

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: P532606

Luminaire Tested: **GALN-SA8A-727-U-SLR-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532606  
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-SA8A-727-U-SLR-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 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: 23001 lumens  
Efficiency: N/A  
Efficacy: 94.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

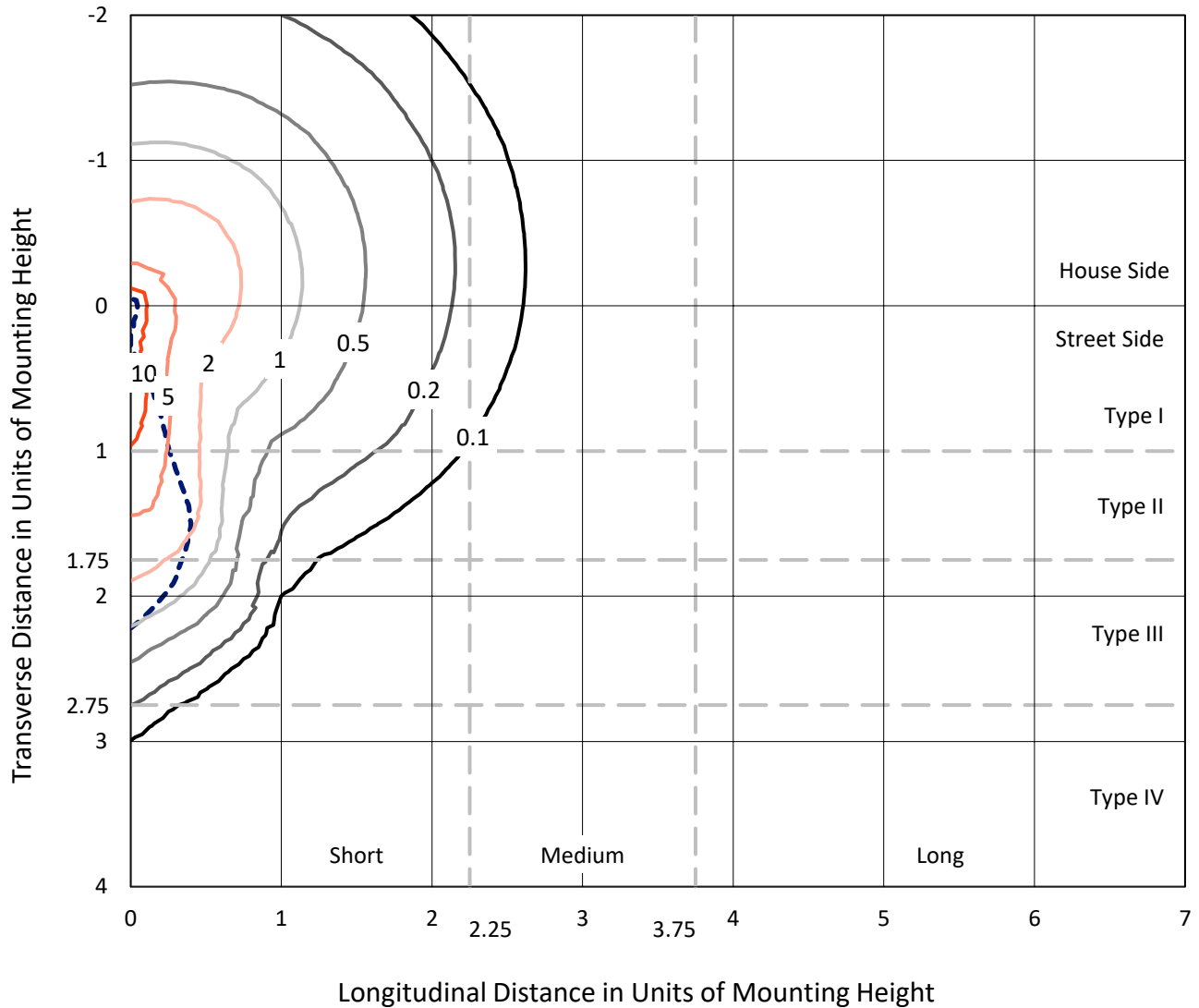
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

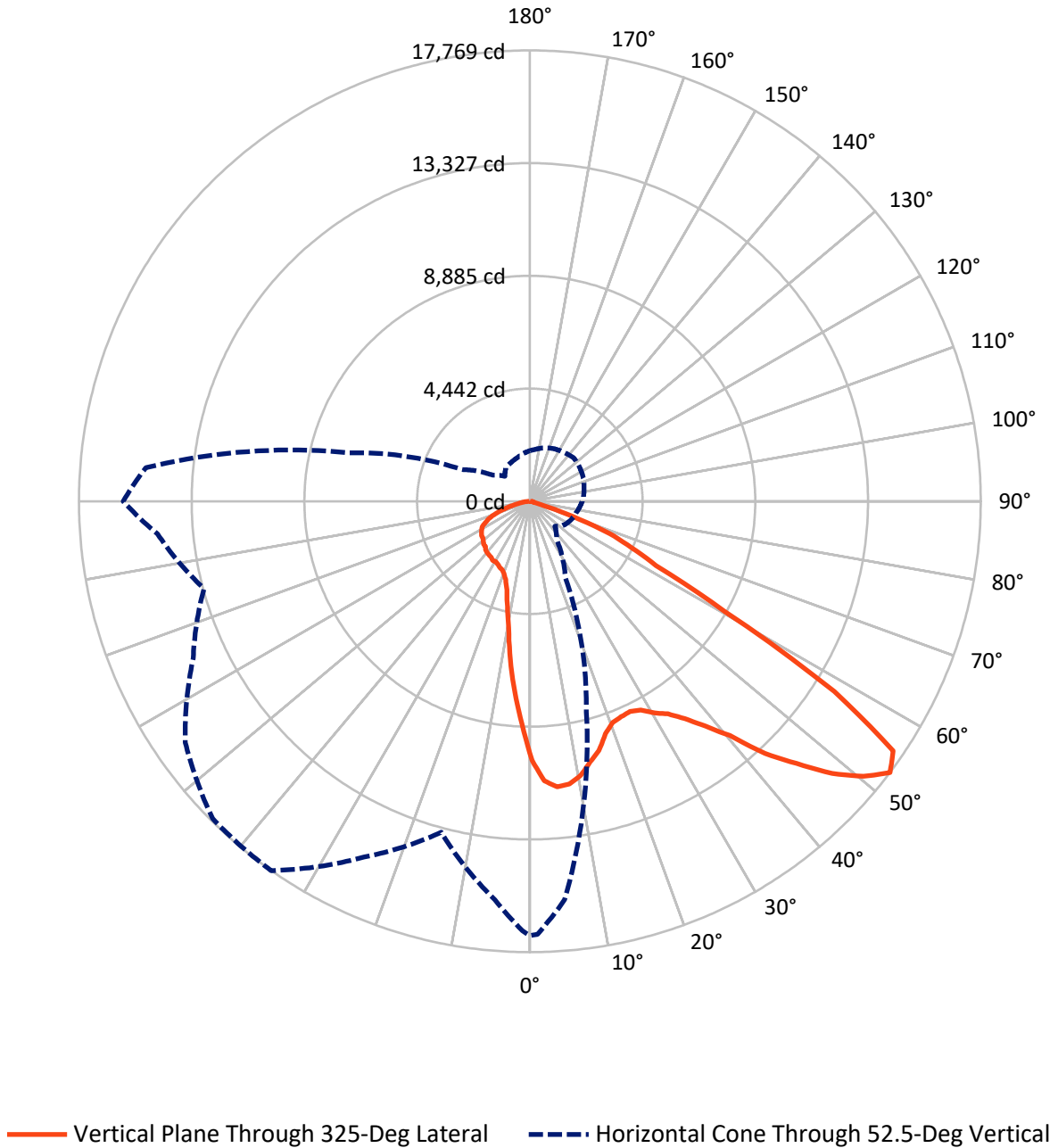
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot





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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6933.8	0.0	6933.8
	% Fixture	30.1	0.0	30.1
<b>Street Side</b>	Lumens	16067.2	0.0	16067.2
	% Fixture	69.9	0.0	69.9
<b>Total</b>	Lumens	23001.0	0.0	23001.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	778.8	3.4
10°-20°	1688.3	7.3
20°-30°	2550.9	11.1
30°-40°	3686.1	16.0
40°-50°	4905.5	21.3
50°-60°	5487.0	23.9
60°-70°	3092.4	13.4
70°-80°	689.3	3.0
80°-90°	122.8	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°	23001.0	100.0
0°-180°	23001.0	100.0

**Coefficient of Utilization**



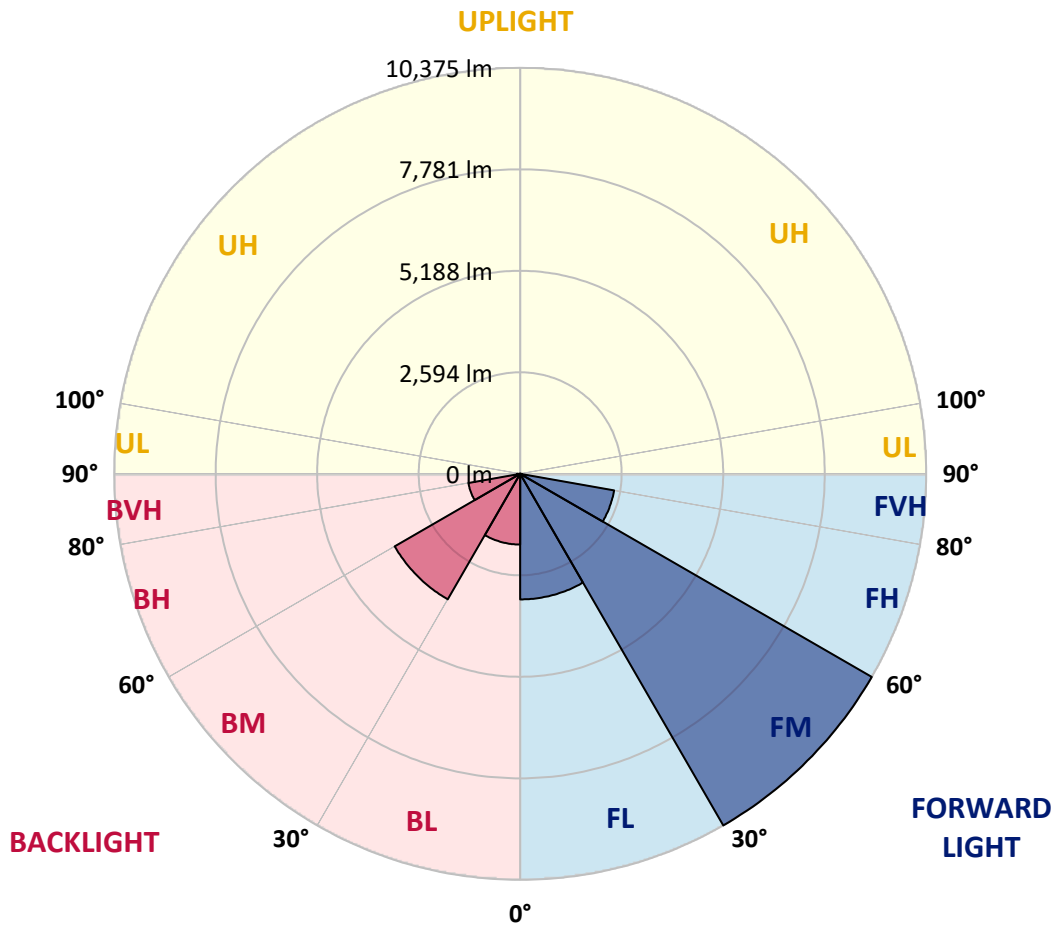
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3209.7	14.0			
FM (30°-60°)	10375.2	45.1			
FH (60°-80°)	2437.8	10.6			G2/5000
FVH (80°-90°)	44.5	0.2			G1/100
BL (0°-30°)	1808.2	7.9	B3/2500		
BM (30°-60°)	3703.4	16.1	B3/5000		
BH (60°-80°)	1344.0	5.8	B3/2500		G3/2500
BVH (80°-90°)	78.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10208.0	10208.0	10208.0	10208.0	10208.0	10208.0	10208.0	10208.0	10208.0	10208.0	10208.0
2.5°	10378.0	10544.7	10364.7	10044.6	9817.9	9611.2	9394.5	9351.2	9067.8	9017.8	8811.1
5°	9787.9	9751.3	9531.2	9111.2	8647.8	8227.7	7917.7	7617.7	7414.3	7177.6	7160.9
7.5°	9071.2	8857.8	8731.1	8094.4	7521.0	6860.9	6577.5	6120.8	5977.4	5764.1	5654.1
10°	8431.1	8274.4	7977.7	7340.9	6540.8	6104.1	5800.7	5554.1	5387.4	5167.3	4890.6
12.5°	8114.4	8051.0	7717.7	6730.9	6137.5	5670.7	5457.4	5217.3	4934.0	4580.6	4443.9
15°	8171.1	7957.7	7704.3	6614.2	5794.1	5344.0	5004.0	4703.9	4340.6	4003.9	3807.2
17.5°	8594.4	8431.1	7924.4	6687.5	5664.1	5014.0	4397.2	3953.8	3627.1	3323.8	3187.1
20°	9427.9	9191.2	8621.1	6780.9	5384.0	4553.9	3847.2	3300.4	2950.4	2790.4	2743.7
22.5°	10351.3	10211.3	9301.2	6990.9	5160.7	4127.2	3263.8	2717.0	2587.0	2543.7	2630.3
25°	11474.8	11111.4	10358.0	7334.3	4987.3	3763.8	2770.4	2467.0	2400.3	2443.6	2543.7
27.5°	12328.3	12231.6	11098.1	7657.7	4750.6	3327.1	2493.7	2293.6	2313.6	2357.0	2450.3
30°	13341.7	12851.7	11814.9	7881.0	4537.3	3027.1	2300.3	2247.0	2267.0	2340.3	2387.0
32.5°	13951.8	13768.4	12264.9	8217.7	4290.6	2767.0	2150.3	2100.3	2130.3	2240.3	2350.3
35°	14728.6	14365.2	12821.7	8304.4	4117.2	2663.7	2043.6	2006.9	2076.9	2153.6	2277.0
37.5°	15635.4	15385.3	13591.8	8244.4	4023.9	2557.0	1953.6	1936.9	1986.9	2093.6	2237.0
40°	16172.1	16095.4	13995.1	8281.1	3877.2	2463.7	1850.2	1870.2	1973.6	2056.9	2197.0
42.5°	16688.8	16188.8	14591.9	8267.7	3783.8	2337.0	1860.2	1836.9	1916.9	2013.6	2146.9
45°	16802.2	16305.4	14731.9	8174.4	3670.5	2213.6	1783.6	1793.6	1890.2	2010.3	2096.9
47.5°	16728.8	16362.1	14991.9	8147.7	3563.8	2126.9	1670.2	1790.2	1846.9	1943.6	2066.9
50°	16678.8	16658.8	15212.0	8274.4	3420.4	1990.3	1533.5	1746.9	1803.6	1900.2	2033.6
52.5°	17118.9	17075.5	15762.0	8607.8	3307.1	1843.6	1393.5	1636.9	1773.6	1866.9	1996.9
55°	17385.6	17195.6	16705.5	9017.8	3117.1	1650.2	1296.8	1500.2	1700.2	1783.6	1916.9
57.5°	15638.7	15508.7	15112.0	8417.8	2797.0	1396.8	1176.8	1360.2	1600.2	1730.2	1866.9
60°	13011.7	12808.3	11791.5	7154.3	2063.6	1086.8	1103.5	1250.2	1573.5	1623.5	1783.6
62.5°	12268.3	11764.9	10381.3	5757.4	1583.5	933.5	990.1	1150.1	1433.5	1516.9	1676.9
65°	9734.6	9361.2	7427.6	4157.2	1060.1	810.1	903.5	1036.8	1236.8	1400.2	1546.9
67.5°	6094.1	5737.4	3963.8	1966.9	740.1	693.4	806.8	946.8	1110.1	1256.8	1420.2
70°	3183.7	2793.7	1830.2	710.1	510.1	566.7	673.4	806.8	966.8	1086.8	1213.5
72.5°	1186.8	963.5	596.7	306.7	353.4	433.4	546.7	643.4	756.8	903.5	973.5
75°	183.4	156.7	153.4	186.7	240.0	313.4	390.1	486.7	586.7	680.1	726.8
77.5°	86.7	83.3	93.3	123.3	160.0	223.4	283.4	376.7	456.7	516.7	543.4
80°	56.7	53.3	60.0	83.3	120.0	166.7	226.7	290.0	363.4	413.4	406.7
82.5°	33.3	36.7	36.7	56.7	83.3	120.0	163.4	220.0	270.0	313.4	286.7
85°	20.0	16.7	16.7	33.3	56.7	96.7	136.7	93.3	96.7	96.7	110.0
87.5°	6.7	6.7	6.7	3.3	6.7	6.7	10.0	16.7	20.0	23.3	30.0
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°	10208.0	10208.0	10208.0	10208.0	10208.0	10208.0	10208.0	10208.0	10208.0	10208.0	10208.0
2.5°	8804.5	8907.8	8871.1	8741.1	8841.1	8857.8	8791.1	9021.2	9064.5	8994.5	9014.5
5°	7137.6	7164.3	7224.3	7350.9	7441.0	7547.6	7547.6	7554.3	7464.3	7691.0	7624.3
7.5°	5560.7	5577.4	5647.4	5917.4	5994.1	6197.5	6284.1	6224.1	6044.1	5967.4	6030.8
10°	4800.6	4703.9	4680.6	4713.9	4887.3	4974.0	5047.3	5027.3	4997.3	4937.3	4870.6
12.5°	4293.9	4223.9	4167.2	4087.2	4097.2	4180.5	4237.2	4190.5	4203.9	4217.2	4237.2
15°	3743.8	3693.8	3663.8	3543.8	3530.5	3587.1	3607.1	3633.8	3683.8	3687.1	3663.8
17.5°	3160.4	3117.1	3183.7	3250.4	3203.7	3207.1	3243.8	3267.1	3253.8	3193.7	3163.7
20°	2760.4	2807.0	2873.7	2937.0	2987.1	3017.1	3030.4	2993.7	2950.4	2827.0	2823.7
22.5°	2643.7	2703.7	2760.4	2857.0	2903.7	2980.4	2910.4	2827.0	2767.0	2707.0	2637.0
25°	2557.0	2607.0	2720.4	2757.0	2847.0	2910.4	2860.4	2777.0	2673.7	2587.0	2533.7
27.5°	2493.7	2550.3	2623.7	2723.7	2793.7	2830.4	2780.4	2747.0	2640.3	2537.0	2460.3
30°	2453.7	2513.7	2647.0	2730.4	2790.4	2820.4	2733.7	2693.7	2617.0	2530.3	2463.7
32.5°	2427.0	2480.3	2593.7	2700.3	2740.4	2740.4	2753.7	2707.0	2600.3	2453.7	2397.0
35°	2340.3	2413.6	2507.0	2630.3	2703.7	2747.0	2680.3	2627.0	2557.0	2407.0	2303.6
37.5°	2290.3	2340.3	2460.3	2577.0	2640.3	2687.0	2660.3	2567.0	2473.7	2350.3	2267.0
40°	2237.0	2317.0	2423.6	2533.7	2603.7	2650.3	2630.3	2520.3	2407.0	2290.3	2233.6
42.5°	2200.3	2253.6	2363.6	2487.0	2570.3	2660.3	2600.3	2463.7	2383.6	2223.6	2160.3
45°	2170.3	2257.0	2373.6	2423.6	2510.3	2603.7	2497.0	2413.6	2320.3	2203.6	2150.3
47.5°	2133.6	2213.6	2290.3	2423.6	2463.7	2507.0	2487.0	2353.6	2273.6	2146.9	2110.3
50°	2120.3	2150.3	2290.3	2363.6	2420.3	2463.7	2410.3	2310.3	2233.6	2103.6	2023.6
52.5°	2066.9	2123.6	2213.6	2310.3	2380.3	2433.6	2347.0	2283.6	2180.3	2043.6	1993.6
55°	2000.3	2033.6	2193.6	2293.6	2330.3	2367.0	2333.6	2230.3	2123.6	1983.6	1933.6
57.5°	1913.6	1990.3	2120.3	2260.3	2307.0	2327.0	2273.6	2190.3	2056.9	1933.6	1853.6
60°	1823.6	1903.6	2046.9	2160.3	2207.0	2280.3	2200.3	2150.3	1996.9	1860.2	1773.6
62.5°	1733.6	1823.6	1930.2	2073.6	2113.6	2143.6	2123.6	2053.6	1930.2	1776.9	1670.2
65°	1626.9	1693.6	1826.9	1900.2	1926.9	1996.9	1926.9	1900.2	1790.2	1643.5	1553.5
67.5°	1466.9	1523.5	1640.2	1710.2	1730.2	1760.2	1756.9	1726.9	1603.5	1503.5	1423.5
70°	1283.5	1333.5	1406.8	1490.2	1500.2	1536.9	1503.5	1496.9	1416.8	1280.2	1236.8
72.5°	1030.1	1076.8	1173.5	1210.2	1213.5	1226.8	1210.2	1186.8	1166.8	1023.5	980.1
75°	790.1	816.8	863.4	896.8	896.8	913.5	903.5	880.1	826.8	736.8	693.4
77.5°	550.1	576.7	636.7	656.8	653.4	660.1	630.1	606.7	526.7	480.1	443.4
80°	400.1	416.7	446.7	460.1	463.4	473.4	436.7	416.7	370.0	316.7	300.0
82.5°	290.0	300.0	303.4	320.0	320.0	303.4	293.4	273.4	240.0	206.7	193.4
85°	120.0	123.3	126.7	146.7	150.0	180.0	166.7	156.7	136.7	116.7	106.7
87.5°	30.0	33.3	43.3	36.7	43.3	43.3	46.7	53.3	53.3	43.3	43.3
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	10208.0	10208.0	10208.0	10208.0	10208.0	10208.0	10208.0	10208.0	10208.0	10208.0	10208.0
2.5°	9091.2	9117.8	9457.9	9501.2	9667.9	9837.9	10181.3	10428.0	10628.0	10758.1	10794.7
5°	7694.3	7864.3	8021.0	8274.4	8504.4	8831.1	9207.9	9674.6	10261.3	10561.4	10681.4
7.5°	6024.1	6224.1	6450.8	6697.5	7034.2	7621.0	8124.4	8664.5	9414.5	9724.6	10194.7
10°	4917.3	5140.7	5440.7	5630.7	6037.4	6597.5	7184.3	7807.7	8524.4	8971.2	9514.6
12.5°	4347.2	4530.6	4807.3	5207.3	5510.7	5874.1	6310.8	7097.6	8124.4	8547.8	8921.2
15°	3717.1	3920.5	4240.5	4683.9	5047.3	5480.7	5970.8	6827.5	7921.0	8574.4	8891.1
17.5°	3197.1	3343.8	3680.5	4063.9	4480.6	4954.0	5657.4	6814.2	8134.4	8971.2	9487.9
20°	2837.0	2857.0	3040.4	3367.1	3933.8	4550.6	5464.0	6747.5	8817.8	9654.6	10308.0
22.5°	2610.3	2590.3	2593.7	2870.4	3267.1	4153.9	5160.7	6974.2	9594.6	10741.4	11181.4
25°	2497.0	2443.6	2410.3	2470.3	2830.4	3683.8	4930.6	7274.3	10431.3	11638.2	12178.2
27.5°	2437.0	2343.6	2277.0	2287.0	2550.3	3447.1	4787.3	7404.3	11261.5	12888.3	13078.4
30°	2413.6	2297.0	2200.3	2166.9	2340.3	3117.1	4480.6	7627.7	12004.9	13575.1	13738.4
32.5°	2330.3	2186.9	2093.6	2063.6	2133.6	2827.0	4260.6	7787.7	12661.6	14321.8	14265.2
35°	2233.6	2113.6	1996.9	1940.3	1990.3	2640.3	4083.9	7711.0	13435.1	14901.9	14871.9
37.5°	2223.6	2066.9	1970.3	1876.9	1873.6	2410.3	3843.8	7784.3	13928.5	15942.1	15532.0
40°	2136.9	2036.9	1910.2	1833.6	1790.2	2293.6	3610.5	7611.0	14651.9	16362.1	15958.7
42.5°	2140.3	1990.3	1880.2	1790.2	1746.9	2123.6	3450.4	7564.3	14905.3	17045.5	16158.8
45°	2086.9	1940.3	1846.9	1740.2	1716.9	1993.6	3297.1	7347.6	15352.0	17078.9	15908.7
47.5°	2033.6	1903.6	1803.6	1676.9	1623.5	1946.9	3177.1	7167.6	15118.6	16765.5	15562.0
50°	1996.9	1846.9	1753.6	1663.5	1513.5	1866.9	3020.4	7124.3	14791.9	16342.1	14918.6
52.5°	1933.6	1800.2	1703.6	1633.5	1393.5	1793.6	2960.4	7377.6	15192.0	16025.4	14731.9
55°	1873.6	1736.9	1613.5	1476.9	1293.5	1600.2	2793.7	7614.3	15775.4	16755.5	15578.7
57.5°	1810.2	1680.2	1546.9	1383.5	1196.8	1400.2	2620.3	7657.7	14681.9	15485.3	14788.6
60°	1726.9	1560.2	1460.2	1246.8	1093.5	1160.1	2076.9	6750.9	11388.1	12931.7	12955.0
62.5°	1633.5	1453.5	1366.8	1116.8	986.8	1000.1	1693.6	5674.1	9237.9	10704.7	11341.5
65°	1510.2	1336.8	1233.5	1033.5	910.1	866.8	1240.2	4157.2	7017.6	8684.5	9407.9
67.5°	1350.2	1186.8	1056.8	900.1	813.4	743.4	846.8	2340.3	4143.9	5830.8	6050.8
70°	1180.2	1040.1	903.5	773.4	676.8	626.7	620.1	1036.8	1980.3	3137.1	3570.5
72.5°	930.1	830.1	720.1	623.4	560.1	486.7	443.4	430.1	670.1	1276.8	1763.6
75°	666.8	583.4	520.1	456.7	410.1	370.0	336.7	306.7	280.0	320.0	440.1
77.5°	420.1	390.1	340.0	323.4	296.7	286.7	273.4	256.7	236.7	223.4	223.4
80°	283.4	263.4	246.7	243.4	233.4	230.0	233.4	216.7	196.7	180.0	186.7
82.5°	190.0	186.7	183.4	180.0	183.4	186.7	193.4	190.0	173.4	163.4	166.7
85°	113.3	120.0	126.7	133.4	146.7	130.0	106.7	90.0	80.0	73.3	70.0
87.5°	43.3	60.0	53.3	50.0	53.3	50.0	46.7	43.3	36.7	33.3	33.3
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: P532606

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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10208.0	10208.0	10208.0	10208.0	10208.0	10208.0	10208.0	10208.0	10208.0	10208.0
2.5°	11038.1	11104.8	11161.4	11148.1	11031.4	10874.7	10811.4	10488.0	10421.3	10378.0
5°	11188.1	11574.8	11658.2	11608.2	11304.8	10921.4	10548.0	10074.6	9797.9	9787.9
7.5°	10911.4	11388.1	11538.2	11651.5	11248.1	10581.4	9941.3	9231.2	9057.8	9071.2
10°	10208.0	10968.1	11338.1	11454.8	10991.4	10414.7	9527.9	8807.8	8437.8	8431.1
12.5°	9817.9	10414.7	10518.0	10681.4	10544.7	9961.3	9287.9	8481.1	8121.0	8114.4
15°	9471.2	9864.6	9894.6	10124.6	10198.0	9804.6	9351.2	8491.1	8201.1	8171.1
17.5°	9774.6	9501.2	9387.9	9417.9	9634.6	9777.9	9717.9	9057.8	8761.1	8594.4
20°	9978.0	9367.9	9024.5	9057.8	9314.5	9837.9	10264.7	9877.9	9407.9	9427.9
22.5°	10521.4	9387.9	8851.1	8814.5	9221.2	10151.3	10881.4	10914.7	10461.4	10351.3
25°	11334.8	9617.9	8797.8	8787.8	9177.9	10488.0	11601.5	12141.6	11678.2	11474.8
27.5°	11988.2	9978.0	8964.5	8997.8	9314.5	10761.4	12214.9	12931.7	12578.3	12328.3
30°	12561.6	10351.3	9197.9	9044.5	9681.3	10904.7	12478.3	13831.8	13548.4	13341.7
32.5°	12798.3	10881.4	9567.9	9314.5	9984.6	11078.1	13025.0	14705.2	14461.9	13951.8
35°	13198.4	11178.1	9767.9	9747.9	10514.7	11494.8	13281.7	15282.0	15182.0	14728.6
37.5°	13518.4	11478.1	10478.0	10258.0	11241.5	12194.9	13695.1	16078.7	15848.7	15635.4
40°	13765.1	12014.9	11141.4	11431.5	12134.9	12831.7	14075.2	16128.7	16792.2	16172.1
42.5°	13538.4	12494.9	12231.6	12925.0	13591.8	13558.4	14118.5	16515.5	17012.2	16688.8
45°	13481.7	13308.4	13955.1	14585.2	14738.6	14161.8	13808.5	16088.7	16945.5	16802.2
47.5°	13345.1	14108.5	15235.3	16262.1	16028.7	14565.2	13438.4	16012.1	16985.5	16728.8
50°	13298.4	14281.8	16182.1	17182.2	17042.2	14915.3	13265.0	15518.7	16702.2	16678.8
52.5°	13295.1	14638.6	16575.5	17682.3	17769.0	15468.7	13501.7	15768.7	16922.2	17118.9
55°	13445.1	14525.2	16525.5	17405.6	17372.2	15222.0	13528.4	15935.4	17192.2	17385.6
57.5°	12681.6	13011.7	13638.4	14335.2	14155.2	12608.3	12081.6	14731.9	15778.7	15638.7
60°	10951.4	9917.9	9211.2	9177.9	8827.8	8344.4	9887.9	13148.4	13148.4	13011.7
62.5°	9591.2	6510.8	5594.1	5334.0	5584.1	6140.8	9537.9	12788.3	12424.9	12268.3
65°	8387.8	4970.6	4043.9	3970.5	4403.9	5244.0	8624.4	10894.7	10254.7	9734.6
67.5°	5397.4	3640.5	3007.1	2877.0	3400.4	3850.5	5740.7	6700.9	6297.5	6094.1
70°	3480.4	2370.3	1673.5	1570.2	1773.6	2373.6	3667.1	3907.2	3320.4	3183.7
72.5°	1646.9	1023.5	586.7	483.4	543.4	906.8	1450.2	1560.2	1296.8	1186.8
75°	523.4	376.7	240.0	206.7	196.7	233.4	333.4	256.7	186.7	183.4
77.5°	233.4	223.4	190.0	160.0	140.0	116.7	96.7	80.0	83.3	86.7
80°	193.4	176.7	156.7	140.0	116.7	90.0	70.0	53.3	53.3	56.7
82.5°	170.0	153.4	136.7	116.7	100.0	73.3	53.3	36.7	33.3	33.3
85°	73.3	86.7	93.3	100.0	80.0	60.0	36.7	23.3	20.0	20.0
87.5°	30.0	26.7	23.3	20.0	16.7	16.7	13.3	10.0	6.7	6.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)