

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: P647777

Luminaire Tested: **GALN-SA2A-835-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647777  
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-SA2A-835-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6206.8 lumens  
Efficiency: N/A  
Efficacy: 98.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

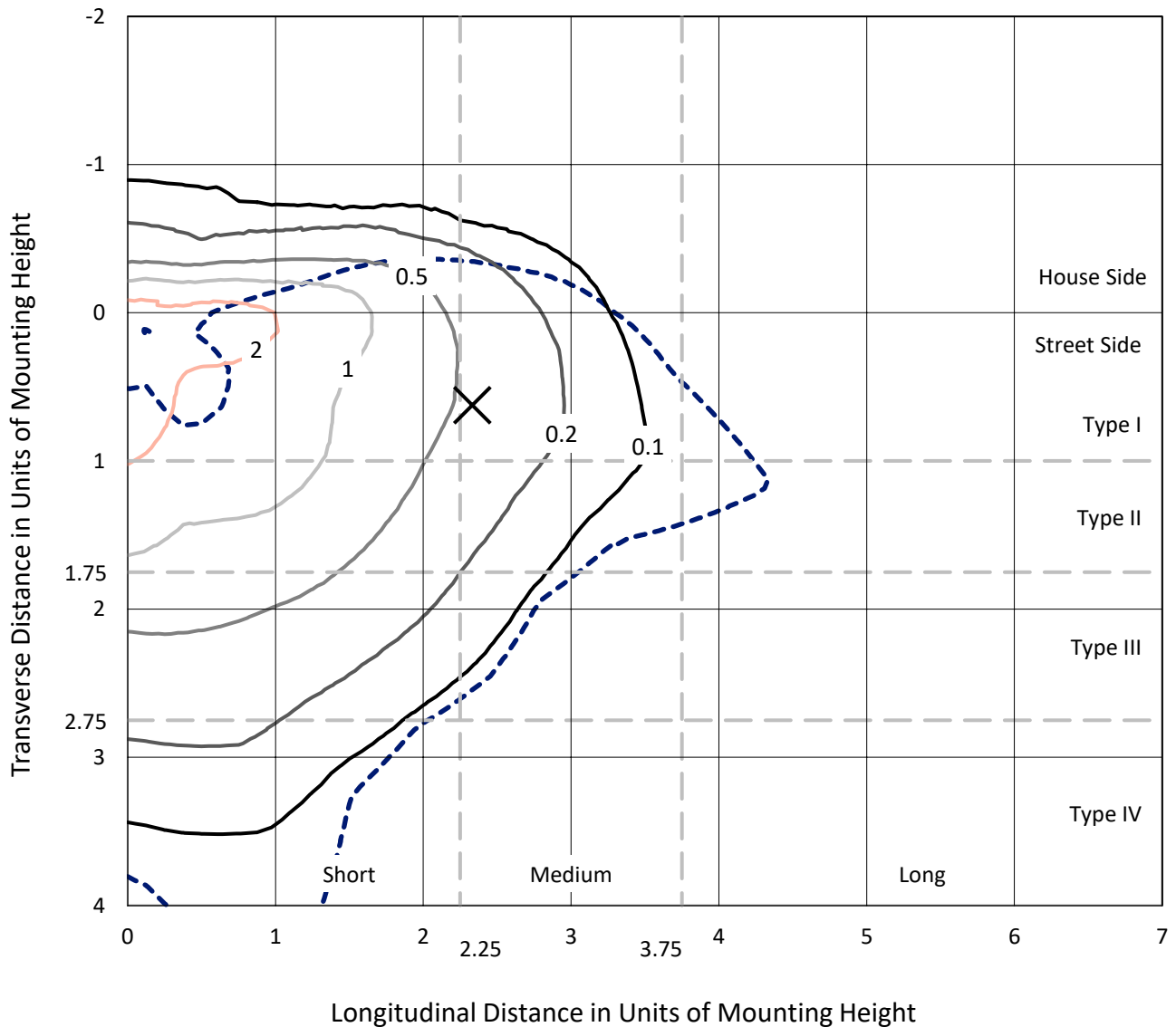
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

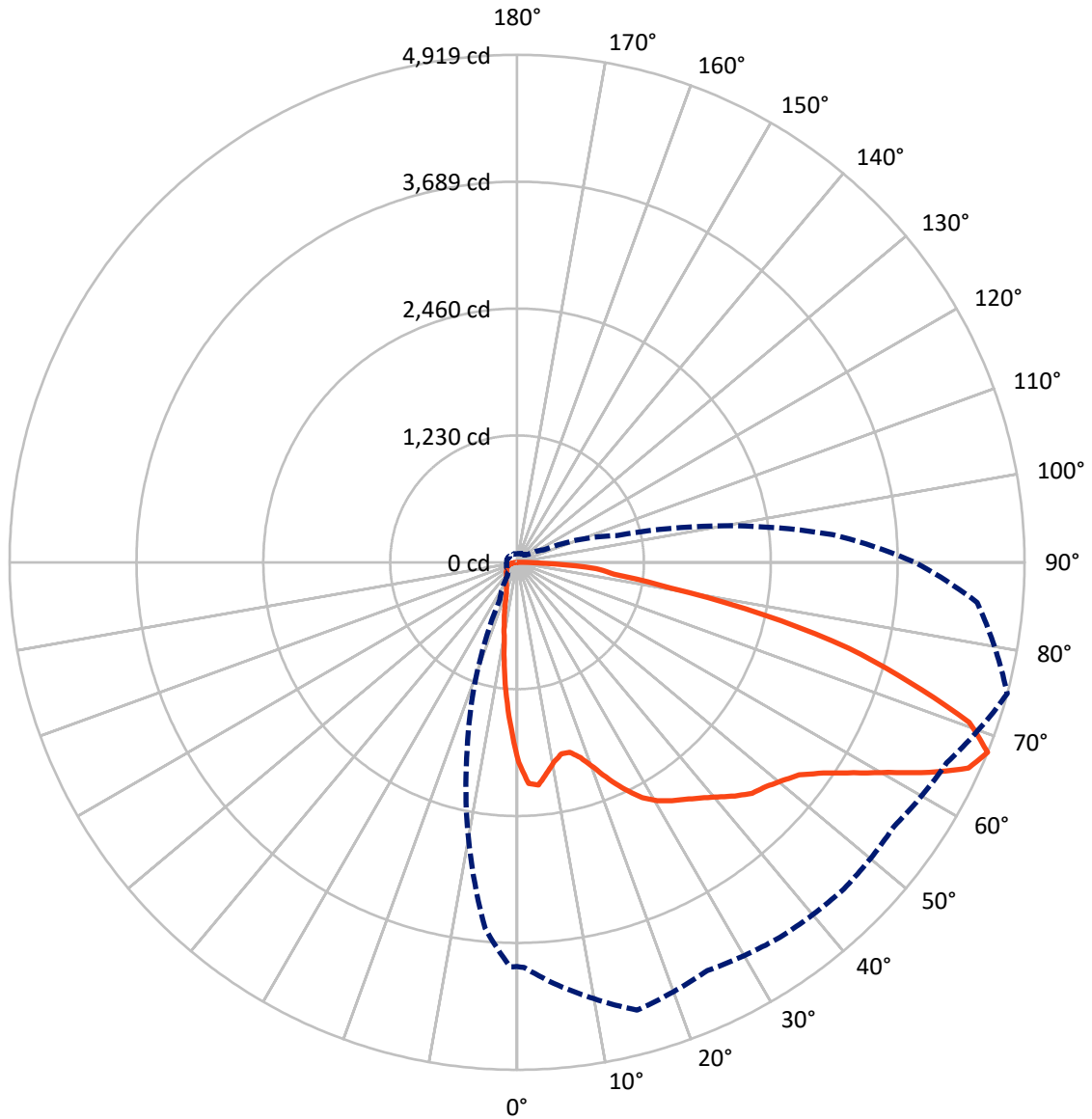
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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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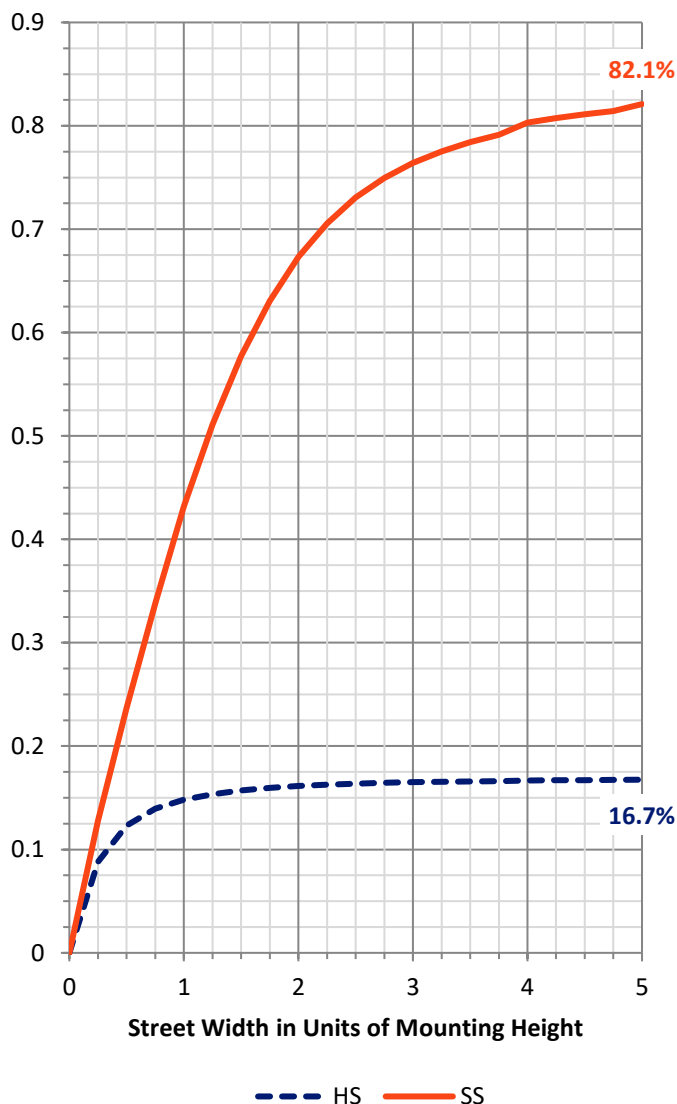
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1049.1	0.0	1049.1
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	5157.7	0.0	5157.7
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	6206.8	0.0	6206.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.1	2.4
10°-20°	306.7	4.9
20°-30°	441.4	7.1
30°-40°	635.7	10.2
40°-50°	893.0	14.4
50°-60°	1245.5	20.1
60°-70°	1480.8	23.9
70°-80°	872.1	14.1
80°-90°	184.4	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°	6206.8	100.0
0°-180°	6206.8	100.0

**Coefficient of Utilization**

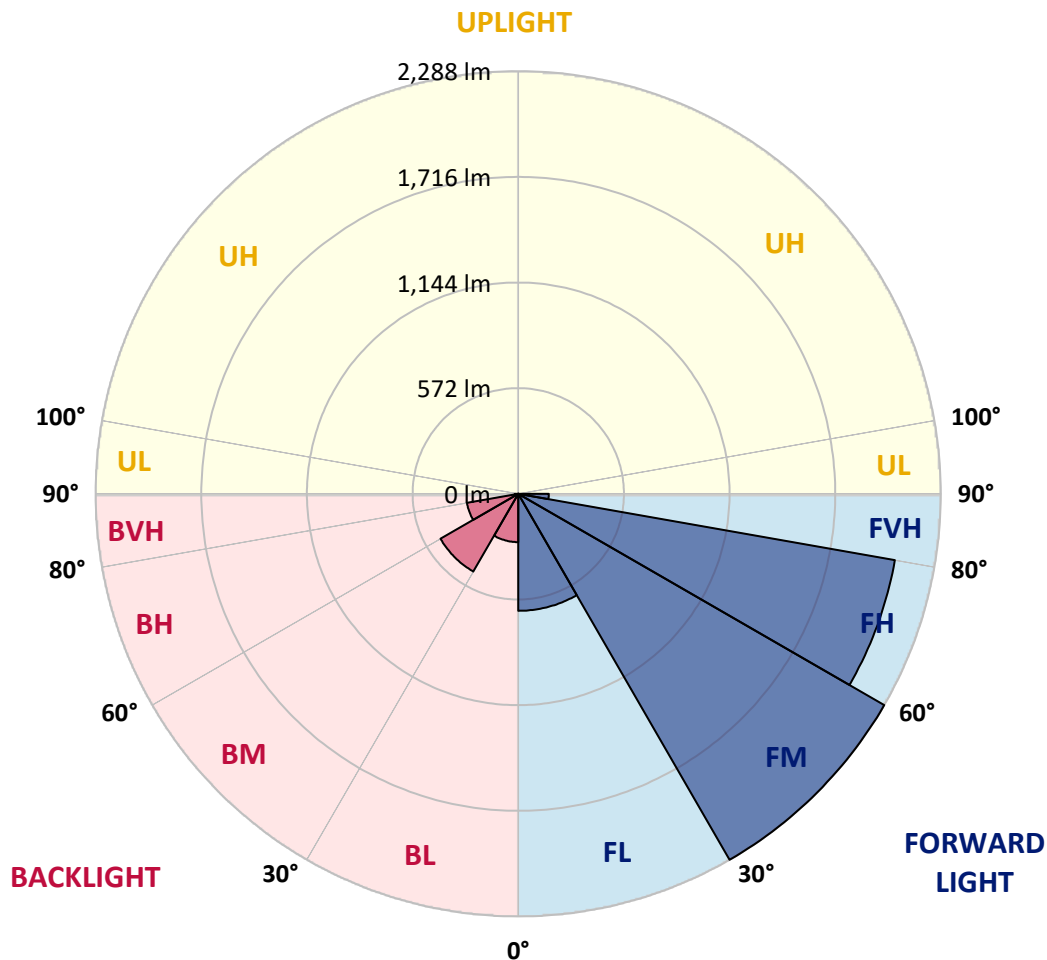


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	633.5	10.2			
FM (30°-60°)	2288.2	36.9			
FH (60°-80°)	2070.6	33.4			G2/5000
FVH (80°-90°)	165.3	2.7			G2/225
BL (0°-30°)	261.7	4.2	B1/500		
BM (30°-60°)	486.0	7.8	B1/1000		
BH (60°-80°)	282.3	4.5	B1/500		G1/500
BVH (80°-90°)	19.1	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-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2
2.5°	2090.8	2093.6	2111.5	2163.7	2199.4	2212.6	2221.8	2204.6	2187.9	2147.3	2086.1
5°	2084.4	2100.8	2147.3	2264.4	2356.7	2396.5	2408.4	2357.1	2272.3	2168.0	2042.6
7.5°	1962.7	1984.5	2056.2	2252.4	2415.2	2508.3	2496.0	2403.3	2250.4	2064.5	1889.4
10°	1818.2	1842.5	1928.8	2166.0	2375.8	2504.0	2504.0	2390.9	2187.9	1967.1	1765.2
12.5°	1703.6	1729.0	1827.8	2077.3	2293.8	2415.2	2435.5	2338.4	2142.9	1905.4	1683.6
15°	1665.8	1690.4	1796.7	2023.5	2207.0	2281.0	2287.8	2256.0	2121.1	1909.7	1680.1
17.5°	1712.7	1744.5	1852.0	2039.5	2127.4	2131.8	2137.0	2162.0	2123.4	1989.7	1752.5
20°	1848.4	1882.6	1994.8	2090.8	2057.8	2012.4	2015.2	2079.6	2151.7	2121.9	1925.6
22.5°	2044.3	2074.1	2189.1	2181.1	2028.3	1934.8	1915.3	2005.3	2193.5	2286.7	2110.0
25°	2255.6	2290.6	2422.8	2315.3	2036.7	1888.6	1876.3	1961.4	2236.9	2440.7	2322.8
27.5°	2497.6	2531.8	2636.1	2450.6	2080.4	1885.0	1870.3	1957.5	2275.9	2583.2	2526.3
30°	2677.5	2708.9	2779.8	2564.5	2134.2	1908.9	1890.6	1988.9	2309.3	2680.7	2724.4
32.5°	2818.8	2851.5	2890.1	2635.3	2205.0	1952.3	1918.4	2046.2	2353.1	2755.1	2871.3
35°	2966.1	3004.7	3001.9	2698.2	2271.1	2002.4	1969.4	2129.1	2422.0	2820.0	3057.6
37.5°	3152.7	3168.3	3148.4	2754.7	2350.3	2092.8	2074.5	2252.0	2519.9	2898.4	3275.3
40°	3342.2	3373.2	3271.0	2823.2	2446.6	2262.8	2260.8	2433.9	2636.1	2990.4	3486.3
42.5°	3504.6	3530.9	3385.6	2882.8	2563.2	2470.1	2485.2	2677.9	2788.6	3097.0	3655.8
45°	3626.8	3650.3	3491.5	2940.6	2716.9	2709.7	2798.9	2939.4	2980.8	3192.9	3755.3
47.5°	3730.7	3753.3	3565.1	3028.2	2906.7	2995.9	3151.1	3212.0	3145.2	3247.9	3866.8
50°	3818.2	3825.0	3615.7	3132.5	3142.4	3346.5	3497.0	3536.4	3307.5	3326.7	3963.5
52.5°	3909.4	3900.6	3702.8	3263.8	3397.1	3679.3	3788.8	3829.7	3463.2	3423.8	4104.4
55°	4113.6	4121.9	3898.2	3429.4	3654.7	4006.1	4150.2	4110.8	3635.5	3602.5	4283.5
57.5°	4360.4	4353.2	4173.2	3688.5	3917.0	4310.2	4417.7	4354.3	3865.6	3848.1	4465.0
60°	4456.3	4465.8	4403.4	3967.1	4175.7	4576.5	4686.3	4588.0	4141.4	4133.5	4601.9
62.5°	4359.9	4413.7	4455.9	4215.0	4396.2	4772.3	4881.4	4769.1	4429.2	4486.9	4697.8
65°	4168.1	4179.7	4323.3	4425.2	4502.4	4804.5	4861.4	4801.7	4669.6	4808.9	4693.5
67.5°	3918.9	3928.9	4097.2	4494.1	4365.5	4438.4	4478.1	4460.7	4595.2	4919.1	4477.4
70°	3681.7	3673.8	3851.7	4318.6	3800.3	3689.7	3722.7	3667.8	3965.1	4649.7	4053.4
72.5°	3220.0	3248.7	3439.7	3830.6	3009.1	2829.1	2901.2	2759.1	3049.6	3982.2	3290.1
75°	2522.3	2529.0	2847.8	3214.8	2269.9	1986.2	2083.6	2024.4	2336.0	3321.9	2271.9
77.5°	1746.6	1731.4	2074.1	2455.4	1618.8	1454.0	1455.6	1427.3	1631.1	2445.9	1543.5
80°	1109.3	1086.2	1298.4	1516.8	1112.5	1190.1	1151.1	1149.9	1061.9	1508.9	933.3
82.5°	599.4	624.9	820.3	950.9	798.0	919.8	843.0	818.3	728.8	944.5	597.0
85°	273.0	296.9	437.5	646.8	606.2	612.9	409.6	483.2	603.0	767.0	318.8
87.5°	26.7	34.2	90.4	305.3	206.9	163.2	60.9	117.4	151.7	272.6	25.4
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°	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2
2.5°	2060.9	2040.3	1969.8	1911.7	1850.0	1803.0	1741.8	1700.8	1672.5	1629.9	1624.7
5°	1966.2	1915.7	1793.1	1668.1	1560.3	1479.1	1396.6	1321.0	1276.4	1262.5	1244.6
7.5°	1806.6	1721.4	1563.8	1420.5	1296.7	1175.8	1082.7	1016.6	972.3	946.5	915.5
10°	1675.3	1576.6	1384.7	1209.2	1107.3	1032.1	950.1	879.2	824.7	778.1	752.7
12.5°	1586.9	1475.5	1259.8	1117.3	1038.4	958.5	862.6	782.9	702.5	649.6	626.9
15°	1560.3	1442.4	1221.2	1071.5	958.5	853.8	746.3	642.4	562.8	512.6	496.0
17.5°	1625.5	1483.0	1220.7	1010.5	864.5	739.5	601.8	504.3	422.7	385.3	373.3
20°	1747.3	1561.1	1224.3	950.5	762.6	586.7	437.9	357.8	318.8	302.9	296.9
22.5°	1917.3	1680.1	1235.0	891.2	651.1	450.5	328.0	287.4	273.4	270.7	269.4
25°	2126.6	1827.3	1271.3	837.8	557.3	343.9	274.2	256.0	248.0	245.2	244.8
27.5°	2319.2	2017.6	1315.0	792.1	466.5	296.5	248.0	232.5	224.5	224.1	224.9
30°	2493.2	2176.8	1351.7	740.7	397.6	263.5	230.8	215.3	207.7	207.3	209.8
32.5°	2643.6	2307.7	1378.8	690.1	359.4	243.2	215.3	198.6	192.2	191.1	192.2
35°	2804.5	2438.3	1366.4	650.8	337.6	226.4	203.8	187.5	179.9	176.3	176.3
37.5°	2987.9	2572.8	1345.4	618.1	327.6	212.5	193.9	177.9	170.4	166.8	166.4
40°	3188.1	2707.4	1316.2	589.1	317.6	204.2	187.1	170.4	161.2	157.6	156.8
42.5°	3364.9	2822.4	1292.3	569.9	301.3	205.8	181.1	164.7	153.2	148.5	148.1
45°	3518.5	2938.2	1288.0	558.8	287.8	203.4	179.5	160.4	146.9	141.7	140.9
47.5°	3638.8	3058.8	1313.1	552.5	273.0	190.7	189.9	157.6	141.3	135.7	134.9
50°	3785.2	3230.0	1370.4	539.3	259.5	178.7	200.6	157.2	136.9	129.7	127.8
52.5°	3980.2	3452.9	1448.0	515.8	240.0	167.6	191.4	157.2	131.8	124.6	122.2
55°	4275.2	3737.0	1524.0	482.8	212.5	152.8	172.7	152.5	124.2	117.8	116.2
57.5°	4470.6	3944.8	1572.6	437.0	178.3	142.1	148.8	144.9	116.6	109.9	109.9
60°	4480.6	4000.5	1549.5	379.3	156.8	132.2	129.4	146.1	109.9	102.7	101.9
62.5°	4365.9	3864.0	1429.3	327.6	145.2	121.4	117.0	128.2	103.1	95.9	94.7
65°	4186.8	3515.7	1220.7	302.9	138.9	111.8	105.5	105.1	95.9	89.2	87.5
67.5°	3857.6	3072.3	1003.0	288.5	135.7	101.1	95.1	93.1	87.5	82.0	81.2
70°	3372.5	2573.3	804.4	282.6	134.1	90.0	85.2	82.8	78.0	73.6	73.2
72.5°	2623.8	2087.2	663.9	278.6	133.3	79.6	74.5	71.3	68.4	64.4	64.4
75°	1884.6	1535.5	506.7	251.2	123.4	68.4	62.9	60.9	56.9	53.7	54.5
77.5°	1188.1	1034.0	333.6	184.7	95.5	54.9	50.1	48.9	45.8	41.4	44.2
80°	802.4	727.2	194.7	116.2	60.1	40.2	38.6	38.2	34.6	29.8	30.2
82.5°	546.1	535.7	101.1	66.1	34.6	23.5	22.7	23.5	19.5	15.9	15.9
85°	213.4	291.4	47.8	25.8	11.1	3.6	5.2	5.6	3.2	1.6	2.0
87.5°	4.0	29.8	1.2	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°	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2
2.5°	1616.7	1613.2	1619.2	1593.7	1598.9	1608.4	1613.2	1616.0	1655.3	1646.3	1671.3
5°	1261.3	1257.7	1280.8	1284.0	1295.9	1293.6	1305.1	1307.9	1322.3	1327.4	1362.4
7.5°	917.4	932.9	959.3	972.8	993.1	999.4	993.5	1008.2	978.4	999.8	1006.2
10°	737.1	718.4	707.3	738.4	742.3	771.8	759.8	750.3	767.8	768.6	785.3
12.5°	613.7	573.5	546.8	555.6	565.2	577.9	579.9	599.0	611.8	623.7	633.7
15°	481.2	467.3	443.0	431.0	444.6	449.8	462.1	478.0	491.6	495.2	508.6
17.5°	369.3	371.8	367.8	360.6	368.9	372.9	373.7	374.1	377.7	375.4	395.3
20°	297.3	305.7	315.6	317.2	320.0	322.0	318.4	304.9	305.3	313.7	320.0
22.5°	269.0	270.7	281.8	285.4	294.2	290.6	280.2	273.8	273.0	275.1	278.2
25°	246.8	249.2	257.1	262.7	269.4	263.1	255.5	249.5	248.8	250.7	253.9
27.5°	226.8	230.4	237.6	243.2	249.5	243.6	236.4	231.2	230.8	230.4	232.5
30°	210.9	214.9	220.1	226.4	230.8	225.7	218.9	216.1	215.7	214.9	215.7
32.5°	195.0	201.4	206.6	209.8	214.2	210.2	205.0	203.4	200.6	198.2	197.0
35°	177.1	183.8	191.8	195.8	200.2	196.2	192.6	185.9	181.1	180.7	181.5
37.5°	166.8	169.5	175.9	182.7	187.1	185.1	178.3	171.6	170.4	170.4	171.2
40°	157.6	158.8	161.6	170.4	178.3	172.3	164.0	162.0	162.0	161.6	162.0
42.5°	148.5	149.6	149.6	156.4	169.1	159.6	153.2	153.2	153.2	153.6	154.8
45°	140.1	140.5	140.1	144.9	156.8	148.8	144.5	145.6	146.5	147.3	148.1
47.5°	133.0	133.3	133.0	136.9	142.9	139.7	137.3	138.9	140.5	141.7	142.5
50°	126.5	126.1	127.0	129.4	132.2	133.0	131.3	133.7	134.5	136.1	138.1
52.5°	121.0	120.6	121.4	122.6	126.5	126.5	126.5	128.6	130.1	131.8	134.5
55°	114.6	115.0	116.2	117.8	123.0	122.2	122.6	124.2	125.7	128.2	129.7
57.5°	108.7	109.5	111.0	113.5	118.6	118.2	118.6	119.4	121.4	122.6	124.2
60°	101.9	103.5	105.5	107.0	112.2	111.8	113.8	115.4	116.6	116.6	117.4
62.5°	95.1	97.5	99.5	100.7	106.3	106.6	109.5	110.6	111.4	110.6	111.8
65°	88.3	91.9	92.7	94.4	99.9	100.3	103.5	106.3	105.5	104.7	106.6
67.5°	81.6	86.0	85.6	87.5	93.1	94.0	96.7	101.5	99.9	99.1	100.7
70°	74.0	77.2	77.6	78.8	86.4	85.2	89.6	94.0	92.7	93.1	93.1
72.5°	65.7	68.4	68.4	70.9	78.8	76.8	80.4	85.2	85.2	84.8	84.8
75°	55.7	57.3	58.9	62.5	70.9	68.4	70.9	75.2	76.0	75.2	75.2
77.5°	44.9	47.4	48.2	52.9	58.9	58.5	60.9	62.9	64.4	63.7	63.7
80°	31.9	34.2	37.4	42.6	46.2	47.4	48.5	50.1	51.0	51.0	51.8
82.5°	17.9	21.5	24.3	29.4	31.0	37.0	36.6	37.8	36.6	32.3	35.8
85°	4.0	7.6	10.7	13.5	15.5	21.5	22.7	25.4	21.1	19.5	19.5
87.5°	0.0	0.0	0.0	0.0	0.0	3.2	6.3	8.8	7.6	6.3	6.3
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°	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2
2.5°	1692.4	1727.0	1768.8	1840.8	1891.4	1945.9	2000.9	2059.4	2074.9	2090.8
5°	1372.0	1440.0	1477.1	1573.8	1675.3	1804.3	1909.7	2025.2	2073.3	2084.4
7.5°	1039.2	1085.4	1182.5	1280.4	1406.2	1541.6	1703.1	1883.0	1939.2	1962.7
10°	823.9	886.8	971.9	1077.0	1187.3	1333.0	1515.3	1725.4	1805.0	1818.2
12.5°	701.3	771.3	864.1	975.1	1079.4	1189.3	1373.1	1590.1	1675.3	1703.6
15°	560.8	645.6	752.7	869.7	983.1	1103.3	1289.6	1534.4	1632.7	1665.8
17.5°	440.6	509.1	624.9	751.8	886.4	1038.4	1272.1	1561.1	1682.0	1712.7
20°	337.2	386.1	483.6	617.7	775.3	974.4	1276.4	1661.8	1806.6	1848.4
22.5°	291.4	316.4	375.8	503.5	679.8	918.6	1294.4	1799.9	1974.6	2044.3
25°	263.9	277.0	310.5	394.0	588.7	864.5	1335.3	1985.8	2209.4	2255.6
27.5°	240.4	249.9	270.7	330.7	505.9	814.3	1383.1	2191.9	2428.7	2497.6
30°	218.1	230.8	250.3	293.7	453.0	768.6	1443.2	2359.1	2613.4	2677.5
32.5°	201.0	213.8	231.6	267.9	407.9	720.4	1479.1	2505.9	2764.2	2818.8
35°	187.1	197.8	216.5	247.2	373.7	683.8	1471.9	2622.6	2910.3	2966.1
37.5°	177.1	186.3	205.0	227.7	347.9	645.6	1468.3	2776.6	3088.2	3152.7
40°	168.0	177.5	194.7	214.9	322.0	600.6	1470.3	2929.4	3277.7	3342.2
42.5°	160.8	171.6	185.5	211.3	295.3	564.4	1470.3	3062.4	3442.5	3504.6
45°	154.8	166.4	179.9	210.9	274.2	536.9	1460.4	3176.6	3573.8	3626.8
47.5°	149.6	162.4	181.9	203.8	269.0	517.0	1451.6	3268.2	3680.9	3730.7
50°	146.1	161.2	193.4	195.4	270.7	511.1	1493.8	3383.6	3775.2	3818.2
52.5°	143.3	161.6	193.0	183.1	267.9	515.1	1581.7	3563.9	3906.2	3909.4
55°	137.7	161.2	183.1	169.1	256.4	521.8	1694.8	3825.8	4111.1	4113.6
57.5°	132.2	156.8	170.0	157.2	232.9	521.8	1830.9	4073.8	4358.3	4360.4
60°	126.5	163.2	149.2	146.9	202.2	512.2	1974.6	4182.8	4435.9	4456.3
62.5°	121.0	164.4	133.3	137.7	179.9	489.1	2081.7	4062.2	4330.9	4359.9
65°	114.6	132.6	123.0	128.2	168.3	450.5	2047.9	3841.3	4133.5	4168.1
67.5°	107.0	112.2	111.8	118.2	164.4	393.6	1869.5	3561.9	3921.0	3918.9
70°	97.9	100.7	101.9	108.7	156.8	349.5	1557.9	3199.3	3637.1	3681.7
72.5°	88.3	90.7	91.9	97.9	149.2	324.4	1209.2	2699.8	3150.3	3220.0
75°	78.0	79.6	81.2	86.4	141.3	287.4	861.3	2060.9	2412.8	2522.3
77.5°	67.3	67.3	69.2	74.5	119.0	237.2	577.9	1445.7	1634.7	1746.6
80°	54.5	54.9	54.1	59.7	87.5	162.4	328.4	965.6	1087.8	1109.3
82.5°	41.8	40.6	41.0	43.8	65.3	110.6	175.2	599.9	611.4	599.4
85°	26.2	26.2	25.4	28.7	41.8	57.7	95.5	367.4	287.0	273.0
87.5°	10.7	8.8	9.9	11.5	19.9	23.5	37.4	75.6	29.0	26.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)