

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: P643155

Luminaire Tested: GWS-SA6E-735-U-SLL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643155  
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-SAGE-735-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) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

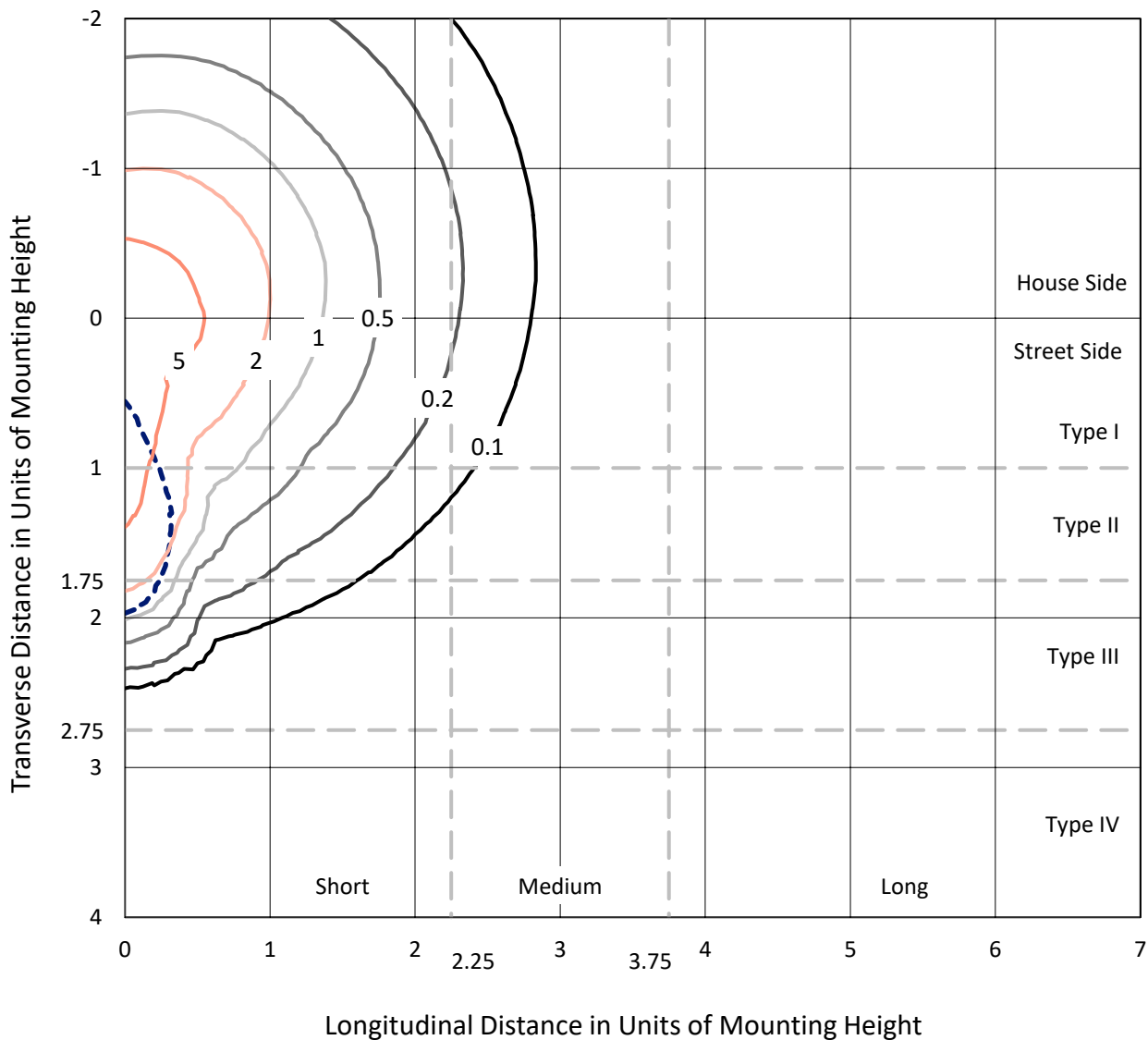
Lumens per Lamp: N/A  
Luminaire Lumens: 34366.2 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G3  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): 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

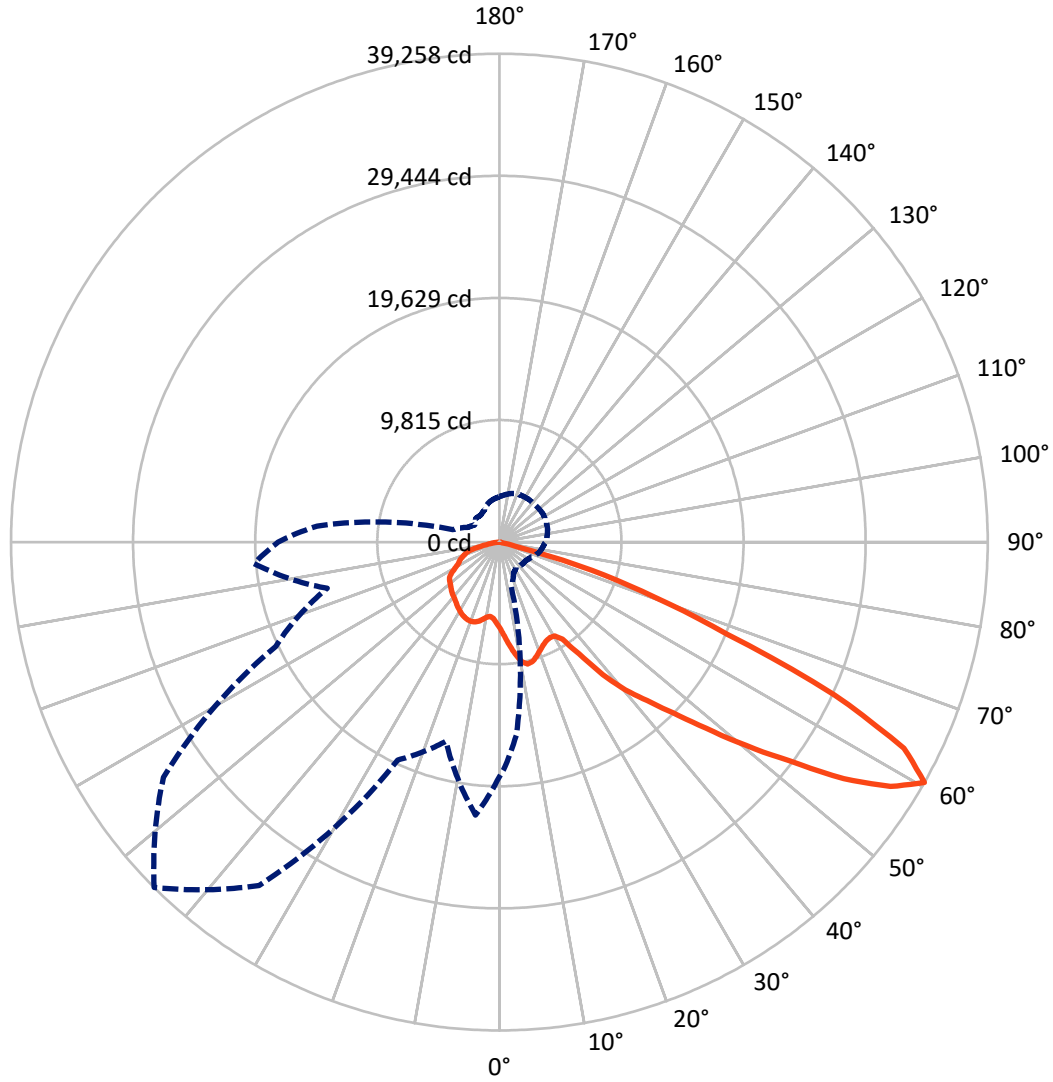
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.3 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	11756.4	0.0	11756.4
	% Fixture	34.2	0.0	34.2
<b>Street Side</b>	Lumens	22609.8	0.0	22609.8
	% Fixture	65.8	0.0	65.8
<b>Total</b>	Lumens	34366.2	0.0	34366.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	677.2	2.0
10°-20°	2172.1	6.3
20°-30°	3537.4	10.3
30°-40°	4969.3	14.5
40°-50°	6800.0	19.8
50°-60°	8724.0	25.4
60°-70°	5874.4	17.1
70°-80°	1468.6	4.3
80°-90°	143.2	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°	34366.2	100.0
0°-180°	34366.2	100.0

**Coefficient of Utilization**



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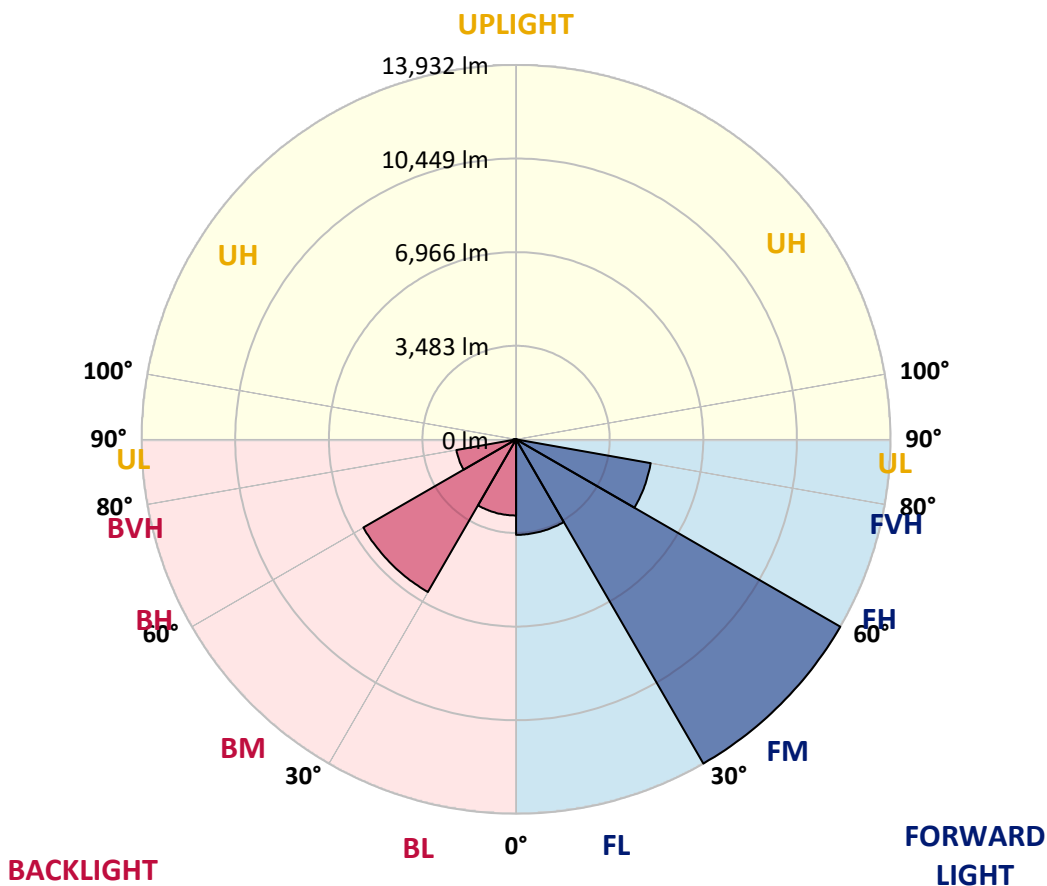
CATALOG NUMBER: GWS-SA6E-735-U-SLL-W-GRSWH

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3552.7	10.3			
FM	(30°-60°)	13932.3	40.5			
FH	(60°-80°)	5087.6	14.8			G3/7500
FVH	(80°-90°)	37.2	0.1			G1/100
BL	(0°-30°)	2834.0	8.2	B4/5000		
BM	(30°-60°)	6561.0	19.1	B4/8500		
BH	(60°-80°)	2255.4	6.6	B3/2500		G3/2500
BVH	(80°-90°)	106.0	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6931.3	6931.3	6931.3	6931.3	6931.3	6931.3	6931.3	6931.3	6931.3	6931.3	6931.3
2.5°	7333.2	7317.4	7301.6	7178.2	7146.5	7057.9	6994.6	6915.5	6801.5	6738.2	6684.4
5°	7792.2	7766.9	7681.4	7428.2	7263.6	7083.2	6934.5	6769.9	6595.8	6481.9	6393.3
7.5°	8225.8	8219.4	8073.9	7656.1	7390.2	7130.7	6928.1	6687.6	6437.6	6266.7	6152.7
10°	8627.7	8580.2	8406.2	7861.8	7513.7	7216.1	6997.8	6731.9	6440.7	6209.7	6057.8
12.5°	8982.2	8922.1	8681.5	8051.7	7621.3	7254.1	7016.8	6798.4	6605.3	6412.2	6238.2
15°	9273.4	9200.6	8956.9	8228.9	7716.2	7232.0	6899.6	6728.7	6795.2	6880.7	6687.6
17.5°	9545.6	9469.6	9172.1	8358.7	7744.7	7095.9	6611.6	6538.8	6874.3	7263.6	7175.0
20°	9773.4	9688.0	9343.0	8422.0	7694.1	6836.3	6238.2	6364.8	6807.9	7273.1	7415.5
22.5°	10020.3	9950.7	9536.1	8513.8	7630.8	6478.7	5924.8	6235.0	6693.9	7102.2	7317.4
25°	10415.9	10330.5	9836.7	8675.2	7599.1	6143.2	5700.1	6108.4	6535.7	6906.0	7073.7
27.5°	10988.8	10830.5	10248.2	8956.9	7633.9	5826.7	5557.7	5953.3	6352.1	6668.6	6804.7
30°	11612.3	11422.4	10703.9	9248.1	7684.6	5633.7	5481.7	5776.1	6070.4	6386.9	6535.7
32.5°	12349.7	12182.0	11191.4	9466.4	7577.0	5545.0	5424.8	5583.0	5817.2	6070.4	6193.9
35°	13229.6	12928.9	11723.1	9643.7	7228.8	5415.3	5374.1	5371.0	5494.4	5741.3	5880.5
37.5°	14175.9	13853.1	12378.2	9833.6	6687.6	5209.6	5253.9	5120.9	5234.9	5431.1	5589.3
40°	14951.3	14612.7	13039.7	10093.1	6010.3	4886.7	4988.0	4845.6	4915.2	5117.8	5295.0
42.5°	15710.9	15350.1	13656.9	10387.5	5355.1	4570.2	4620.9	4567.1	4589.2	4801.3	5048.1
45°	16707.9	16302.8	14416.5	10596.3	4766.5	4320.2	4272.7	4180.9	4298.0	4573.4	4836.1
47.5°	18372.7	17888.4	15660.3	10732.4	4339.2	4177.8	3959.4	3905.6	4051.2	4358.2	4630.4
50°	20319.1	19901.4	17647.9	10726.1	4019.5	4057.5	3655.5	3608.1	3848.6	4158.8	4446.8
52.5°	21914.3	21490.2	19347.5	10409.6	3756.8	3801.1	3478.3	3345.4	3674.5	3962.5	4250.6
55°	23202.4	22724.5	20129.2	9086.6	3424.5	3392.9	3285.2	3041.5	3456.2	3766.3	4035.3
57.5°	22509.3	21939.6	19182.9	6909.1	3082.7	2883.3	2952.9	2772.5	3158.6	3547.9	3807.5
60°	18872.8	18360.0	15584.3	3677.7	2712.4	2408.5	2554.1	2582.6	2832.7	3285.2	3551.1
62.5°	12963.7	12590.3	10561.5	2231.3	2139.5	1933.8	2161.7	2367.4	2554.1	2937.1	3168.1
65°	6342.6	6231.8	5282.3	1430.6	1497.0	1563.5	1791.4	2041.4	2316.8	2652.2	2896.0
67.5°	1747.1	1759.7	1601.5	1117.2	1180.5	1364.1	1544.5	1743.9	2019.3	2329.4	2576.3
70°	769.1	781.7	807.1	860.9	981.1	1148.9	1335.6	1541.3	1794.5	2054.1	2291.4
72.5°	534.9	547.5	585.5	655.2	762.8	921.0	1098.2	1294.5	1557.2	1775.6	1971.8
75°	329.2	338.7	373.5	433.6	506.4	626.7	800.7	981.1	1212.2	1411.6	1585.7
77.5°	174.1	167.7	189.9	231.0	294.3	357.6	474.7	588.7	753.3	914.7	1060.3
80°	94.9	91.8	104.4	126.6	145.6	196.2	275.4	351.3	446.3	538.0	617.2
82.5°	41.1	38.0	41.1	53.8	66.5	94.9	139.3	193.1	246.9	310.2	360.8
85°	0.0	0.0	0.0	3.2	15.8	25.3	47.5	69.6	101.3	139.3	170.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.7	28.5
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6931.3	6931.3	6931.3	6931.3	6931.3	6931.3	6931.3	6931.3	6931.3	6931.3	6931.3
2.5°	6652.8	6573.7	6567.3	6504.0	6510.4	6513.5	6450.2	6424.9	6447.1	6472.4	6459.7
5°	6361.6	6279.3	6244.5	6184.4	6178.0	6149.5	6124.2	6092.6	6114.7	6136.9	6149.5
7.5°	6108.4	6054.6	6032.4	6016.6	6022.9	6010.3	5959.6	5931.2	5928.0	5937.5	5950.2
10°	6026.1	5981.8	6010.3	6054.6	6086.2	6108.4	6054.6	6007.1	5962.8	5943.8	5943.8
12.5°	6203.4	6146.4	6203.4	6250.8	6314.1	6330.0	6269.8	6219.2	6203.4	6222.3	6260.3
15°	6595.8	6462.9	6459.7	6488.2	6538.8	6564.2	6507.2	6481.9	6481.9	6602.1	6697.1
17.5°	6988.3	6769.9	6678.1	6662.3	6693.9	6703.4	6655.9	6633.8	6690.8	6925.0	7102.2
20°	7263.6	6997.8	6798.4	6760.4	6769.9	6773.0	6735.1	6719.2	6801.5	7086.4	7235.1
22.5°	7235.1	7038.9	6795.2	6747.7	6763.6	6757.2	6722.4	6716.1	6782.5	7029.4	7099.0
25°	7038.9	6887.0	6681.3	6649.6	6674.9	6671.8	6637.0	6621.1	6649.6	6814.2	6820.5
27.5°	6814.2	6681.3	6504.0	6494.5	6535.7	6557.8	6497.7	6450.2	6440.7	6551.5	6526.2
30°	6545.2	6447.1	6304.6	6311.0	6386.9	6399.6	6326.8	6257.2	6238.2	6298.3	6263.5
32.5°	6225.5	6193.9	6117.9	6133.7	6206.5	6231.8	6155.9	6083.1	6060.9	6079.9	6007.1
35°	5953.3	5940.7	5947.0	5975.5	6038.8	6057.8	5994.5	5937.5	5905.8	5839.4	5744.4
37.5°	5671.6	5706.5	5798.2	5852.0	5886.9	5880.5	5845.7	5804.6	5753.9	5630.5	5513.4
40°	5408.9	5497.6	5662.1	5722.3	5734.9	5738.1	5712.8	5678.0	5614.7	5450.1	5317.2
42.5°	5206.4	5304.5	5522.9	5614.7	5621.0	5627.3	5602.0	5573.5	5484.9	5266.5	5136.8
45°	4994.3	5124.1	5380.5	5491.2	5484.9	5481.7	5459.6	5446.9	5342.5	5089.3	4946.9
47.5°	4813.9	4965.8	5241.2	5336.1	5333.0	5329.8	5314.0	5314.0	5209.6	4934.2	4772.8
50°	4636.7	4810.8	5098.8	5177.9	5184.2	5177.9	5171.6	5181.1	5057.6	4763.3	4605.0
52.5°	4443.6	4639.9	4940.5	5013.3	5051.3	5067.1	5067.1	5045.0	4899.4	4592.4	4418.3
55°	4231.6	4418.3	4766.5	4864.6	4896.2	4924.7	4924.7	4880.4	4744.3	4434.1	4247.4
57.5°	3968.9	4133.5	4408.8	4506.9	4582.9	4601.9	4601.9	4529.1	4418.3	4120.8	3968.9
60°	3684.0	3826.5	4013.2	4117.6	4174.6	4136.6	4165.1	4146.1	4057.5	3782.1	3655.5
62.5°	3304.2	3449.8	3655.5	3763.2	3788.5	3750.5	3788.5	3785.3	3665.0	3418.2	3266.3
65°	3032.0	3174.5	3377.0	3516.3	3557.4	3547.9	3573.3	3535.3	3386.5	3152.3	3006.7
67.5°	2709.2	2861.1	3095.3	3250.4	3335.9	3345.4	3380.2	3301.1	3149.2	2892.8	2709.2
70°	2402.2	2532.0	2712.4	2858.0	2978.2	3038.4	3044.7	2930.8	2740.9	2528.8	2395.9
72.5°	2079.4	2212.3	2430.7	2589.0	2740.9	2810.5	2810.5	2671.2	2465.5	2231.3	2088.9
75°	1686.9	1810.4	2009.8	2180.7	2354.7	2443.4	2440.2	2319.9	2092.0	1870.5	1721.7
77.5°	1142.6	1234.3	1360.9	1490.7	1516.0	1585.7	1620.5	1468.5	1341.9	1221.7	1088.8
80°	664.6	721.6	791.2	864.0	879.9	902.0	845.0	788.1	721.6	642.5	582.4
82.5°	389.3	427.3	462.1	519.1	528.6	534.9	484.2	458.9	405.1	357.6	319.7
85°	189.9	202.6	234.2	262.7	250.0	243.7	221.5	196.2	174.1	155.1	136.1
87.5°	38.0	38.0	57.0	53.8	44.3	38.0	22.2	28.5	6.3	6.3	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°	6931.3	6931.3	6931.3	6931.3	6931.3	6931.3	6931.3	6931.3	6931.3	6931.3	6931.3
2.5°	6500.9	6554.7	6621.1	6709.7	6811.0	6918.6	7023.1	7102.2	7181.3	7298.4	7279.4
5°	6168.5	6260.3	6364.8	6500.9	6665.4	6852.2	7061.1	7269.9	7494.7	7684.6	7766.9
7.5°	5975.5	6076.8	6200.2	6377.4	6589.5	6817.4	7111.7	7450.4	7814.3	8064.4	8219.4
10°	5975.5	6105.2	6266.7	6437.6	6624.3	6858.5	7222.5	7646.6	8115.0	8444.2	8624.6
12.5°	6320.5	6450.2	6485.0	6478.7	6583.1	6842.7	7311.1	7852.3	8412.5	8760.7	8982.2
15°	6858.5	6902.8	6640.1	6399.6	6415.4	6728.7	7352.2	8016.9	8668.9	9086.6	9327.2
17.5°	7219.3	7102.2	6633.8	6212.8	6124.2	6535.7	7352.2	8175.1	8941.1	9412.6	9637.4
20°	7247.8	6956.6	6472.4	6032.4	5804.6	6279.3	7301.6	8295.4	9203.7	9726.0	9966.5
22.5°	6997.8	6709.7	6301.5	5877.4	5541.9	5969.1	7219.3	8387.2	9428.5	10020.3	10317.8
25°	6712.9	6472.4	6127.4	5719.1	5361.5	5655.8	7143.4	8542.3	9741.8	10419.1	10719.8
27.5°	6434.4	6231.8	5918.5	5586.2	5260.2	5383.6	7095.9	8770.1	10115.3	10985.6	11245.2
30°	6162.2	5978.6	5693.8	5459.6	5206.4	5206.4	7054.7	9032.8	10609.0	11621.8	11881.3
32.5°	5886.9	5712.8	5481.7	5336.1	5174.7	5136.8	6940.8	9279.7	11118.6	12318.1	12583.9
35°	5630.5	5456.4	5279.2	5219.0	5158.9	5083.0	6659.1	9472.8	11615.5	13131.5	13359.4
37.5°	5390.0	5222.2	5089.3	5073.5	5079.8	4937.4	6216.0	9634.2	12235.8	13963.9	14084.1
40°	5181.1	4994.3	4889.9	4886.7	4918.4	4703.2	5655.8	9865.2	12944.8	14669.7	14619.0
42.5°	4994.3	4798.1	4671.5	4700.0	4681.0	4468.9	5108.3	10077.3	13561.9	15331.1	15229.9
45°	4810.8	4620.9	4443.6	4484.8	4462.6	4323.4	4643.0	10232.4	14245.6	16125.6	16138.2
47.5°	4633.5	4446.8	4269.6	4218.9	4215.7	4279.0	4285.4	10283.0	15359.6	17404.2	17116.2
50°	4468.9	4282.2	4098.6	3927.7	3994.2	4190.4	4019.5	10245.0	17027.6	18815.8	18011.9
52.5°	4298.0	4120.8	3918.2	3611.2	3785.3	3978.4	3782.1	10108.9	18046.7	20062.8	19581.7
55°	4101.8	3934.1	3658.7	3285.2	3497.3	3538.4	3538.4	8792.3	18480.3	21297.1	21594.6
57.5°	3839.1	3617.6	3180.8	2880.1	3070.0	2911.8	3278.9	6152.7	17765.0	20907.8	22063.0
60°	3541.6	3304.2	2842.1	2626.9	2683.9	2405.4	2794.7	3858.1	14723.5	17790.3	19790.6
62.5°	3149.2	2930.8	2547.8	2380.1	2263.0	1962.3	2250.3	2440.2	10093.1	13210.6	14574.7
65°	2886.5	2645.9	2304.1	2082.6	1842.0	1579.3	1493.9	1601.5	5427.9	7393.4	8314.4
67.5°	2576.3	2338.9	2016.1	1737.6	1544.5	1354.6	1205.9	1167.9	1861.0	2462.4	2664.9
70°	2281.9	2054.1	1785.0	1525.5	1332.5	1145.7	1000.1	895.7	860.9	854.5	841.9
72.5°	1981.3	1769.2	1544.5	1304.0	1091.9	921.0	791.2	671.0	620.3	604.5	588.7
75°	1623.6	1455.9	1231.2	971.6	800.7	642.5	541.2	462.1	417.8	402.0	383.0
77.5°	1044.4	968.5	772.3	626.7	484.2	383.0	329.2	278.5	250.0	243.7	227.9
80°	557.0	519.1	427.3	360.8	288.0	234.2	205.7	177.2	161.4	155.1	148.8
82.5°	310.2	281.7	237.4	208.9	167.7	142.4	126.6	113.9	104.4	101.3	98.1
85°	139.3	120.3	94.9	88.6	79.1	72.8	69.6	63.3	60.1	57.0	53.8
87.5°	6.3	12.7	15.8	12.7	12.7	19.0	22.2	22.2	19.0	19.0	15.8
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: P643155

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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6931.3	6931.3	6931.3	6931.3	6931.3	6931.3	6931.3	6931.3	6931.3	6931.3
2.5°	7396.5	7491.5	7501.0	7532.6	7491.5	7482.0	7415.5	7377.6	7342.7	7333.2
5°	7972.6	8162.5	8238.4	8292.2	8241.6	8216.3	8070.7	7918.8	7833.3	7792.2
7.5°	8564.4	8849.3	8998.0	9064.5	9070.8	8956.9	8706.8	8422.0	8279.6	8225.8
10°	9093.0	9444.3	9640.5	9767.1	9722.8	9583.5	9241.7	8855.6	8675.2	8627.7
12.5°	9485.4	9820.9	9972.8	10055.1	10052.0	9976.0	9653.2	9235.4	9029.7	8982.2
15°	9738.6	9938.0	9947.5	9966.5	10020.3	10121.6	9953.8	9567.7	9339.8	9273.4
17.5°	9938.0	9858.9	9710.1	9659.5	9779.8	10061.5	10162.7	9849.4	9602.5	9545.6
20°	10064.6	9665.8	9403.1	9305.0	9444.3	9903.2	10289.3	10102.6	9846.2	9773.4
22.5°	10162.7	9485.4	9061.3	8994.9	9140.5	9732.3	10419.1	10403.3	10121.6	10020.3
25°	10317.8	9365.2	8820.8	8773.3	8909.4	9650.0	10593.2	10811.6	10561.5	10415.9
27.5°	10561.5	9352.5	8697.4	8681.5	8868.3	9722.8	10843.2	11409.7	11096.4	10988.8
30°	10900.2	9472.8	8725.8	8757.5	8985.4	9985.5	11232.5	12093.4	11780.0	11612.3
32.5°	11387.6	9795.6	9159.4	9295.5	9463.3	10406.4	11802.2	12834.0	12596.6	12349.7
35°	12030.1	10681.8	10441.3	11020.4	10862.2	11327.4	12489.0	13732.8	13444.8	13229.6
37.5°	12887.8	12498.5	12720.0	13517.6	13134.7	13068.2	13327.7	14549.4	14391.1	14175.9
40°	14090.5	14169.6	14577.9	15625.5	15071.6	14644.3	14356.3	15163.4	15217.2	14951.3
42.5°	14888.0	15252.0	16236.3	17426.4	16663.6	15641.3	15217.2	15948.3	15951.5	15710.9
45°	15185.6	16138.2	18195.4	19565.9	18290.4	16211.0	15692.0	17014.9	16983.3	16707.9
47.5°	15077.9	16885.1	20230.5	22325.7	20379.3	16616.1	15625.5	18534.1	18790.5	18372.7
50°	14853.2	17635.2	22607.4	25705.9	22942.9	17046.6	15524.2	20217.9	20642.0	20319.1
52.5°	15081.1	18470.8	25417.9	29200.1	26158.5	17733.4	16207.8	22379.5	22303.6	21914.3
55°	15802.7	19458.3	28832.9	33589.9	29690.6	18894.9	17964.4	24439.9	23667.7	23202.4
57.5°	15767.9	20164.1	31827.0	37061.9	32763.8	19847.6	18575.2	24658.3	23098.0	22509.3
60°	14312.0	19841.2	32966.4	39258.4	33691.2	19322.2	16565.5	22025.1	19489.9	18872.8
62.5°	10681.8	17606.8	30757.2	36508.0	31067.4	16688.9	12457.3	15809.1	14005.0	12963.7
65°	6833.2	13774.0	25857.9	29576.7	25607.8	12764.3	7418.7	8475.8	6640.1	6342.6
67.5°	2908.6	9722.8	20100.8	19768.4	19157.6	8270.1	2864.3	2386.4	1778.7	1747.1
70°	962.2	6614.8	12390.9	13185.3	11441.4	5697.0	946.3	800.7	797.6	769.1
72.5°	629.8	3551.1	6975.6	7766.9	7361.7	3278.9	572.9	534.9	547.5	534.9
75°	376.6	772.3	1174.2	1525.5	1174.2	550.7	345.0	338.7	345.0	329.2
77.5°	221.5	215.2	208.9	208.9	205.7	189.9	174.1	167.7	170.9	174.1
80°	142.4	136.1	129.8	126.6	110.8	104.4	98.1	91.8	91.8	94.9
82.5°	91.8	85.5	79.1	69.6	57.0	47.5	44.3	38.0	38.0	41.1
85°	47.5	38.0	28.5	22.2	12.7	6.3	0.0	0.0	0.0	0.0
87.5°	9.5	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)