

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: P643654

Luminaire Tested: GWS-SA6F-735-U-SLR-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643654  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-43)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGF-735-U-SLR-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

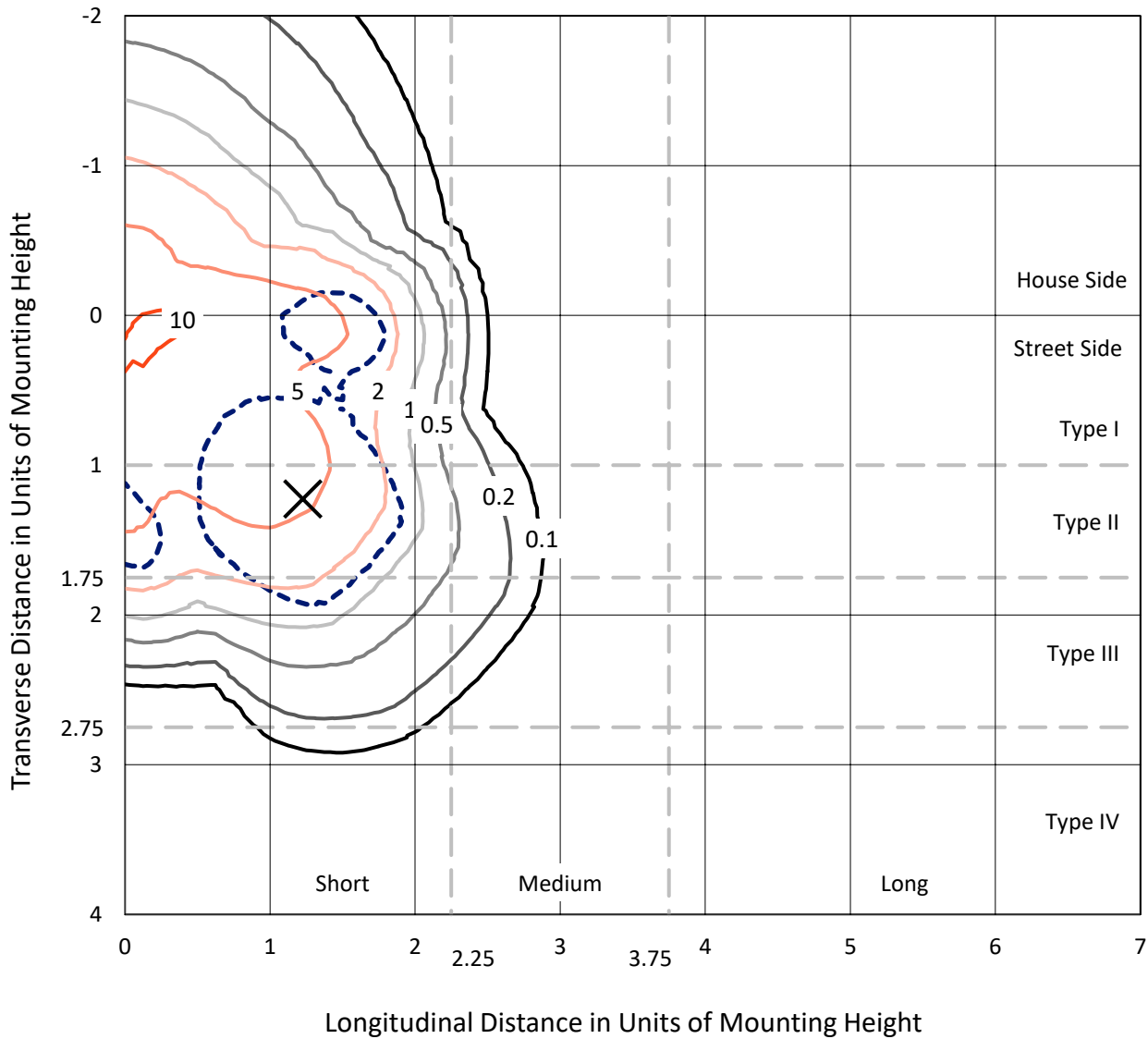
Lumens per Lamp: N/A  
Luminaire Lumens: 38406.1 lumens  
Efficiency: N/A  
Efficacy: 103.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): 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

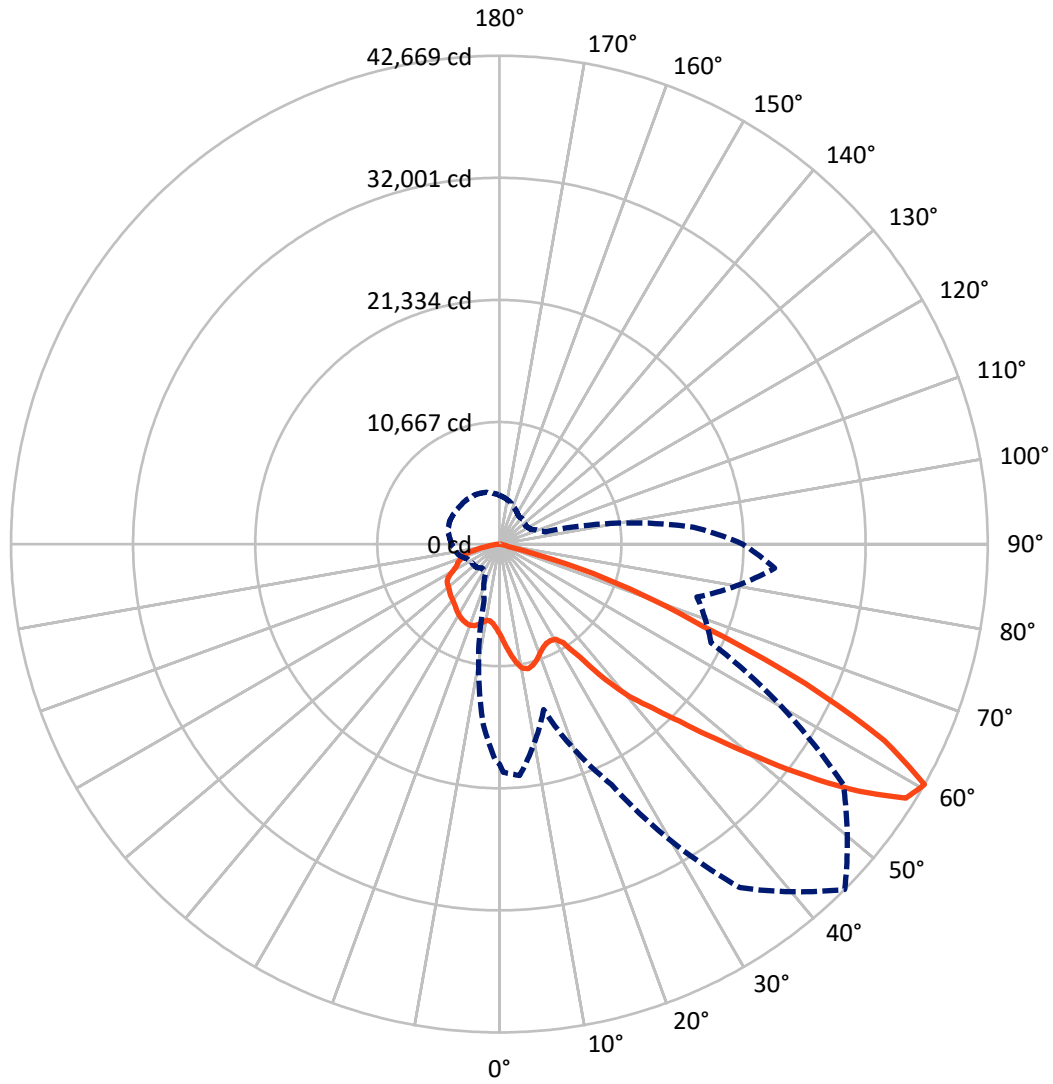
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13462.7	0.0	13462.7
	% Fixture	35.1	0.0	35.1
<b>Street Side</b>	Lumens	24943.4	0.0	24943.4
	% Fixture	64.9	0.0	64.9
<b>Total</b>	Lumens	38406.1	0.0	38406.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	769.8	2.0
10°-20°	2432.5	6.3
20°-30°	3951.3	10.3
30°-40°	5572.5	14.5
40°-50°	7701.1	20.1
50°-60°	9913.5	25.8
60°-70°	6281.3	16.4
70°-80°	1611.8	4.2
80°-90°	172.4	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°	38406.1	100.0
0°-180°	38406.1	100.0

**Coefficient of Utilization**



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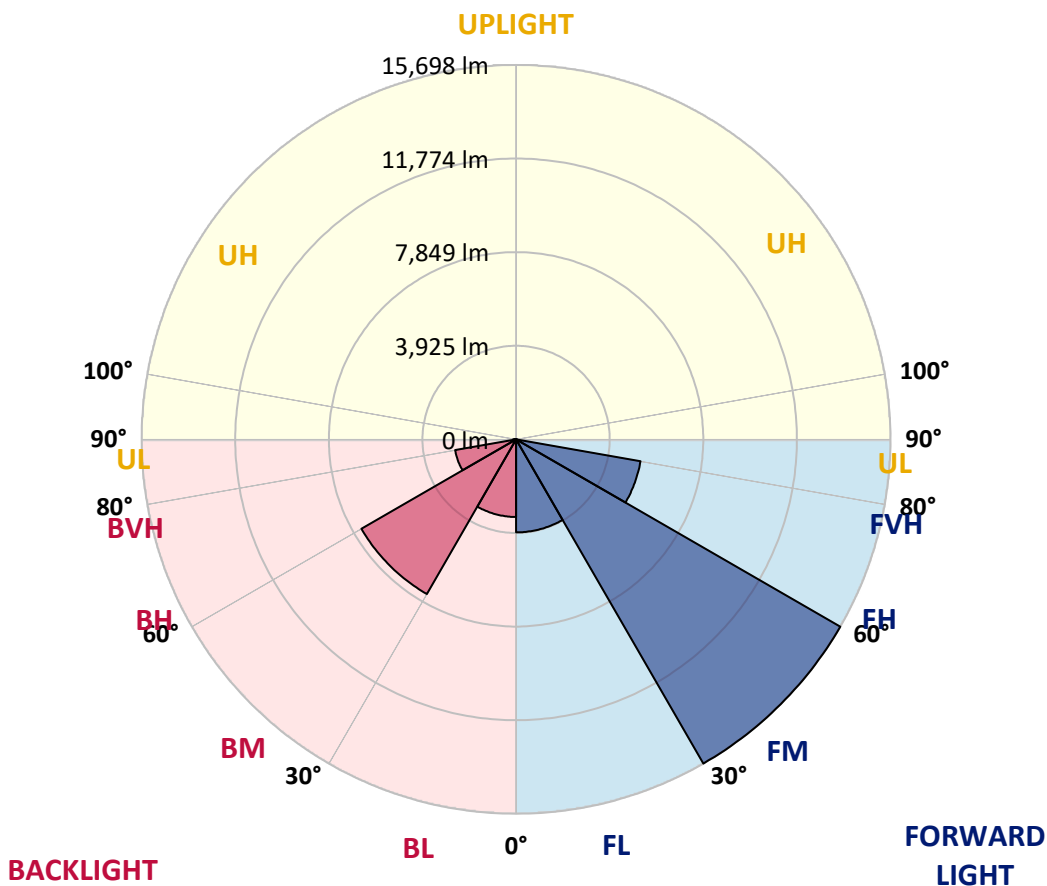
CATALOG NUMBER: GWS-SA6F-735-U-SLR-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3899.7	10.2			
FM (30°-60°)	15698.2	40.9			
FH (60°-80°)	5298.7	13.8			G3/7500
FVH (80°-90°)	46.8	0.1			G1/100
BL (0°-30°)	3253.9	8.5	B4/5000		
BM (30°-60°)	7488.9	19.5	B4/8500		
BH (60°-80°)	2594.4	6.8	B4/5000		G4/5000
BVH (80°-90°)	125.6	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°	7889.7	7889.7	7889.7	7889.7	7889.7	7889.7	7889.7	7889.7	7889.7	7889.7	7889.7
2.5°	8252.2	8308.5	8343.7	8410.6	8530.2	8597.1	8671.0	8590.0	8611.1	8600.6	8470.4
5°	8741.4	8808.2	8899.7	9096.8	9318.5	9441.6	9557.8	9540.2	9431.1	9248.1	9117.9
7.5°	9198.8	9276.2	9434.6	9754.8	10082.1	10272.1	10412.9	10321.4	10229.9	9941.4	9614.1
10°	9557.8	9603.5	9818.2	10247.5	10627.6	10842.2	11014.7	10993.6	10866.9	10543.1	10103.2
12.5°	9895.6	9927.3	10159.5	10588.9	10930.2	11025.2	11166.0	11211.7	11169.5	10926.7	10493.8
15°	10258.1	10317.9	10532.6	10859.8	11014.7	10916.1	10965.4	11092.1	11211.7	11211.7	10814.1
17.5°	10595.9	10648.7	10866.9	11007.6	10859.8	10599.4	10613.5	10775.4	11060.4	11359.5	11106.2
20°	10895.0	10944.3	11158.9	11025.2	10557.2	10177.1	10166.6	10363.6	10824.6	11454.5	11419.4
22.5°	11222.3	11292.7	11472.1	11039.3	10275.7	9793.6	9790.0	9994.1	10617.0	11549.6	11778.3
25°	11686.8	11795.9	11887.4	11162.5	10124.3	9543.7	9589.4	9783.0	10550.2	11704.4	12309.7
27.5°	12376.5	12464.5	12457.5	11419.4	10117.3	9441.6	9536.7	9761.9	10669.8	11978.9	12869.2
30°	13122.6	13168.3	13094.4	11778.3	10279.2	9505.0	9645.8	9913.2	10972.4	12432.8	13692.7
32.5°	13949.6	14005.9	13865.1	12316.7	10655.7	9973.0	10282.7	10412.9	11398.2	13087.4	14565.4
35°	14899.7	15008.8	14716.7	13027.6	11764.2	11679.8	12130.2	11961.3	12302.6	13861.6	15498.0
37.5°	15899.1	15902.6	15483.9	14079.8	13939.0	14083.3	14984.2	14456.3	14220.5	14723.8	16448.1
40°	16747.2	16726.1	16082.1	15498.0	15832.3	16405.9	17493.3	16683.9	16064.5	15881.5	17236.4
42.5°	17595.3	17517.9	16866.9	16398.8	17137.8	18316.7	19544.9	18552.5	17246.9	16933.7	18014.1
45°	18679.2	18654.6	17869.8	16757.8	18316.7	20456.3	22085.6	20477.4	17947.2	17546.0	19309.1
47.5°	20428.2	20308.5	18848.1	16729.6	19421.7	23306.8	25365.4	22902.1	18436.4	17560.1	21399.4
50°	22138.4	21990.6	20016.4	16726.1	20561.9	26262.8	29236.4	25847.5	18936.1	17644.6	23524.9
52.5°	23866.3	23866.3	21934.3	17123.8	21758.4	29563.6	33709.1	29517.9	19787.7	18749.6	26139.6
55°	24893.8	25168.3	24091.5	17795.9	23159.0	33448.7	38132.6	33480.4	21103.8	20744.9	28553.7
57.5°	23588.3	24102.1	23947.2	17327.9	23985.9	36302.7	41883.9	36485.6	21754.8	20980.7	28191.2
60°	19221.1	19935.5	20290.9	14963.1	23169.5	36633.4	42668.6	36682.7	20410.6	17866.3	24147.8
62.5°	12777.7	13365.4	13907.3	10690.9	20058.7	32956.0	37738.4	32966.6	17046.3	13333.7	16729.6
65°	6267.5	6703.8	7288.0	6320.2	15670.4	27536.7	29422.9	26639.3	12330.8	7463.9	8533.7
67.5°	1639.9	1763.1	1844.0	2452.8	11225.8	19784.2	19189.4	19485.1	7921.4	2438.7	2231.1
70°	851.6	858.7	855.1	1013.5	7587.1	12573.6	13224.6	12235.8	5528.4	1020.5	879.8
72.5°	608.8	612.3	601.8	682.7	3663.3	7203.5	7463.9	7383.0	2896.2	605.3	601.8
75°	397.7	401.2	394.1	401.2	552.5	819.9	756.6	795.3	482.1	383.6	383.6
77.5°	235.8	239.3	235.8	242.8	235.8	235.8	218.2	218.2	207.6	207.6	211.1
80°	158.4	158.4	154.8	161.9	147.8	147.8	140.8	137.2	126.7	123.2	123.2
82.5°	95.0	98.5	95.0	95.0	88.0	88.0	80.9	77.4	66.9	66.9	63.3
85°	49.3	49.3	45.7	45.7	38.7	35.2	28.2	28.2	21.1	17.6	17.6
87.5°	7.0	7.0	3.5	3.5	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°	7889.7	7889.7	7889.7	7889.7	7889.7	7889.7	7889.7	7889.7	7889.7	7889.7	7889.7
2.5°	8435.2	8364.8	8259.2	8157.2	8062.2	7963.6	7851.0	7734.9	7636.4	7534.3	7481.5
5°	8945.5	8801.2	8526.7	8283.9	8065.7	7886.2	7692.7	7527.3	7372.4	7245.8	7182.4
7.5°	9406.5	9181.2	8766.0	8382.4	8086.8	7840.5	7573.0	7326.7	7119.1	6964.2	6904.4
10°	9832.3	9564.8	9019.4	8533.7	8188.9	7914.4	7587.1	7252.8	6978.3	6774.2	6724.9
12.5°	10177.1	9871.0	9219.9	8656.9	8248.7	7953.1	7664.5	7376.0	7105.0	6841.1	6798.8
15°	10483.3	10120.8	9371.3	8734.3	8227.6	7851.0	7608.2	7573.0	7573.0	7273.9	7189.4
17.5°	10747.2	10349.6	9494.4	8769.5	8093.8	7548.4	7400.6	7706.7	8051.6	7837.0	7646.9
20°	11049.9	10567.7	9596.5	8769.5	7847.5	7164.8	7150.7	7671.6	8181.8	8185.3	7984.8
22.5°	11356.0	10821.1	9716.1	8737.8	7509.7	6721.4	6981.8	7530.8	7984.8	8178.3	8041.1
25°	11852.2	11173.0	9906.2	8713.2	7115.5	6418.8	6830.5	7344.3	7727.9	7932.0	7844.0
27.5°	12482.1	11637.5	10194.7	8751.9	6724.9	6239.3	6668.6	7101.5	7449.9	7629.3	7566.0
30°	13185.9	12172.4	10504.4	8818.8	6443.4	6147.8	6475.1	6823.5	7133.1	7312.6	7284.5
32.5°	14083.3	12753.1	10771.9	8727.3	6285.0	6102.1	6271.0	6520.8	6819.9	6932.6	6957.2
35°	15156.6	13393.6	10976.0	8368.3	6140.8	6052.8	6049.3	6204.1	6415.3	6594.7	6612.3
37.5°	16145.5	14143.1	11201.2	7752.5	5880.4	5929.6	5788.9	5880.4	6088.0	6267.5	6337.8
40°	17123.8	14903.2	11514.4	6967.7	5539.0	5655.1	5489.7	5553.1	5718.5	5954.3	6066.9
42.5°	18073.9	15589.4	11845.2	6165.4	5197.7	5271.6	5148.4	5211.7	5384.2	5679.8	5806.5
45°	19108.5	16518.5	12102.1	5408.8	4902.1	4870.4	4771.8	4863.3	5123.8	5447.5	5598.8
47.5°	21065.1	17982.4	12271.0	4905.6	4743.7	4515.0	4402.3	4599.4	4895.0	5222.3	5405.3
50°	23454.6	20100.9	12221.7	4585.3	4606.5	4149.0	4110.3	4370.7	4687.4	5028.7	5229.3
52.5°	25347.8	22180.7	11662.2	4279.2	4339.0	3916.7	3804.1	4184.2	4486.8	4835.2	5042.8
55°	26794.1	22880.9	9944.9	3916.7	3902.6	3747.8	3512.0	3990.6	4286.2	4610.0	4835.2
57.5°	25615.3	21322.0	7372.4	3417.0	3332.6	3413.5	3184.8	3663.3	4039.9	4360.1	4560.7
60°	21258.7	17000.6	4106.7	3026.4	2787.1	2984.2	2949.0	3318.5	3772.4	4110.3	4282.7
62.5°	14431.7	11320.8	2435.2	2393.0	2259.2	2540.8	2727.3	2970.1	3417.0	3691.5	3853.4
65°	7193.0	5500.3	1618.8	1791.2	1808.8	2090.3	2442.2	2709.7	3082.7	3364.2	3526.1
67.5°	2086.8	1710.3	1231.7	1368.9	1558.9	1784.2	2065.7	2382.4	2744.9	3079.2	3269.2
70°	900.9	911.4	978.3	1140.2	1326.7	1558.9	1840.5	2150.1	2456.3	2713.2	2857.5
72.5°	637.0	661.6	735.5	900.9	1076.8	1298.5	1580.1	1879.2	2100.9	2361.3	2512.6
75°	408.2	425.8	485.6	612.3	742.5	957.2	1224.6	1499.1	1727.9	1914.4	2058.7
77.5°	225.2	228.7	278.0	351.9	439.9	577.1	774.2	988.9	1157.8	1263.3	1393.5
80°	130.2	130.2	154.8	200.6	253.4	337.8	446.9	552.5	654.5	721.4	784.8
82.5°	70.4	70.4	80.9	109.1	137.2	186.5	249.9	302.6	366.0	401.2	443.4
85°	21.1	21.1	28.2	38.7	49.3	70.4	98.5	126.7	154.8	179.5	204.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5
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°	7889.7	7889.7	7889.7	7889.7	7889.7	7889.7	7889.7	7889.7	7889.7	7889.7	7889.7
2.5°	7471.0	7421.7	7393.6	7358.4	7368.9	7337.2	7319.7	7330.2	7266.9	7330.2	7393.6
5°	7157.8	7087.4	7031.1	6985.3	6964.2	6922.0	6897.4	6897.4	6858.7	6922.0	6999.4
7.5°	6883.3	6827.0	6798.8	6770.7	6739.0	6700.3	6658.1	6644.0	6619.4	6686.2	6753.1
10°	6700.3	6707.3	6724.9	6763.6	6756.6	6732.0	6668.6	6633.4	6633.4	6710.9	6812.9
12.5°	6784.8	6858.7	6900.9	6971.3	6985.3	6964.2	6900.9	6872.7	6943.1	7059.2	7228.2
15°	7112.0	7161.3	7196.5	7252.8	7249.3	7231.7	7182.4	7203.5	7435.8	7661.0	7812.3
17.5°	7467.5	7411.1	7404.1	7439.3	7449.9	7428.7	7400.6	7495.6	7879.2	8090.3	8167.7
20°	7724.3	7530.8	7488.6	7502.6	7530.8	7520.2	7520.2	7675.1	8072.7	8171.3	8072.7
22.5°	7801.8	7527.3	7463.9	7467.5	7506.2	7509.7	7527.3	7689.2	7921.4	7924.9	7773.6
25°	7678.6	7414.7	7368.9	7376.0	7421.7	7418.2	7425.2	7516.7	7618.8	7576.5	7463.9
27.5°	7446.3	7217.6	7203.5	7242.2	7302.1	7270.4	7249.3	7273.9	7323.2	7270.4	7171.8
30°	7182.4	6988.9	6995.9	7069.8	7133.1	7080.4	7027.6	7041.6	7045.2	6988.9	6876.2
32.5°	6904.4	6760.1	6784.8	6862.2	6936.1	6879.8	6823.5	6816.4	6749.6	6682.7	6573.6
35°	6626.4	6570.1	6601.8	6665.1	6728.4	6682.7	6647.5	6626.4	6482.1	6383.6	6292.1
37.5°	6373.0	6415.3	6471.6	6510.3	6531.4	6527.9	6506.7	6457.5	6267.5	6151.3	6031.7
40°	6147.8	6278.0	6337.8	6355.4	6387.1	6380.1	6376.5	6306.2	6056.3	5933.1	5795.9
42.5°	5943.7	6126.7	6228.7	6246.3	6263.9	6267.5	6256.9	6154.8	5869.8	5725.5	5595.3
45°	5746.6	5985.9	6116.1	6098.5	6123.2	6123.2	6133.7	6000.0	5686.8	5539.0	5401.8
47.5°	5574.2	5855.7	5975.4	5954.3	5968.3	5978.9	5989.4	5834.6	5486.2	5345.5	5204.7
50°	5415.8	5715.0	5817.0	5824.0	5824.0	5848.7	5845.2	5693.8	5317.3	5166.0	5025.2
52.5°	5246.9	5570.7	5679.8	5725.5	5739.6	5750.1	5700.9	5524.9	5144.9	4961.9	4831.7
55°	5049.9	5422.9	5521.4	5581.2	5609.4	5602.3	5535.5	5356.0	4968.9	4785.9	4638.1
57.5°	4750.7	5106.2	5246.9	5275.1	5320.8	5292.7	5215.3	5063.9	4687.4	4504.4	4353.1
60°	4423.5	4680.4	4793.0	4817.6	4782.4	4793.0	4782.4	4638.1	4310.9	4166.6	4011.7
62.5°	3994.1	4222.9	4342.5	4374.2	4314.4	4353.1	4339.0	4159.5	3832.3	3680.9	3543.7
65°	3670.4	3920.2	4061.0	4078.6	4061.0	4078.6	4029.3	3811.1	3501.5	3346.6	3205.9
67.5°	3417.0	3673.9	3821.7	3871.0	3853.4	3849.9	3772.4	3519.1	3198.8	3029.9	2850.4
70°	2980.6	3205.9	3395.9	3515.5	3515.5	3448.7	3300.9	3065.1	2808.2	2663.9	2523.2
72.5°	2639.3	2924.3	3110.9	3234.0	3258.7	3219.9	3012.3	2762.5	2466.9	2322.6	2174.8
75°	2174.8	2452.8	2653.4	2815.3	2846.9	2804.7	2565.4	2319.1	2044.6	1903.8	1756.0
77.5°	1453.4	1618.8	1780.6	1928.4	1896.8	1924.9	1763.1	1576.5	1407.6	1302.1	1235.2
80°	819.9	929.0	978.3	1059.2	1059.2	1059.2	953.7	865.7	770.7	710.9	644.0
82.5°	464.5	534.9	556.0	622.9	640.5	644.0	573.6	517.3	457.5	425.8	380.1
85°	214.7	253.4	256.9	295.6	309.7	337.8	306.2	267.4	232.3	218.2	190.0
87.5°	7.0	21.1	28.2	52.8	70.4	80.9	88.0	88.0	73.9	66.9	56.3
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: P643654

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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7889.7	7889.7	7889.7	7889.7	7889.7	7889.7	7889.7	7889.7	7889.7	7889.7
2.5°	7471.0	7555.4	7654.0	7724.3	7851.0	7956.6	8065.7	8185.3	8273.3	8252.2
5°	7094.4	7235.2	7414.7	7580.1	7815.8	8055.1	8319.1	8590.0	8748.4	8741.4
7.5°	6883.3	7083.9	7302.1	7523.8	7801.8	8146.6	8551.3	8973.6	9188.3	9198.8
10°	6995.9	7210.6	7358.4	7544.9	7837.0	8269.8	8755.4	9262.2	9508.5	9557.8
12.5°	7351.3	7333.7	7323.2	7456.9	7808.8	8357.8	8952.5	9557.8	9835.8	9895.6
15°	7689.2	7326.7	7108.5	7200.0	7682.1	8414.1	9146.0	9881.5	10194.7	10258.1
17.5°	7752.5	7203.5	6798.8	6862.2	7481.5	8431.7	9332.6	10198.2	10536.1	10595.9
20°	7576.5	7045.2	6573.6	6485.6	7228.2	8385.9	9448.7	10462.2	10831.7	10895.0
22.5°	7354.8	6904.4	6404.7	6176.0	6918.5	8340.2	9578.9	10740.2	11166.0	11222.3
25°	7122.6	6724.9	6246.3	5897.9	6566.6	8312.0	9797.1	11106.2	11619.9	11686.8
27.5°	6876.2	6506.7	6109.1	5764.2	6242.8	8347.2	10106.7	11697.4	12281.5	12376.5
30°	6612.3	6288.6	6021.1	5718.5	6021.1	8378.9	10448.1	12302.6	12988.9	13122.6
32.5°	6337.8	6088.0	5929.6	5739.6	5883.9	8305.0	10747.2	12981.8	13833.4	13949.6
35°	6063.3	5883.9	5813.5	5778.3	5700.9	8034.0	10990.0	13668.0	14797.7	14899.7
37.5°	5806.5	5672.7	5651.6	5690.3	5419.4	7590.6	11271.6	14540.8	15744.3	15899.1
40°	5567.2	5444.0	5440.5	5433.4	5109.7	6985.3	11651.6	15427.6	16676.8	16747.2
42.5°	5345.5	5190.6	5218.8	5134.3	4856.3	6330.8	12010.6	16184.2	17546.0	17595.3
45°	5148.4	4944.3	4976.0	4870.4	4736.7	5644.6	12327.3	17078.0	18647.5	18679.2
47.5°	4958.4	4740.2	4652.2	4645.2	4715.5	5011.1	12637.0	18798.8	20371.9	20428.2
50°	4782.4	4546.6	4296.8	4451.6	4585.3	4536.1	13024.1	20642.8	22152.5	22138.4
52.5°	4613.5	4303.8	3948.4	4247.5	4247.5	4184.2	12915.0	21761.9	23623.5	23866.3
55°	4419.9	3913.2	3585.9	3906.2	3751.3	3867.4	10983.0	22127.9	24549.0	24893.8
57.5°	4036.4	3431.1	3146.0	3318.5	3086.2	3585.9	7889.7	20312.0	22976.0	23588.3
60°	3666.9	3075.7	2889.2	2857.5	2554.8	2924.3	5113.2	15902.6	18911.4	19221.1
62.5°	3234.0	2769.5	2611.1	2368.3	2055.1	2129.0	3096.8	10465.7	12707.3	12777.7
65°	2906.7	2509.1	2206.5	1917.9	1682.1	1544.9	1829.9	5046.3	6351.9	6267.5
67.5°	2495.0	2150.1	1861.6	1654.0	1460.4	1288.0	1217.6	1499.1	1696.2	1639.9
70°	2220.5	1889.7	1611.7	1414.7	1235.2	1062.8	939.6	883.3	865.7	851.6
72.5°	1914.4	1625.8	1337.2	1147.2	978.3	819.9	707.3	640.5	622.9	608.8
75°	1527.3	1256.3	992.4	812.9	665.1	552.5	478.6	422.3	411.7	397.7
77.5°	1010.0	805.9	591.2	482.1	394.1	334.3	285.0	249.9	242.8	235.8
80°	556.0	464.5	362.5	292.1	235.8	204.1	186.5	165.4	161.9	158.4
82.5°	330.8	278.0	207.6	165.4	137.2	123.2	112.6	102.1	98.5	95.0
85°	165.4	130.2	91.5	77.4	70.4	63.3	63.3	52.8	49.3	49.3
87.5°	42.2	35.2	21.1	17.6	17.6	17.6	14.1	10.6	10.6	7.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)