

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P643705

Luminaire Tested: GWS-SA6F-740-U-SLL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643705  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-39)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGF-740-U-SLL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

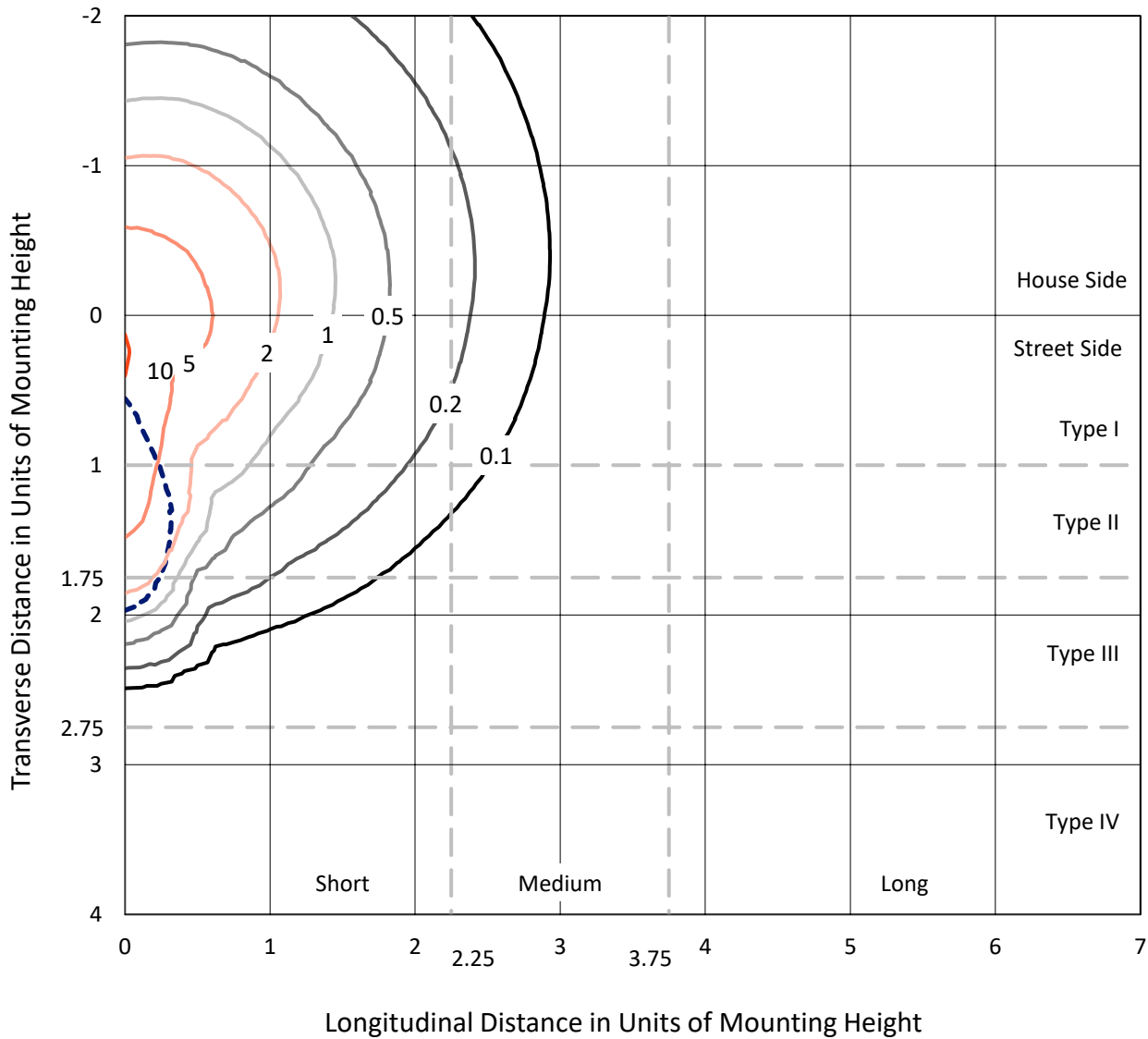
Lumens per Lamp: N/A  
Luminaire Lumens: 38740 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

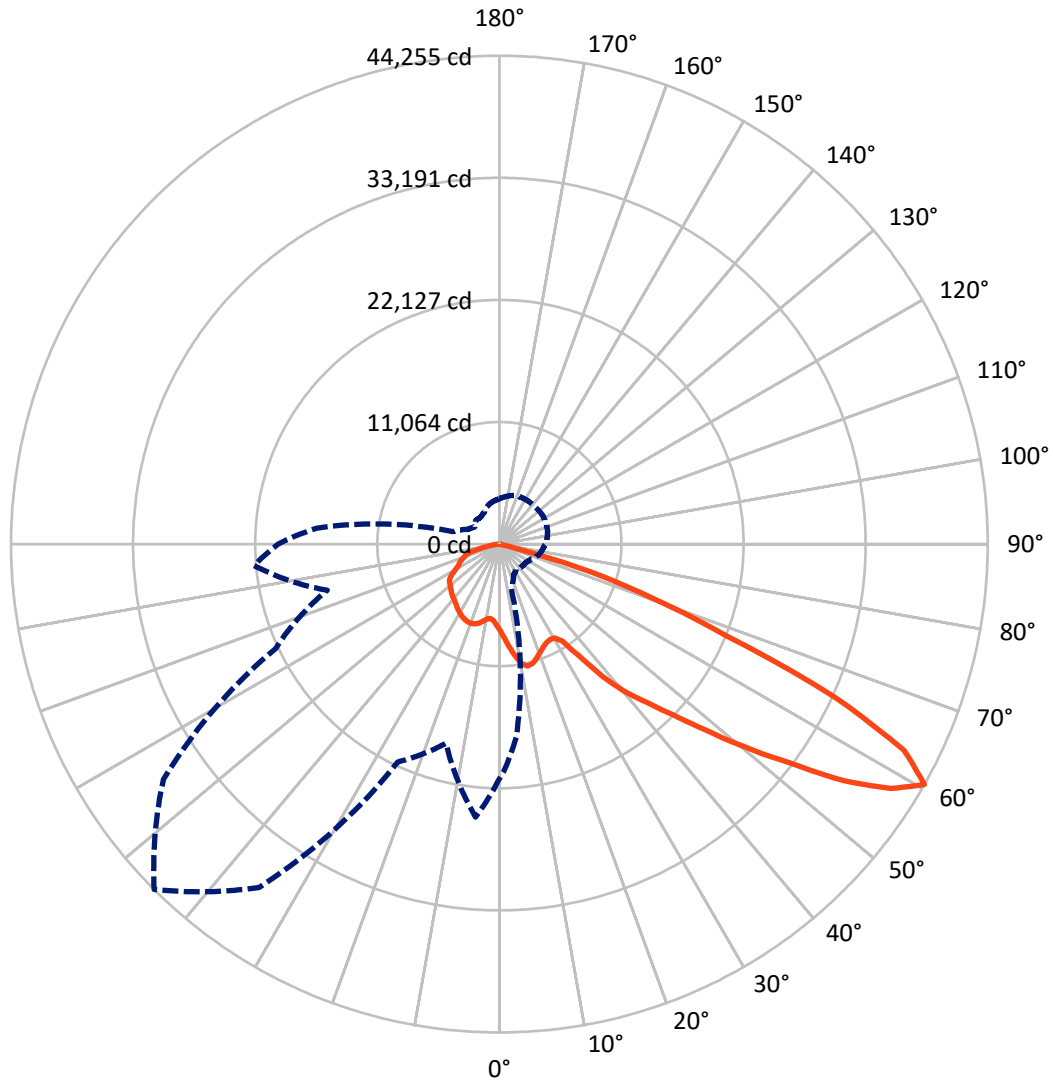
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.5 fc  
 Type III - 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	13252.6	0.0	13252.6
	% Fixture	34.2	0.0	34.2
<b>Street Side</b>	Lumens	25487.4	0.0	25487.4
	% Fixture	65.8	0.0	65.8
<b>Total</b>	Lumens	38740.0	0.0	38740.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	763.4	2.0
10°-20°	2448.5	6.3
20°-30°	3987.6	10.3
30°-40°	5601.8	14.5
40°-50°	7665.4	19.8
50°-60°	9834.3	25.4
60°-70°	6622.0	17.1
70°-80°	1655.5	4.3
80°-90°	161.4	0.4
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°	38740.0	100.0
0°-180°	38740.0	100.0

**Coefficient of Utilization**



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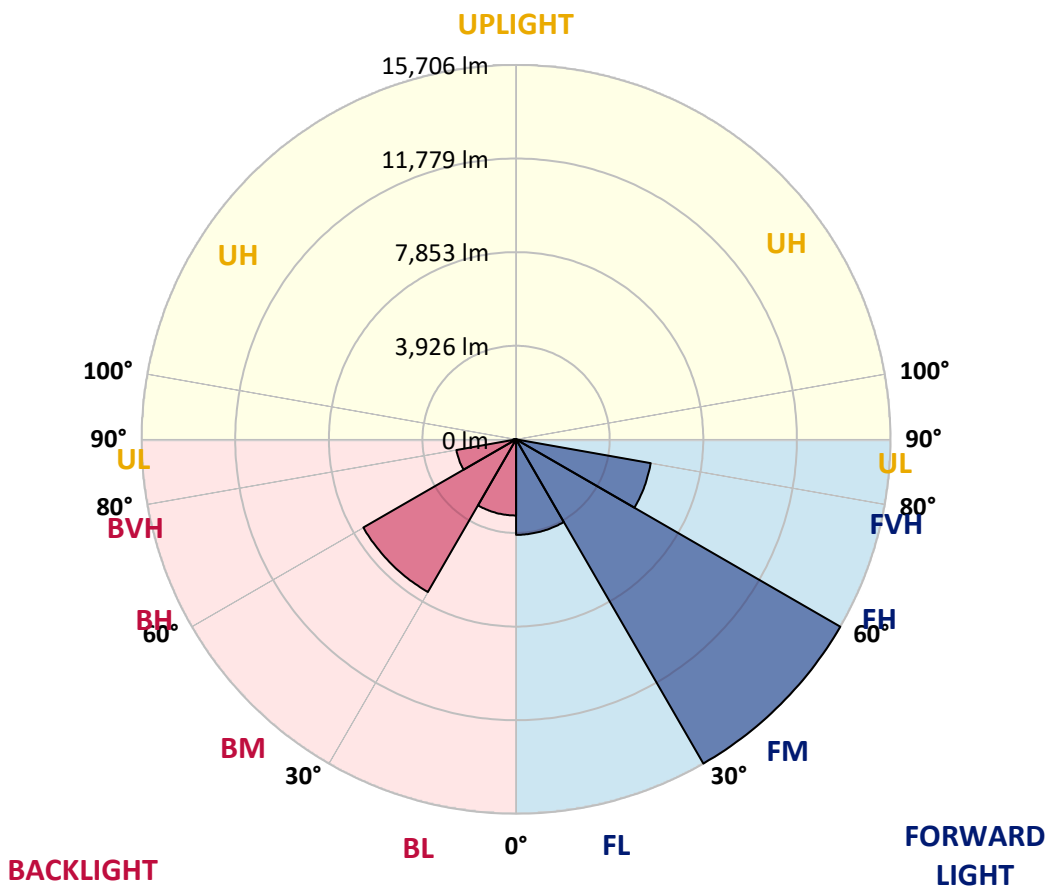
CATALOG NUMBER: GWS-SA6F-740-U-SLL-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4004.8	10.3			
FM (30°-60°)	15705.5	40.5			
FH (60°-80°)	5735.1	14.8			G3/7500
FVH (80°-90°)	41.9	0.1			G1/100
BL (0°-30°)	3194.7	8.2	B4/5000		
BM (30°-60°)	7396.0	19.1	B4/8500		
BH (60°-80°)	2542.4	6.6	B4/5000		G4/5000
BVH (80°-90°)	119.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7813.4	7813.4	7813.4	7813.4	7813.4	7813.4	7813.4	7813.4	7813.4	7813.4	7813.4
2.5°	8266.6	8248.7	8230.9	8091.7	8056.1	7956.2	7884.8	7795.6	7667.2	7595.8	7535.2
5°	8783.9	8755.3	8659.0	8373.6	8188.1	7984.7	7817.0	7631.5	7435.3	7306.8	7206.9
7.5°	9272.7	9265.5	9101.4	8630.5	8330.8	8038.2	7809.9	7538.7	7256.9	7064.2	6935.8
10°	9725.8	9672.3	9476.0	8862.4	8469.9	8134.5	7888.4	7588.7	7260.4	7000.0	6828.7
12.5°	10125.4	10057.6	9786.4	9076.4	8591.2	8177.4	7909.8	7663.6	7446.0	7228.3	7032.1
15°	10453.6	10371.5	10096.8	9276.2	8698.3	8152.4	7777.8	7585.1	7660.0	7756.4	7538.7
17.5°	10760.4	10674.8	10339.4	9422.5	8730.4	7999.0	7453.1	7371.0	7749.2	8188.1	8088.2
20°	11017.3	10921.0	10532.1	9493.9	8673.3	7706.4	7032.1	7174.8	7674.3	8198.8	8359.3
22.5°	11295.6	11217.1	10749.7	9597.3	8601.9	7303.3	6678.9	7028.5	7545.9	8006.1	8248.7
25°	11741.6	11645.2	11088.7	9779.3	8566.2	6925.1	6425.6	6885.8	7367.5	7784.9	7974.0
27.5°	12387.3	12209.0	11552.5	10096.8	8605.5	6568.3	6265.0	6711.0	7160.5	7517.3	7670.7
30°	13090.2	12876.1	12066.2	10425.1	8662.6	6350.7	6179.4	6511.2	6843.0	7199.8	7367.5
32.5°	13921.5	13732.4	12615.7	10671.2	8541.3	6250.8	6115.2	6293.6	6557.6	6843.0	6982.2
35°	14913.3	14574.4	13215.1	10871.0	8148.8	6104.5	6058.1	6054.5	6193.7	6472.0	6628.9
37.5°	15980.1	15616.2	13953.6	11085.1	7538.7	5872.6	5922.5	5772.7	5901.1	6122.3	6300.7
40°	16854.2	16472.5	14699.3	11377.7	6775.2	5508.7	5622.8	5462.3	5540.8	5769.1	5968.9
42.5°	17710.5	17303.8	15395.0	11709.5	6036.7	5151.9	5209.0	5148.3	5173.3	5412.3	5690.6
45°	18834.3	18377.7	16251.3	11944.9	5373.1	4870.0	4816.5	4713.0	4845.1	5155.4	5451.6
47.5°	20711.0	20165.1	17653.4	12098.4	4891.4	4709.5	4463.3	4402.6	4566.8	4912.8	5219.7
50°	22905.2	22434.2	19894.0	12091.2	4531.1	4573.9	4120.8	4067.3	4338.4	4688.1	5012.7
52.5°	24703.3	24225.3	21809.9	11734.4	4235.0	4284.9	3921.0	3771.1	4142.2	4466.9	4791.5
55°	26155.4	25616.7	22691.1	10243.1	3860.3	3824.7	3703.4	3428.6	3896.0	4245.7	4548.9
57.5°	25374.1	24731.9	21624.3	7788.5	3475.0	3250.3	3328.7	3125.4	3560.6	3999.5	4292.0
60°	21274.7	20696.7	17567.8	4145.8	3057.6	2715.1	2879.2	2911.3	3193.2	3703.4	4003.1
62.5°	14613.6	14192.6	11905.7	2515.3	2411.8	2179.9	2436.8	2668.7	2879.2	3310.9	3571.4
65°	7149.8	7025.0	5954.6	1612.6	1687.6	1762.5	2019.4	2301.2	2611.6	2989.8	3264.5
67.5°	1969.4	1983.7	1805.3	1259.4	1330.8	1537.7	1741.1	1965.8	2276.2	2625.9	2904.2
70°	867.0	881.2	909.8	970.4	1106.0	1295.1	1505.6	1737.5	2022.9	2315.5	2583.1
72.5°	603.0	617.2	660.0	738.5	859.8	1038.2	1238.0	1459.2	1755.3	2001.5	2222.7
75°	371.0	381.8	421.0	488.8	570.8	706.4	902.6	1106.0	1366.5	1591.2	1787.5
77.5°	196.2	189.1	214.1	260.4	331.8	403.2	535.2	663.6	849.1	1031.1	1195.2
80°	107.0	103.5	117.7	142.7	164.1	221.2	310.4	396.0	503.1	606.5	695.7
82.5°	46.4	42.8	46.4	60.7	74.9	107.0	157.0	217.6	278.3	349.6	406.7
85°	0.0	0.0	0.0	3.6	17.8	28.5	53.5	78.5	114.2	157.0	192.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	32.1
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°	7813.4	7813.4	7813.4	7813.4	7813.4	7813.4	7813.4	7813.4	7813.4	7813.4	7813.4
2.5°	7499.5	7410.3	7403.2	7331.8	7338.9	7342.5	7271.1	7242.6	7267.6	7296.1	7281.8
5°	7171.2	7078.5	7039.2	6971.4	6964.3	6932.2	6903.7	6868.0	6893.0	6917.9	6932.2
7.5°	6885.8	6825.2	6800.2	6782.4	6789.5	6775.2	6718.1	6686.0	6682.5	6693.2	6707.4
10°	6793.1	6743.1	6775.2	6825.2	6860.8	6885.8	6825.2	6771.7	6721.7	6700.3	6700.3
12.5°	6992.9	6928.6	6992.9	7046.4	7117.7	7135.6	7067.8	7010.7	6992.9	7014.3	7057.1
15°	7435.3	7285.4	7281.8	7314.0	7371.0	7399.6	7335.4	7306.8	7306.8	7442.4	7549.4
17.5°	7877.7	7631.5	7528.0	7510.2	7545.9	7556.6	7503.0	7478.1	7542.3	7806.3	8006.1
20°	8188.1	7888.4	7663.6	7620.8	7631.5	7635.1	7592.2	7574.4	7667.2	7988.3	8156.0
22.5°	8156.0	7934.8	7660.0	7606.5	7624.4	7617.2	7578.0	7570.8	7645.8	7924.0	8002.5
25°	7934.8	7763.5	7531.6	7495.9	7524.5	7520.9	7481.6	7463.8	7495.9	7681.4	7688.6
27.5°	7681.4	7531.6	7331.8	7321.1	7367.5	7392.4	7324.7	7271.1	7260.4	7385.3	7356.8
30°	7378.2	7267.6	7107.0	7114.2	7199.8	7214.1	7132.0	7053.5	7032.1	7099.9	7060.6
32.5°	7017.8	6982.2	6896.5	6914.4	6996.4	7025.0	6939.3	6857.3	6832.3	6853.7	6771.7
35°	6711.0	6696.7	6703.9	6736.0	6807.3	6828.7	6757.4	6693.2	6657.5	6582.6	6475.5
37.5°	6393.5	6432.7	6536.2	6596.8	6636.1	6628.9	6589.7	6543.3	6486.2	6347.1	6215.1
40°	6097.3	6197.2	6382.8	6450.6	6464.8	6468.4	6439.8	6400.6	6329.2	6143.7	5993.9
42.5°	5869.0	5979.6	6225.8	6329.2	6336.4	6343.5	6315.0	6282.9	6183.0	5936.8	5790.5
45°	5630.0	5776.2	6065.2	6190.1	6183.0	6179.4	6154.4	6140.2	6022.4	5737.0	5576.4
47.5°	5426.6	5597.9	5908.2	6015.3	6011.7	6008.1	5990.3	5990.3	5872.6	5562.2	5380.2
50°	5226.8	5423.0	5747.7	5836.9	5844.0	5836.9	5829.8	5840.5	5701.3	5369.5	5191.1
52.5°	5009.2	5230.4	5569.3	5651.4	5694.2	5712.0	5712.0	5687.0	5522.9	5176.9	4980.6
55°	4770.1	4980.6	5373.1	5483.7	5519.4	5551.5	5551.5	5501.5	5348.1	4998.5	4788.0
57.5°	4474.0	4659.5	4969.9	5080.5	5166.2	5187.6	5187.6	5105.5	4980.6	4645.3	4474.0
60°	4152.9	4313.5	4523.9	4641.7	4705.9	4663.1	4695.2	4673.8	4573.9	4263.5	4120.8
62.5°	3724.8	3888.9	4120.8	4242.1	4270.6	4227.8	4270.6	4267.1	4131.5	3853.2	3682.0
65°	3417.9	3578.5	3806.8	3963.8	4010.2	3999.5	4028.0	3985.2	3817.5	3553.5	3389.4
67.5°	3054.0	3225.3	3489.3	3664.1	3760.4	3771.1	3810.4	3721.2	3549.9	3261.0	3054.0
70°	2707.9	2854.2	3057.6	3221.7	3357.3	3425.1	3432.2	3303.8	3089.7	2850.7	2700.8
72.5°	2344.0	2493.9	2740.1	2918.4	3089.7	3168.2	3168.2	3011.2	2779.3	2515.3	2354.7
75°	1901.6	2040.8	2265.5	2458.2	2654.4	2754.3	2750.8	2615.2	2358.3	2108.6	1940.9
77.5°	1288.0	1391.4	1534.1	1680.4	1709.0	1787.5	1826.7	1655.5	1512.7	1377.2	1227.3
80°	749.2	813.5	891.9	974.0	991.8	1016.8	952.6	888.4	813.5	724.3	656.5
82.5°	438.8	481.7	520.9	585.1	595.8	603.0	545.9	517.3	456.7	403.2	360.3
85°	214.1	228.3	264.0	296.1	281.9	274.7	249.7	221.2	196.2	174.8	153.4
87.5°	42.8	42.8	64.2	60.7	49.9	42.8	25.0	32.1	7.1	7.1	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°	7813.4	7813.4	7813.4	7813.4	7813.4	7813.4	7813.4	7813.4	7813.4	7813.4	7813.4
2.5°	7328.2	7388.9	7463.8	7563.7	7677.9	7799.2	7916.9	8006.1	8095.3	8227.3	8205.9
5°	6953.6	7057.1	7174.8	7328.2	7513.8	7724.3	7959.7	8195.2	8448.5	8662.6	8755.3
7.5°	6736.0	6850.1	6989.3	7189.1	7428.1	7685.0	8016.8	8398.6	8808.9	9090.7	9265.5
10°	6736.0	6882.3	7064.2	7256.9	7467.4	7731.4	8141.7	8619.8	9147.8	9518.8	9722.2
12.5°	7124.9	7271.1	7310.4	7303.3	7421.0	7713.5	8241.6	8851.7	9483.2	9875.6	10125.4
15°	7731.4	7781.3	7485.2	7214.1	7231.9	7585.1	8288.0	9037.2	9772.2	10243.1	10514.3
17.5°	8138.1	8006.1	7478.1	7003.6	6903.7	7367.5	8288.0	9215.6	10079.0	10610.6	10863.9
20°	8170.2	7842.0	7296.1	6800.2	6543.3	7078.5	8230.9	9351.2	10375.1	10963.8	11235.0
22.5°	7888.4	7563.7	7103.5	6625.4	6247.2	6728.8	8138.1	9454.6	10628.4	11295.6	11631.0
25°	7567.3	7296.1	6907.2	6447.0	6043.8	6375.6	8052.5	9629.4	10981.6	11745.1	12084.1
27.5°	7253.3	7025.0	6671.8	6297.1	5929.7	6068.8	7999.0	9886.3	11402.6	12383.8	12676.3
30°	6946.5	6739.5	6418.4	6154.4	5869.0	5869.0	7952.6	10182.5	11959.2	13100.9	13393.5
32.5°	6636.1	6439.8	6179.4	6015.3	5833.3	5790.5	7824.1	10460.7	12533.6	13885.8	14185.5
35°	6347.1	6150.9	5951.1	5883.3	5815.5	5729.9	7506.6	10678.4	13093.8	14802.7	15059.6
37.5°	6075.9	5886.8	5737.0	5719.2	5726.3	5565.7	7007.1	10860.3	13793.1	15741.1	15876.6
40°	5840.5	5630.0	5512.2	5508.7	5544.3	5301.7	6375.6	11120.8	14592.2	16536.7	16479.6
42.5°	5630.0	5408.8	5266.0	5298.2	5276.8	5037.7	5758.4	11359.8	15288.0	17282.3	17168.2
45°	5423.0	5209.0	5009.2	5055.5	5030.6	4873.6	5233.9	11534.6	16058.6	18177.9	18192.1
47.5°	5223.2	5012.7	4812.9	4755.9	4752.3	4823.6	4830.8	11591.7	17314.5	19619.2	19294.6
50°	5037.7	4827.2	4620.3	4427.6	4502.5	4723.7	4531.1	11548.9	19194.7	21210.5	20304.3
52.5°	4845.1	4645.3	4416.9	4070.8	4267.1	4484.7	4263.5	11395.5	20343.5	22616.2	22073.9
55°	4623.8	4434.8	4124.4	3703.4	3942.4	3988.8	3988.8	9911.3	20832.3	24007.6	24343.0
57.5°	4327.7	4078.0	3585.6	3246.7	3460.8	3282.4	3696.2	6935.8	20026.0	23568.8	24871.0
60°	3992.3	3724.8	3203.9	2961.3	3025.5	2711.5	3150.4	4349.1	16597.3	20054.5	22309.4
62.5°	3549.9	3303.8	2872.1	2683.0	2551.0	2212.0	2536.7	2750.8	11377.7	14891.9	16429.6
65°	3253.8	2982.7	2597.3	2347.6	2076.5	1780.3	1684.0	1805.3	6118.7	8334.3	9372.6
67.5°	2904.2	2636.6	2272.7	1958.7	1741.1	1527.0	1359.3	1316.5	2097.9	2775.7	3004.1
70°	2572.4	2315.5	2012.2	1719.7	1502.0	1291.5	1127.4	1009.7	970.4	963.3	949.0
72.5°	2233.4	1994.4	1741.1	1469.9	1230.9	1038.2	891.9	756.4	699.3	681.4	663.6
75°	1830.3	1641.2	1387.9	1095.3	902.6	724.3	610.1	520.9	470.9	453.1	431.7
77.5°	1177.4	1091.7	870.5	706.4	545.9	431.7	371.0	314.0	281.9	274.7	256.9
80°	627.9	585.1	481.7	406.7	324.7	264.0	231.9	199.8	182.0	174.8	167.7
82.5°	349.6	317.5	267.6	235.5	189.1	160.6	142.7	128.4	117.7	114.2	110.6
85°	157.0	135.6	107.0	99.9	89.2	82.1	78.5	71.4	67.8	64.2	60.7
87.5°	7.1	14.3	17.8	14.3	14.3	21.4	25.0	25.0	21.4	21.4	17.8
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: P643705

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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7813.4	7813.4	7813.4	7813.4	7813.4	7813.4	7813.4	7813.4	7813.4	7813.4
2.5°	8337.9	8444.9	8455.6	8491.3	8444.9	8434.2	8359.3	8316.5	8277.3	8266.6
5°	8987.2	9201.3	9286.9	9347.6	9290.5	9262.0	9097.8	8926.6	8830.3	8783.9
7.5°	9654.4	9975.5	10143.2	10218.1	10225.3	10096.8	9815.0	9493.9	9333.3	9272.7
10°	10250.2	10646.3	10867.5	11010.2	10960.2	10803.2	10417.9	9982.7	9779.3	9725.8
12.5°	10692.6	11070.8	11242.1	11334.8	11331.3	11245.7	10881.7	10410.8	10178.9	10125.4
15°	10978.1	11202.8	11213.5	11235.0	11295.6	11409.8	11220.7	10785.4	10528.5	10453.6
17.5°	11202.8	11113.6	10946.0	10888.9	11024.5	11342.0	11456.2	11102.9	10824.7	10760.4
20°	11345.6	10896.0	10599.9	10489.3	10646.3	11163.6	11598.9	11388.4	11099.4	11017.3
22.5°	11456.2	10692.6	10214.6	10139.6	10303.8	10970.9	11745.1	11727.3	11409.8	11295.6
25°	11631.0	10557.1	9943.4	9889.9	10043.3	10878.2	11941.4	12187.5	11905.7	11741.6
27.5°	11905.7	10542.8	9804.3	9786.4	9996.9	10960.2	12223.2	12861.9	12508.6	12387.3
30°	12287.4	10678.4	9836.4	9872.1	10128.9	11256.4	12662.1	13632.5	13279.3	13090.2
32.5°	12836.9	11042.3	10325.2	10478.6	10667.7	11730.9	13304.3	14467.4	14199.8	13921.5
35°	13561.1	12041.3	11770.1	12423.0	12244.6	12769.1	14078.5	15480.6	15155.9	14913.3
37.5°	14528.0	14089.2	14338.9	15238.0	14806.3	14731.4	15023.9	16401.1	16222.7	15980.1
40°	15883.8	15973.0	16433.2	17614.1	16989.8	16508.1	16183.5	17093.3	17153.9	16854.2
42.5°	16782.9	17193.1	18302.7	19644.2	18784.4	17632.0	17153.9	17978.1	17981.6	17710.5
45°	17118.2	18192.1	20511.2	22056.0	20618.2	18274.2	17689.1	19180.4	19144.7	18834.3
47.5°	16996.9	19034.1	22805.3	25167.1	22973.0	18730.9	17614.1	20892.9	21181.9	20711.0
50°	16743.6	19879.7	25484.7	28977.5	25862.9	19216.1	17500.0	22791.0	23269.1	22905.2
52.5°	17000.5	20821.6	28652.9	32916.4	29487.7	19990.3	18270.6	25227.8	25142.2	24703.3
55°	17813.9	21934.7	32502.5	37864.9	33469.4	21299.7	20250.7	27550.4	26679.9	26155.4
57.5°	17774.7	22730.3	35877.6	41778.7	36933.7	22373.6	20939.3	27796.6	26037.7	25374.1
60°	16133.5	22366.4	37162.0	44254.8	37979.1	21781.3	18673.8	24828.2	21970.4	21274.7
62.5°	12041.3	19847.6	34671.7	41154.4	35021.4	18812.9	14042.8	17821.1	15787.4	14613.6
65°	7702.8	15527.0	29148.8	33340.9	28866.9	14388.9	8362.9	9554.5	7485.2	7149.8
67.5°	3278.8	10960.2	22659.0	22284.4	21595.8	9322.6	3228.8	2690.1	2005.1	1969.4
70°	1084.6	7456.7	13967.9	14863.4	12897.5	6422.0	1066.8	902.6	899.1	867.0
72.5°	710.0	4003.1	7863.4	8755.3	8298.7	3696.2	645.8	603.0	617.2	603.0
75°	424.6	870.5	1323.6	1719.7	1323.6	620.8	388.9	381.8	388.9	371.0
77.5°	249.7	242.6	235.5	235.5	231.9	214.1	196.2	189.1	192.7	196.2
80°	160.6	153.4	146.3	142.7	124.9	117.7	110.6	103.5	103.5	107.0
82.5°	103.5	96.3	89.2	78.5	64.2	53.5	49.9	42.8	42.8	46.4
85°	53.5	42.8	32.1	25.0	14.3	7.1	0.0	0.0	0.0	0.0
87.5°	10.7	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

(END OF REPORT)