

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: P646953

Luminaire Tested: **GALN-SA5C-835-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646953  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-835-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15240.3 lumens  
Efficiency: N/A  
Efficacy: 56.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G1

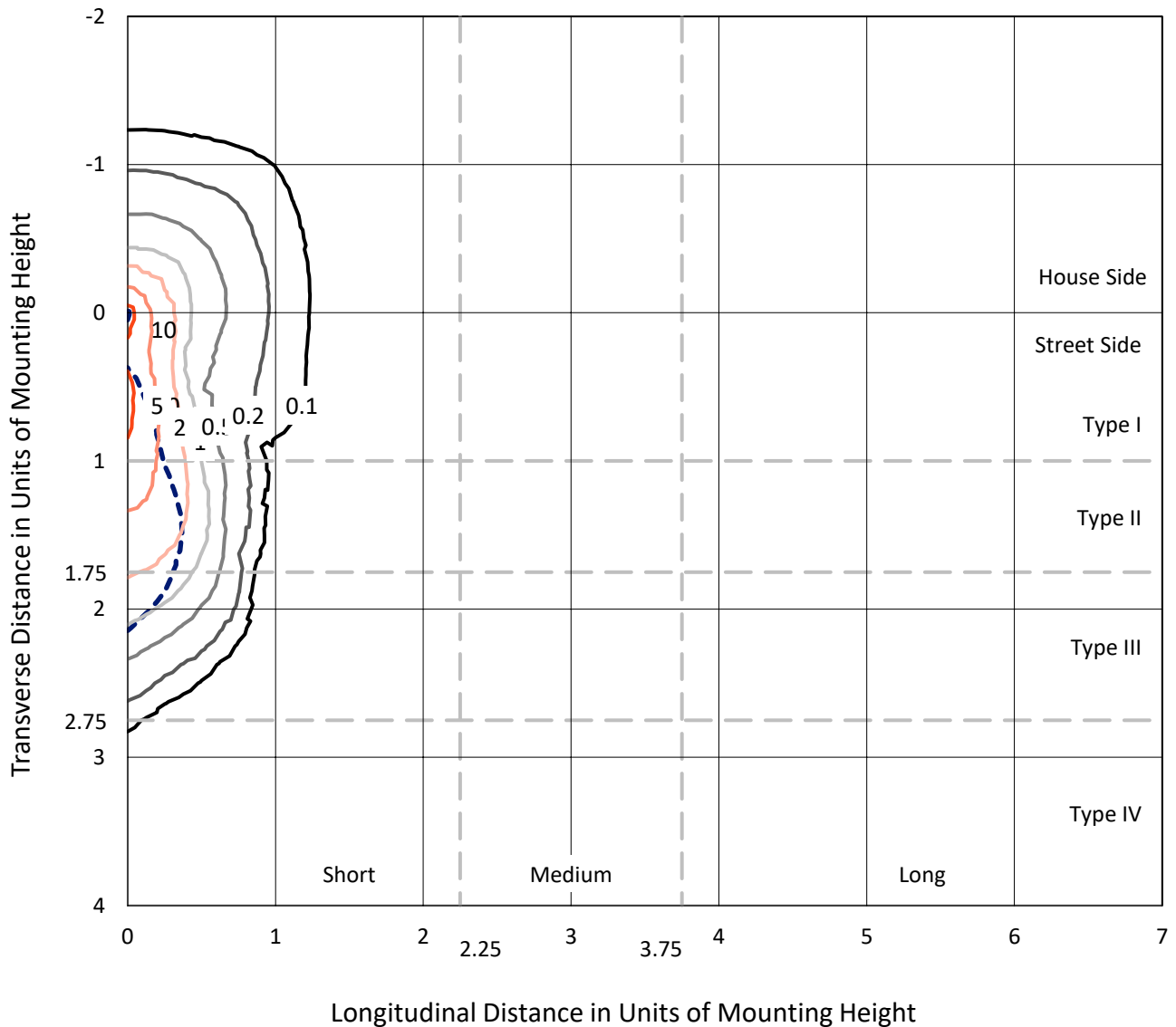
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

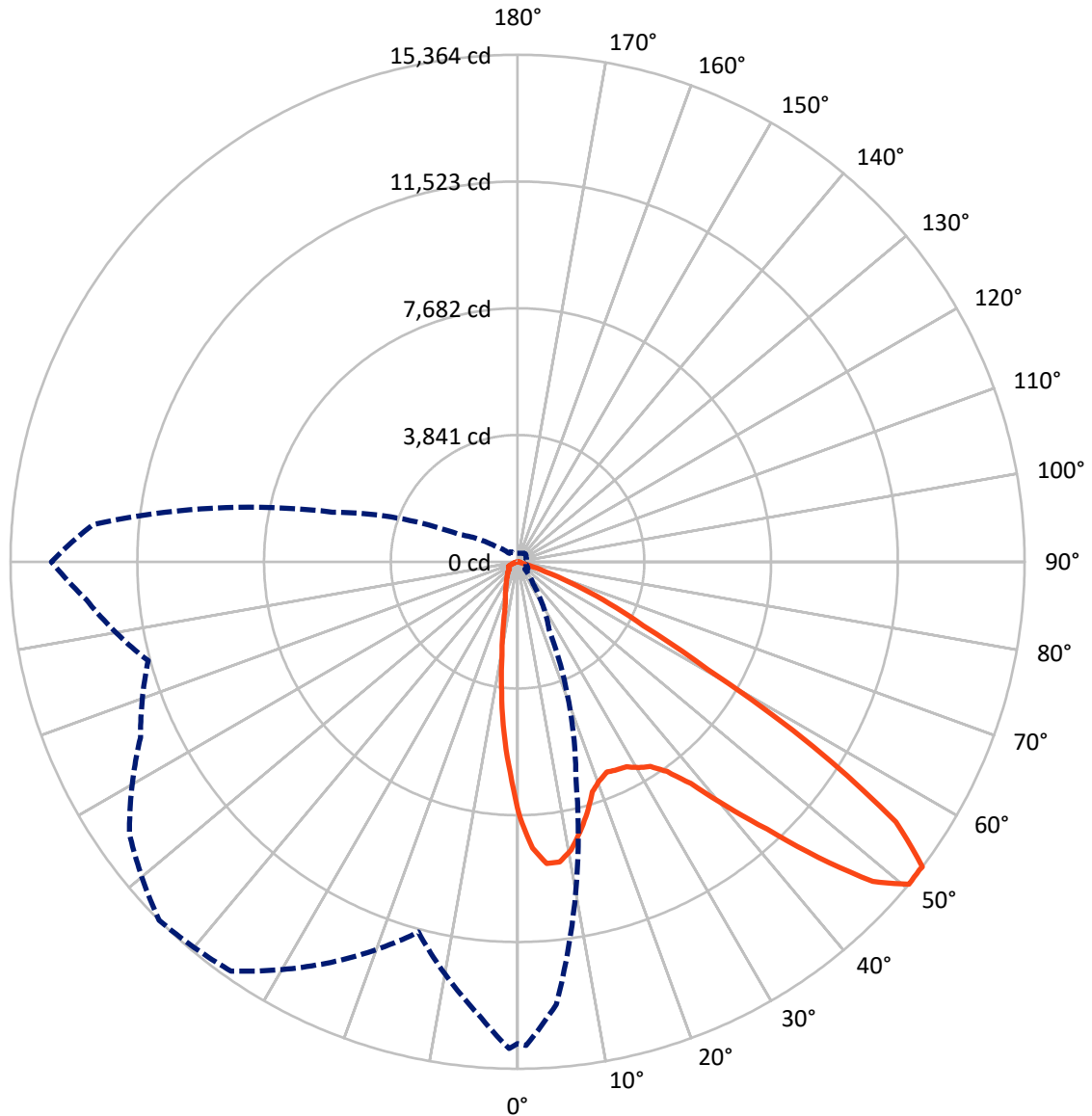
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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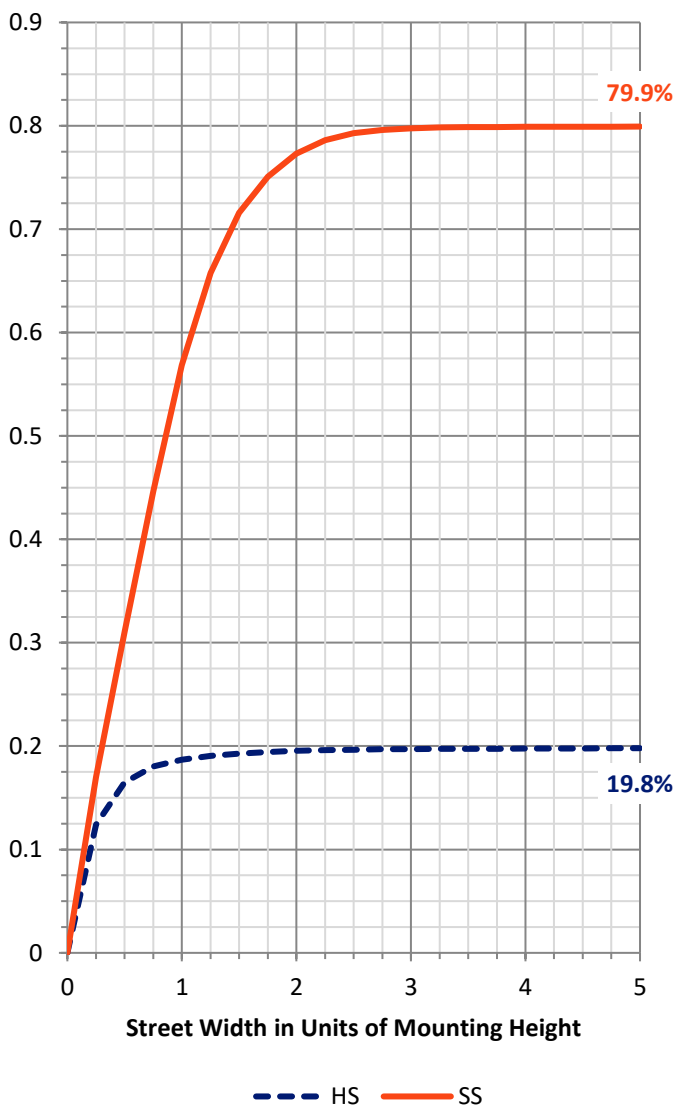
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3052.6	0.0	3052.6
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	12187.7	0.0	12187.7
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	15240.3	0.0	15240.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	563.3	3.7
10°-20°	1119.6	7.3
20°-30°	1682.0	11.0
30°-40°	2524.7	16.6
40°-50°	3548.2	23.3
50°-60°	3827.4	25.1
60°-70°	1777.1	11.7
70°-80°	167.2	1.1
80°-90°	30.8	0.2
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°	15240.3	100.0
0°-180°	15240.3	100.0

**Coefficient of Utilization**



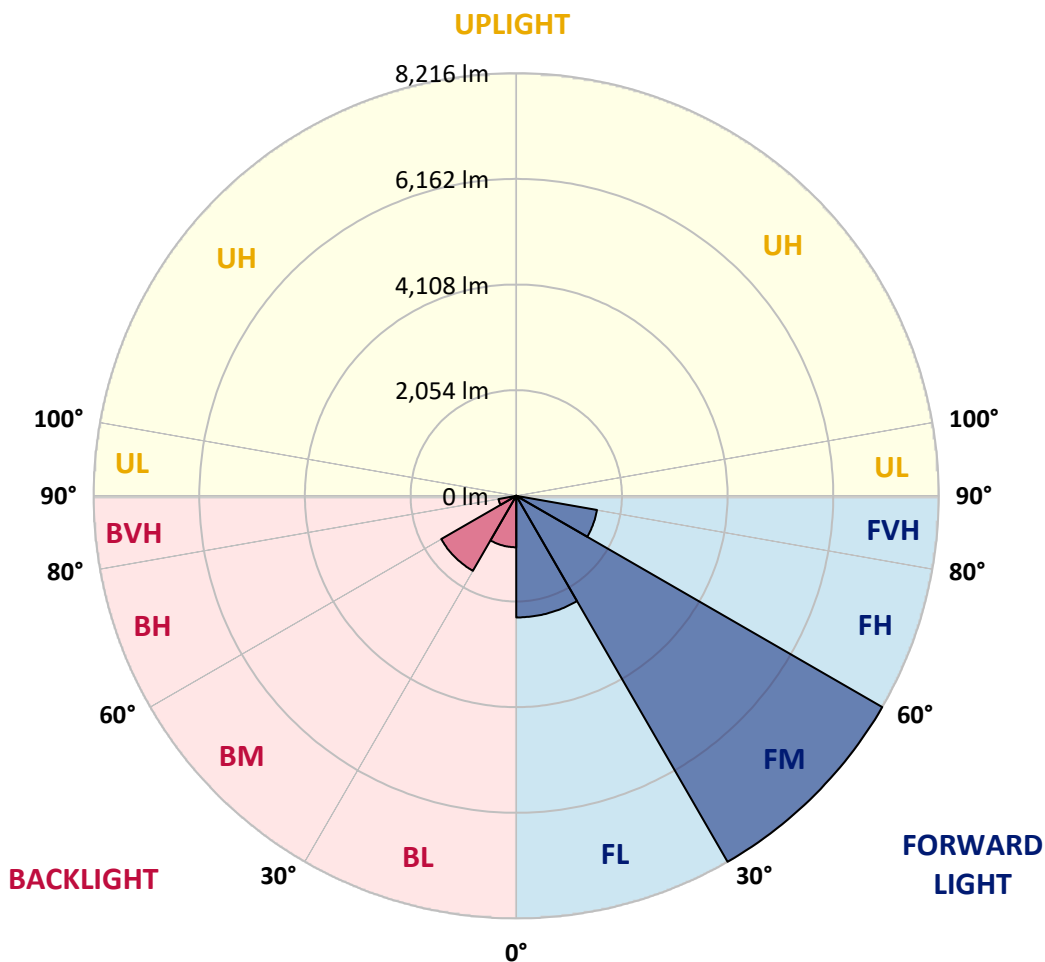
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2364.4	15.5			
FM (30°-60°)	8215.7	53.9			
FH (60°-80°)	1593.7	10.5			G1/1800
FVH (80°-90°)	13.9	0.1			G1/100
BL (0°-30°)	1000.6	6.6	B3/2500		
BM (30°-60°)	1684.6	11.1	B2/2500		
BH (60°-80°)	350.5	2.3	B1/500		G1/500
BVH (80°-90°)	16.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7728.8	7728.8	7728.8	7728.8	7728.8	7728.8	7728.8	7728.8	7728.8	7728.8	7728.8
2.5°	8034.1	7910.2	7753.0	7622.9	7429.4	7039.3	6933.5	6806.5	6700.7	6558.6	6359.0
5°	7305.5	7266.1	7193.6	6703.7	6349.9	5878.2	5491.2	5327.9	5113.2	4937.8	4810.8
7.5°	6749.1	6591.8	6362.0	5869.1	5303.7	4798.7	4369.4	4118.3	3834.1	3737.4	3565.0
10°	6153.4	6189.7	5851.0	5158.6	4475.2	4067.0	3800.9	3559.0	3302.0	3132.6	2887.7
12.5°	5962.9	5844.9	5584.9	4729.2	4145.6	3764.6	3441.1	3141.7	2869.5	2597.4	2361.5
15°	6086.9	5905.5	5542.5	4638.5	3891.6	3416.9	3011.7	2606.5	2355.5	2007.8	1762.8
17.5°	6531.3	6386.2	5899.4	4735.2	3761.6	3084.2	2482.5	2065.2	1681.2	1366.7	1242.8
20°	7272.2	7066.6	6455.8	4859.2	3568.1	2682.1	2013.8	1499.8	1136.9	1003.9	934.4
22.5°	7997.9	7886.0	7115.0	5098.1	3395.7	2325.3	1511.9	1009.9	849.7	825.5	780.1
25°	9379.7	9044.1	8121.8	5530.5	3262.7	1989.6	1140.0	813.4	719.7	701.5	707.6
27.5°	10202.2	9921.0	9053.2	5817.8	3114.5	1732.6	964.6	746.9	683.4	644.1	628.9
30°	10991.4	10664.9	9515.8	5987.1	2797.0	1460.5	855.7	716.6	701.5	644.1	625.9
32.5°	11599.2	11278.6	10184.1	6241.1	2667.0	1285.1	704.5	559.4	520.1	514.0	568.5
35°	12530.5	12188.8	10755.5	6380.1	2567.1	1194.4	610.8	498.9	453.6	435.4	438.5
37.5°	13398.3	13165.5	11284.8	6434.6	2461.4	1167.1	547.3	447.5	408.2	396.1	393.1
40°	14124.1	13603.9	11786.7	6492.0	2416.0	1115.8	508.0	408.2	381.0	362.8	362.8
42.5°	14456.7	13927.5	12349.1	6458.8	2403.9	1034.1	508.0	375.0	353.8	335.7	332.6
45°	14384.1	14169.4	12600.0	6443.6	2403.9	952.5	462.7	365.9	335.7	311.5	305.4
47.5°	14571.6	14290.4	12914.5	6507.1	2355.5	895.0	390.1	384.0	317.5	287.3	281.2
50°	14604.8	14659.2	13461.8	6836.8	2249.7	822.5	305.4	378.0	305.4	260.0	254.0
52°	14822.5	14483.9	13628.1	7012.2	2137.8	768.0	257.1	323.5	293.3	241.9	235.8
52.5°	14523.2	14743.9	13667.4	7075.7	2149.9	731.7	248.0	317.5	287.3	241.9	226.8
55°	14187.6	14399.2	13507.2	7211.7	1971.5	574.5	193.6	229.8	260.0	211.6	202.6
57.5°	12330.9	12545.6	11738.3	6603.9	1605.6	405.2	160.3	172.3	229.8	196.5	187.5
60°	10961.1	10807.0	9851.5	5509.3	1140.0	226.8	127.0	133.0	251.0	181.4	178.4
62.5°	10017.8	9688.1	8233.7	4254.4	695.5	151.2	99.8	102.8	193.6	169.4	169.4
65°	7411.3	7042.4	5470.0	2573.3	341.7	105.9	75.6	81.7	121.0	145.2	145.2
67.5°	4230.2	4088.1	2642.8	1161.1	142.1	66.6	57.5	63.5	93.7	117.9	111.9
70°	1944.3	1744.7	1016.0	244.9	66.6	45.3	45.3	51.4	75.6	87.7	81.7
72.5°	568.5	538.2	248.0	39.3	27.2	27.2	30.2	39.3	57.5	66.6	60.4
75°	42.4	27.2	18.2	12.1	12.1	18.2	24.2	39.3	57.5	63.5	51.4
77.5°	3.1	6.0	3.1	3.1	9.1	18.2	27.2	48.4	75.6	78.6	57.5
80°	3.1	3.1	0.0	3.1	9.1	18.2	30.2	54.4	84.6	90.7	48.4
82.5°	0.0	0.0	0.0	3.1	12.1	24.2	36.3	57.5	78.6	96.8	51.4
85°	0.0	0.0	0.0	3.1	18.2	33.3	42.4	15.1	9.1	0.0	0.0
87.5°	0.0	0.0	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°	7728.8	7728.8	7728.8	7728.8	7728.8	7728.8	7728.8	7728.8	7728.8	7728.8	7728.8
2.5°	6501.1	6422.5	6392.3	6419.5	6410.4	6401.3	6567.6	6531.3	6525.3	6579.7	6567.6
5°	4880.4	4741.3	5122.2	4968.1	5128.3	5225.1	5243.2	5252.3	5364.2	5246.3	5400.4
7.5°	3477.3	3513.6	3510.6	3613.4	3797.9	3961.1	4057.9	3982.3	3976.2	3961.1	3894.6
10°	2778.9	2715.4	2703.2	2679.0	2736.5	2875.6	2993.6	2899.8	2833.3	2924.0	2896.8
12.5°	2270.9	2183.2	2134.8	2038.0	2041.0	2134.8	2134.8	2134.8	2201.3	2252.7	2292.0
15°	1741.7	1669.1	1669.1	1572.3	1551.2	1554.3	1602.6	1608.7	1714.5	1744.7	1759.9
17.5°	1218.6	1179.3	1224.6	1263.9	1239.7	1245.8	1263.9	1269.9	1285.1	1273.0	1303.2
20°	937.4	931.3	943.4	1013.0	1064.3	1094.6	1073.4	1043.2	1025.0	982.7	982.7
22.5°	795.2	807.4	828.5	886.0	952.5	970.6	946.4	876.9	822.5	816.4	819.4
25°	707.6	719.7	752.9	789.2	825.5	855.7	831.5	780.1	749.9	722.7	722.7
27.5°	653.1	659.2	677.3	704.5	734.8	759.0	749.9	722.7	689.4	677.3	650.1
30°	610.8	619.9	641.0	647.1	674.3	686.4	671.3	665.2	644.1	628.9	619.9
32.5°	589.6	586.6	601.7	607.8	610.8	619.9	601.7	610.8	607.8	583.6	574.5
35°	444.5	468.7	508.0	541.3	550.3	562.4	559.4	547.3	514.0	486.8	453.6
37.5°	399.2	414.3	435.4	462.7	498.9	514.0	508.0	477.8	438.5	420.3	414.3
40°	368.9	378.0	396.1	414.3	450.5	477.8	456.6	429.4	399.2	384.0	375.0
42.5°	341.7	344.7	353.8	371.9	399.2	441.5	405.2	368.9	356.8	347.7	341.7
45°	311.5	311.5	323.5	332.6	362.8	402.1	365.9	332.6	326.6	320.5	317.5
47.5°	287.3	290.3	296.4	308.4	332.6	359.9	335.7	308.4	293.3	290.3	284.2
50°	257.1	260.0	272.2	284.2	314.5	329.6	314.5	284.2	269.1	260.0	260.0
52°	232.9	241.9	254.0	278.2	299.3	323.5	305.4	272.2	254.0	244.9	238.9
52.5°	229.8	235.8	248.0	275.1	299.3	320.5	302.4	269.1	248.0	241.9	235.8
55°	205.6	214.7	235.8	269.1	296.4	320.5	296.4	266.1	235.8	220.7	214.7
57.5°	196.5	202.6	229.8	272.2	293.3	320.5	296.4	266.1	235.8	208.7	202.6
60°	187.5	199.6	229.8	263.1	290.3	323.5	299.3	263.1	229.8	196.5	196.5
62.5°	178.4	187.5	226.8	257.1	278.2	311.5	287.3	257.1	220.7	187.5	184.5
65°	154.3	169.4	199.6	214.7	238.9	269.1	244.9	223.8	193.6	166.3	163.3
67.5°	117.9	123.9	148.1	166.3	181.4	208.7	196.5	169.4	148.1	127.0	127.0
70°	81.7	87.7	105.9	114.9	130.1	145.2	136.1	114.9	99.8	87.7	84.6
72.5°	57.5	60.4	66.6	72.6	78.6	84.6	81.7	66.6	57.5	54.4	51.4
75°	45.3	51.4	54.4	51.4	48.4	45.3	45.3	39.3	33.3	30.2	30.2
77.5°	45.3	48.4	45.3	39.3	33.3	30.2	27.2	24.2	18.2	15.1	18.2
80°	39.3	39.3	39.3	33.3	30.2	27.2	24.2	21.1	18.2	15.1	15.1
82.5°	42.4	42.4	39.3	33.3	33.3	27.2	27.2	24.2	21.1	15.1	15.1
85°	0.0	0.0	0.0	6.0	15.1	27.2	27.2	24.2	21.1	18.2	18.2
87.5°	0.0	0.0	0.0	0.0	3.1	6.0	12.1	15.1	18.2	18.2	18.2
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°	7728.8	7728.8	7728.8	7728.8	7728.8	7728.8	7728.8	7728.8	7728.8	7728.8	7728.8
2.5°	6676.5	6791.4	7009.1	7226.8	7359.9	7517.1	7801.3	7952.5	8149.1	8245.9	8436.4
5°	5379.3	5651.5	5748.2	5996.1	6262.2	6528.3	6951.6	7417.3	7804.3	8070.5	8415.1
7.5°	3924.9	3988.4	4363.3	4529.6	4965.0	5448.8	6026.4	6613.0	7102.8	7538.3	7801.3
10°	2942.1	3175.0	3410.8	3728.3	4079.0	4578.0	5131.3	5778.5	6413.4	6848.8	7181.4
12.5°	2364.6	2549.1	2863.5	3205.2	3637.6	3967.2	4523.5	5164.6	5987.1	6413.4	6851.9
15°	1790.1	2025.9	2382.7	2736.5	3193.1	3540.8	4103.2	4910.6	5968.9	6555.5	6933.5
17.5°	1327.4	1487.7	1808.2	2204.3	2670.0	3159.9	3918.8	4883.4	6171.5	6870.0	7260.1
20°	1016.0	1070.4	1273.0	1626.8	2131.8	2772.8	3619.4	5001.3	6770.2	7635.0	8031.2
22.5°	822.5	846.7	925.3	1170.2	1660.0	2434.1	3477.3	5082.9	7444.5	8551.2	9080.4
25°	716.6	710.6	762.0	867.8	1297.2	2116.6	3295.9	5391.3	8270.0	9627.7	10102.4
27.5°	653.1	653.1	677.3	752.9	1076.5	1911.0	3181.0	5612.2	9101.5	10574.1	10831.2
30°	619.9	625.9	695.5	719.7	895.0	1666.1	2990.5	5835.9	9896.8	11178.9	11532.7
32.5°	574.5	550.3	535.2	595.7	752.9	1445.3	2800.0	5929.6	10540.9	11919.7	12222.1
35°	441.5	429.4	447.5	492.9	647.1	1257.9	2588.4	6035.4	11281.7	12778.5	12838.9
37.5°	399.2	396.1	408.2	447.5	544.3	1094.6	2437.2	6008.3	11847.1	13489.1	13325.8
40°	368.9	368.9	378.0	411.2	486.8	979.7	2279.9	5984.1	12394.4	14287.3	13809.5
42.5°	344.7	344.7	359.9	381.0	462.7	904.1	2162.0	5950.8	12854.0	14777.2	14093.8
45°	311.5	320.5	344.7	365.9	468.7	852.7	2074.3	5823.8	13011.3	14771.1	13957.8
47.5°	287.3	299.3	323.5	353.8	423.3	837.6	2013.8	5711.9	12956.8	14408.3	13531.4
50°	260.0	275.1	308.4	359.9	359.9	807.4	1950.3	5811.7	12917.5	14127.0	13123.2
52°	241.9	254.0	296.4	350.8	314.5	743.8	1911.0	6005.2	13077.8	14090.8	12941.7
52.5°	238.9	248.0	287.3	344.7	299.3	731.7	1883.8	6050.6	13129.2	14000.0	13065.7
55°	211.6	223.8	263.1	269.1	244.9	601.7	1796.1	6153.4	12875.2	13821.7	12947.8
57.5°	199.6	205.6	232.9	220.7	211.6	453.6	1545.2	5993.1	11435.9	12276.5	12046.7
60°	184.5	190.5	217.7	172.3	178.4	317.5	1161.1	5203.9	9183.2	10229.4	10643.7
62.5°	178.4	175.4	205.6	139.1	151.2	229.8	819.4	4230.2	7075.7	8421.2	9137.8
65°	157.2	154.3	148.1	117.9	130.1	178.4	489.8	2760.7	4986.2	6371.1	6764.2
67.5°	121.0	127.0	108.8	93.7	108.8	139.1	272.2	1236.7	2615.5	3822.1	4139.6
70°	84.6	90.7	87.7	81.7	96.8	114.9	157.2	423.3	1082.5	2007.8	2213.4
72.5°	51.4	63.5	66.6	69.5	84.6	99.8	111.9	136.1	287.3	710.6	882.9
75°	30.2	42.4	51.4	60.4	69.5	84.6	93.7	96.8	99.8	133.0	214.7
77.5°	21.1	30.2	45.3	57.5	69.5	84.6	99.8	105.9	99.8	93.7	99.8
80°	18.2	30.2	42.4	54.4	72.6	87.7	99.8	99.8	96.8	84.6	90.7
82.5°	18.2	30.2	45.3	57.5	69.5	84.6	96.8	99.8	90.7	84.6	87.7
85°	21.1	33.3	48.4	60.4	75.6	69.5	63.5	51.4	48.4	39.3	42.4
87.5°	21.1	30.2	30.2	33.3	36.3	36.3	36.3	33.3	27.2	24.2	24.2
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: P646953

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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7728.8	7728.8	7728.8	7728.8	7728.8	7728.8	7728.8	7728.8	7728.8	7728.8
2.5°	8445.4	8687.3	8678.2	8684.3	8648.0	8403.1	8285.2	7985.8	8070.5	8034.1
5°	8769.0	9007.8	9213.4	9189.2	8911.1	8578.5	8085.6	7619.9	7492.9	7305.5
7.5°	8445.4	9019.9	9210.4	9183.2	8771.9	8345.6	7559.4	7093.7	6873.0	6749.1
10°	7931.3	8596.6	8832.5	8880.8	8602.7	7955.5	7232.9	6486.0	6368.1	6153.4
12.5°	7638.0	8121.8	8267.0	8397.0	8300.3	7816.5	6984.9	6268.3	6105.0	5962.9
15°	7399.2	7686.4	7746.9	7895.1	7952.5	7692.5	7115.0	6504.1	6102.0	6086.9
17.5°	7619.9	7502.0	7281.3	7326.6	7508.0	7695.5	7450.6	6969.8	6579.7	6531.3
20°	7985.8	7465.7	6966.7	7078.6	7229.8	7804.3	7958.6	7619.9	7396.1	7272.2
22.5°	8406.1	7529.2	6867.0	6921.4	7208.7	8049.2	8781.0	8593.6	8176.2	7997.9
25°	9183.2	7704.6	6945.6	6981.9	7375.0	8390.9	9524.9	9663.9	9416.0	9379.7
27.5°	9942.1	8158.2	7117.9	7036.4	7459.6	8723.6	9975.4	10722.3	10286.9	10202.2
30°	10329.2	8527.0	7375.0	7235.9	7810.4	8926.2	10247.6	11411.7	11030.7	10991.4
32.5°	10921.8	8862.7	7574.6	7396.1	8007.0	9177.2	10755.5	12164.6	11795.7	11599.2
35°	11169.8	9228.5	8013.0	7804.3	8569.4	9527.9	11015.6	12835.9	12721.0	12530.5
37.5°	11647.6	9621.7	8530.1	8517.9	9249.7	9984.5	11484.3	13749.1	13727.9	13398.3
40°	11686.9	10051.0	9346.5	9727.4	10302.0	10779.7	11895.5	14003.1	14347.8	14124.1
42.5°	11747.3	10803.9	10758.6	11073.0	11565.9	11463.1	11910.6	14063.5	14589.7	14456.7
45°	11774.6	11556.8	12194.8	12775.4	12981.0	12358.2	11768.5	13948.7	14716.7	14384.1
47.5°	11556.8	12203.9	13356.0	14477.8	14538.3	12908.5	11708.0	13830.8	14792.3	14571.6
50°	11587.1	12609.1	14359.9	15363.8	15143.1	13395.3	11614.3	13758.2	14753.0	14604.8
52°	11514.5	12618.2	14502.0	15345.6	15191.5	13126.2	11454.0	13480.0	14716.7	14822.5
52.5°	11596.2	12563.8	14353.9	15357.8	15158.2	13259.2	11432.9	13634.2	14737.9	14523.2
55°	11315.0	11916.7	13486.0	13912.3	13882.1	12034.6	10782.8	13123.2	14184.5	14187.6
57.5°	10226.4	10329.2	10577.2	10568.1	10429.0	9461.4	9222.5	12067.9	12645.4	12330.9
60°	9010.8	7562.4	6894.2	6622.1	6467.8	6310.6	8158.2	11039.8	11094.2	10961.1
62.5°	7786.2	5243.2	4354.3	4278.6	4315.0	4889.4	7886.0	10631.6	10305.0	10017.8
65°	6283.4	3822.1	3162.9	3063.1	3416.9	4036.8	6383.2	8152.1	7650.1	7411.3
67.5°	3946.0	2787.9	2137.8	1950.3	2376.7	2778.9	4194.0	5122.2	4559.9	4230.2
70°	2340.4	1557.2	967.6	867.8	976.7	1481.7	2349.5	2555.1	2113.6	1944.3
72.5°	922.2	571.5	269.1	229.8	238.9	520.1	864.8	843.6	638.0	568.5
75°	248.0	172.3	93.7	75.6	63.5	96.8	139.1	90.7	33.3	42.4
77.5°	114.9	102.8	81.7	63.5	48.4	36.3	18.2	6.0	6.0	3.1
80°	99.8	87.7	75.6	63.5	48.4	30.2	15.1	3.1	3.1	3.1
82.5°	93.7	81.7	69.5	57.5	45.3	30.2	15.1	3.1	0.0	0.0
85°	39.3	51.4	57.5	54.4	48.4	30.2	15.1	3.1	0.0	0.0
87.5°	21.1	18.2	15.1	12.1	9.1	6.0	6.0	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

(END OF REPORT)