

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: P453192

Luminaire Tested: **GALN-SA4B-722-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453192  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA4B-722-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14264 lumens  
Efficiency: N/A  
Efficacy: 87.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

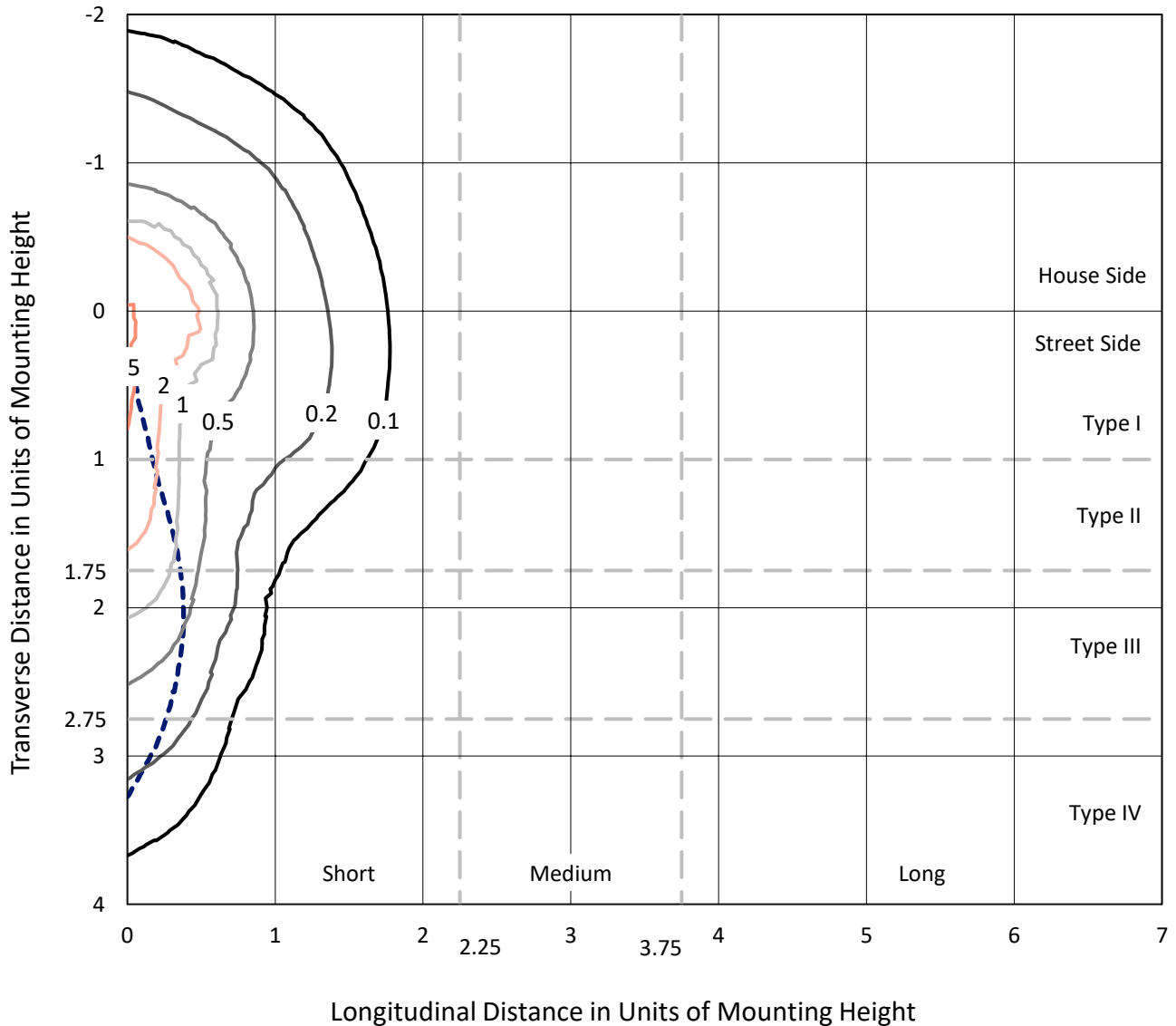
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

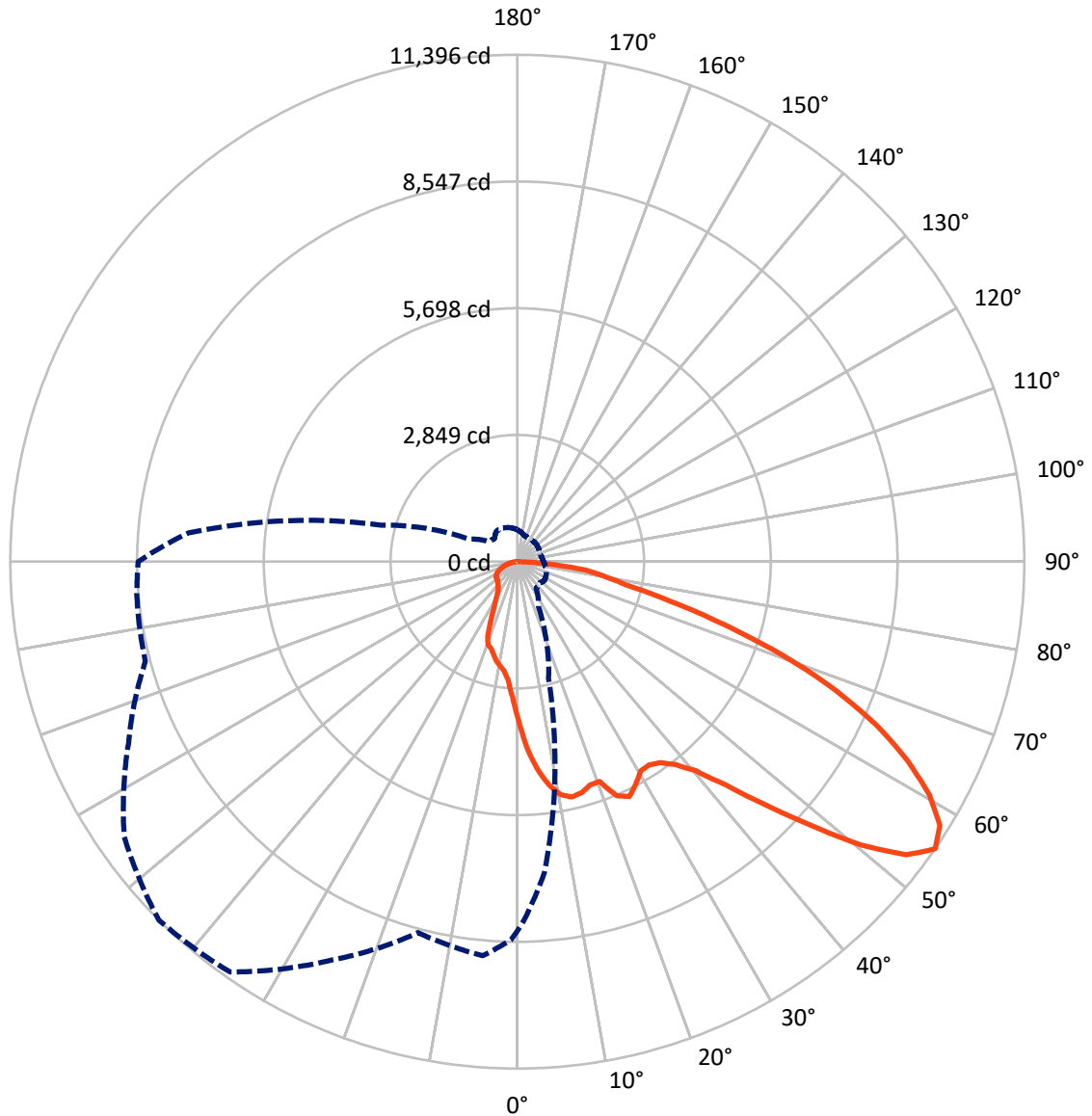
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3120.2	0.0	3120.2
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	11143.8	0.0	11143.8
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	14264.0	0.0	14264.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	303.4	2.1
10°-20°	804.9	5.6
20°-30°	1390.5	9.7
30°-40°	1616.0	11.3
40°-50°	2254.6	15.8
50°-60°	3059.3	21.4
60°-70°	2910.5	20.4
70°-80°	1572.4	11.0
80°-90°	352.4	2.5
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°	14264.0	100.0
0°-180°	14264.0	100.0

**Coefficient of Utilization**



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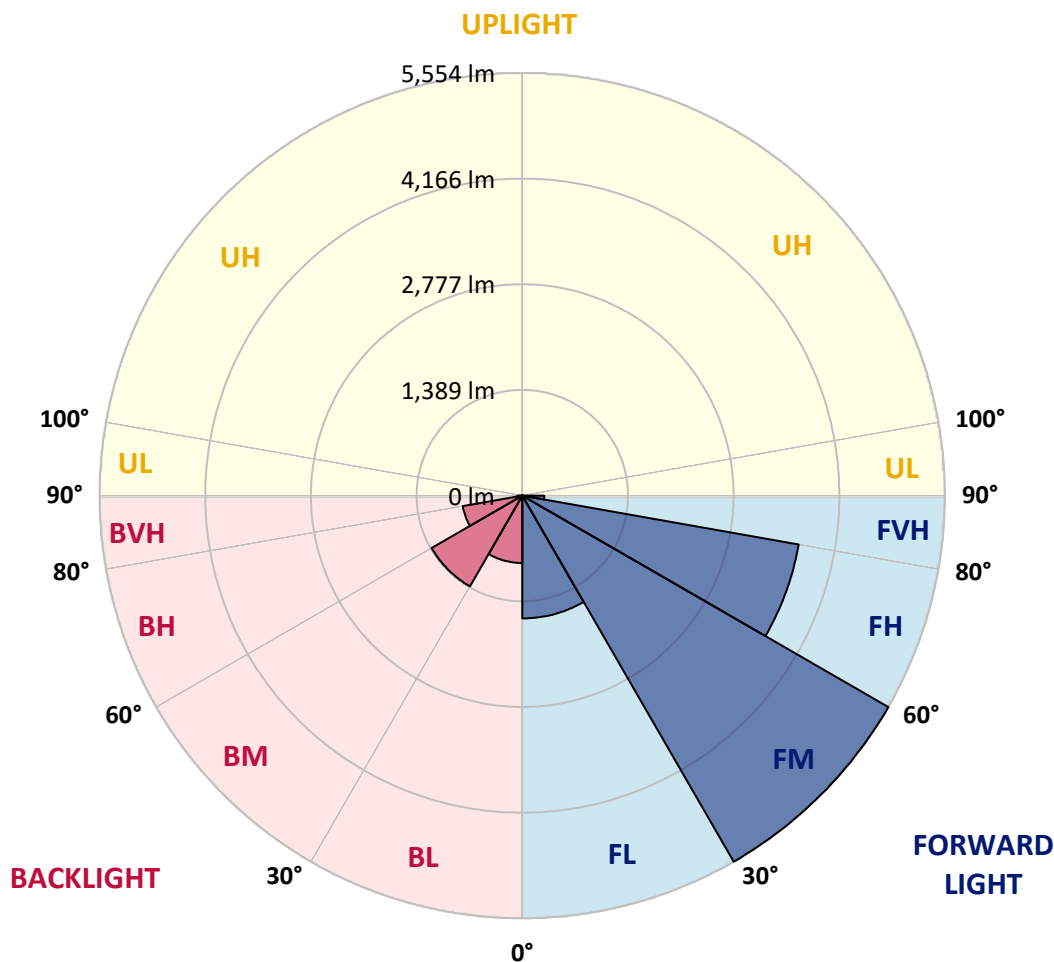
CATALOG NUMBER: GALN-SA4B-722-U-SLR

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1613.3	11.3			
FM	(30°-60°)	5554.1	38.9			
FH	(60°-80°)	3688.4	25.9			G2/5000
FVH	(80°-90°)	288.0	2.0			G3/500
BL	(0°-30°)	885.5	6.2	B2/1000		
BM	(30°-60°)	1375.8	9.6	B2/2500		
BH	(60°-80°)	794.5	5.6	B2/1000		G2/1000
BVH	(80°-90°)	64.4	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3579.7	3579.7	3579.7	3579.7	3579.7	3579.7	3579.7	3579.7	3579.7	3579.7	3579.7
2.5°	3976.8	3961.8	3919.4	3808.4	3696.4	3582.5	3495.0	3385.9	3272.0	3210.8	3132.7
5°	4031.4	4014.5	3914.7	3664.4	3437.6	3199.5	3009.4	2842.9	2775.1	2675.4	2595.4
7.5°	3903.4	3895.9	3746.3	3386.8	3076.3	2764.8	2549.3	2415.6	2294.2	2249.1	2258.5
10°	3786.7	3756.6	3569.4	3099.8	2737.5	2484.3	2330.0	2199.2	2113.6	2091.0	2095.7
12.5°	3689.8	3649.3	3428.2	2906.9	2589.7	2387.4	2190.7	2054.3	1976.2	1997.8	2071.2
15°	3670.0	3615.5	3368.9	2841.0	2508.8	2248.1	2032.6	1875.5	1817.1	1864.2	1981.8
17.5°	3798.0	3729.3	3470.5	2862.6	2431.6	2106.0	1841.6	1661.9	1612.9	1688.2	1841.6
20°	4209.3	4107.6	3787.7	2987.8	2424.1	2035.5	1730.6	1549.9	1570.6	1713.6	1873.6
22.5°	4969.6	4817.2	4342.9	3170.4	2463.6	2017.6	1708.0	1613.9	1727.7	1849.1	1954.5
25°	5120.2	5000.7	4442.6	3211.8	2455.2	2005.4	1772.0	1819.0	1946.1	2006.3	1969.6
27.5°	5204.9	5068.4	4436.1	3006.6	2195.4	1819.0	1693.9	1772.0	1804.0	1745.6	1645.9
30°	5402.5	5260.4	4548.0	2791.1	1807.7	1349.4	1182.9	1150.9	1172.5	1183.8	1148.1
32.5°	5674.5	5534.2	4758.8	2650.0	1563.1	1116.1	952.3	907.2	896.8	884.6	870.5
35°	6026.4	5810.9	4965.9	2559.6	1462.4	1032.3	881.8	846.9	832.8	815.9	800.8
37.5°	6384.0	6158.1	5227.5	2464.6	1395.6	974.0	834.7	818.7	794.2	776.4	754.7
40°	6764.2	6511.0	5465.5	2381.8	1330.6	936.3	800.8	798.9	766.9	746.2	720.8
42.5°	7093.5	6832.9	5678.2	2330.9	1280.8	896.8	780.1	785.8	752.8	721.8	688.8
45°	7355.1	7099.2	5874.9	2330.9	1240.3	857.3	776.4	772.6	739.7	701.1	663.4
47.5°	7584.8	7320.3	6066.9	2390.2	1214.9	824.3	755.7	762.2	728.4	679.4	642.7
50°	7762.6	7529.2	6325.7	2482.5	1189.5	798.0	729.3	765.1	719.0	668.1	625.8
52.5°	7989.4	7780.5	6637.1	2608.6	1167.8	768.8	705.8	765.1	718.0	669.1	623.0
55°	8303.7	8083.5	7012.6	2713.0	1133.0	741.5	685.1	743.4	715.2	664.4	615.4
57.5°	8523.9	8359.2	7278.0	2782.6	1083.1	706.7	666.3	722.7	703.0	646.5	592.9
58°	8534.3	8373.4	7316.6	2798.6	1070.9	700.1	661.5	713.3	697.3	639.0	585.3
60°	8415.7	8277.4	7324.1	2776.1	1001.3	667.2	637.1	674.7	667.2	594.7	544.9
62.5°	7984.7	7837.0	7020.1	2592.6	909.0	626.7	599.4	623.0	606.0	532.6	486.5
65°	7372.1	7100.1	6395.3	2304.6	843.2	583.4	548.6	550.5	532.6	479.9	439.5
67.5°	6556.2	6252.3	5414.7	1942.3	793.3	535.5	488.4	483.7	462.0	428.2	395.2
70°	5552.1	5344.2	4400.3	1580.0	737.8	482.8	420.6	417.8	404.6	379.2	350.1
72.5°	4500.0	4235.6	3553.4	1264.8	670.0	431.9	357.6	363.2	346.3	328.4	302.1
75°	3320.9	3147.8	2746.9	1014.4	578.7	376.4	298.3	300.2	292.7	273.8	253.1
77.5°	2187.0	2135.2	1964.9	666.3	445.1	299.2	243.7	245.6	240.0	223.0	201.4
80°	1471.8	1437.0	1331.6	429.1	297.4	216.4	188.2	190.1	189.1	171.3	142.1
82.5°	907.2	892.1	858.2	289.8	206.1	155.3	124.2	129.9	140.2	120.5	96.9
85°	428.2	429.1	518.5	158.1	121.4	99.7	67.8	72.5	72.5	72.5	54.6
87.5°	55.5	58.3	71.5	66.8	44.2	37.6	24.5	20.7	17.9	23.5	16.9
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°	3579.7	3579.7	3579.7	3579.7	3579.7	3579.7	3579.7	3579.7	3579.7	3579.7	3579.7
2.5°	3105.4	3086.6	3046.1	3036.7	3031.1	3047.1	3004.7	3016.0	2997.2	3049.9	3041.4
5°	2600.1	2602.0	2634.9	2656.5	2664.1	2656.5	2628.3	2579.4	2541.7	2526.7	2530.4
7.5°	2240.6	2273.5	2330.0	2393.1	2450.5	2467.4	2451.4	2358.2	2256.6	2192.6	2171.9
10°	2121.1	2165.3	2230.3	2280.1	2330.9	2371.4	2379.9	2307.4	2187.0	2035.5	1976.2
12.5°	2127.7	2187.9	2250.0	2266.0	2261.3	2277.3	2269.8	2257.5	2178.5	1985.6	1886.8
15°	2065.6	2137.1	2180.4	2171.9	2156.9	2142.7	2123.0	2091.9	2063.7	1928.2	1819.0
17.5°	1922.5	1995.9	2031.7	2034.5	2034.5	2030.8	1982.8	1971.5	1967.7	1901.8	1835.0
20°	1948.9	1989.4	1973.4	1947.0	1954.5	1979.9	1951.7	1946.1	1967.7	1996.9	1984.6
22.5°	1963.9	1949.8	1829.4	1712.7	1686.3	1765.4	1781.4	1844.4	1932.0	2037.3	2106.0
25°	1870.8	1756.9	1541.4	1409.7	1335.3	1408.7	1504.7	1621.4	1752.2	1887.7	1967.7
27.5°	1564.0	1477.4	1323.1	1204.5	1139.6	1150.9	1232.8	1339.1	1460.5	1551.8	1610.1
30°	1178.2	1139.6	1059.6	1019.1	979.6	970.2	1005.0	1045.5	1099.1	1110.4	1125.5
32.5°	867.6	862.0	866.7	853.5	846.0	845.1	834.7	844.1	849.8	856.3	843.2
35°	784.8	777.3	764.1	760.4	755.7	757.5	752.8	748.1	751.9	757.5	761.3
37.5°	742.5	731.2	712.4	705.8	705.8	708.6	701.1	699.2	705.8	723.7	733.1
40°	709.5	696.4	674.7	666.3	671.9	679.4	669.1	665.3	681.3	700.1	715.2
42.5°	678.5	668.1	647.4	638.0	642.7	656.8	641.8	639.0	659.7	680.4	698.2
45°	652.1	641.8	623.0	618.3	620.1	633.3	623.0	623.0	642.7	665.3	681.3
47.5°	631.4	618.3	606.0	602.3	604.1	611.7	609.8	609.8	628.6	652.1	668.1
50°	610.7	599.4	583.4	585.3	590.0	600.4	599.4	602.3	621.1	650.3	667.2
52.5°	601.3	584.4	566.5	568.4	582.5	594.7	591.0	593.8	615.4	670.0	694.5
55°	591.0	568.4	547.7	550.5	566.5	584.4	579.7	583.4	608.9	683.2	717.1
57.5°	571.2	544.9	522.3	524.2	547.7	566.5	559.0	563.7	593.8	669.1	704.8
58°	562.7	540.2	518.5	519.5	542.0	562.7	554.3	558.0	589.1	665.3	699.2
60°	527.0	513.8	495.0	495.9	517.6	535.5	530.7	534.5	564.6	638.0	663.4
62.5°	478.0	470.5	465.8	465.8	479.0	495.9	500.6	505.3	532.6	576.9	599.4
65°	425.3	425.3	426.3	426.3	434.8	456.4	459.2	471.5	496.9	518.5	535.5
67.5°	389.6	387.7	389.6	384.9	388.6	401.8	415.9	427.2	453.6	468.6	474.3
70°	343.5	342.5	343.5	336.9	341.6	352.9	362.3	381.1	408.4	419.7	422.5
72.5°	298.3	298.3	300.2	295.5	295.5	307.7	314.3	335.0	360.4	367.0	367.9
75°	251.3	254.1	254.1	247.5	249.4	256.9	265.4	282.3	305.8	310.5	310.5
77.5°	199.5	209.9	209.9	203.3	206.1	207.0	218.3	226.8	244.7	246.6	239.0
80°	144.9	155.3	163.7	158.1	162.8	157.2	163.7	169.4	187.3	178.8	166.6
82.5°	103.5	111.0	117.6	118.6	113.9	103.5	112.0	112.9	121.4	110.1	103.5
85°	57.4	64.0	72.5	68.7	61.2	54.6	57.4	59.3	58.3	55.5	51.8
87.5°	15.1	16.0	17.9	13.2	12.2	10.4	14.1	14.1	16.0	16.9	16.0
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°	3579.7	3579.7	3579.7	3579.7	3579.7	3579.7	3579.7	3579.7	3579.7	3579.7	3579.7
2.5°	3048.0	3089.4	3178.8	3246.6	3329.4	3430.1	3548.7	3668.2	3797.1	3837.6	3894.0
5°	2522.0	2625.5	2668.8	2792.1	2914.4	3097.9	3293.6	3520.4	3768.9	3888.4	4003.2
7.5°	2155.0	2210.5	2255.7	2346.0	2492.8	2715.8	2961.4	3244.7	3596.6	3770.7	3939.2
10°	1957.4	1963.0	2018.5	2130.5	2258.5	2455.2	2687.6	3004.7	3397.1	3608.9	3806.5
12.5°	1826.6	1802.1	1862.3	1979.0	2123.9	2305.5	2519.2	2821.2	3253.2	3470.5	3709.6
15°	1711.7	1673.2	1718.3	1837.8	1980.9	2194.5	2424.1	2744.1	3196.7	3449.8	3715.2
17.5°	1714.6	1608.2	1624.2	1724.9	1867.0	2084.4	2362.9	2741.2	3282.3	3574.1	3888.4
20°	1926.3	1756.0	1683.5	1702.3	1839.7	2076.9	2391.2	2873.0	3563.7	3989.1	4325.0
22.5°	2134.3	2031.7	1915.0	1876.4	1951.7	2200.1	2570.9	3184.5	4175.4	4816.2	5423.2
25°	2061.8	2149.3	2120.2	2065.6	2082.5	2288.6	2693.2	3440.4	4650.6	5372.4	5942.7
27.5°	1649.6	1808.7	1840.7	1839.7	1846.3	2015.7	2422.2	3268.2	4709.9	5478.7	6023.6
30°	1159.4	1173.5	1190.4	1223.3	1253.5	1405.0	1895.2	2869.2	4683.5	5526.7	6072.5
32.5°	836.6	855.4	878.9	924.1	995.6	1188.5	1658.1	2742.2	4822.8	5725.3	6215.6
35°	765.1	786.7	809.3	861.0	928.8	1107.6	1564.0	2689.5	5051.5	6047.1	6472.5
37.5°	742.5	766.9	786.7	824.3	878.9	1049.3	1478.4	2653.7	5285.8	6387.8	6816.9
40°	726.5	754.7	770.7	800.8	838.5	995.6	1402.1	2625.5	5512.6	6699.2	7093.5
42.5°	712.4	741.5	762.2	783.9	814.9	947.6	1334.4	2597.3	5709.3	7001.3	7369.3
45°	695.4	732.1	758.5	775.4	802.7	907.2	1282.6	2574.7	5933.2	7269.5	7647.8
47.5°	681.3	721.8	754.7	774.5	784.8	878.9	1241.2	2605.7	6202.4	7549.9	7906.6
50°	682.3	720.8	762.2	793.3	766.0	855.4	1215.8	2729.0	6552.4	7883.1	8110.8
52.5°	712.4	759.4	792.4	799.9	739.7	827.2	1202.6	2944.5	6966.5	8177.6	8316.9
55°	746.2	795.2	830.9	826.2	725.5	791.4	1199.8	3174.1	7420.1	8521.1	8585.1
57.5°	734.0	805.5	860.1	835.6	726.5	756.6	1187.6	3359.5	7799.3	8778.0	8850.5
58°	730.2	801.8	863.9	833.8	723.7	746.2	1184.8	3375.5	7852.0	8795.9	8888.1
60°	693.5	768.8	861.0	819.6	707.7	718.0	1153.7	3427.3	7837.9	8703.7	8910.7
62.5°	626.7	688.8	796.1	750.9	658.7	680.4	1084.1	3363.3	7455.8	8259.5	8580.4
65°	551.4	597.6	669.1	660.6	589.1	641.8	989.0	3110.1	6690.8	7538.7	7876.5
67.5°	495.0	532.6	577.8	565.6	529.8	590.0	886.5	2682.0	5832.6	6672.9	7098.2
70°	437.6	466.8	489.3	480.9	469.6	539.2	795.2	2176.6	5010.1	5850.4	6262.6
72.5°	379.2	406.5	425.3	413.1	406.5	485.6	720.8	1689.2	3957.1	4826.6	5356.4
75°	317.1	344.4	357.6	343.5	339.7	428.2	610.7	1261.9	2969.0	3720.9	4178.2
77.5°	245.6	274.8	291.7	287.0	288.9	351.9	493.1	863.9	2123.0	2536.1	3017.9
80°	172.2	204.2	215.5	210.8	224.0	268.2	348.2	548.6	1464.3	1645.9	1985.6
82.5°	106.3	136.5	138.3	143.0	152.4	198.6	262.5	334.1	919.4	950.4	1197.0
85°	53.6	64.9	69.6	77.2	85.6	121.4	149.6	207.0	591.9	447.9	669.1
87.5°	17.9	18.8	22.6	28.2	34.8	49.9	64.0	84.7	146.8	80.9	207.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P453192

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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3579.7	3579.7	3579.7	3579.7	3579.7	3579.7	3579.7	3579.7	3579.7	3579.7
2.5°	4007.9	4087.9	4146.2	4199.9	4148.1	4143.4	4092.6	4010.7	3976.8	3976.8
5°	4244.1	4431.3	4582.9	4679.8	4638.4	4538.6	4373.9	4164.1	4051.2	4031.4
7.5°	4309.0	4678.8	4960.2	5060.0	4990.3	4770.1	4454.9	4101.0	3939.2	3903.4
10°	4269.5	4750.4	5163.5	5321.6	5224.6	4891.5	4461.5	4027.6	3828.1	3786.7
12.5°	4228.1	4759.8	5201.1	5429.8	5366.7	4989.4	4509.5	3979.6	3749.1	3689.8
15°	4258.2	4763.5	5155.0	5391.2	5431.7	5107.0	4588.5	4014.5	3733.1	3670.0
17.5°	4448.3	4835.1	5089.1	5280.2	5422.3	5267.0	4813.4	4181.0	3876.1	3798.0
20°	4845.4	5006.3	5126.8	5274.5	5503.2	5593.5	5273.6	4638.4	4278.0	4209.3
22.5°	5995.4	5966.2	5719.6	5716.8	6048.0	6410.3	6388.7	5568.1	5026.1	4969.6
25°	6426.3	6290.8	5934.2	5847.6	5993.5	6552.4	6471.5	5758.2	5257.6	5120.2
27.5°	6257.9	5921.9	5687.6	5667.9	5619.9	6147.8	6342.6	5835.4	5338.5	5204.9
30°	6247.5	5753.5	5418.5	5458.0	5504.1	6008.5	6414.1	6077.2	5545.5	5402.5
32.5°	6273.0	5777.0	5438.3	5445.8	5583.2	6029.2	6493.2	6340.7	5817.5	5674.5
35°	6375.5	5910.7	5564.4	5546.5	5761.0	6164.7	6627.7	6754.8	6189.2	6026.4
37.5°	6541.2	6177.0	5794.9	5790.2	6101.7	6409.4	6795.2	7172.6	6559.0	6384.0
40°	6784.9	6488.5	6205.2	6179.8	6564.7	6807.5	7012.6	7617.7	6989.1	6764.2
42.5°	7079.4	6862.0	6746.3	6847.0	7216.8	7254.5	7351.4	8028.9	7355.1	7093.5
45°	7352.3	7342.0	7502.9	7770.1	7985.6	7759.8	7705.2	8304.7	7639.3	7355.1
47.5°	7677.0	7957.4	8443.0	8834.5	9060.3	8347.9	8007.3	8484.4	7846.4	7584.8
50°	8006.3	8694.2	9469.7	10015.5	10063.5	8986.9	8215.3	8653.8	8034.6	7762.6
52.5°	8352.6	9282.4	10314.7	10949.0	10855.8	9543.1	8416.6	8768.6	8228.4	7989.4
55°	8653.8	9642.8	10787.1	11396.0	11259.5	9881.8	8634.0	8892.8	8505.1	8303.7
57.5°	8822.2	9672.9	10669.5	11201.2	11053.4	9816.0	8733.8	8985.0	8682.0	8523.9
58°	8846.7	9632.5	10565.0	11088.2	10937.7	9760.4	8732.8	8981.3	8693.3	8534.3
60°	8825.1	9369.9	10176.4	10642.2	10484.1	9412.3	8697.1	8910.7	8550.3	8415.7
62.5°	8624.6	8914.4	9505.4	9844.2	9799.0	8868.3	8550.3	8644.4	8114.6	7984.7
65°	8361.1	8293.4	8646.3	8886.2	8920.1	8460.9	8404.4	8068.5	7555.6	7372.1
67.5°	8041.2	7589.5	7588.5	7725.0	7781.4	7834.1	8100.5	7442.7	6750.1	6556.2
70°	7498.2	6504.5	6205.2	6366.1	6319.1	6764.2	7557.5	6563.7	5778.9	5552.1
72.5°	6502.6	5161.6	4682.6	4889.6	4771.1	5304.6	6612.7	5401.6	4778.6	4500.0
75°	5270.8	3861.1	3367.0	3557.1	3483.7	4023.9	5502.2	3923.2	3427.3	3320.9
77.5°	4092.6	2797.7	2510.7	2484.3	2538.9	2994.4	4036.1	2649.0	2259.4	2187.0
80°	2629.3	2002.5	2019.5	1985.6	2013.8	1887.7	2450.5	1690.1	1530.1	1471.8
82.5°	1730.6	1395.6	1663.8	1535.8	1458.6	1269.5	1607.3	1106.7	939.2	907.2
85°	1179.1	1027.6	935.4	715.2	842.2	977.7	1205.5	595.7	472.4	428.2
87.5°	532.6	357.6	262.5	161.9	256.0	295.5	585.3	69.6	53.6	55.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)