

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: P527146

Luminaire Tested: **GALN-SA2A-827-U-SLR-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527146  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2A-827-U-SLR-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5035 lumens  
Efficiency: N/A  
Efficacy: 79.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

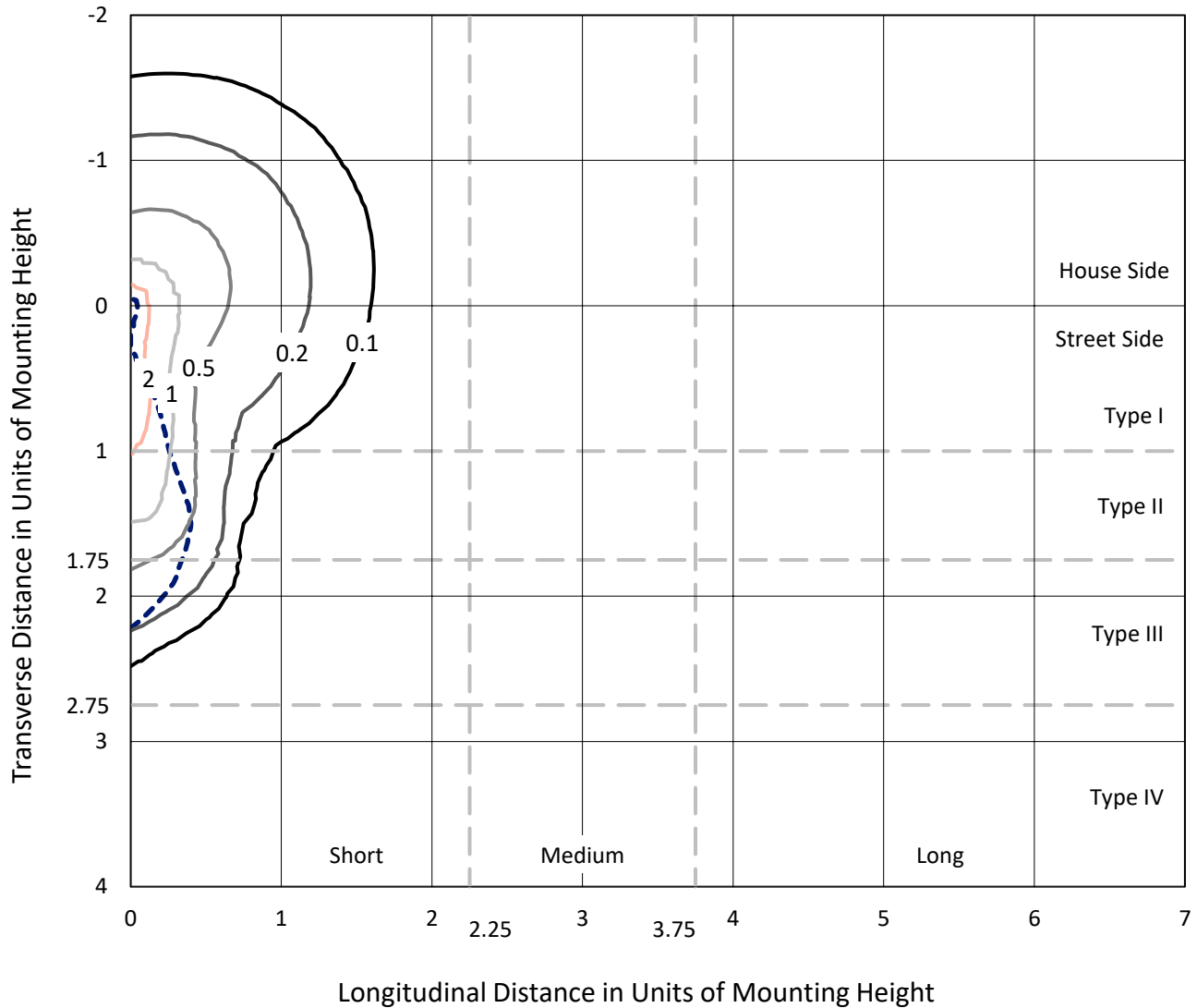
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

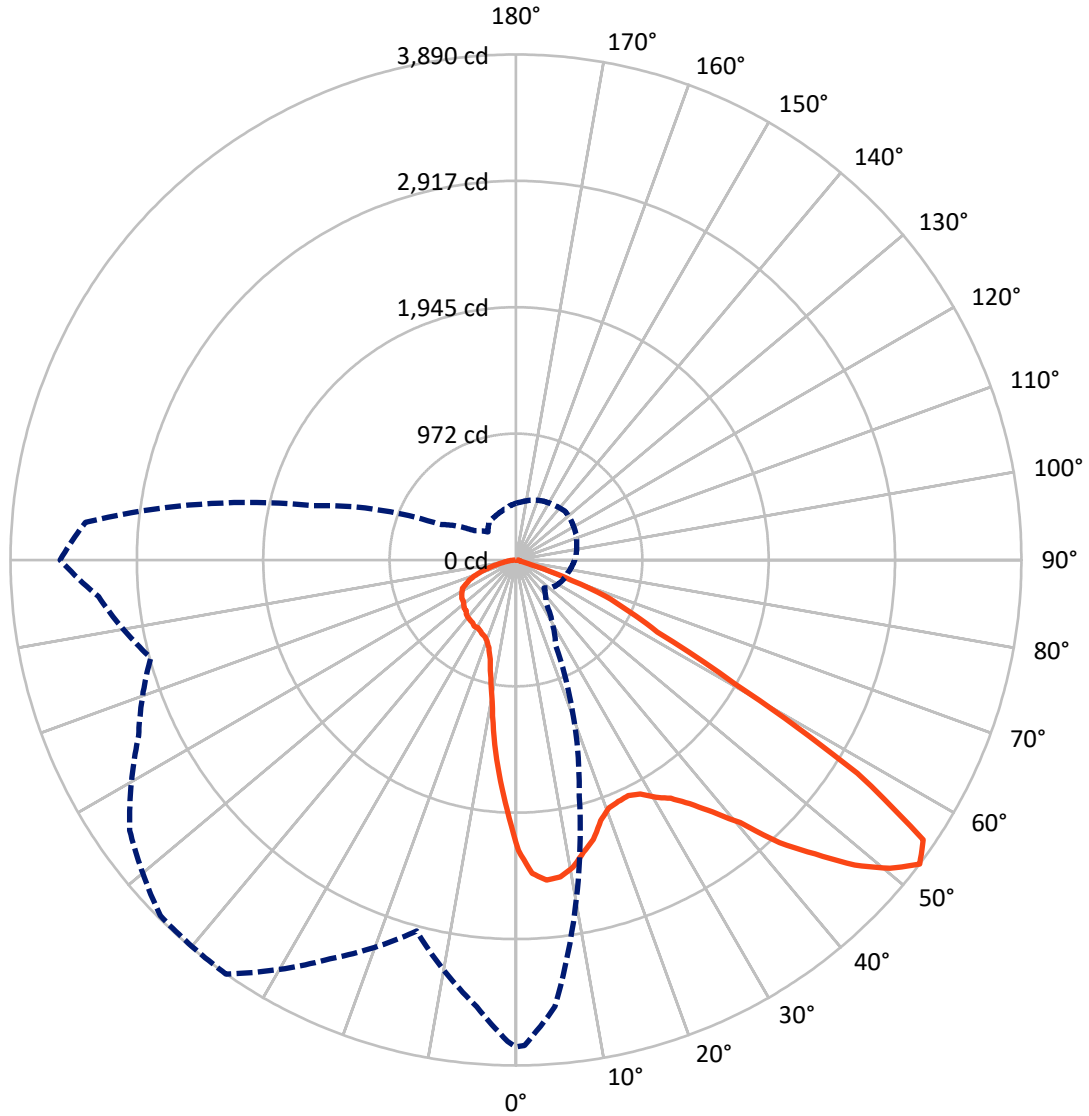
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1517.8	0.0	1517.8
	% Fixture	30.1	0.0	30.1
<b>Street Side</b>	Lumens	3517.2	0.0	3517.2
	% Fixture	69.9	0.0	69.9
<b>Total</b>	Lumens	5035.0	0.0	5035.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.5	3.4
10°-20°	369.6	7.3
20°-30°	558.4	11.1
30°-40°	806.9	16.0
40°-50°	1073.8	21.3
50°-60°	1201.1	23.9
60°-70°	676.9	13.4
70°-80°	150.9	3.0
80°-90°	26.9	0.5
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°	5035.0	100.0
0°-180°	5035.0	100.0

**Coefficient of Utilization**



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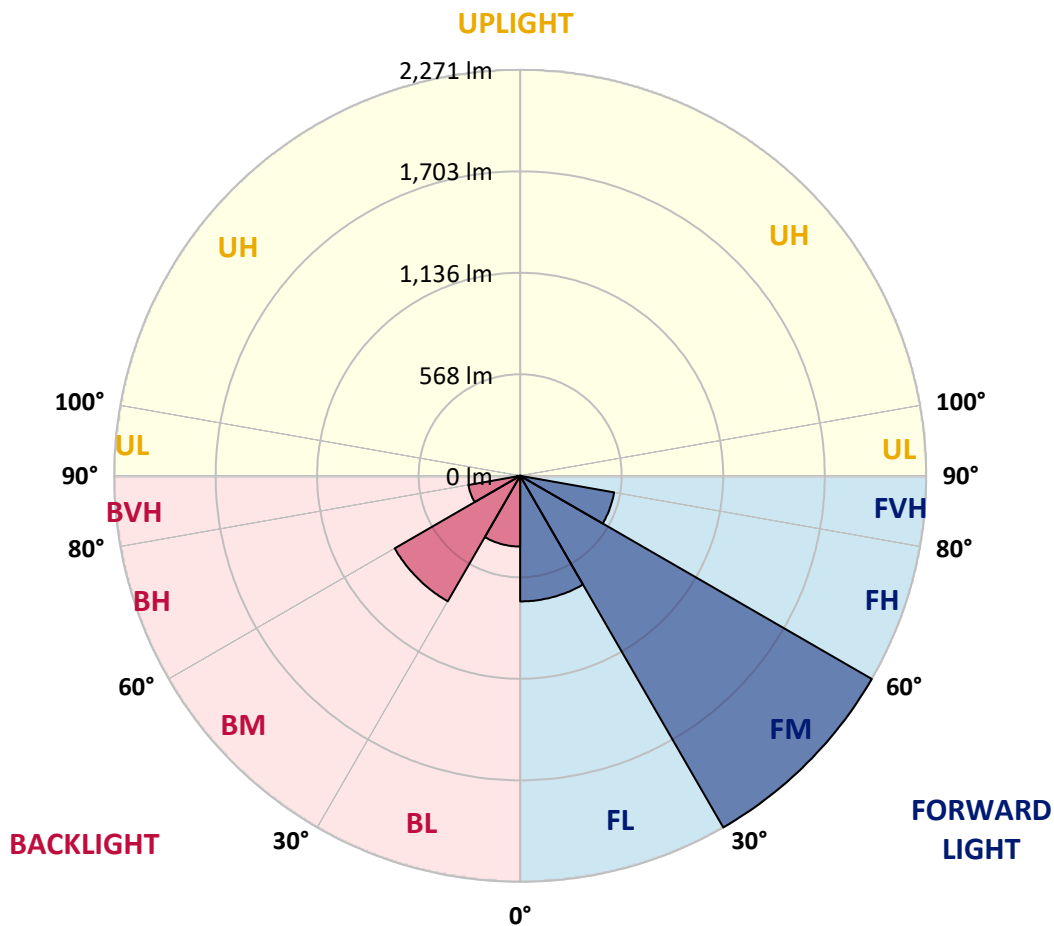
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	702.6	14.0			
FM (30°-60°)	2271.2	45.1			
FH (60°-80°)	533.6	10.6			G0/660
FVH (80°-90°)	9.7	0.2			G0/10
BL (0°-30°)	395.8	7.9	B1/500		
BM (30°-60°)	810.7	16.1	B1/1000		
BH (60°-80°)	294.2	5.8	B1/500		G1/500
BVH (80°-90°)	17.1	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-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2234.6	2234.6	2234.6	2234.6	2234.6	2234.6	2234.6	2234.6	2234.6	2234.6	2234.6
2.5°	2271.8	2308.3	2268.9	2198.8	2149.2	2103.9	2056.5	2047.0	1985.0	1974.0	1928.8
5°	2142.6	2134.6	2086.4	1994.5	1893.0	1801.1	1733.2	1667.5	1623.0	1571.2	1567.6
7.5°	1985.7	1939.0	1911.3	1771.9	1646.4	1501.9	1439.8	1339.9	1308.5	1261.8	1237.7
10°	1845.6	1811.3	1746.3	1607.0	1431.8	1336.2	1269.8	1215.8	1179.3	1131.1	1070.6
12.5°	1776.3	1762.4	1689.4	1473.4	1343.5	1241.3	1194.6	1142.1	1080.1	1002.7	972.8
15°	1788.7	1742.0	1686.5	1447.9	1268.3	1169.8	1095.4	1029.7	950.2	876.5	833.4
17.5°	1881.4	1845.6	1734.7	1463.9	1239.9	1097.6	962.6	865.5	794.0	727.6	697.7
20°	2063.8	2012.0	1887.2	1484.4	1178.6	996.9	842.2	722.5	645.8	610.8	600.6
22.5°	2265.9	2235.3	2036.1	1530.3	1129.7	903.5	714.4	594.8	566.3	556.8	575.8
25°	2511.9	2432.3	2267.4	1605.5	1091.7	823.9	606.4	540.0	525.4	534.9	556.8
27.5°	2698.7	2677.5	2429.4	1676.3	1039.9	728.3	545.9	502.1	506.5	515.9	536.4
30°	2920.6	2813.3	2586.3	1725.2	993.2	662.6	503.5	491.9	496.2	512.3	522.5
32.5°	3054.1	3014.0	2684.8	1798.9	939.2	605.7	470.7	459.8	466.3	490.4	514.5
35°	3224.1	3144.6	2806.7	1817.9	901.3	583.1	447.4	439.3	454.6	471.4	498.4
37.5°	3422.6	3367.9	2975.3	1804.7	880.8	559.7	427.6	424.0	434.9	458.3	489.7
40°	3540.1	3523.3	3063.6	1812.8	848.7	539.3	405.0	409.4	432.0	450.3	480.9
42.5°	3653.2	3543.8	3194.2	1809.8	828.3	511.6	407.2	402.1	419.6	440.8	470.0
45°	3678.1	3569.3	3224.9	1789.4	803.5	484.6	390.4	392.6	413.8	440.1	459.0
47.5°	3662.0	3581.7	3281.8	1783.6	780.1	465.6	365.6	391.9	404.3	425.5	452.5
50°	3651.1	3646.7	3330.0	1811.3	748.7	435.7	335.7	382.4	394.8	416.0	445.2
52.5°	3747.4	3737.9	3450.4	1884.3	723.9	403.6	305.0	358.3	388.2	408.7	437.1
55°	3805.8	3764.2	3656.9	1974.0	682.3	361.2	283.9	328.4	372.2	390.4	419.6
57.5°	3423.4	3394.9	3308.1	1842.7	612.3	305.8	257.6	297.7	350.3	378.8	408.7
60°	2848.3	2803.8	2581.2	1566.1	451.7	237.9	241.6	273.7	344.5	355.4	390.4
62.5°	2685.6	2575.4	2272.5	1260.3	346.6	204.3	216.7	251.8	313.8	332.0	367.1
65°	2130.9	2049.2	1625.9	910.0	232.1	177.3	197.8	227.0	270.7	306.5	338.6
67.5°	1334.0	1255.9	867.7	430.6	162.0	151.8	176.6	207.3	243.0	275.1	310.9
70°	696.9	611.5	400.6	155.4	111.7	124.1	147.4	176.6	211.6	237.9	265.6
72.5°	259.8	210.9	130.6	67.1	77.4	94.9	119.7	140.8	165.7	197.8	213.1
75°	40.1	34.3	33.6	40.9	52.5	68.6	85.4	106.5	128.4	148.9	159.1
77.5°	19.0	18.2	20.4	27.0	35.0	48.9	62.0	82.5	100.0	113.1	119.0
80°	12.4	11.7	13.1	18.2	26.3	36.5	49.6	63.5	79.5	90.5	89.0
82.5°	7.3	8.0	8.0	12.4	18.2	26.3	35.8	48.2	59.1	68.6	62.8
85°	4.4	3.6	3.6	7.3	12.4	21.2	29.9	20.4	21.2	21.2	24.1
87.5°	1.5	1.5	1.5	0.7	1.5	1.5	2.2	3.6	4.4	5.1	6.6
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2234.6	2234.6	2234.6	2234.6	2234.6	2234.6	2234.6	2234.6	2234.6	2234.6	2234.6
2.5°	1927.3	1950.0	1941.9	1913.5	1935.4	1939.0	1924.4	1974.8	1984.3	1968.9	1973.3
5°	1562.4	1568.3	1581.4	1609.1	1628.9	1652.2	1652.2	1653.7	1634.0	1683.6	1669.0
7.5°	1217.3	1220.9	1236.2	1295.3	1312.1	1356.6	1375.6	1362.5	1323.1	1306.3	1320.2
10°	1050.9	1029.7	1024.6	1031.9	1069.8	1088.8	1104.9	1100.5	1093.9	1080.8	1066.2
12.5°	939.9	924.6	912.2	894.7	896.9	915.1	927.5	917.3	920.2	923.2	927.5
15°	819.5	808.6	802.0	775.7	772.8	785.2	789.6	795.5	806.4	807.1	802.0
17.5°	691.8	682.3	696.9	711.5	701.3	702.0	710.1	715.2	712.3	699.1	692.6
20°	604.3	614.5	629.1	642.9	653.9	660.4	663.4	655.3	645.8	618.8	618.1
22.5°	578.7	591.8	604.3	625.4	635.6	652.4	637.1	618.8	605.7	592.6	577.3
25°	559.7	570.7	595.5	603.5	623.2	637.1	626.1	607.9	585.3	566.3	554.6
27.5°	545.9	558.3	574.3	596.2	611.5	619.6	608.6	601.3	578.0	555.4	538.6
30°	537.1	550.2	579.4	597.7	610.8	617.4	598.4	589.7	572.9	553.9	539.3
32.5°	531.3	543.0	567.8	591.1	599.9	599.9	602.8	592.6	569.2	537.1	524.7
35°	512.3	528.4	548.8	575.8	591.8	601.3	586.7	575.1	559.7	526.9	504.3
37.5°	501.4	512.3	538.6	564.1	578.0	588.2	582.4	561.9	541.5	514.5	496.2
40°	489.7	507.2	530.5	554.6	570.0	580.2	575.8	551.7	526.9	501.4	488.9
42.5°	481.6	493.3	517.4	544.4	562.7	582.4	569.2	539.3	521.8	486.8	472.9
45°	475.1	494.1	519.6	530.5	549.5	570.0	546.6	528.4	507.9	482.4	470.7
47.5°	467.1	484.6	501.4	530.5	539.3	548.8	544.4	515.2	497.7	470.0	461.9
50°	464.1	470.7	501.4	517.4	529.8	539.3	527.6	505.7	488.9	460.5	443.0
52.5°	452.5	464.9	484.6	505.7	521.1	532.7	513.8	499.9	477.3	447.4	436.4
55°	437.9	445.2	480.2	502.1	510.1	518.1	510.8	488.2	464.9	434.2	423.3
57.5°	418.9	435.7	464.1	494.8	505.0	509.4	497.7	479.5	450.3	423.3	405.8
60°	399.2	416.7	448.1	472.9	483.1	499.2	481.6	470.7	437.1	407.2	388.2
62.5°	379.5	399.2	422.5	453.9	462.7	469.2	464.9	449.5	422.5	389.0	365.6
65°	356.1	370.7	399.9	416.0	421.8	437.1	421.8	416.0	391.9	359.8	340.1
67.5°	321.1	333.5	359.0	374.4	378.8	385.3	384.6	378.0	351.0	329.1	311.6
70°	281.0	291.9	308.0	326.2	328.4	336.4	329.1	327.7	310.2	280.2	270.7
72.5°	225.5	235.7	256.9	264.9	265.6	268.6	264.9	259.8	255.4	224.0	214.6
75°	173.0	178.8	189.0	196.3	196.3	200.0	197.8	192.7	181.0	161.3	151.8
77.5°	120.4	126.3	139.4	143.8	143.0	144.5	137.9	132.8	115.3	105.1	97.1
80°	87.6	91.2	97.8	100.7	101.4	103.6	95.6	91.2	81.0	69.3	65.7
82.5°	63.5	65.7	66.4	70.1	70.1	66.4	64.2	59.8	52.5	45.2	42.3
85°	26.3	27.0	27.7	32.1	32.8	39.4	36.5	34.3	29.9	25.5	23.4
87.5°	6.6	7.3	9.5	8.0	9.5	9.5	10.2	11.7	11.7	9.5	9.5
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°	2234.6	2234.6	2234.6	2234.6	2234.6	2234.6	2234.6	2234.6	2234.6	2234.6	2234.6
2.5°	1990.1	1995.9	2070.4	2079.9	2116.3	2153.6	2228.7	2282.7	2326.5	2355.0	2363.0
5°	1684.3	1721.5	1755.8	1811.3	1861.7	1933.2	2015.6	2117.8	2246.2	2311.9	2338.2
7.5°	1318.7	1362.5	1412.1	1466.1	1539.8	1668.3	1778.5	1896.7	2060.9	2128.7	2231.6
10°	1076.4	1125.3	1191.0	1232.6	1321.6	1444.2	1572.7	1709.1	1866.0	1963.8	2082.8
12.5°	951.6	991.8	1052.3	1139.9	1206.3	1285.9	1381.5	1553.7	1778.5	1871.1	1952.9
15°	813.7	858.2	928.3	1025.3	1104.9	1199.7	1307.0	1494.6	1733.9	1877.0	1946.3
17.5°	699.9	732.0	805.7	889.6	980.8	1084.4	1238.4	1491.7	1780.6	1963.8	2076.9
20°	621.0	625.4	665.6	737.1	861.1	996.1	1196.1	1477.1	1930.2	2113.4	2256.5
22.5°	571.4	567.0	567.8	628.3	715.2	909.3	1129.7	1526.7	2100.3	2351.3	2447.7
25°	546.6	534.9	527.6	540.8	619.6	806.4	1079.3	1592.4	2283.5	2547.6	2665.9
27.5°	533.5	513.0	498.4	500.6	558.3	754.6	1048.0	1620.8	2465.2	2821.3	2862.9
30°	528.4	502.8	481.6	474.4	512.3	682.3	980.8	1669.7	2627.9	2971.6	3007.4
32.5°	510.1	478.7	458.3	451.7	467.1	618.8	932.6	1704.7	2771.7	3135.1	3122.7
35°	488.9	462.7	437.1	424.7	435.7	578.0	894.0	1688.0	2941.0	3262.1	3255.5
37.5°	486.8	452.5	431.3	410.9	410.1	527.6	841.4	1704.0	3049.0	3489.8	3400.0
40°	467.8	445.9	418.2	401.4	391.9	502.1	790.3	1666.1	3207.4	3581.7	3493.4
42.5°	468.5	435.7	411.6	391.9	382.4	464.9	755.3	1655.9	3262.8	3731.3	3537.2
45°	456.8	424.7	404.3	380.9	375.8	436.4	721.7	1608.4	3360.6	3738.6	3482.5
47.5°	445.2	416.7	394.8	367.1	355.4	426.2	695.5	1569.0	3309.5	3670.0	3406.6
50°	437.1	404.3	383.9	364.2	331.3	408.7	661.2	1559.5	3238.0	3577.3	3265.7
52.5°	423.3	394.1	372.9	357.6	305.0	392.6	648.0	1615.0	3325.6	3508.0	3224.9
55°	410.1	380.2	353.2	323.3	283.2	350.3	611.5	1666.8	3453.3	3667.8	3410.2
57.5°	396.3	367.8	338.6	302.9	262.0	306.5	573.6	1676.3	3213.9	3389.8	3237.3
60°	378.0	341.5	319.6	272.9	239.4	254.0	454.6	1477.8	2492.9	2830.8	2835.9
62.5°	357.6	318.2	299.2	244.5	216.0	218.9	370.7	1242.1	2022.2	2343.3	2482.7
65°	330.6	292.6	270.0	226.2	199.2	189.7	271.5	910.0	1536.2	1901.1	2059.4
67.5°	295.6	259.8	231.3	197.0	178.1	162.7	185.4	512.3	907.1	1276.4	1324.5
70°	258.3	227.7	197.8	169.3	148.1	137.2	135.7	227.0	433.5	686.7	781.6
72.5°	203.6	181.7	157.6	136.5	122.6	106.5	97.1	94.1	146.7	279.5	386.0
75°	146.0	127.7	113.8	100.0	89.8	81.0	73.7	67.1	61.3	70.1	96.3
77.5°	92.0	85.4	74.4	70.8	64.9	62.8	59.8	56.2	51.8	48.9	48.9
80°	62.0	57.7	54.0	53.3	51.1	50.4	51.1	47.4	43.1	39.4	40.9
82.5°	41.6	40.9	40.1	39.4	40.1	40.9	42.3	41.6	37.9	35.8	36.5
85°	24.8	26.3	27.7	29.2	32.1	28.5	23.4	19.7	17.5	16.1	15.3
87.5°	9.5	13.1	11.7	10.9	11.7	10.9	10.2	9.5	8.0	7.3	7.3
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°	2234.6	2234.6	2234.6	2234.6	2234.6	2234.6	2234.6	2234.6	2234.6	2234.6
2.5°	2416.3	2430.9	2443.3	2440.4	2414.8	2380.5	2366.7	2295.9	2281.3	2271.8
5°	2449.1	2533.8	2552.0	2541.1	2474.7	2390.7	2309.0	2205.4	2144.8	2142.6
7.5°	2388.5	2492.9	2525.7	2550.6	2462.3	2316.3	2176.2	2020.7	1982.8	1985.7
10°	2234.6	2401.0	2482.0	2507.5	2406.1	2279.8	2085.7	1928.1	1847.1	1845.6
12.5°	2149.2	2279.8	2302.4	2338.2	2308.3	2180.6	2033.1	1856.5	1777.7	1776.3
15°	2073.3	2159.4	2166.0	2216.3	2232.4	2146.3	2047.0	1858.7	1795.2	1788.7
17.5°	2139.7	2079.9	2055.0	2061.6	2109.0	2140.4	2127.3	1982.8	1917.8	1881.4
20°	2184.2	2050.7	1975.5	1982.8	2039.0	2153.6	2247.0	2162.3	2059.4	2063.8
22.5°	2303.2	2055.0	1937.5	1929.5	2018.6	2222.2	2382.0	2389.3	2290.0	2265.9
25°	2481.2	2105.4	1925.9	1923.7	2009.1	2295.9	2539.6	2657.8	2556.4	2511.9
27.5°	2624.3	2184.2	1962.4	1969.7	2039.0	2355.7	2673.9	2830.8	2753.4	2698.7
30°	2749.8	2265.9	2013.4	1979.9	2119.3	2387.1	2731.5	3027.8	2965.8	2920.6
32.5°	2801.6	2382.0	2094.4	2039.0	2185.7	2425.0	2851.2	3219.0	3165.8	3054.1
35°	2889.2	2446.9	2138.2	2133.9	2301.7	2516.3	2907.4	3345.3	3323.4	3224.1
37.5°	2959.2	2512.6	2293.7	2245.5	2460.8	2669.5	2997.9	3519.7	3469.3	3422.6
40°	3013.2	2630.1	2438.9	2502.4	2656.4	2808.9	3081.1	3530.6	3675.9	3540.1
42.5°	2963.6	2735.2	2677.5	2829.3	2975.3	2968.0	3090.6	3615.3	3724.0	3653.2
45°	2951.2	2913.3	3054.8	3192.8	3226.3	3100.1	3022.7	3521.9	3709.4	3678.1
47.5°	2921.3	3088.4	3335.1	3559.8	3508.7	3188.4	2941.7	3505.1	3718.2	3662.0
50°	2911.1	3126.3	3542.3	3761.2	3730.6	3265.0	2903.8	3397.1	3656.2	3651.1
52.5°	2910.3	3204.4	3628.4	3870.7	3889.7	3386.1	2955.6	3451.8	3704.3	3747.4
55°	2943.2	3179.6	3617.5	3810.1	3802.8	3332.1	2961.4	3488.3	3763.4	3805.8
57.5°	2776.1	2848.3	2985.5	3138.0	3098.6	2760.0	2644.7	3224.9	3454.0	3423.4
60°	2397.3	2171.1	2016.4	2009.1	1932.4	1826.6	2164.5	2878.2	2878.2	2848.3
62.5°	2099.6	1425.2	1224.6	1167.6	1222.4	1344.2	2087.9	2799.4	2719.9	2685.6
65°	1836.1	1088.1	885.2	869.2	964.0	1147.9	1887.9	2384.9	2244.8	2130.9
67.5°	1181.5	796.9	658.3	629.8	744.4	842.9	1256.7	1466.8	1378.5	1334.0
70°	761.9	518.9	366.3	343.7	388.2	519.6	802.7	855.3	726.9	696.9
72.5°	360.5	224.0	128.4	105.8	119.0	198.5	317.5	341.5	283.9	259.8
75°	114.6	82.5	52.5	45.2	43.1	51.1	73.0	56.2	40.9	40.1
77.5°	51.1	48.9	41.6	35.0	30.7	25.5	21.2	17.5	18.2	19.0
80°	42.3	38.7	34.3	30.7	25.5	19.7	15.3	11.7	11.7	12.4
82.5°	37.2	33.6	29.9	25.5	21.9	16.1	11.7	8.0	7.3	7.3
85°	16.1	19.0	20.4	21.9	17.5	13.1	8.0	5.1	4.4	4.4
87.5°	6.6	5.8	5.1	4.4	3.6	3.6	2.9	2.2	1.5	1.5
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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