

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: P450667

Luminaire Tested: **GALN-SA1C-727-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450667  
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-SA1C-727-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5128 lumens  
Efficiency: N/A  
Efficacy: 90.0 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

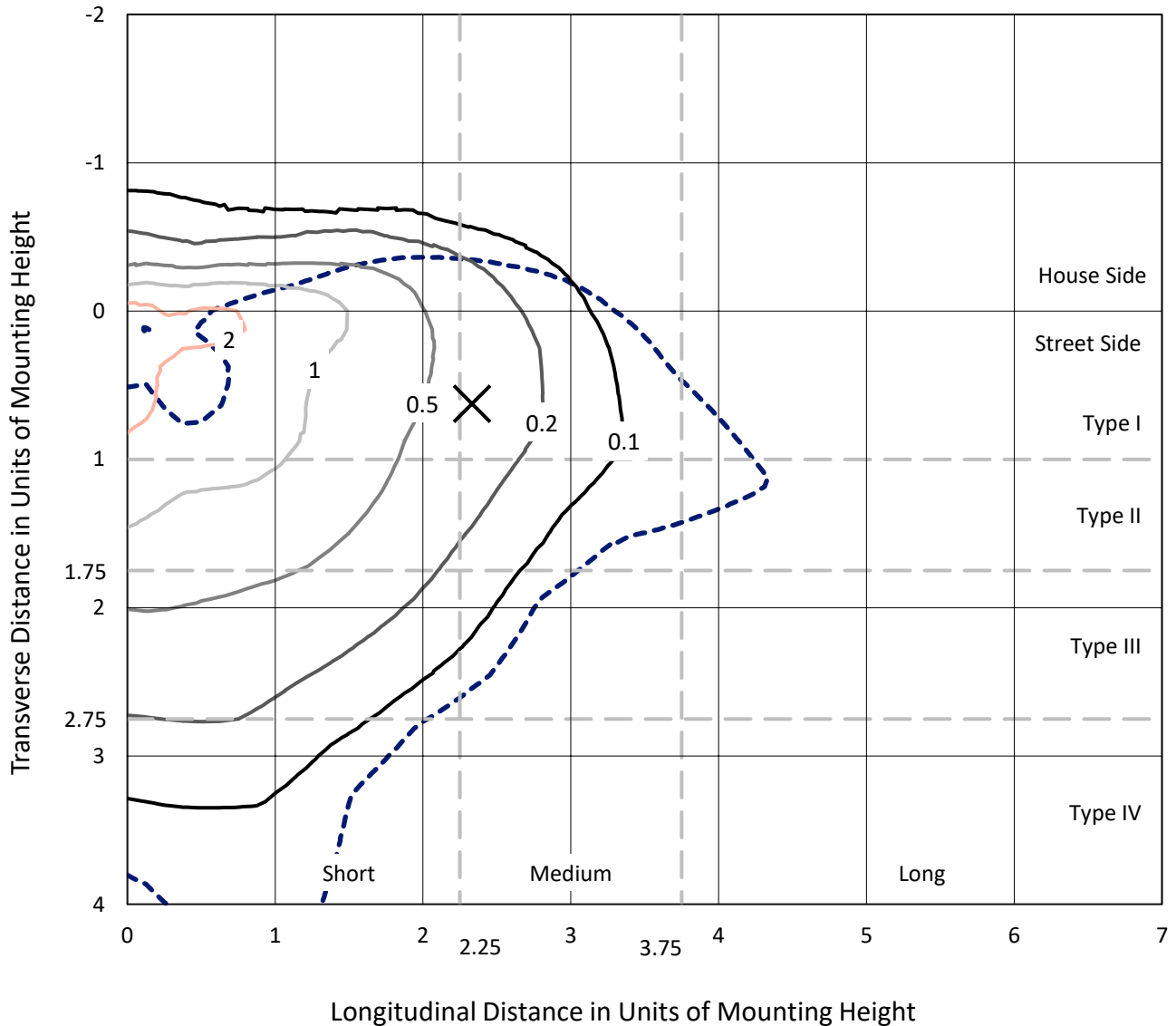
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

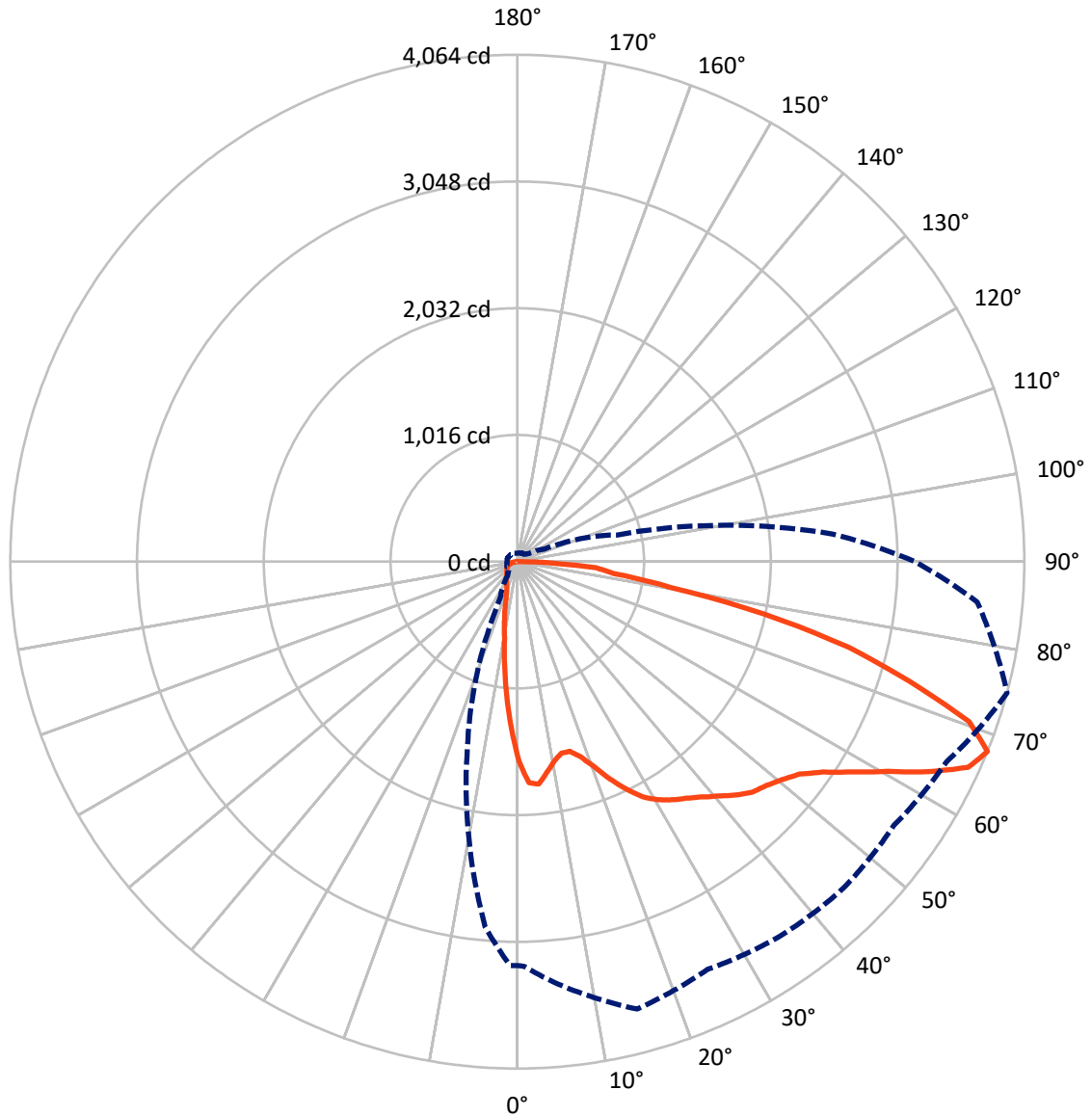
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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	866.7	0.0	866.7
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	4261.3	0.0	4261.3
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	5128.0	0.0	5128.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.5	2.4
10°-20°	253.4	4.9
20°-30°	364.7	7.1
30°-40°	525.2	10.2
40°-50°	737.8	14.4
50°-60°	1029.0	20.1
60°-70°	1223.4	23.9
70°-80°	720.5	14.1
80°-90°	152.4	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°	5128.0	100.0
0°-180°	5128.0	100.0

**Coefficient of Utilization**



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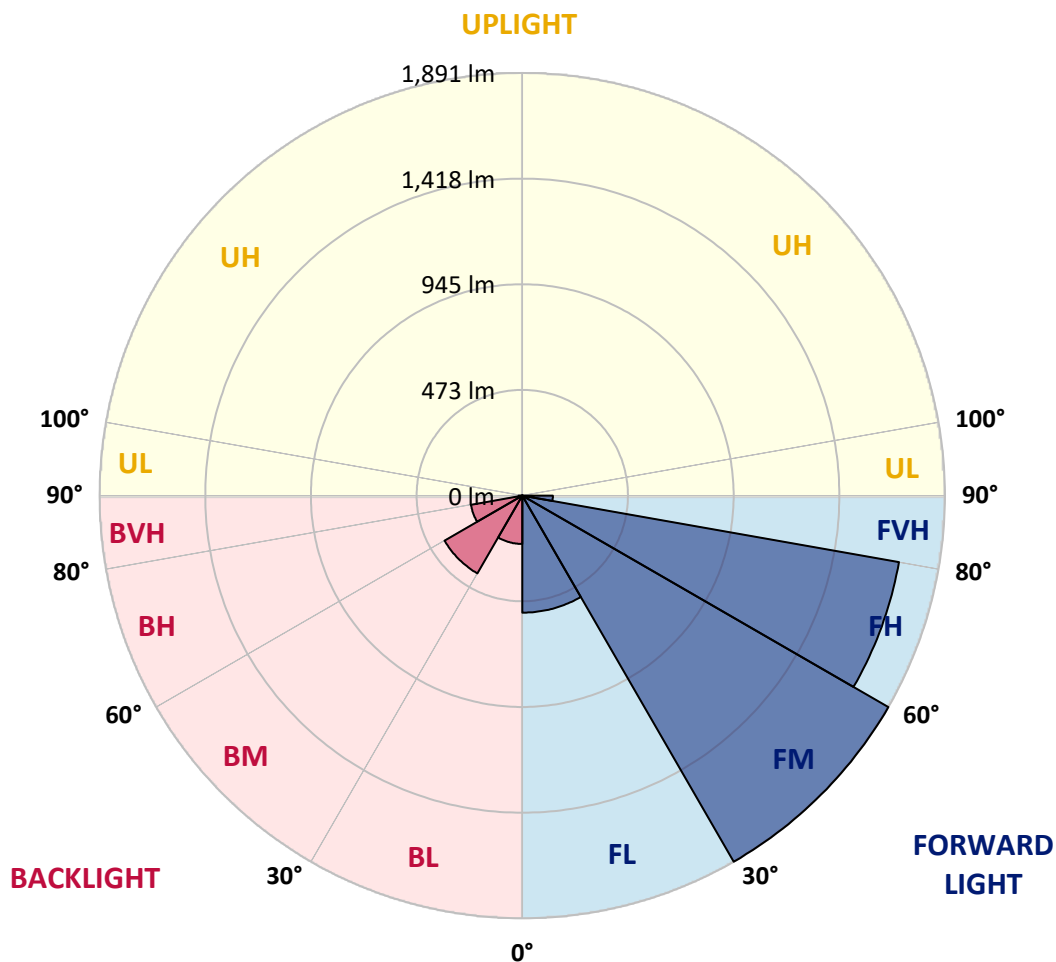
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	523.4	10.2			
FM	(30°-60°)	1890.5	36.9			
FH	(60°-80°)	1710.7	33.4			G1/1800
FVH	(80°-90°)	136.6	2.7			G2/225
BL	(0°-30°)	216.2	4.2	B1/500		
BM	(30°-60°)	401.6	7.8	B1/1000		
BH	(60°-80°)	233.2	4.5	B1/500		G1/500
BVH	(80°-90°)	15.8	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°	1602.1	1602.1	1602.1	1602.1	1602.1	1602.1	1602.1	1602.1	1602.1	1602.1	1602.1
2.5°	1727.4	1729.7	1744.5	1787.6	1817.2	1828.0	1835.6	1821.4	1807.6	1774.1	1723.5
5°	1722.1	1735.6	1774.1	1870.8	1947.1	1979.9	1989.8	1947.4	1877.3	1791.2	1687.6
7.5°	1621.5	1639.6	1698.8	1860.9	1995.4	2072.3	2062.2	1985.5	1859.3	1705.7	1561.0
10°	1502.1	1522.2	1593.6	1789.5	1962.8	2068.7	2068.7	1975.3	1807.6	1625.1	1458.4
12.5°	1407.4	1428.5	1510.0	1716.2	1895.1	1995.4	2012.2	1931.9	1770.5	1574.2	1391.0
15°	1376.2	1396.6	1484.4	1671.8	1823.4	1884.6	1890.2	1863.9	1752.4	1577.8	1388.0
17.5°	1415.0	1441.3	1530.1	1685.0	1757.6	1761.3	1765.5	1786.3	1754.4	1643.9	1447.9
20°	1527.1	1555.4	1648.1	1727.4	1700.1	1662.6	1664.9	1718.2	1777.7	1753.0	1590.9
22.5°	1688.9	1713.6	1808.6	1802.0	1675.8	1598.5	1582.4	1656.7	1812.2	1889.2	1743.2
25°	1863.5	1892.5	2001.6	1912.9	1682.7	1560.3	1550.2	1620.5	1848.1	2016.4	1919.1
27.5°	2063.5	2091.8	2177.9	2024.7	1718.8	1557.4	1545.2	1617.2	1880.3	2134.2	2087.1
30°	2212.1	2238.1	2296.6	2118.7	1763.2	1577.1	1562.0	1643.2	1907.9	2214.7	2250.9
32.5°	2328.8	2355.8	2387.7	2177.2	1821.8	1613.0	1585.0	1690.6	1944.1	2276.2	2372.3
35°	2450.5	2482.4	2480.1	2229.2	1876.4	1654.4	1627.1	1759.0	2001.0	2329.8	2526.1
37.5°	2604.7	2617.6	2601.1	2275.9	1941.8	1729.0	1713.9	1860.6	2081.9	2394.6	2706.0
40°	2761.3	2786.9	2702.4	2332.5	2021.4	1869.5	1867.8	2010.9	2177.9	2470.6	2880.3
42.5°	2895.4	2917.1	2797.1	2381.8	2117.7	2040.8	2053.3	2212.4	2303.9	2558.7	3020.4
45°	2996.4	3015.8	2884.6	2429.5	2244.7	2238.7	2312.4	2428.5	2462.7	2638.0	3102.6
47.5°	3082.2	3101.0	2945.4	2501.8	2401.5	2475.2	2603.4	2653.7	2598.5	2683.3	3194.7
50°	3154.6	3160.2	2987.2	2588.0	2596.2	2764.9	2889.2	2921.7	2732.7	2748.4	3274.6
52.5°	3229.9	3222.6	3059.2	2696.5	2806.6	3039.8	3130.2	3164.1	2861.2	2828.7	3391.0
55°	3398.6	3405.5	3220.7	2833.3	3019.4	3309.8	3428.8	3396.3	3003.6	2976.3	3539.0
57.5°	3602.4	3596.5	3447.9	3047.4	3236.1	3561.0	3649.8	3597.5	3193.7	3179.2	3688.9
60°	3681.7	3689.6	3638.0	3277.5	3449.9	3781.0	3871.8	3790.5	3421.6	3415.0	3802.0
62.5°	3602.1	3646.5	3681.4	3482.4	3632.0	3942.8	4032.9	3940.2	3659.3	3707.0	3881.3
65°	3443.6	3453.1	3571.9	3656.0	3719.8	3969.4	4016.5	3967.1	3858.0	3973.0	3877.7
67.5°	3237.8	3246.0	3385.1	3712.9	3606.7	3666.9	3699.8	3685.3	3796.5	4064.1	3699.1
70°	3041.8	3035.2	3182.2	3567.9	3139.8	3048.3	3075.6	3030.3	3275.9	3841.5	3348.9
72.5°	2660.3	2684.0	2841.8	3164.8	2486.0	2337.4	2396.9	2279.5	2519.6	3290.0	2718.2
75°	2083.9	2089.4	2352.9	2656.0	1875.4	1640.9	1721.5	1672.5	1930.0	2744.5	1877.0
77.5°	1442.9	1430.5	1713.6	2028.6	1337.4	1201.3	1202.6	1179.2	1347.6	2020.7	1275.2
80°	916.5	897.4	1072.7	1253.2	919.1	983.2	951.0	950.0	877.3	1246.6	771.1
82.5°	495.2	516.3	677.7	785.6	659.3	759.9	696.5	676.1	602.1	780.3	493.3
85°	225.6	245.3	361.4	534.4	500.8	506.4	338.4	399.2	498.2	633.7	263.4
87.5°	22.0	28.3	74.6	252.2	171.0	134.8	50.3	97.0	125.3	225.3	21.0
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°	1602.1	1602.1	1602.1	1602.1	1602.1	1602.1	1602.1	1602.1	1602.1	1602.1	1602.1
2.5°	1702.7	1685.6	1627.4	1579.4	1528.4	1489.6	1439.0	1405.1	1381.8	1346.6	1342.3
5°	1624.5	1582.7	1481.4	1378.2	1289.1	1222.0	1153.9	1091.4	1054.6	1043.1	1028.3
7.5°	1492.6	1422.2	1292.0	1173.6	1071.4	971.4	894.4	839.9	803.4	782.0	756.3
10°	1384.1	1302.5	1144.0	999.0	914.8	852.7	784.9	726.4	681.4	642.9	621.8
12.5°	1311.1	1219.0	1040.8	923.1	857.9	791.8	712.6	646.8	580.4	536.7	517.9
15°	1289.1	1191.7	1008.9	885.2	791.8	705.4	616.6	530.7	465.0	423.5	409.7
17.5°	1343.0	1225.3	1008.6	834.9	714.2	611.0	497.2	416.6	349.2	318.3	308.5
20°	1443.6	1289.7	1011.5	785.3	630.1	484.7	361.7	295.6	263.4	250.2	245.3
22.5°	1584.0	1388.0	1020.4	736.3	538.0	372.2	271.0	237.4	225.9	223.6	222.6
25°	1757.0	1509.7	1050.3	692.2	460.4	284.1	226.6	211.4	204.9	202.6	202.2
27.5°	1916.2	1666.9	1086.5	654.4	385.4	245.0	204.9	192.0	185.5	185.1	185.8
30°	2059.9	1798.4	1116.7	612.0	328.5	217.7	190.7	177.9	171.7	171.3	173.3
32.5°	2184.2	1906.6	1139.1	570.2	296.9	200.9	177.9	164.1	158.8	157.8	158.8
35°	2317.0	2014.5	1128.9	537.7	278.9	187.1	168.4	154.9	148.6	145.7	145.7
37.5°	2468.6	2125.6	1111.5	510.7	270.6	175.6	160.1	147.0	140.7	137.8	137.5
40°	2634.0	2236.8	1087.5	486.7	262.4	168.7	154.6	140.7	133.2	130.2	129.6
42.5°	2780.0	2331.8	1067.7	470.9	248.9	170.0	149.6	136.1	126.6	122.7	122.3
45°	2906.9	2427.5	1064.1	461.7	237.8	168.0	148.3	132.5	121.3	117.1	116.4
47.5°	3006.3	2527.1	1084.8	456.4	225.6	157.5	156.9	130.2	116.7	112.1	111.5
50°	3127.3	2668.5	1132.2	445.6	214.4	147.6	165.7	129.9	113.1	107.2	105.6
52.5°	3288.4	2852.7	1196.3	426.2	198.3	138.4	158.2	129.9	108.8	102.9	101.0
55°	3532.1	3087.5	1259.1	398.9	175.6	126.3	142.7	125.9	102.6	97.3	96.0
57.5°	3693.5	3259.1	1299.2	361.1	147.3	117.4	123.0	119.7	96.4	90.8	90.8
60°	3701.8	3305.2	1280.2	313.4	129.6	109.2	106.9	120.7	90.8	84.8	84.2
62.5°	3607.0	3192.4	1180.9	270.6	120.0	100.3	96.7	105.9	85.2	79.3	78.3
65°	3459.1	2904.6	1008.6	250.2	114.8	92.4	87.1	86.8	79.3	73.7	72.3
67.5°	3187.1	2538.3	828.7	238.4	112.1	83.5	78.6	76.9	72.3	67.7	67.1
70°	2786.3	2126.0	664.6	233.5	110.8	74.3	70.4	68.4	64.5	60.8	60.5
72.5°	2167.7	1724.4	548.5	230.2	110.2	65.8	61.5	58.9	56.6	53.3	53.3
75°	1557.1	1268.7	418.6	207.5	101.9	56.6	52.0	50.3	47.0	44.4	45.1
77.5°	981.6	854.3	275.6	152.6	78.9	45.4	41.4	40.4	37.8	34.2	36.5
80°	662.9	600.8	160.8	96.0	49.7	33.2	31.9	31.6	28.6	24.7	25.0
82.5°	451.2	442.6	83.5	54.6	28.6	19.4	18.7	19.4	16.1	13.2	13.2
85°	176.3	240.7	39.5	21.4	9.2	3.0	4.3	4.6	2.6	1.3	1.6
87.5°	3.3	24.7	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°	1602.1	1602.1	1602.1	1602.1	1602.1	1602.1	1602.1	1602.1	1602.1	1602.1	1602.1
2.5°	1335.7	1332.8	1337.7	1316.7	1321.0	1328.8	1332.8	1335.1	1367.6	1360.1	1380.8
5°	1042.1	1039.1	1058.2	1060.8	1070.7	1068.7	1078.3	1080.6	1092.4	1096.7	1125.6
7.5°	758.0	770.8	792.5	803.7	820.5	825.7	820.8	833.0	808.3	826.0	831.3
10°	609.0	593.6	584.3	610.0	613.3	637.6	627.8	619.9	634.3	635.0	648.8
12.5°	507.1	473.9	451.8	459.1	467.0	477.5	479.1	494.9	505.4	515.3	523.5
15°	397.6	386.1	366.0	356.1	367.3	371.6	381.8	394.9	406.1	409.1	420.3
17.5°	305.2	307.1	303.8	297.9	304.8	308.1	308.8	309.1	312.1	310.1	326.5
20°	245.6	252.5	260.8	262.1	264.4	266.0	263.1	251.9	252.2	259.1	264.4
22.5°	222.3	223.6	232.8	235.8	243.0	240.1	231.5	226.2	225.6	227.2	229.9
25°	203.9	205.9	212.4	217.0	222.6	217.4	211.1	206.2	205.5	207.2	209.8
27.5°	187.4	190.4	196.3	200.9	206.2	201.3	195.3	191.1	190.7	190.4	192.0
30°	174.3	177.6	181.8	187.1	190.7	186.5	180.9	178.6	178.2	177.6	178.2
32.5°	161.1	166.4	170.7	173.3	176.9	173.6	169.4	168.0	165.7	163.8	162.8
35°	146.3	151.9	158.5	161.8	165.4	162.1	159.2	153.6	149.6	149.3	150.0
37.5°	137.8	140.1	145.3	150.9	154.6	152.9	147.3	141.7	140.7	140.7	141.4
40°	130.2	131.2	133.5	140.7	147.3	142.4	135.5	133.8	133.8	133.5	133.8
42.5°	122.7	123.6	123.6	129.2	139.8	131.9	126.6	126.6	126.6	126.9	127.9
45°	115.8	116.1	115.8	119.7	129.6	123.0	119.4	120.4	121.0	121.7	122.3
47.5°	109.8	110.2	109.8	113.1	118.1	115.4	113.4	114.8	116.1	117.1	117.7
50°	104.6	104.2	104.9	106.9	109.2	109.8	108.5	110.5	111.1	112.5	114.1
52.5°	100.0	99.6	100.3	101.3	104.6	104.6	104.6	106.2	107.5	108.8	111.1
55°	94.7	95.0	96.0	97.3	101.6	101.0	101.3	102.6	103.9	105.9	107.2
57.5°	89.8	90.4	91.7	93.7	98.0	97.7	98.0	98.7	100.3	101.3	102.6
60°	84.2	85.5	87.1	88.5	92.7	92.4	94.0	95.4	96.4	96.4	97.0
62.5°	78.6	80.6	82.2	83.2	87.8	88.1	90.4	91.4	92.1	91.4	92.4
65°	73.0	76.0	76.6	77.9	82.5	82.9	85.5	87.8	87.1	86.5	88.1
67.5°	67.4	71.0	70.7	72.3	76.9	77.6	79.9	83.9	82.5	81.9	83.2
70°	61.2	63.8	64.1	65.1	71.4	70.4	74.0	77.6	76.6	76.9	76.9
72.5°	54.3	56.6	56.6	58.5	65.1	63.5	66.4	70.4	70.4	70.0	70.0
75°	46.0	47.4	48.7	51.6	58.5	56.6	58.5	62.2	62.8	62.2	62.2
77.5°	37.2	39.1	39.8	43.7	48.7	48.3	50.3	52.0	53.3	52.6	52.6
80°	26.3	28.3	30.9	35.2	38.1	39.1	40.1	41.4	42.1	42.1	42.7
82.5°	14.8	17.8	20.1	24.3	25.6	30.6	30.3	31.2	30.3	26.6	29.6
85°	3.3	6.2	8.9	11.2	12.8	17.8	18.7	21.0	17.4	16.1	16.1
87.5°	0.0	0.0	0.0	0.0	0.0	2.6	5.3	7.2	6.2	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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1602.1	1602.1	1602.1	1602.1	1602.1	1602.1	1602.1	1602.1	1602.1	1602.1
2.5°	1398.2	1426.8	1461.4	1520.9	1562.6	1607.7	1653.1	1701.4	1714.2	1727.4
5°	1133.5	1189.7	1220.3	1300.2	1384.1	1490.6	1577.8	1673.1	1712.9	1722.1
7.5°	858.6	896.7	977.0	1057.9	1161.8	1273.6	1407.1	1555.7	1602.1	1621.5
10°	680.7	732.7	803.0	889.8	980.9	1101.3	1251.9	1425.5	1491.3	1502.1
12.5°	579.4	637.3	713.9	805.7	891.8	982.6	1134.5	1313.7	1384.1	1407.4
15°	463.3	533.4	621.8	718.5	812.2	911.5	1065.4	1267.7	1348.9	1376.2
17.5°	364.0	420.6	516.3	621.2	732.3	857.9	1051.0	1289.7	1389.7	1415.0
20°	278.5	319.0	399.5	510.4	640.6	805.0	1054.6	1372.9	1492.6	1527.1
22.5°	240.7	261.4	310.4	416.0	561.7	759.0	1069.4	1487.0	1631.4	1688.9
25°	218.0	228.9	256.5	325.6	486.4	714.2	1103.3	1640.6	1825.4	1863.5
27.5°	198.6	206.5	223.6	273.3	418.0	672.8	1142.7	1810.9	2006.6	2063.5
30°	180.2	190.7	206.8	242.7	374.2	635.0	1192.4	1949.0	2159.2	2212.1
32.5°	166.1	176.6	191.4	221.3	337.1	595.2	1222.0	2070.4	2283.8	2328.8
35°	154.6	163.4	178.9	204.2	308.8	564.9	1216.1	2166.7	2404.5	2450.5
37.5°	146.3	153.9	169.4	188.1	287.4	533.4	1213.1	2294.0	2551.5	2604.7
40°	138.8	146.7	160.8	177.6	266.0	496.2	1214.7	2420.3	2708.0	2761.3
42.5°	132.9	141.7	153.2	174.6	244.0	466.3	1214.7	2530.1	2844.1	2895.4
45°	127.9	137.5	148.6	174.3	226.6	443.6	1206.5	2624.5	2952.7	2996.4
47.5°	123.6	134.2	150.3	168.4	222.3	427.2	1199.3	2700.1	3041.1	3082.2
50°	120.7	133.2	159.8	161.5	223.6	422.2	1234.1	2795.5	3119.0	3154.6
52.5°	118.4	133.5	159.5	151.3	221.3	425.5	1306.8	2944.4	3227.2	3229.9
55°	113.8	133.2	151.3	139.8	211.8	431.1	1400.2	3160.8	3396.6	3398.6
57.5°	109.2	129.6	140.4	129.9	192.4	431.1	1512.7	3365.7	3600.8	3602.4
60°	104.6	134.8	123.3	121.3	167.1	423.2	1631.4	3455.8	3664.9	3681.7
62.5°	100.0	135.8	110.2	113.8	148.6	404.1	1719.8	3356.1	3578.1	3602.1
65°	94.7	109.5	101.6	105.9	139.1	372.2	1691.9	3173.6	3415.0	3443.6
67.5°	88.5	92.7	92.4	97.7	135.8	325.2	1544.6	2942.8	3239.4	3237.8
70°	80.9	83.2	84.2	89.8	129.6	288.7	1287.1	2643.2	3004.9	3041.8
72.5°	73.0	75.0	76.0	80.9	123.3	268.0	999.0	2230.5	2602.8	2660.3
75°	64.5	65.8	67.1	71.4	116.7	237.4	711.6	1702.7	1993.4	2083.9
77.5°	55.6	55.6	57.2	61.5	98.3	196.0	477.5	1194.3	1350.5	1442.9
80°	45.1	45.4	44.7	49.3	72.3	134.2	271.3	797.8	898.7	916.5
82.5°	34.5	33.5	33.9	36.2	53.9	91.4	144.7	495.6	505.1	495.2
85°	21.7	21.7	21.0	23.7	34.5	47.7	78.9	303.5	237.1	225.6
87.5°	8.9	7.2	8.2	9.5	16.4	19.4	30.9	62.5	24.0	22.0
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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