

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: P451103

Luminaire Tested: **GALN-SA2A-722-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451103  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2A-722-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4855 lumens  
Efficiency: N/A  
Efficacy: 77.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

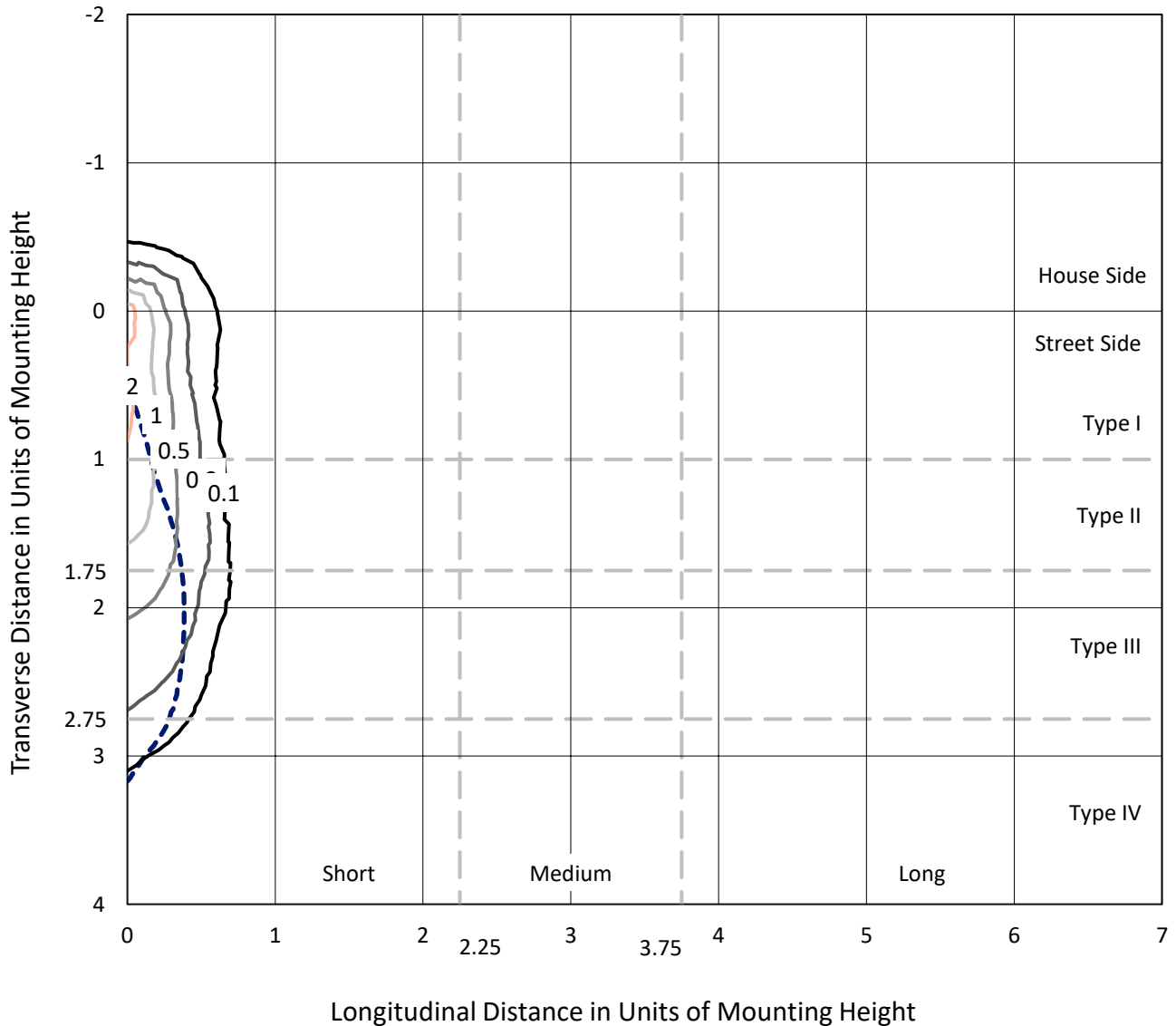
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

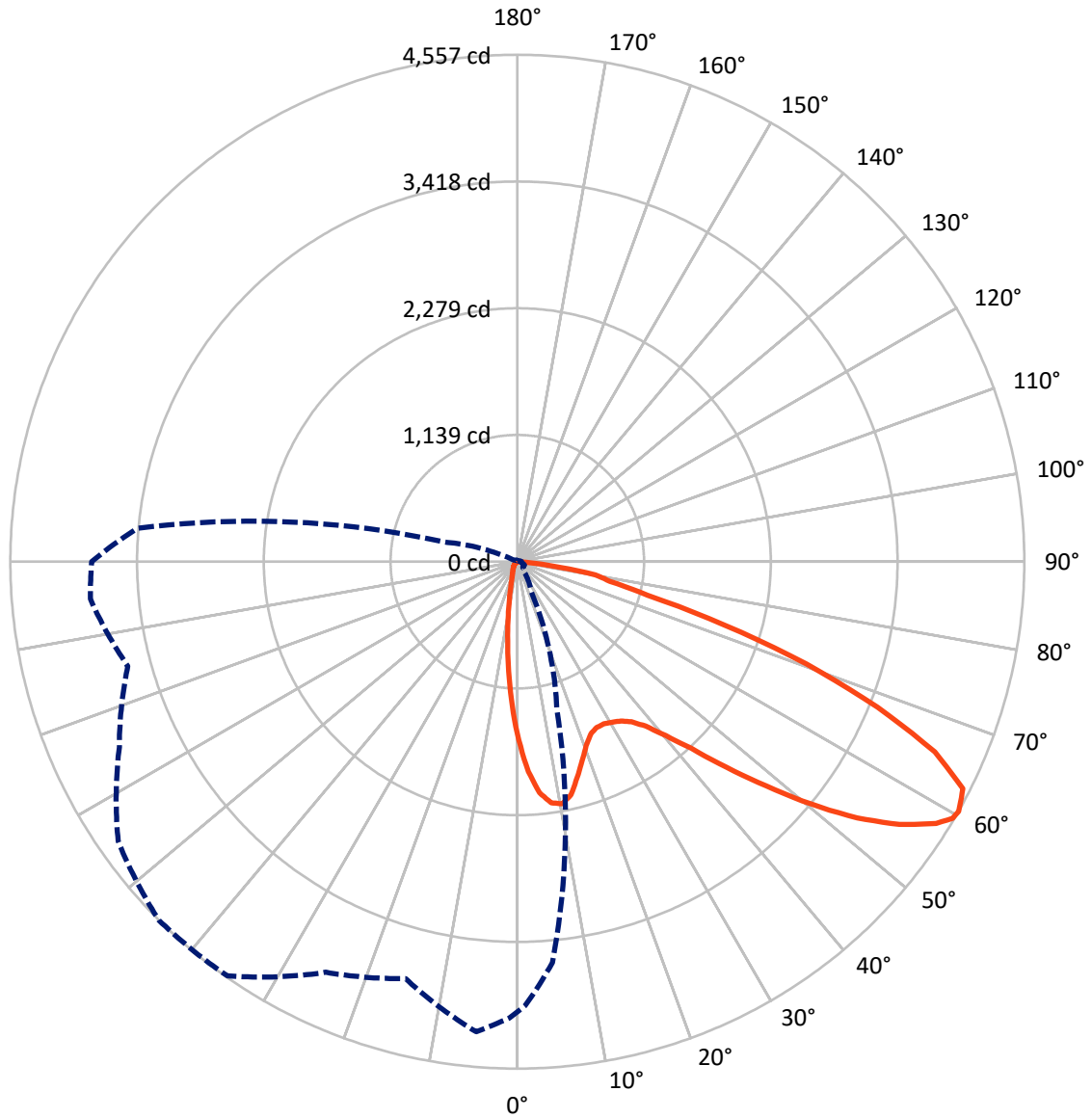
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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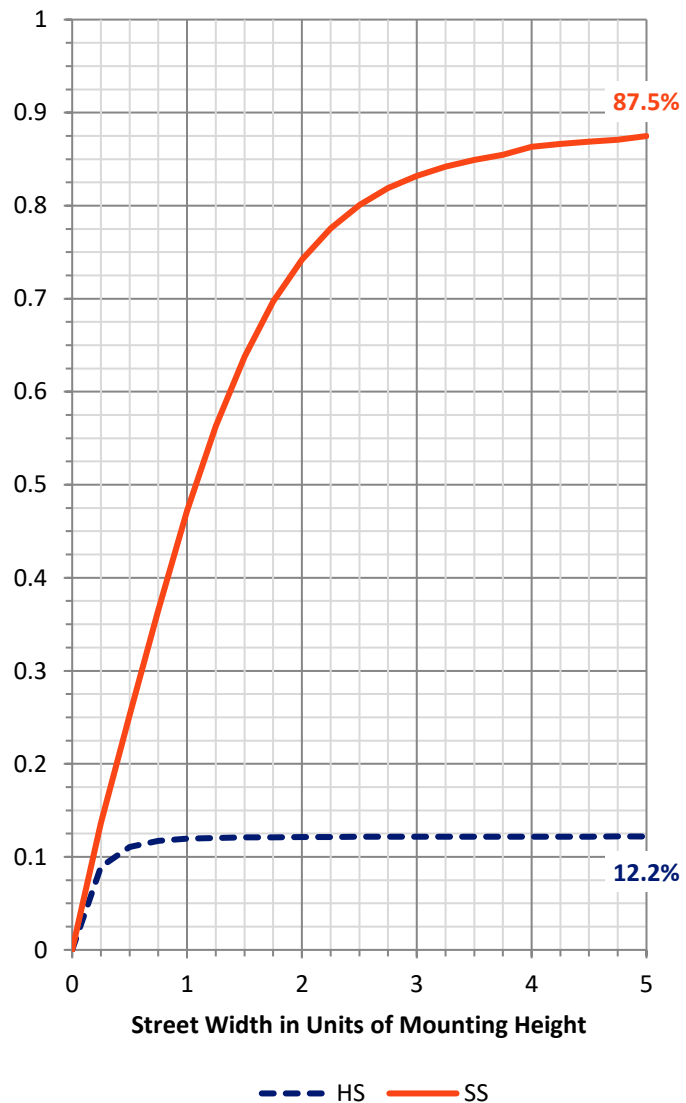
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	598.8	0.0	598.8
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	4256.2	0.0	4256.2
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	4855.0	0.0	4855.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.3	2.5
10°-20°	237.0	4.9
20°-30°	347.5	7.2
30°-40°	516.9	10.6
40°-50°	752.2	15.5
50°-60°	1084.7	22.3
60°-70°	1193.1	24.6
70°-80°	534.4	11.0
80°-90°	69.8	1.4
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°	4855.0	100.0
0°-180°	4855.0	100.0

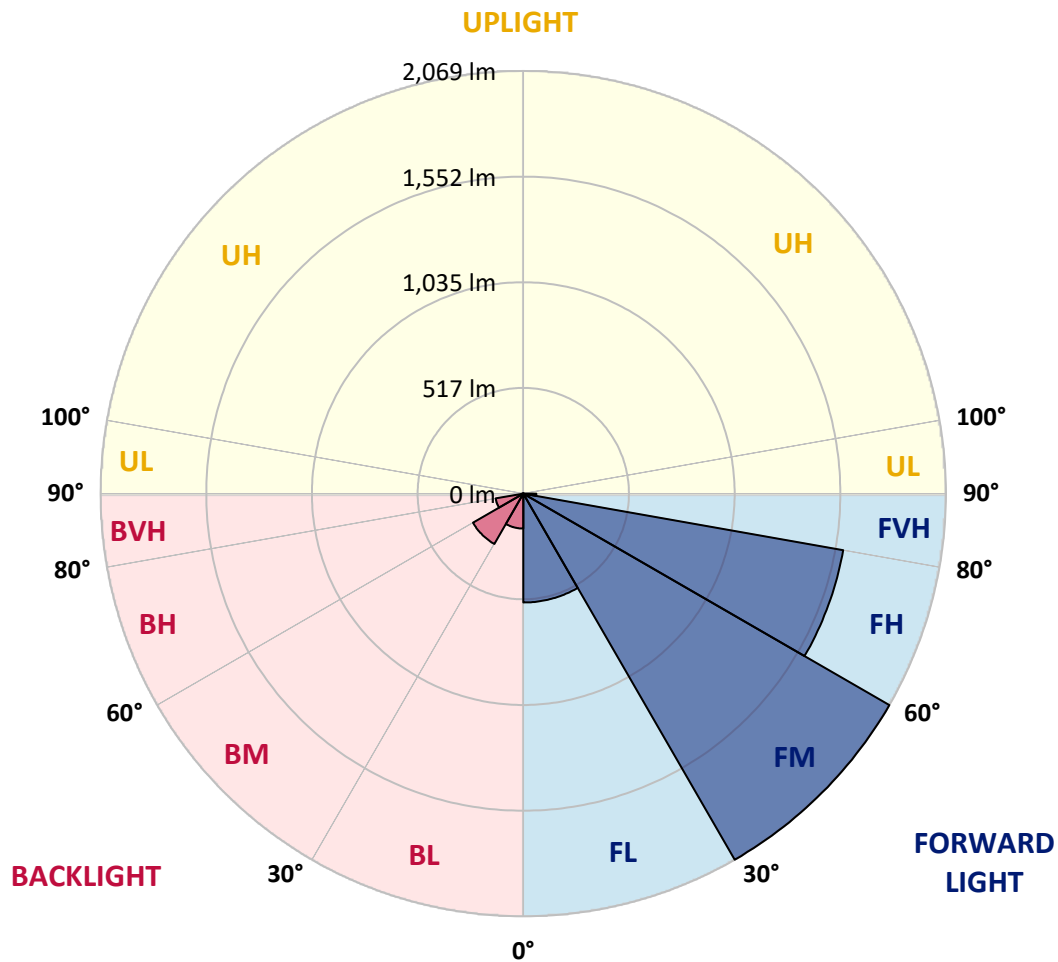


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	532.8	11.0			
FM (30°-60°)	2069.4	42.6			
FH (60°-80°)	1590.2	32.8			G1/1800
FVH (80°-90°)	63.9	1.3			G1/100
BL (0°-30°)	171.1	3.5	B1/500		
BM (30°-60°)	284.4	5.9	B1/1000		
BH (60°-80°)	137.3	2.8	B1/500		G1/500
BVH (80°-90°)	6.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1604.6	1604.6	1604.6	1604.6	1604.6	1604.6	1604.6	1604.6	1604.6	1604.6	1604.6
2.5°	1764.1	1756.3	1738.6	1684.7	1637.9	1576.6	1514.6	1465.9	1436.0	1381.0	1355.9
5°	1709.1	1712.8	1661.5	1550.8	1427.5	1343.4	1251.5	1178.4	1097.9	1047.0	993.5
7.5°	1565.5	1558.1	1502.4	1348.2	1198.3	1076.5	960.3	865.8	806.4	758.8	718.9
10°	1442.6	1437.1	1365.9	1167.3	1006.4	915.3	836.6	754.0	690.1	620.4	564.7
12.5°	1365.5	1353.0	1271.0	1063.6	932.6	847.7	762.1	676.1	587.9	517.4	449.9
15°	1339.7	1321.6	1230.4	1027.8	885.4	777.6	670.2	571.3	469.8	391.9	341.0
17.5°	1386.5	1356.6	1259.6	1021.5	828.9	686.1	554.0	425.2	319.6	260.2	228.8
20°	1493.9	1459.6	1333.4	1015.3	766.2	583.5	421.1	300.4	221.1	188.6	171.2
22.5°	1653.4	1606.1	1442.6	1025.2	708.2	483.5	304.1	212.2	175.7	155.4	143.2
25°	1844.9	1805.4	1581.0	1060.7	662.5	404.9	235.1	173.5	148.0	135.4	126.2
27.5°	2054.9	1991.8	1760.0	1103.1	620.7	344.0	206.3	155.0	131.8	120.3	115.5
30°	2204.4	2155.3	1909.9	1132.6	568.7	298.2	188.6	152.8	132.1	118.5	109.6
32.5°	2352.0	2289.2	2035.3	1146.3	530.7	266.5	163.1	133.2	115.9	108.9	100.0
35°	2509.9	2444.2	2160.4	1138.9	502.3	245.4	148.0	118.8	99.3	87.5	78.6
37.5°	2669.7	2600.4	2284.8	1112.3	484.6	236.9	136.2	112.9	93.7	81.6	72.0
40°	2859.4	2766.8	2401.4	1090.6	466.1	232.5	128.4	109.2	89.7	76.8	67.2
42.5°	3014.4	2926.2	2511.8	1079.1	453.6	222.2	128.4	106.3	87.1	72.7	62.7
45°	3161.3	3069.8	2631.0	1088.3	448.4	209.3	129.9	105.9	85.3	69.8	59.8
47.5°	3284.2	3204.9	2753.5	1123.0	441.8	195.2	122.2	111.1	84.1	67.2	56.8
50°	3429.2	3352.5	2915.5	1193.2	429.9	181.2	112.6	119.6	83.8	65.0	54.3
52.5°	3633.7	3550.7	3139.2	1272.9	411.1	159.8	103.7	118.5	82.3	61.3	51.7
55°	3883.6	3816.4	3398.2	1368.5	385.3	135.8	89.7	105.2	77.9	55.0	47.2
57.5°	4043.7	3986.5	3592.4	1409.8	345.8	111.1	79.0	88.2	71.2	49.1	42.1
59°	4062.5	4010.9	3633.0	1396.1	320.0	101.5	73.8	75.7	69.4	45.8	39.1
60°	4046.7	3993.2	3616.7	1369.6	296.0	94.8	69.4	67.2	69.8	43.9	36.9
62.5°	3944.8	3853.3	3459.1	1234.9	258.7	87.1	61.6	55.0	61.6	39.5	32.8
65°	3748.1	3610.8	3147.3	1045.2	243.9	82.7	52.4	46.1	46.9	34.7	28.4
67.5°	3404.5	3231.4	2732.1	849.2	237.7	83.0	44.3	41.3	36.2	29.5	25.1
70°	2861.3	2688.6	2192.2	698.6	234.7	83.0	37.6	35.4	30.3	24.7	21.8
72.5°	2027.6	1841.6	1478.8	548.8	211.5	82.7	32.1	32.1	24.7	20.7	17.7
75°	1145.5	1147.0	929.6	388.2	175.7	68.3	25.8	25.5	18.1	15.9	13.3
77.5°	667.6	655.8	626.7	166.8	81.6	31.0	18.1	15.5	12.5	11.4	9.6
80°	343.2	282.3	274.9	60.5	29.2	19.6	12.5	8.9	8.1	7.4	6.6
82.5°	101.5	101.9	90.8	24.4	16.2	12.9	6.3	4.8	4.4	4.1	4.1
85°	7.0	4.4	5.2	7.4	10.0	5.2	0.4	1.1	1.1	1.5	1.8
87.5°	0.7	0.4	0.0	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1604.6	1604.6	1604.6	1604.6	1604.6	1604.6	1604.6	1604.6	1604.6	1604.6	1604.6
2.5°	1328.2	1344.5	1314.2	1314.9	1289.8	1298.0	1268.4	1278.0	1260.7	1274.0	1313.1
5°	999.4	1003.1	978.7	971.0	974.7	989.8	995.7	968.8	980.2	957.7	956.2
7.5°	704.2	708.6	694.6	692.7	719.3	713.0	724.5	696.8	670.6	682.0	661.0
10°	546.9	528.5	499.7	491.6	486.4	489.7	489.7	464.6	460.9	451.0	466.1
12.5°	431.8	409.3	382.0	345.1	335.8	335.1	321.4	299.3	292.3	283.8	296.4
15°	313.7	304.5	281.6	260.9	239.9	235.8	213.7	195.6	171.6	168.3	167.2
17.5°	220.7	207.0	206.7	194.9	182.7	174.6	153.9	133.2	124.0	122.9	122.9
20°	165.3	160.5	152.8	151.3	147.6	138.4	119.9	108.9	104.4	104.8	106.3
22.5°	139.1	135.8	128.8	125.5	124.0	115.9	102.2	94.8	92.6	92.6	93.0
25°	124.4	121.4	113.7	108.5	106.7	100.8	90.0	84.5	82.7	82.7	82.7
27.5°	113.3	109.6	101.5	97.1	93.7	87.1	80.5	74.9	73.1	73.1	73.4
30°	105.5	101.5	94.1	88.2	83.0	77.1	71.6	66.8	64.6	64.2	64.6
32.5°	95.2	91.5	84.1	80.5	74.5	67.5	63.1	58.7	56.5	56.8	56.5
35°	74.2	73.1	67.9	69.0	65.7	59.8	55.7	50.9	48.3	48.0	48.7
37.5°	67.5	63.1	57.2	57.6	56.5	54.3	47.6	42.4	40.6	40.6	41.0
40°	62.4	57.9	51.3	48.0	48.3	48.3	41.3	35.8	34.0	33.6	34.3
42.5°	57.9	53.5	46.1	40.6	39.1	41.0	35.1	29.5	27.7	26.9	27.7
45°	55.0	50.2	41.7	35.4	31.0	33.2	28.8	24.4	22.1	22.1	21.8
47.5°	52.0	47.6	38.4	30.6	25.8	24.7	23.6	19.6	17.3	17.0	17.3
50°	49.5	45.0	34.7	26.6	21.8	19.2	19.2	15.5	14.0	13.3	13.7
52.5°	46.9	42.1	31.4	23.6	18.8	15.5	13.7	12.5	11.4	11.1	11.4
55°	43.2	38.4	28.0	20.3	16.2	12.9	10.7	10.3	9.6	8.9	9.6
57.5°	38.8	34.3	24.7	17.3	12.9	10.0	8.9	8.5	7.8	7.4	7.4
59°	36.2	32.1	22.9	15.1	11.4	8.9	8.1	7.8	7.0	6.3	6.6
60°	34.7	31.4	21.8	14.0	10.3	8.1	7.4	7.0	6.3	5.9	6.3
62.5°	30.6	28.0	19.2	11.4	8.1	5.9	5.2	5.5	5.2	4.8	5.2
65°	26.9	24.7	16.2	8.9	6.3	4.1	3.7	4.8	4.4	4.1	4.4
67.5°	24.0	21.4	13.7	6.6	4.4	2.2	2.6	4.1	4.1	3.7	4.1
70°	20.7	18.5	11.1	4.8	2.2	1.1	1.8	3.0	3.7	3.3	3.7
72.5°	17.0	14.4	8.5	3.3	1.1	0.0	1.1	2.6	3.7	3.3	3.7
75°	13.3	10.7	6.3	1.8	0.0	0.0	0.4	2.2	3.7	3.3	3.7
77.5°	9.6	7.8	3.7	0.4	0.0	0.0	0.4	2.2	3.7	3.3	3.7
80°	6.3	5.5	1.5	0.0	0.0	0.0	0.4	2.2	3.7	3.7	4.1
82.5°	4.1	3.0	0.0	0.0	0.0	0.0	0.7	3.0	4.1	4.4	4.4
85°	1.8	0.0	0.0	0.0	0.0	0.0	1.5	3.7	4.8	4.8	4.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.7	2.6	4.4	5.5	5.5	5.5
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°	1604.6	1604.6	1604.6	1604.6	1604.6	1604.6	1604.6	1604.6	1604.6	1604.6	1604.6
2.5°	1319.7	1343.0	1375.8	1426.4	1467.4	1531.9	1581.4	1648.9	1717.2	1737.9	1770.0
5°	971.4	1001.2	1075.8	1143.7	1186.5	1323.1	1409.4	1545.6	1667.8	1726.4	1790.3
7.5°	674.6	710.1	766.9	861.7	951.8	1062.9	1202.4	1358.1	1537.1	1620.9	1710.9
10°	473.5	517.8	597.9	675.7	789.0	894.6	1032.2	1204.2	1401.7	1500.6	1613.5
12.5°	298.9	338.4	444.3	531.8	673.2	795.7	922.6	1078.4	1307.2	1408.7	1527.1
15°	170.9	204.1	253.5	365.7	522.6	684.6	842.9	1023.8	1258.8	1384.0	1512.0
17.5°	127.3	136.2	158.3	221.8	364.6	554.0	769.5	1007.1	1291.7	1438.6	1584.7
20°	107.0	112.9	123.3	148.4	232.5	426.6	697.9	1010.1	1398.0	1582.5	1721.3
22.5°	96.0	99.6	108.1	124.4	158.7	310.7	614.1	1027.4	1526.8	1759.3	1919.4
25°	84.1	88.9	96.3	110.3	132.1	215.5	531.4	1066.2	1707.2	1983.7	2134.2
27.5°	74.9	79.3	86.7	99.6	115.9	164.6	435.1	1099.4	1897.7	2209.5	2332.8
30°	65.7	70.1	77.5	87.8	102.6	133.2	331.4	1119.0	2082.6	2378.9	2473.8
32.5°	57.9	61.6	68.6	77.9	90.0	112.9	261.3	1098.7	2223.9	2532.8	2596.3
35°	50.2	54.6	60.5	69.0	79.7	96.3	217.4	1028.6	2345.3	2691.1	2714.0
37.5°	42.1	47.2	53.5	61.3	69.8	88.6	174.6	951.1	2475.2	2888.6	2850.9
40°	35.4	40.2	46.1	54.6	62.4	81.2	134.3	868.4	2615.5	3073.9	3000.4
42.5°	28.8	34.0	41.0	48.7	61.6	70.9	104.1	782.8	2741.3	3235.1	3135.5
45°	22.9	27.3	34.7	44.7	61.3	60.9	80.5	698.3	2836.2	3350.3	3236.2
47.5°	18.1	21.8	29.2	43.5	56.5	51.7	64.6	645.8	2935.8	3454.0	3313.4
50°	14.4	18.1	25.1	45.4	49.5	44.3	54.3	654.3	3032.1	3506.8	3345.1
52.5°	12.2	15.9	21.8	35.8	38.0	38.8	47.6	693.5	3156.5	3563.2	3408.2
55°	10.7	14.0	18.5	25.1	29.5	34.7	43.5	721.9	3323.0	3684.3	3547.3
57.5°	8.5	12.2	16.6	21.4	24.4	30.3	40.2	724.1	3473.5	3839.6	3732.2
59°	7.8	11.1	15.5	20.3	21.8	27.3	38.0	705.3	3479.1	3862.9	3817.1
60°	7.0	10.7	14.8	18.8	20.7	25.8	36.2	683.5	3428.9	3826.0	3852.2
62.5°	5.9	9.2	12.9	15.1	17.7	21.4	31.4	604.5	3185.7	3658.8	3787.2
65°	5.2	8.1	11.1	12.5	14.8	18.5	27.7	483.8	2917.0	3432.2	3601.2
67.5°	4.8	7.4	9.6	10.7	12.9	17.0	24.7	341.7	2569.0	3144.7	3321.9
70°	4.4	7.0	8.5	10.0	11.4	14.4	21.0	199.3	1978.9	2640.6	2827.7
72.5°	4.4	6.6	7.4	8.5	10.0	12.9	19.6	107.8	1353.0	2014.3	2256.0
75°	4.4	6.3	6.6	7.4	8.9	11.8	17.3	56.5	874.7	1399.5	1727.2
77.5°	4.4	5.9	6.6	7.0	8.5	10.3	15.1	35.4	582.7	980.2	1167.3
80°	4.8	5.9	6.3	7.0	8.1	9.6	12.5	23.6	342.5	589.7	710.4
82.5°	5.2	5.9	6.6	7.4	8.5	9.2	11.1	14.8	158.0	390.1	441.4
85°	5.5	6.3	7.0	7.8	8.9	9.2	10.3	10.7	25.8	176.0	238.0
87.5°	5.9	6.6	7.4	8.1	9.6	9.6	9.6	9.6	8.9	18.8	48.0
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1604.6	1604.6	1604.6	1604.6	1604.6	1604.6	1604.6	1604.6	1604.6	1604.6
2.5°	1810.6	1852.3	1881.4	1888.8	1867.8	1858.2	1831.6	1790.3	1765.2	1764.1
5°	1908.0	2005.8	2073.7	2085.2	2044.6	1975.9	1894.4	1789.2	1727.5	1709.1
7.5°	1891.4	2062.6	2171.9	2187.8	2119.5	1988.5	1830.5	1661.1	1593.9	1565.5
10°	1823.1	2032.0	2188.1	2213.2	2122.1	1937.5	1736.8	1547.8	1464.4	1442.6
12.5°	1764.8	1975.9	2114.7	2149.4	2080.4	1896.2	1680.7	1475.1	1385.8	1365.5
15°	1739.4	1909.5	1994.4	2012.1	2000.6	1870.4	1674.8	1464.0	1361.8	1339.7
17.5°	1764.8	1853.0	1863.7	1881.8	1907.3	1867.8	1731.6	1524.2	1413.8	1386.5
20°	1831.6	1803.9	1759.6	1767.4	1825.7	1878.5	1832.7	1657.4	1523.1	1493.9
22.5°	1945.3	1791.8	1691.4	1684.7	1758.5	1914.3	1981.1	1837.9	1682.1	1653.4
25°	2084.8	1822.4	1666.3	1651.9	1732.3	1966.7	2142.4	2059.0	1888.8	1844.9
27.5°	2236.8	1885.9	1666.3	1652.3	1730.1	2013.2	2280.4	2254.6	2102.9	2054.9
30°	2320.2	1938.3	1690.3	1674.4	1757.4	2040.1	2354.2	2428.4	2263.8	2204.4
32.5°	2394.8	2011.0	1737.1	1707.2	1814.6	2080.0	2420.3	2576.0	2391.8	2352.0
35°	2463.4	2088.8	1801.7	1767.0	1889.9	2134.6	2493.3	2731.0	2570.1	2509.9
37.5°	2539.1	2179.3	1902.5	1872.9	2015.8	2240.9	2580.1	2934.7	2745.4	2669.7
40°	2621.4	2284.1	2068.2	2055.6	2215.8	2361.2	2689.7	3152.1	2945.4	2859.4
42.5°	2705.2	2404.8	2271.2	2291.8	2442.4	2529.9	2802.2	3319.3	3109.3	3014.4
45°	2781.2	2559.0	2535.0	2637.3	2706.6	2694.5	2885.6	3437.0	3252.1	3161.3
47.5°	2877.1	2783.8	2854.3	3011.8	3013.7	2873.5	2948.7	3533.3	3375.0	3284.2
50°	2984.5	3049.1	3266.5	3427.0	3383.9	3049.5	3022.6	3647.4	3502.0	3429.2
52.5°	3108.9	3346.2	3647.4	3825.6	3724.9	3241.4	3145.4	3770.6	3703.5	3633.7
55°	3253.6	3548.8	4027.1	4169.2	4067.7	3479.8	3332.2	3937.8	3931.2	3883.6
57.5°	3417.1	3762.9	4247.1	4439.4	4348.9	3759.6	3593.1	4095.4	4070.3	4043.7
59°	3546.2	3872.9	4344.1	4543.4	4488.8	3955.5	3768.4	4193.6	4102.4	4062.5
60°	3624.5	3947.4	4379.9	4557.4	4544.9	4072.1	3879.5	4241.5	4102.0	4046.7
62.5°	3856.6	4077.7	4366.3	4495.1	4544.2	4295.8	4205.4	4294.3	4026.0	3944.8
65°	3939.3	4034.5	4140.0	4124.2	4166.3	4284.3	4413.5	4236.4	3863.6	3748.1
67.5°	3778.4	3561.0	3598.3	3492.4	3471.7	3809.0	4329.0	3952.9	3545.9	3404.5
70°	3184.9	2728.0	2709.2	2757.9	2624.3	3083.8	3887.2	3407.1	3021.4	2861.3
72.5°	2507.0	1927.9	1769.2	1948.6	1944.5	2352.7	3229.2	2417.7	2041.2	2027.6
75°	1971.5	1342.2	1178.0	1207.2	1263.3	1703.2	2571.9	1535.3	1257.0	1145.5
77.5°	1323.4	951.1	887.2	851.4	911.9	1093.5	1627.2	832.6	704.9	667.6
80°	762.8	690.9	784.6	712.3	744.8	689.0	809.3	382.0	317.0	343.2
82.5°	496.4	393.4	419.2	311.5	425.9	429.6	259.8	112.9	95.6	101.5
85°	310.4	184.5	103.7	73.8	146.9	270.1	81.2	7.0	8.1	7.0
87.5°	80.5	30.6	12.9	19.2	23.6	21.0	18.8	1.1	0.4	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)