	158.4	157.4
35°	141.5	146.9	153.3	156.5	160.0	156.8	153.9	148.5	144.7	144.4	145.0
37.5°	133.3	135.5	140.6	146.0	149.5	147.9	142.5	137.1	136.1	136.1	136.8
40°	126.0	126.9	129.1	136.1	142.5	137.7	131.0	129.5	129.5	129.1	129.5
42.5°	118.6	119.6	119.6	125.0	135.2	127.5	122.5	122.5	122.5	122.8	123.7
45°	112.0	112.3	112.0	115.8	125.3	119.0	115.5	116.4	117.0	117.7	118.3
47.5°	106.2	106.6	106.2	109.4	114.2	111.6	109.7	111.0	112.3	113.2	113.9
50°	101.1	100.8	101.5	103.4	105.6	106.2	105.0	106.9	107.5	108.8	110.4
52.5°	96.7	96.4	97.0	98.0	101.1	101.1	101.1	102.7	104.0	105.3	107.5
55°	91.6	91.9	92.9	94.1	98.3	97.6	98.0	99.2	100.5	102.4	103.7
57.5°	86.8	87.5	88.7	90.6	94.8	94.5	94.8	95.4	97.0	98.0	99.2
60°	81.4	82.7	84.3	85.6	89.7	89.4	91.0	92.2	93.2	93.2	93.8
62.5°	76.0	77.9	79.5	80.5	84.9	85.2	87.5	88.4	89.1	88.4	89.4
65°	70.6	73.5	74.1	75.4	79.8	80.2	82.7	84.9	84.3	83.7	85.2
67.5°	65.2	68.7	68.4	70.0	74.4	75.1	77.3	81.1	79.8	79.2	80.5
70°	59.2	61.7	62.0	63.0	69.0	68.1	71.6	75.1	74.1	74.4	74.4
72.5°	52.5	54.7	54.7	56.6	63.0	61.4	64.2	68.1	68.1	67.7	67.7
75°	44.5	45.8	47.1	49.9	56.6	54.7	56.6	60.1	60.8	60.1	60.1
77.5°	35.9	37.8	38.5	42.3	47.1	46.8	48.7	50.3	51.5	50.9	50.9
80°	25.4	27.4	29.9	34.0	36.9	37.8	38.8	40.1	40.7	40.7	41.3
82.5°	14.3	17.2	19.4	23.5	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°	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6
2.5°	1352.4	1380.1	1413.5	1471.1	1511.5	1555.0	1598.9	1645.7	1658.1	1670.8
5°	1096.4	1150.8	1180.3	1257.6	1338.7	1441.8	1526.1	1618.3	1656.8	1665.7
7.5°	830.5	867.4	945.0	1023.2	1123.7	1231.9	1361.0	1504.8	1549.6	1568.4
10°	658.4	708.7	776.7	860.7	948.8	1065.2	1210.9	1378.8	1442.4	1452.9
12.5°	560.4	616.4	690.5	779.3	862.6	950.4	1097.3	1270.7	1338.7	1361.3
15°	448.2	515.9	601.5	695.0	785.6	881.7	1030.5	1226.1	1304.7	1331.1
17.5°	352.1	406.8	499.4	600.8	708.3	829.8	1016.5	1247.5	1344.2	1368.6
20°	269.4	308.5	386.5	493.6	619.6	778.6	1020.0	1327.9	1443.7	1477.1
22.5°	232.8	252.9	300.3	402.4	543.3	734.1	1034.4	1438.3	1577.9	1633.6
25°	210.9	221.4	248.1	314.9	470.4	690.8	1067.1	1586.8	1765.6	1802.5
27.5°	192.1	199.7	216.3	264.3	404.3	650.8	1105.3	1751.6	1940.8	1995.9
30°	174.3	184.5	200.1	234.7	362.0	614.2	1153.3	1885.2	2088.4	2139.6
32.5°	160.6	170.8	185.1	214.1	326.0	575.7	1181.9	2002.5	2209.0	2252.5
35°	149.5	158.1	173.0	197.5	298.7	546.4	1176.2	2095.7	2325.7	2370.2
37.5°	141.5	148.9	163.8	181.9	278.0	515.9	1173.3	2218.8	2467.9	2519.4
40°	134.2	141.9	155.5	171.8	257.3	480.0	1174.9	2341.0	2619.3	2670.8
42.5°	128.5	137.1	148.2	168.9	236.0	451.0	1174.9	2447.2	2751.0	2800.6
45°	123.7	133.0	143.8	168.6	219.1	429.1	1167.0	2538.5	2855.9	2898.2
47.5°	119.6	129.8	145.4	162.9	215.0	413.2	1160.0	2611.6	2941.5	2981.2
50°	116.7	128.8	154.6	156.2	216.3	408.4	1193.7	2703.9	3016.9	3051.2
52.5°	114.5	129.1	154.3	146.3	214.1	411.6	1264.0	2848.0	3121.5	3124.1
55°	110.1	128.8	146.3	135.2	204.8	417.0	1354.3	3057.3	3285.3	3287.2
57.5°	105.6	125.3	135.8	125.6	186.1	417.0	1463.1	3255.4	3482.8	3484.4
60°	101.1	130.4	119.3	117.4	161.6	409.4	1577.9	3342.6	3544.9	3561.1
62.5°	96.7	131.4	106.6	110.1	143.8	390.9	1663.5	3246.2	3460.9	3484.1
65°	91.6	105.9	98.3	102.4	134.5	360.1	1636.5	3069.7	3303.1	3330.8
67.5°	85.6	89.7	89.4	94.5	131.4	314.6	1494.0	2846.4	3133.3	3131.7
70°	78.2	80.5	81.4	86.8	125.3	279.3	1244.9	2556.6	2906.5	2942.1
72.5°	70.6	72.5	73.5	78.2	119.3	259.2	966.3	2157.4	2517.5	2573.2
75°	62.3	63.6	64.9	69.0	112.9	229.6	688.3	1646.9	1928.1	2015.6
77.5°	53.8	53.8	55.3	59.5	95.1	189.6	461.8	1155.2	1306.3	1395.7
80°	43.6	43.9	43.3	47.7	70.0	129.8	262.4	771.6	869.3	886.5
82.5°	33.4	32.4	32.8	35.0	52.2	88.4	139.9	479.3	488.6	479.0
85°	21.0	21.0	20.4	22.9	33.4	46.1	76.3	293.6	229.3	218.2
87.5°	8.6	7.0	8.0	9.2	15.9	18.8	29.9	60.4	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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