

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: P641179

Luminaire Tested: GWS-SA5F-735-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641179
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-SA5F-735-U-SLR-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32208.3 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G3

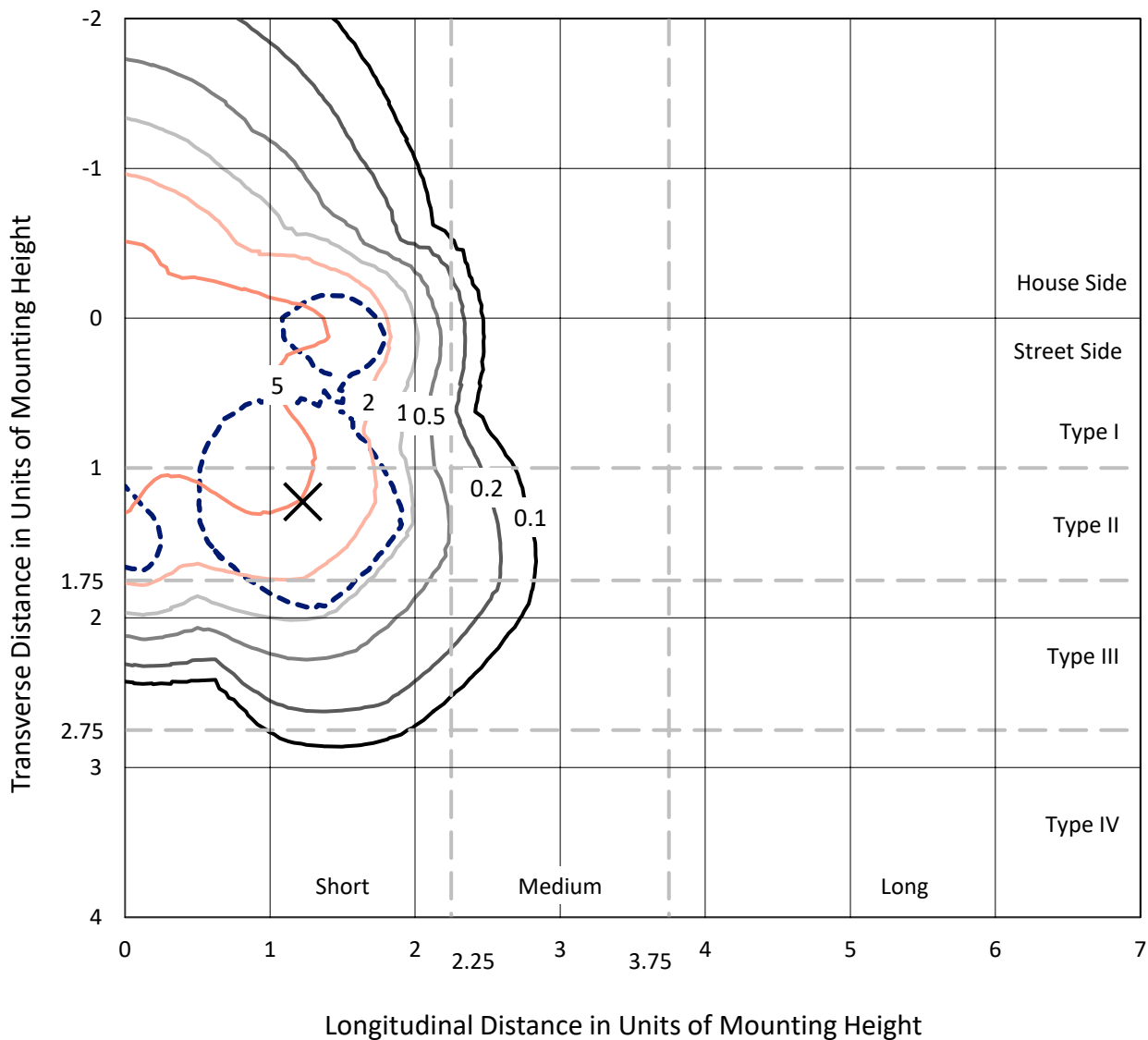
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

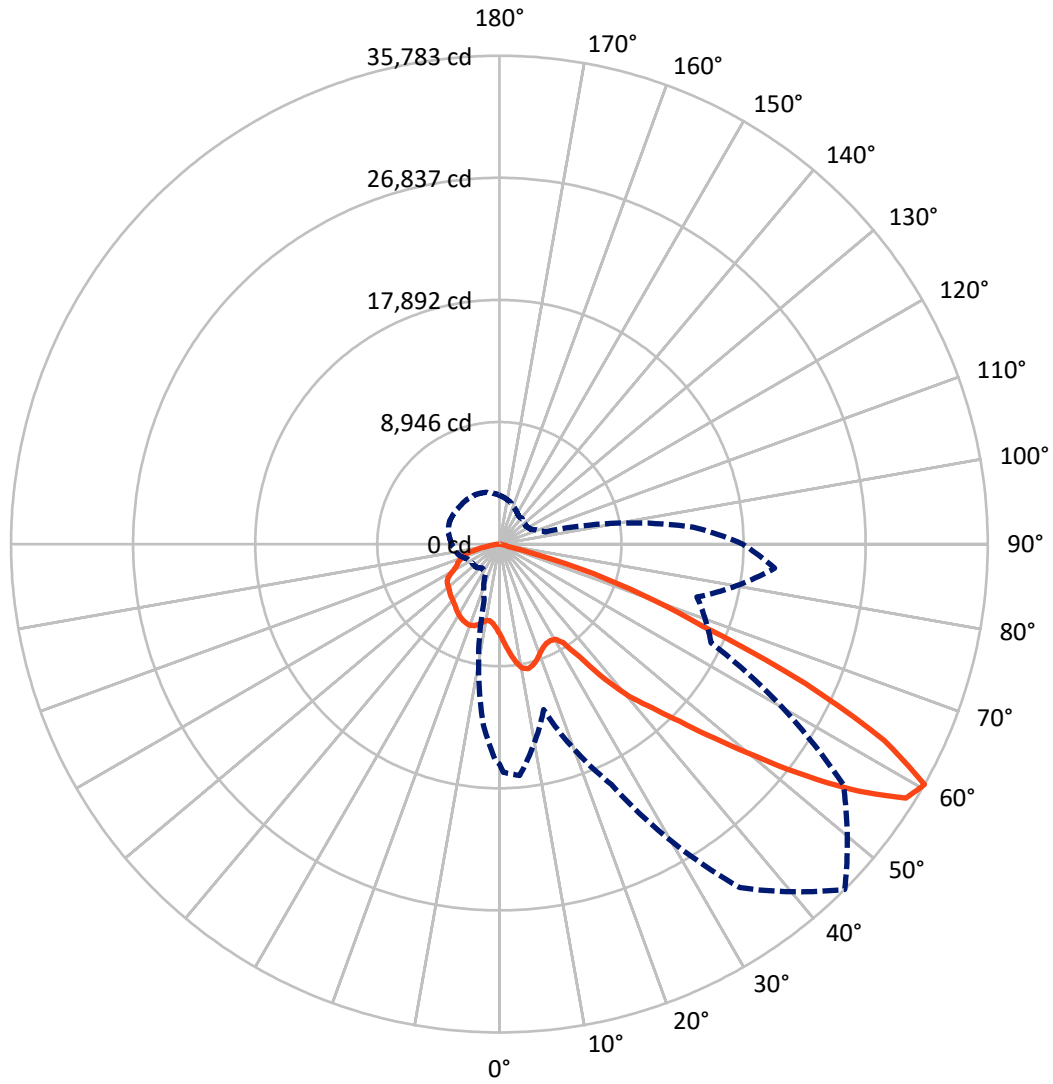
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.8 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
House Side	Lumens	11290.2	0.0	11290.2
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	20918.1	0.0	20918.1
	% Fixture	64.9	0.0	64.9
Total	Lumens	32208.3	0.0	32208.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	645.5	2.0
10°-20°	2039.9	6.3
20°-30°	3313.7	10.3
30°-40°	4673.2	14.5
40°-50°	6458.3	20.1
50°-60°	8313.7	25.8
60°-70°	5267.7	16.4
70°-80°	1351.7	4.2
80°-90°	144.5	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°	32208.3	100.0
0°-180°	32208.3	100.0

Coefficient of Utilization



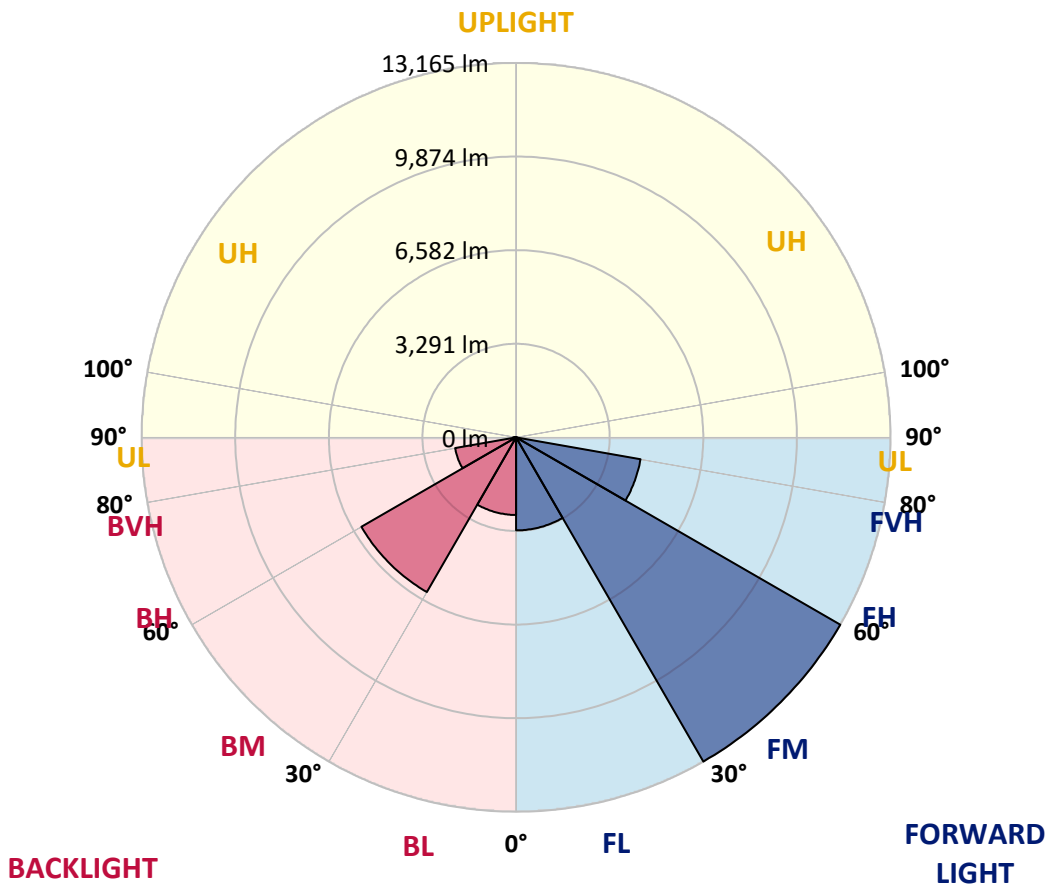
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3270.4	10.2			
FM (30°-60°)	13164.9	40.9			
FH (60°-80°)	4443.6	13.8			G2/5000
FVH (80°-90°)	39.3	0.1			G1/100
BL (0°-30°)	2728.8	8.5	B4/5000		
BM (30°-60°)	6280.4	19.5	B4/8500		
BH (60°-80°)	2175.7	6.8	B3/2500		G3/2500
BVH (80°-90°)	105.3	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°	6616.5	6616.5	6616.5	6616.5	6616.5	6616.5	6616.5	6616.5	6616.5	6616.5	6616.5
2.5°	6920.5	6967.7	6997.2	7053.3	7153.6	7209.7	7271.7	7203.8	7221.5	7212.7	7103.5
5°	7330.7	7386.8	7463.5	7628.8	7814.7	7918.0	8015.4	8000.6	7909.1	7755.7	7646.5
7.5°	7714.4	7779.3	7912.1	8180.7	8455.1	8614.5	8732.5	8655.8	8579.1	8337.1	8062.6
10°	8015.4	8053.7	8233.8	8593.8	8912.5	9092.6	9237.2	9219.5	9113.2	8841.7	8472.8
12.5°	8298.7	8325.3	8520.0	8880.1	9166.3	9246.0	9364.1	9402.4	9367.0	9163.4	8800.4
15°	8602.7	8652.8	8832.9	9107.3	9237.2	9154.5	9195.9	9302.1	9402.4	9402.4	9069.0
17.5°	8886.0	8930.2	9113.2	9231.3	9107.3	8888.9	8900.7	9036.5	9275.5	9526.4	9313.9
20°	9136.8	9178.1	9358.2	9246.0	8853.5	8534.8	8525.9	8691.2	9077.8	9606.1	9576.6
22.5°	9411.3	9470.3	9620.8	9257.8	8617.4	8213.1	8210.2	8381.3	8903.7	9685.7	9877.6
25°	9800.8	9892.3	9969.1	9361.1	8490.5	8003.6	8041.9	8204.3	8847.6	9815.6	10323.2
27.5°	10379.3	10453.1	10447.2	9576.6	8484.6	7918.0	7997.7	8186.6	8948.0	10045.8	10792.4
30°	11004.9	11043.3	10981.3	9877.6	8620.4	7971.1	8089.2	8313.5	9201.8	10426.5	11483.0
32.5°	11698.4	11745.7	11627.6	10329.1	8936.2	8363.6	8623.3	8732.5	9558.8	10975.4	12214.9
35°	12495.3	12586.8	12341.8	10925.2	9865.8	9794.9	10172.7	10031.0	10317.3	11624.7	12997.0
37.5°	13333.4	13336.3	12985.2	11807.6	11689.6	11810.6	12566.1	12123.4	11925.7	12347.7	13793.8
40°	14044.6	14026.9	13486.9	12997.0	13277.3	13758.4	14670.3	13991.5	13472.1	13318.6	14454.8
42.5°	14755.9	14690.9	14145.0	13752.5	14372.2	15360.9	16390.8	15558.6	14463.7	14201.0	15107.1
45°	15664.8	15644.2	14986.1	14053.5	15360.9	17155.2	18521.6	17172.9	15051.0	14714.5	16193.1
47.5°	17131.6	17031.2	15806.5	14029.9	16287.5	19545.6	21272.1	19206.2	15461.2	14726.4	17946.1
50°	18565.8	18441.9	16786.3	14026.9	17243.7	22024.6	24518.3	21676.4	15880.3	14797.2	19728.6
52.5°	20014.9	20014.9	18394.7	14360.4	18247.1	24792.8	28269.3	24754.4	16594.4	15723.8	21921.3
55°	20876.6	21106.8	20203.7	14924.1	19421.7	28050.9	31978.9	28077.5	17698.2	17397.2	23945.8
57.5°	19781.7	20212.6	20082.7	14531.6	20115.2	30444.3	35124.9	30597.8	18244.1	17594.9	23641.8
60°	16119.3	16718.4	17016.5	12548.4	19430.5	30721.7	35783.0	30763.0	17116.8	14983.1	20250.9
62.5°	10715.7	11208.6	11663.0	8965.7	16821.7	27637.7	31648.4	27646.6	14295.5	11182.0	14029.9
65°	5256.0	5622.0	6111.9	5300.3	13141.6	23092.9	24674.8	22340.4	10340.9	6259.4	7156.6
67.5°	1375.2	1478.5	1546.4	2057.0	9414.2	16591.5	16092.7	16340.6	6643.1	2045.2	1871.0
70°	714.2	720.1	717.1	849.9	6362.7	10544.5	11090.5	10261.2	4636.3	855.8	737.8
72.5°	510.6	513.5	504.7	572.5	3072.2	6041.1	6259.4	6191.6	2428.8	507.6	504.7
75°	333.5	336.4	330.5	336.4	463.3	687.6	634.5	667.0	404.3	321.7	321.7
77.5°	197.7	200.7	197.7	203.6	197.7	197.7	183.0	183.0	174.1	174.1	177.1
80°	132.8	132.8	129.9	135.8	123.9	123.9	118.0	115.1	106.2	103.3	103.3
82.5°	79.7	82.6	79.7	79.7	73.8	73.8	67.9	64.9	56.1	56.1	53.1
85°	41.3	41.3	38.4	38.4	32.5	29.5	23.6	23.6	17.7	14.8	14.8
87.5°	5.9	5.9	3.0	3.0	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°	6616.5	6616.5	6616.5	6616.5	6616.5	6616.5	6616.5	6616.5	6616.5	6616.5	6616.5
2.5°	7074.0	7014.9	6926.4	6840.8	6761.1	6678.5	6584.1	6486.7	6404.0	6318.5	6274.2
5°	7501.9	7380.9	7150.7	6947.1	6764.1	6613.6	6451.3	6312.6	6182.7	6076.5	6023.3
7.5°	7888.5	7699.6	7351.4	7029.7	6781.8	6575.2	6350.9	6144.3	5970.2	5840.4	5790.2
10°	8245.6	8021.3	7563.9	7156.6	6867.4	6637.2	6362.7	6082.4	5852.2	5681.0	5639.7
12.5°	8534.8	8278.0	7732.1	7259.9	6917.5	6669.6	6427.7	6185.7	5958.4	5737.1	5701.7
15°	8791.5	8487.6	7859.0	7324.8	6899.8	6584.1	6380.4	6350.9	6350.9	6100.1	6029.2
17.5°	9012.9	8679.4	7962.3	7354.3	6787.7	6330.3	6206.3	6463.1	6752.3	6572.3	6412.9
20°	9266.7	8862.4	8047.8	7354.3	6581.1	6008.6	5996.8	6433.6	6861.5	6864.4	6696.2
22.5°	9523.4	9074.9	8148.2	7327.8	6297.8	5636.7	5855.1	6315.5	6696.2	6858.5	6743.4
25°	9939.5	9370.0	8307.6	7307.1	5967.3	5382.9	5728.2	6159.1	6480.8	6651.9	6578.2
27.5°	10467.8	9759.5	8549.5	7339.6	5639.7	5232.4	5592.5	5955.5	6247.6	6398.1	6345.0
30°	11058.0	10208.1	8809.3	7395.6	5403.6	5155.7	5430.2	5722.3	5982.0	6132.5	6108.9
32.5°	11810.6	10695.0	9033.5	7318.9	5270.8	5117.3	5259.0	5468.5	5719.4	5813.8	5834.5
35°	12710.7	11232.2	9204.7	7017.9	5149.8	5076.0	5073.1	5202.9	5380.0	5530.5	5545.3
37.5°	13540.0	11860.8	9393.6	6501.4	4931.4	4972.7	4854.7	4931.4	5105.5	5256.0	5315.1
40°	14360.4	12498.2	9656.2	5843.3	4645.1	4742.5	4603.8	4657.0	4795.7	4993.4	5087.8
42.5°	15157.2	13073.7	9933.6	5170.5	4358.9	4420.9	4317.6	4370.7	4515.3	4763.2	4869.4
45°	16024.9	13852.8	10149.1	4536.0	4111.0	4084.4	4001.8	4078.5	4296.9	4568.4	4695.3
47.5°	17665.7	15080.5	10290.7	4113.9	3978.2	3786.4	3691.9	3857.2	4105.1	4379.5	4533.0
50°	19669.6	16857.1	10249.4	3845.4	3863.1	3479.4	3447.0	3665.4	3931.0	4217.2	4385.4
52.5°	21257.3	18601.2	9780.2	3588.6	3638.8	3284.7	3190.2	3508.9	3762.7	4054.9	4229.0
55°	22470.2	19188.5	8340.0	3284.7	3272.9	3143.0	2945.3	3346.6	3594.5	3866.0	4054.9
57.5°	21481.6	17881.2	6182.7	2865.6	2794.8	2862.6	2670.8	3072.2	3387.9	3656.5	3824.7
60°	17828.0	14257.1	3444.0	2538.0	2337.3	2502.6	2473.1	2783.0	3163.7	3447.0	3591.6
62.5°	12102.8	9493.9	2042.2	2006.8	1894.7	2130.7	2287.2	2490.8	2865.6	3095.8	3231.5
65°	6032.2	4612.7	1357.5	1502.1	1516.9	1753.0	2048.1	2272.4	2585.2	2821.3	2957.1
67.5°	1750.0	1434.3	1032.9	1148.0	1307.4	1496.2	1732.3	1997.9	2301.9	2582.3	2741.6
70°	755.5	764.4	820.4	956.2	1112.6	1307.4	1543.5	1803.2	2059.9	2275.4	2396.4
72.5°	534.2	554.8	616.8	755.5	903.1	1089.0	1325.1	1575.9	1761.9	1980.2	2107.1
75°	342.3	357.1	407.3	513.5	622.7	802.7	1027.0	1257.2	1449.0	1605.4	1726.4
77.5°	188.9	191.8	233.1	295.1	368.9	484.0	649.3	829.3	970.9	1059.5	1168.7
80°	109.2	109.2	129.9	168.2	212.5	283.3	374.8	463.3	548.9	605.0	658.1
82.5°	59.0	59.0	67.9	91.5	115.1	156.4	209.5	253.8	306.9	336.4	371.8
85°	17.7	17.7	23.6	32.5	41.3	59.0	82.6	106.2	129.9	150.5	171.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
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°	6616.5	6616.5	6616.5	6616.5	6616.5	6616.5	6616.5	6616.5	6616.5	6616.5	6616.5
2.5°	6265.3	6224.0	6200.4	6170.9	6179.8	6153.2	6138.4	6147.3	6094.2	6147.3	6200.4
5°	6002.7	5943.7	5896.4	5858.1	5840.4	5805.0	5784.3	5784.3	5751.8	5805.0	5869.9
7.5°	5772.5	5725.3	5701.7	5678.1	5651.5	5619.0	5583.6	5571.8	5551.2	5607.2	5663.3
10°	5619.0	5624.9	5639.7	5672.2	5666.3	5645.6	5592.5	5563.0	5563.0	5627.9	5713.5
12.5°	5689.9	5751.8	5787.2	5846.3	5858.1	5840.4	5787.2	5763.6	5822.7	5920.1	6061.7
15°	5964.3	6005.6	6035.1	6082.4	6079.4	6064.7	6023.3	6041.1	6235.8	6424.7	6551.6
17.5°	6262.4	6215.2	6209.3	6238.8	6247.6	6229.9	6206.3	6286.0	6607.7	6784.7	6849.7
20°	6477.8	6315.5	6280.1	6291.9	6315.5	6306.7	6306.7	6436.5	6770.0	6852.6	6770.0
22.5°	6542.7	6312.6	6259.4	6262.4	6294.9	6297.8	6312.6	6448.3	6643.1	6646.0	6519.1
25°	6439.5	6218.1	6179.8	6185.7	6224.0	6221.1	6227.0	6303.7	6389.3	6353.9	6259.4
27.5°	6244.7	6052.9	6041.1	6073.5	6123.7	6097.1	6079.4	6100.1	6141.4	6097.1	6014.5
30°	6023.3	5861.0	5866.9	5928.9	5982.0	5937.8	5893.5	5905.3	5908.2	5861.0	5766.6
32.5°	5790.2	5669.2	5689.9	5754.8	5816.8	5769.5	5722.3	5716.4	5660.3	5604.3	5512.8
35°	5557.1	5509.8	5536.4	5589.5	5642.6	5604.3	5574.8	5557.1	5436.1	5353.4	5276.7
37.5°	5344.6	5380.0	5427.2	5459.7	5477.4	5474.4	5456.7	5415.4	5256.0	5158.6	5058.3
40°	5155.7	5264.9	5315.1	5329.8	5356.4	5350.5	5347.5	5288.5	5079.0	4975.7	4860.6
42.5°	4984.5	5138.0	5223.6	5238.3	5253.1	5256.0	5247.2	5161.6	4922.6	4801.6	4692.4
45°	4819.3	5019.9	5129.1	5114.4	5135.0	5135.0	5143.9	5031.7	4769.1	4645.1	4530.0
47.5°	4674.7	4910.8	5011.1	4993.4	5005.2	5014.0	5022.9	4893.0	4600.9	4482.8	4364.8
50°	4541.9	4792.7	4878.3	4884.2	4884.2	4904.8	4901.9	4775.0	4459.2	4332.3	4214.3
52.5°	4400.2	4671.7	4763.2	4801.6	4813.4	4822.2	4780.9	4633.3	4314.6	4161.2	4052.0
55°	4234.9	4547.8	4630.4	4680.6	4704.2	4698.3	4642.2	4491.7	4167.1	4013.6	3889.6
57.5°	3984.1	4282.2	4400.2	4423.8	4462.2	4438.6	4373.6	4246.7	3931.0	3777.5	3650.6
60°	3709.6	3925.1	4019.5	4040.2	4010.6	4019.5	4010.6	3889.6	3615.2	3494.2	3364.3
62.5°	3349.6	3541.4	3641.7	3668.3	3618.1	3650.6	3638.8	3488.3	3213.8	3086.9	2971.8
65°	3078.1	3287.6	3405.7	3420.4	3405.7	3420.4	3379.1	3196.1	2936.4	2806.6	2688.5
67.5°	2865.6	3081.0	3205.0	3246.3	3231.5	3228.6	3163.7	2951.2	2682.6	2541.0	2390.4
70°	2499.6	2688.5	2847.9	2948.2	2948.2	2892.1	2768.2	2570.5	2355.0	2234.0	2116.0
72.5°	2213.4	2452.4	2608.8	2712.1	2732.8	2700.3	2526.2	2316.7	2068.8	1947.8	1823.8
75°	1823.8	2057.0	2225.2	2360.9	2387.5	2352.1	2151.4	1944.8	1714.6	1596.6	1472.6
77.5°	1218.8	1357.5	1493.3	1617.2	1590.7	1614.3	1478.5	1322.1	1180.5	1091.9	1035.9
80°	687.6	779.1	820.4	888.3	888.3	888.3	799.8	726.0	646.3	596.1	540.1
82.5°	389.6	448.6	466.3	522.4	537.1	540.1	481.0	433.8	383.7	357.1	318.7
85°	180.0	212.5	215.4	247.9	259.7	283.3	256.8	224.3	194.8	183.0	159.4
87.5°	5.9	17.7	23.6	44.3	59.0	67.9	73.8	73.8	62.0	56.1	47.2
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6616.5	6616.5	6616.5	6616.5	6616.5	6616.5	6616.5	6616.5	6616.5	6616.5
2.5°	6265.3	6336.2	6418.8	6477.8	6584.1	6672.6	6764.1	6864.4	6938.2	6920.5
5°	5949.6	6067.6	6218.1	6356.8	6554.6	6755.2	6976.6	7203.8	7336.6	7330.7
7.5°	5772.5	5940.7	6123.7	6309.6	6542.7	6832.0	7171.3	7525.5	7705.5	7714.4
10°	5866.9	6047.0	6170.9	6327.3	6572.3	6935.3	7342.5	7767.5	7974.1	8015.4
12.5°	6165.0	6150.2	6141.4	6253.5	6548.7	7009.0	7507.8	8015.4	8248.5	8298.7
15°	6448.3	6144.3	5961.4	6038.1	6442.4	7056.3	7670.1	8286.9	8549.5	8602.7
17.5°	6501.4	6041.1	5701.7	5754.8	6274.2	7071.0	7826.5	8552.5	8835.8	8886.0
20°	6353.9	5908.2	5512.8	5439.0	6061.7	7032.6	7923.9	8773.8	9083.7	9136.8
22.5°	6168.0	5790.2	5371.1	5179.3	5802.0	6994.3	8033.1	9007.0	9364.1	9411.3
25°	5973.2	5639.7	5238.3	4946.2	5506.9	6970.7	8216.1	9313.9	9744.8	9800.8
27.5°	5766.6	5456.7	5123.2	4834.0	5235.4	7000.2	8475.8	9809.7	10299.6	10379.3
30°	5545.3	5273.7	5049.5	4795.7	5049.5	7026.7	8762.0	10317.3	10892.8	11004.9
32.5°	5315.1	5105.5	4972.7	4813.4	4934.4	6964.8	9012.9	10886.9	11601.1	11698.4
35°	5084.9	4934.4	4875.3	4845.8	4780.9	6737.5	9216.5	11462.4	12409.7	12495.3
37.5°	4869.4	4757.3	4739.6	4772.0	4544.8	6365.7	9452.6	12194.2	13203.5	13333.4
40°	4668.8	4565.5	4562.5	4556.6	4285.1	5858.1	9771.3	12937.9	13985.6	14044.6
42.5°	4482.8	4353.0	4376.6	4305.8	4072.6	5309.2	10072.4	13572.4	14714.5	14755.9
45°	4317.6	4146.4	4173.0	4084.4	3972.3	4733.7	10338.0	14322.0	15638.3	15664.8
47.5°	4158.2	3975.2	3901.5	3895.5	3954.6	4202.5	10597.7	15765.2	17084.3	17131.6
50°	4010.6	3812.9	3603.4	3733.2	3845.4	3804.1	10922.3	17311.6	18577.6	18565.8
52.5°	3869.0	3609.3	3311.2	3562.1	3562.1	3508.9	10830.8	18250.1	19811.2	20014.9
55°	3706.7	3281.7	3007.2	3275.8	3145.9	3243.3	9210.6	18557.0	20587.4	20876.6
57.5°	3385.0	2877.4	2638.3	2783.0	2588.2	3007.2	6616.5	17034.2	19268.2	19781.7
60°	3075.1	2579.3	2422.9	2396.4	2142.6	2452.4	4288.1	13336.3	15859.6	16119.3
62.5°	2712.1	2322.6	2189.8	1986.1	1723.5	1785.5	2597.0	8776.8	10656.7	10715.7
65°	2437.7	2104.2	1850.4	1608.4	1410.7	1295.6	1534.6	4232.0	5326.9	5256.0
67.5°	2092.4	1803.2	1561.2	1387.1	1224.7	1080.1	1021.1	1257.2	1422.5	1375.2
70°	1862.2	1584.8	1351.6	1186.4	1035.9	891.3	788.0	740.7	726.0	714.2
72.5°	1605.4	1363.4	1121.4	962.1	820.4	687.6	593.2	537.1	522.4	510.6
75°	1280.8	1053.6	832.2	681.7	557.8	463.3	401.4	354.1	345.3	333.5
77.5°	847.0	675.8	495.8	404.3	330.5	280.4	239.0	209.5	203.6	197.7
80°	466.3	389.6	304.0	244.9	197.7	171.2	156.4	138.7	135.8	132.8
82.5°	277.4	233.1	174.1	138.7	115.1	103.3	94.4	85.6	82.6	79.7
85°	138.7	109.2	76.7	64.9	59.0	53.1	53.1	44.3	41.3	41.3
87.5°	35.4	29.5	17.7	14.8	14.8	14.8	11.8	8.9	8.9	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)