

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: P450899

Luminaire Tested: **GALN-SA1D-727-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450899  
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-727-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 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: 5643 lumens  
Efficiency: N/A  
Efficacy: 86.8 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

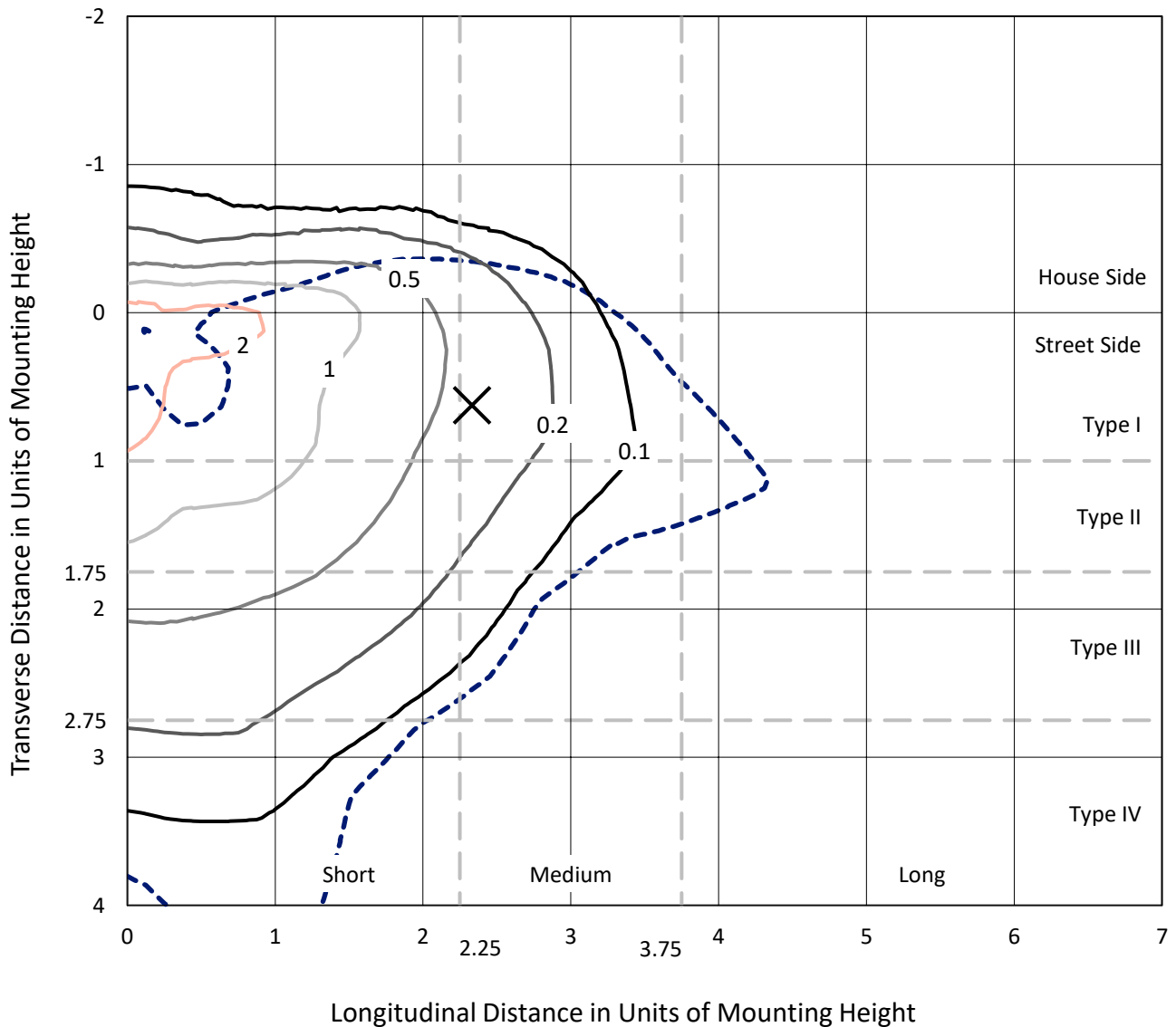
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

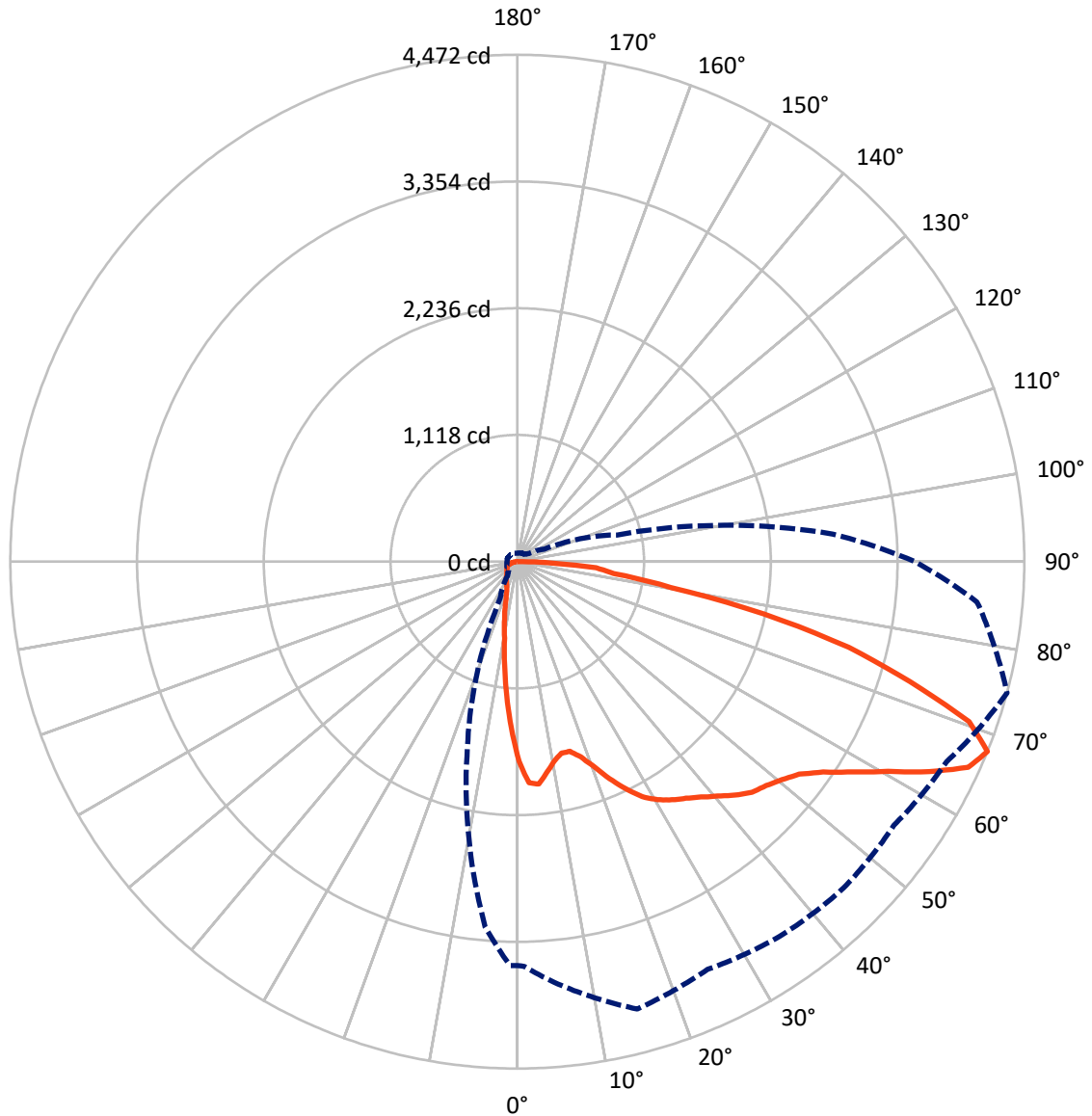
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	953.8	0.0	953.8
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	4689.2	0.0	4689.2
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	5643.0	0.0	5643.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.7	2.4
10°-20°	278.9	4.9
20°-30°	401.3	7.1
30°-40°	578.0	10.2
40°-50°	811.9	14.4
50°-60°	1132.3	20.1
60°-70°	1346.3	23.9
70°-80°	792.9	14.1
80°-90°	167.7	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°	5643.0	100.0
0°-180°	5643.0	100.0

**Coefficient of Utilization**



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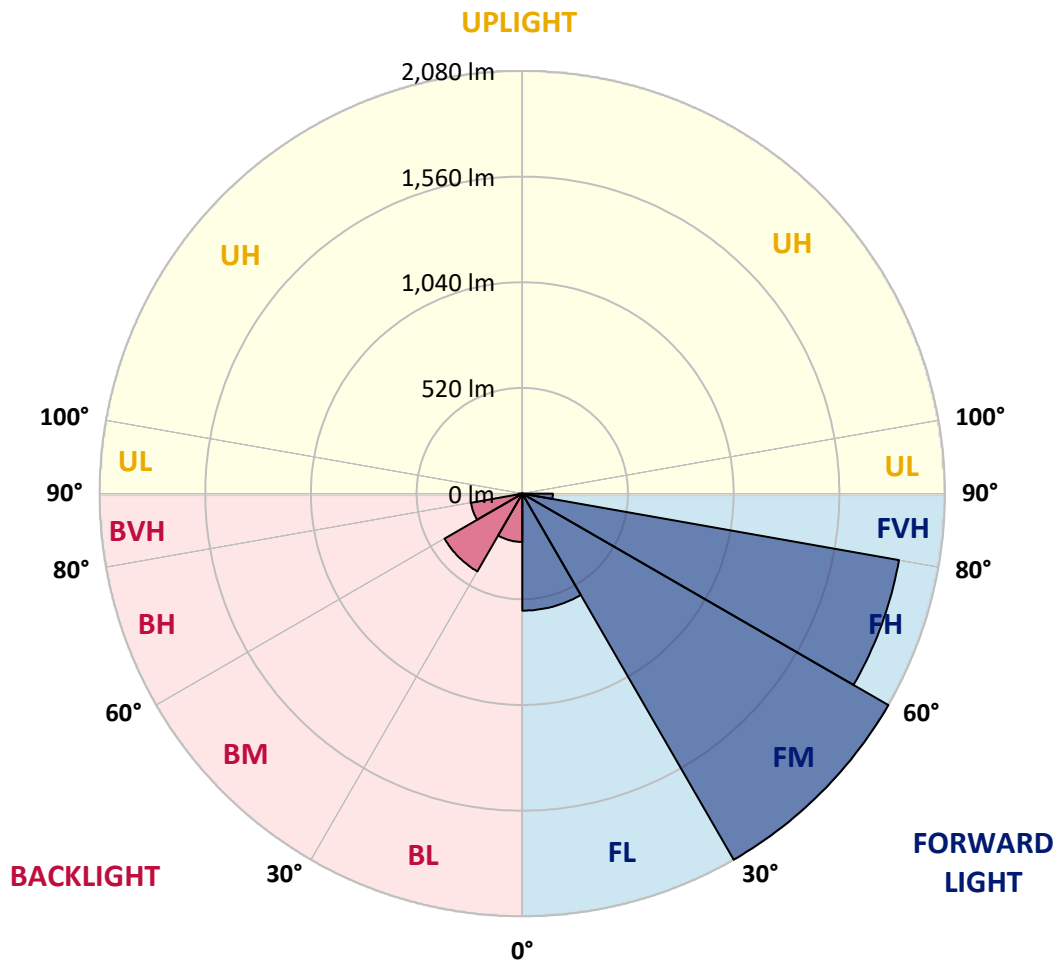
CATALOG NUMBER: GALN-SA1D-727-U-SLL

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	576.0	10.2			
FM	(30°-60°)	2080.4	36.9			
FH	(60°-80°)	1882.5	33.4			G2/5000
FVH	(80°-90°)	150.3	2.7			G2/225
BL	(0°-30°)	237.9	4.2	B1/500		
BM	(30°-60°)	441.9	7.8	B1/1000		
BH	(60°-80°)	256.6	4.5	B1/500		G1/500
BVH	(80°-90°)	17.3	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°	1763.0	1763.0	1763.0	1763.0	1763.0	1763.0	1763.0	1763.0	1763.0	1763.0	1763.0
2.5°	1900.9	1903.4	1919.7	1967.1	1999.7	2011.6	2019.9	2004.4	1989.2	1952.3	1896.5
5°	1895.1	1909.9	1952.3	2058.7	2142.6	2178.8	2189.6	2143.0	2065.9	1971.1	1857.1
7.5°	1784.4	1804.3	1869.4	2047.8	2195.8	2280.5	2269.3	2184.9	2046.0	1877.0	1717.8
10°	1653.0	1675.1	1753.6	1969.3	2160.0	2276.5	2276.5	2173.7	1989.2	1788.3	1604.9
12.5°	1548.8	1571.9	1661.7	1888.6	2085.4	2195.8	2214.3	2126.0	1948.3	1732.2	1530.7
15°	1514.4	1536.8	1633.5	1839.7	2006.5	2073.8	2080.0	2051.1	1928.4	1736.2	1527.4
17.5°	1557.1	1586.1	1683.8	1854.2	1934.2	1938.1	1942.9	1965.7	1930.6	1809.0	1593.3
20°	1680.5	1711.6	1813.7	1900.9	1870.8	1829.6	1832.1	1890.7	1956.2	1929.1	1750.7
22.5°	1858.5	1885.7	1990.3	1983.0	1844.1	1759.0	1741.3	1823.1	1994.2	2078.9	1918.2
25°	2050.7	2082.5	2202.7	2105.0	1851.7	1717.0	1705.8	1783.3	2033.7	2219.0	2111.8
27.5°	2270.7	2301.8	2396.6	2228.0	1891.5	1713.8	1700.4	1779.7	2069.1	2348.5	2296.8
30°	2434.3	2462.9	2527.3	2331.5	1940.3	1735.5	1718.9	1808.2	2099.5	2437.2	2477.0
32.5°	2562.7	2592.4	2627.5	2395.9	2004.7	1774.9	1744.2	1860.3	2139.3	2504.8	2610.5
35°	2696.6	2731.7	2729.2	2453.1	2064.8	1820.5	1790.5	1935.6	2201.9	2563.8	2779.8
37.5°	2866.3	2880.4	2862.4	2504.5	2136.8	1902.7	1886.0	2047.4	2291.0	2635.1	2977.8
40°	3038.6	3066.8	2973.8	2566.7	2224.4	2057.2	2055.4	2212.8	2396.6	2718.7	3169.6
42.5°	3186.2	3210.1	3078.0	2621.0	2330.4	2245.7	2259.5	2434.6	2535.2	2815.7	3323.7
45°	3297.3	3318.7	3174.3	2673.5	2470.1	2463.6	2544.6	2672.4	2710.0	2902.9	3414.2
47.5°	3391.8	3412.4	3241.2	2753.1	2642.7	2723.8	2864.9	2920.3	2859.5	2952.8	3515.5
50°	3471.4	3477.5	3287.2	2847.9	2856.9	3042.6	3179.3	3215.2	3007.1	3024.5	3603.5
52.5°	3554.2	3546.3	3366.4	2967.3	3088.5	3345.1	3444.6	3481.9	3148.6	3112.8	3731.6
55°	3739.9	3747.5	3544.1	3117.8	3322.6	3642.2	3773.2	3737.3	3305.3	3275.2	3894.4
57.5°	3964.2	3957.7	3794.2	3353.4	3561.1	3918.6	4016.3	3958.8	3514.4	3498.5	4059.4
60°	4051.4	4060.1	4003.3	3606.7	3796.3	4160.7	4260.6	4171.2	3765.2	3758.0	4183.9
62.5°	3963.9	4012.7	4051.1	3832.2	3996.8	4338.8	4437.9	4335.9	4026.8	4079.3	4271.1
65°	3789.5	3799.9	3930.6	4023.2	4093.4	4368.1	4419.8	4365.5	4245.4	4372.1	4267.1
67.5°	3562.9	3572.0	3725.0	4085.8	3968.9	4035.2	4071.3	4055.4	4177.7	4472.3	4070.6
70°	3347.3	3340.0	3501.8	3926.2	3455.1	3354.5	3384.5	3334.6	3604.9	4227.3	3685.2
72.5°	2927.5	2953.5	3127.2	3482.6	2735.7	2572.1	2637.6	2508.4	2772.6	3620.5	2991.2
75°	2293.1	2299.3	2589.1	2922.8	2063.7	1805.7	1894.4	1840.4	2123.8	3020.1	2065.5
77.5°	1587.9	1574.1	1885.7	2232.3	1471.7	1321.9	1323.3	1297.6	1482.9	2223.7	1403.3
80°	1008.5	987.5	1180.4	1379.1	1011.4	1082.0	1046.5	1045.4	965.5	1371.8	848.6
82.5°	545.0	568.1	745.8	864.5	725.5	836.3	766.4	744.0	662.6	858.7	542.8
85°	248.2	270.0	397.7	588.0	551.1	557.3	372.4	439.3	548.2	697.3	289.9
87.5°	24.2	31.1	82.1	277.6	188.2	148.4	55.4	106.8	137.9	247.9	23.2
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°	1763.0	1763.0	1763.0	1763.0	1763.0	1763.0	1763.0	1763.0	1763.0	1763.0	1763.0
2.5°	1873.7	1854.9	1790.9	1738.0	1681.9	1639.2	1583.5	1546.2	1520.6	1481.8	1477.1
5°	1787.6	1741.7	1630.2	1516.6	1418.5	1344.7	1269.8	1201.0	1160.5	1147.8	1131.6
7.5°	1642.5	1565.1	1421.8	1291.5	1179.0	1068.9	984.3	924.2	884.0	860.5	832.3
10°	1523.1	1433.3	1258.9	1099.3	1006.7	938.3	863.8	799.4	749.8	707.4	684.3
12.5°	1442.8	1341.4	1145.3	1015.8	944.1	871.4	784.2	711.8	638.7	590.6	569.9
15°	1418.5	1311.4	1110.2	974.1	871.4	776.2	678.5	584.1	511.7	466.1	450.9
17.5°	1477.9	1348.3	1109.8	918.8	786.0	672.3	547.1	458.5	384.3	350.3	339.4
20°	1588.6	1419.2	1113.1	864.1	693.3	533.4	398.1	325.3	289.9	275.4	270.0
22.5°	1743.1	1527.4	1122.9	810.2	592.0	409.6	298.2	261.3	248.6	246.1	245.0
25°	1933.4	1661.3	1155.8	761.7	506.6	312.7	249.3	232.7	225.4	222.9	222.5
27.5°	2108.6	1834.3	1195.6	720.1	424.1	269.6	225.4	211.3	204.1	203.7	204.5
30°	2266.7	1979.0	1228.9	673.4	361.5	239.6	209.9	195.8	188.9	188.5	190.7
32.5°	2403.5	2098.1	1253.5	627.5	326.8	221.1	195.8	180.6	174.8	173.7	174.8
35°	2549.7	2216.8	1242.3	591.6	306.9	205.9	185.3	170.4	163.6	160.3	160.3
37.5°	2716.5	2339.1	1223.1	562.0	297.8	193.2	176.2	161.8	154.9	151.6	151.3
40°	2898.5	2461.4	1196.7	535.6	288.8	185.6	170.1	154.9	146.6	143.3	142.6
42.5°	3059.2	2566.0	1175.0	518.2	273.9	187.1	164.6	149.8	139.3	135.0	134.6
45°	3198.9	2671.3	1171.0	508.1	261.6	184.9	163.2	145.8	133.5	128.8	128.1
47.5°	3308.2	2780.9	1193.8	502.3	248.2	173.3	172.6	143.3	128.5	123.4	122.7
50°	3441.3	2936.5	1245.9	490.3	235.9	162.5	182.4	142.9	124.5	118.0	116.2
52.5°	3618.7	3139.2	1316.5	469.0	218.2	152.3	174.1	142.9	119.8	113.3	111.1
55°	3886.8	3397.6	1385.6	438.9	193.2	139.0	157.0	138.6	112.9	107.1	105.7
57.5°	4064.5	3586.4	1429.7	397.3	162.1	129.2	135.3	131.7	106.0	99.9	99.9
60°	4073.5	3637.1	1408.7	344.9	142.6	120.1	117.6	132.8	99.9	93.4	92.6
62.5°	3969.3	3513.0	1299.5	297.8	132.1	110.4	106.4	116.5	93.7	87.2	86.1
65°	3806.5	3196.4	1109.8	275.4	126.3	101.7	95.9	95.5	87.2	81.1	79.6
67.5°	3507.2	2793.2	911.9	262.4	123.4	91.9	86.5	84.7	79.6	74.5	73.8
70°	3066.1	2339.5	731.3	256.9	121.9	81.8	77.4	75.3	70.9	66.9	66.6
72.5°	2385.4	1897.6	603.6	253.3	121.2	72.4	67.7	64.8	62.2	58.6	58.6
75°	1713.4	1396.1	460.7	228.3	112.2	62.2	57.2	55.4	51.7	48.9	49.6
77.5°	1080.2	940.1	303.2	167.9	86.8	49.9	45.6	44.5	41.6	37.6	40.2
80°	729.5	661.1	177.0	105.7	54.6	36.5	35.1	34.7	31.5	27.1	27.5
82.5°	496.5	487.1	91.9	60.1	31.5	21.4	20.6	21.4	17.7	14.5	14.5
85°	194.0	264.9	43.4	23.5	10.1	3.3	4.7	5.1	2.9	1.4	1.8
87.5°	3.6	27.1	1.1	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°	1763.0	1763.0	1763.0	1763.0	1763.0	1763.0	1763.0	1763.0	1763.0	1763.0	1763.0
2.5°	1469.9	1466.6	1472.1	1448.9	1453.6	1462.3	1466.6	1469.2	1505.0	1496.7	1519.5
5°	1146.8	1143.5	1164.5	1167.4	1178.2	1176.1	1186.6	1189.1	1202.1	1206.8	1238.7
7.5°	834.1	848.2	872.1	884.4	902.9	908.6	903.2	916.6	889.5	909.0	914.8
10°	670.2	653.2	643.0	671.3	674.9	701.7	690.8	682.1	698.0	698.8	714.0
12.5°	558.0	521.4	497.2	505.2	513.8	525.4	527.2	544.6	556.2	567.0	576.1
15°	437.5	424.8	402.8	391.9	404.2	408.9	420.1	434.6	446.9	450.2	462.5
17.5°	335.8	338.0	334.4	327.8	335.4	339.1	339.8	340.2	343.4	341.2	359.3
20°	270.3	277.9	287.0	288.4	290.9	292.7	289.5	277.2	277.6	285.1	290.9
22.5°	244.6	246.1	256.2	259.5	267.4	264.2	254.8	249.0	248.2	250.0	252.9
25°	224.4	226.5	233.8	238.8	245.0	239.2	232.3	226.9	226.2	228.0	230.9
27.5°	206.3	209.5	216.0	221.1	226.9	221.5	214.9	210.2	209.9	209.5	211.3
30°	191.8	195.4	200.1	205.9	209.9	205.2	199.0	196.5	196.1	195.4	196.1
32.5°	177.3	183.1	187.8	190.7	194.7	191.1	186.4	184.9	182.4	180.2	179.1
35°	161.0	167.2	174.4	178.0	182.0	178.4	175.1	169.0	164.6	164.3	165.0
37.5°	151.6	154.2	159.9	166.1	170.1	168.3	162.1	156.0	154.9	154.9	155.6
40°	143.3	144.4	146.9	154.9	162.1	156.7	149.1	147.3	147.3	146.9	147.3
42.5°	135.0	136.1	136.1	142.2	153.8	145.1	139.3	139.3	139.3	139.7	140.8
45°	127.4	127.7	127.4	131.7	142.6	135.3	131.4	132.4	133.2	133.9	134.6
47.5°	120.9	121.2	120.9	124.5	129.9	127.0	124.8	126.3	127.7	128.8	129.5
50°	115.1	114.7	115.4	117.6	120.1	120.9	119.4	121.6	122.3	123.8	125.6
52.5°	110.0	109.6	110.4	111.5	115.1	115.1	115.1	116.9	118.3	119.8	122.3
55°	104.2	104.6	105.7	107.1	111.8	111.1	111.5	112.9	114.3	116.5	118.0
57.5°	98.8	99.5	101.0	103.1	107.8	107.5	107.8	108.6	110.4	111.5	112.9
60°	92.6	94.1	95.9	97.3	102.0	101.7	103.5	104.9	106.0	106.0	106.8
62.5°	86.5	88.7	90.5	91.6	96.6	97.0	99.5	100.6	101.3	100.6	101.7
65°	80.3	83.6	84.3	85.8	90.8	91.2	94.1	96.6	95.9	95.2	97.0
67.5°	74.2	78.2	77.8	79.6	84.7	85.4	87.9	92.3	90.8	90.1	91.6
70°	67.3	70.2	70.6	71.6	78.5	77.4	81.4	85.4	84.3	84.7	84.7
72.5°	59.7	62.2	62.2	64.4	71.6	69.8	73.1	77.4	77.4	77.1	77.1
75°	50.7	52.1	53.6	56.8	64.4	62.2	64.4	68.4	69.1	68.4	68.4
77.5°	40.9	43.1	43.8	48.1	53.6	53.2	55.4	57.2	58.6	57.9	57.9
80°	28.9	31.1	34.0	38.7	42.0	43.1	44.1	45.6	46.3	46.3	47.0
82.5°	16.3	19.5	22.1	26.8	28.2	33.7	33.3	34.4	33.3	29.3	32.6
85°	3.6	6.9	9.8	12.3	14.1	19.5	20.6	23.2	19.2	17.7	17.7
87.5°	0.0	0.0	0.0	0.0	0.0	2.9	5.8	8.0	6.9	5.8	5.8
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°	1763.0	1763.0	1763.0	1763.0	1763.0	1763.0	1763.0	1763.0	1763.0	1763.0
2.5°	1538.7	1570.1	1608.1	1673.6	1719.6	1769.2	1819.1	1872.3	1886.4	1900.9
5°	1247.3	1309.2	1342.9	1430.8	1523.1	1640.3	1736.2	1841.2	1885.0	1895.1
7.5°	944.8	986.8	1075.1	1164.1	1278.5	1401.5	1548.4	1712.0	1763.0	1784.4
10°	749.1	806.2	883.7	979.2	1079.4	1211.9	1377.6	1568.7	1641.1	1653.0
12.5°	637.6	701.3	785.6	886.6	981.4	1081.3	1248.4	1445.7	1523.1	1548.8
15°	509.9	586.9	684.3	790.7	893.8	1003.1	1172.4	1395.0	1484.4	1514.4
17.5°	400.6	462.8	568.1	683.6	805.9	944.1	1156.5	1419.2	1529.2	1557.1
20°	306.5	351.0	439.7	561.6	704.9	885.8	1160.5	1510.8	1642.5	1680.5
22.5°	264.9	287.7	341.6	457.8	618.1	835.2	1176.8	1636.4	1795.2	1858.5
25°	239.9	251.9	282.3	358.2	535.2	786.0	1214.1	1805.3	2008.7	2050.7
27.5°	218.6	227.3	246.1	300.7	459.9	740.4	1257.5	1992.8	2208.1	2270.7
30°	198.3	209.9	227.6	267.1	411.8	698.8	1312.1	2144.8	2376.0	2434.3
32.5°	182.7	194.3	210.6	243.5	370.9	655.0	1344.7	2278.3	2513.2	2562.7
35°	170.1	179.8	196.9	224.7	339.8	621.7	1338.2	2384.3	2646.0	2696.6
37.5°	161.0	169.4	186.4	207.0	316.3	586.9	1334.9	2524.4	2807.7	2866.3
40°	152.7	161.4	177.0	195.4	292.7	546.1	1336.7	2663.3	2980.0	3038.6
42.5°	146.2	156.0	168.6	192.2	268.5	513.1	1336.7	2784.2	3129.8	3186.2
45°	140.8	151.3	163.6	191.8	249.3	488.2	1327.7	2888.0	3249.2	3297.3
47.5°	136.1	147.6	165.4	185.3	244.6	470.1	1319.7	2971.3	3346.5	3391.8
50°	132.8	146.6	175.9	177.7	246.1	464.6	1358.1	3076.2	3432.3	3471.4
52.5°	130.3	146.9	175.5	166.5	243.5	468.3	1438.1	3240.1	3551.3	3554.2
55°	125.2	146.6	166.5	153.8	233.0	474.4	1540.8	3478.2	3737.7	3739.9
57.5°	120.1	142.6	154.5	142.9	211.7	474.4	1664.6	3703.7	3962.4	3964.2
60°	115.1	148.4	135.7	133.5	183.8	465.7	1795.2	3802.8	4033.0	4051.4
62.5°	110.0	149.5	121.2	125.2	163.6	444.7	1892.6	3693.2	3937.5	3963.9
65°	104.2	120.5	111.8	116.5	153.1	409.6	1861.8	3492.4	3758.0	3789.5
67.5°	97.3	102.0	101.7	107.5	149.5	357.9	1699.7	3238.3	3564.7	3562.9
70°	89.0	91.6	92.6	98.8	142.6	317.7	1416.3	2908.7	3306.7	3347.3
72.5°	80.3	82.5	83.6	89.0	135.7	294.9	1099.3	2454.5	2864.2	2927.5
75°	70.9	72.4	73.8	78.5	128.5	261.3	783.1	1873.7	2193.6	2293.1
77.5°	61.2	61.2	63.0	67.7	108.2	215.7	525.4	1314.3	1486.2	1587.9
80°	49.6	49.9	49.2	54.3	79.6	147.6	298.5	877.9	989.0	1008.5
82.5°	38.0	36.9	37.3	39.8	59.3	100.6	159.2	545.3	555.8	545.0
85°	23.9	23.9	23.2	26.1	38.0	52.5	86.8	334.0	260.9	248.2
87.5°	9.8	8.0	9.0	10.5	18.1	21.4	34.0	68.8	26.4	24.2
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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