

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: P642719

Luminaire Tested: GWS-SA6D-740-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642719
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-SA6D-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28026.6 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G3

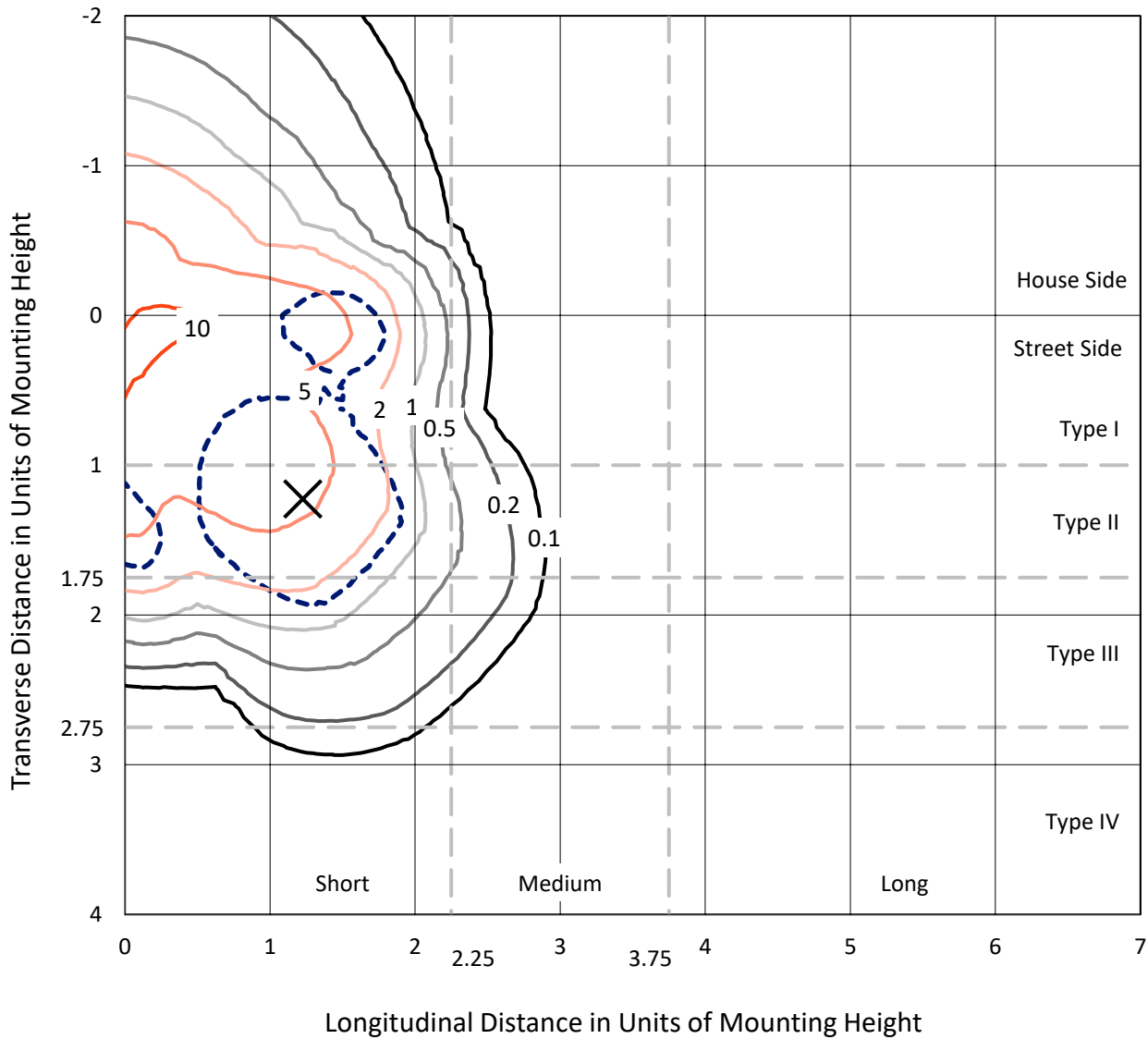
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

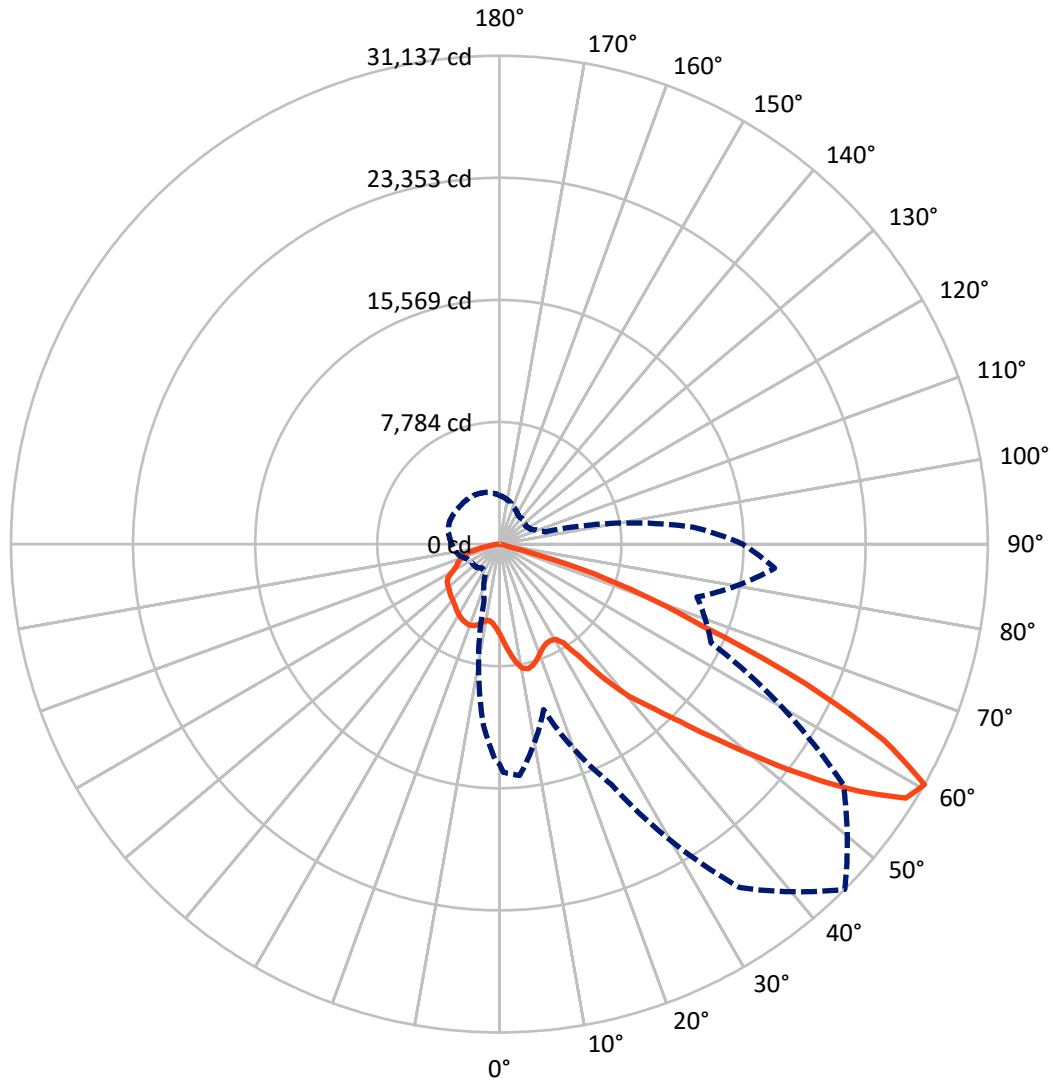
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 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	9824.3	0.0	9824.3
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	18202.3	0.0	18202.3
	% Fixture	64.9	0.0	64.9
Total	Lumens	28026.6	0.0	28026.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	561.7	2.0
10°-20°	1775.1	6.3
20°-30°	2883.4	10.3
30°-40°	4066.5	14.5
40°-50°	5619.8	20.1
50°-60°	7234.3	25.8
60°-70°	4583.7	16.4
70°-80°	1176.2	4.2
80°-90°	125.8	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°	28026.6	100.0
0°-180°	28026.6	100.0

Coefficient of Utilization



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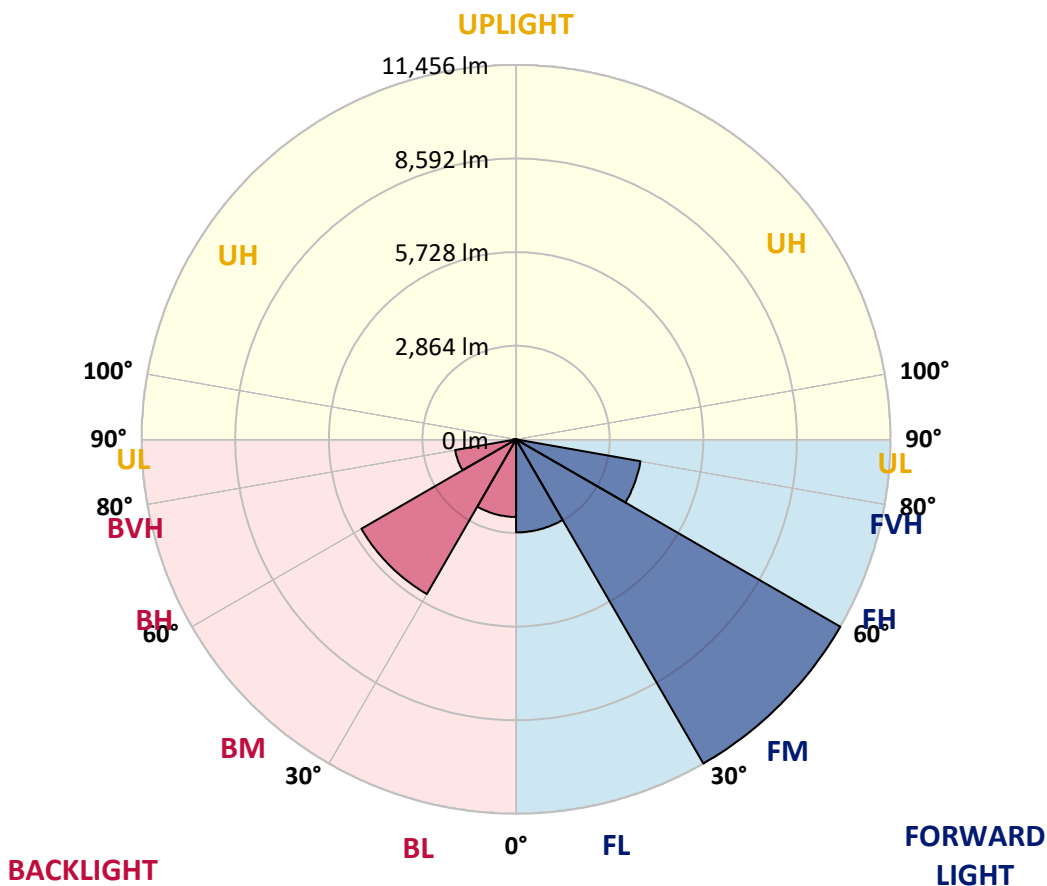
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2845.8	10.2			
FM (30°-60°)	11455.7	40.9			
FH (60°-80°)	3866.7	13.8			G2/5000
FVH (80°-90°)	34.2	0.1			G1/100
BL (0°-30°)	2374.5	8.5	B3/2500		
BM (30°-60°)	5465.0	19.5	B4/8500		
BH (60°-80°)	1893.2	6.8	B3/2500		G3/2500
BVH (80°-90°)	91.6	0.3			G1/100
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°	5757.5	5757.5	5757.5	5757.5	5757.5	5757.5	5757.5	5757.5	5757.5	5757.5	5757.5
2.5°	6022.0	6063.1	6088.8	6137.6	6224.9	6273.7	6327.6	6268.5	6283.9	6276.2	6181.2
5°	6378.9	6427.7	6494.5	6638.3	6800.1	6890.0	6974.7	6961.9	6882.3	6748.7	6653.7
7.5°	6712.8	6769.3	6884.8	7118.5	7357.4	7496.0	7598.8	7532.0	7465.2	7254.6	7015.8
10°	6974.7	7008.1	7164.8	7478.1	7755.4	7912.0	8037.9	8022.5	7930.0	7693.8	7372.8
12.5°	7221.3	7244.4	7413.9	7727.2	7976.2	8045.6	8148.3	8181.7	8150.9	7973.7	7657.8
15°	7485.8	7529.4	7686.1	7924.9	8037.9	7966.0	8001.9	8094.4	8181.7	8181.7	7891.5
17.5°	7732.3	7770.8	7930.0	8032.7	7924.9	7734.9	7745.1	7863.3	8071.3	8289.5	8104.6
20°	7950.6	7986.5	8143.2	8045.6	7704.0	7426.7	7419.0	7562.8	7899.2	8358.9	8333.2
22.5°	8189.4	8240.8	8371.7	8055.9	7498.6	7146.8	7144.2	7293.2	7747.7	8428.2	8595.1
25°	8528.4	8608.0	8674.7	8145.7	7388.2	6964.5	6997.8	7139.1	7698.9	8541.2	8982.9
27.5°	9031.7	9095.9	9090.8	8333.2	7383.0	6890.0	6959.3	7123.7	7786.2	8741.5	9391.2
30°	9576.1	9609.5	9555.6	8595.1	7501.2	6936.2	7038.9	7234.1	8007.1	9072.8	9992.1
32.5°	10179.6	10220.7	10118.0	8988.0	7775.9	7277.7	7503.7	7598.8	8317.8	9550.4	10629.0
35°	10873.0	10952.6	10739.4	9506.8	8584.9	8523.2	8851.9	8728.7	8977.8	10115.4	11309.5
37.5°	11602.3	11604.9	11299.3	10274.6	10171.9	10277.2	10934.6	10549.4	10377.3	10744.6	12002.9
40°	12221.2	12205.8	11735.8	11309.5	11553.5	11972.1	12765.6	12174.9	11723.0	11589.4	12578.1
42.5°	12840.1	12783.6	12308.5	11966.9	12506.2	13366.5	14262.7	13538.6	12585.8	12357.3	13145.7
45°	13631.0	13613.0	13040.4	12228.9	13366.5	14927.9	16116.8	14943.3	13096.9	12804.1	14090.7
47.5°	14907.3	14820.0	13754.3	12208.3	14172.9	17007.9	18510.2	16712.6	13453.8	12814.4	15616.1
50°	16155.4	16047.5	14606.9	12205.8	15004.9	19165.1	21335.1	18862.1	13818.5	12876.0	17167.2
52.5°	17416.3	17416.3	16006.4	12496.0	15878.0	21573.9	24599.0	21540.5	14439.9	13682.4	19075.2
55°	18166.1	18366.4	17580.6	12986.4	16900.1	24409.0	27827.0	24432.1	15400.4	15138.4	20836.9
57.5°	17213.4	17588.3	17475.3	12644.9	17503.6	26491.6	30564.5	26625.2	15875.5	15310.5	20572.4
60°	14026.5	14547.8	14807.2	10919.2	16907.8	26733.0	31137.2	26769.0	14894.5	13037.8	17621.7
62.5°	9324.5	9753.3	10148.8	7801.6	14637.7	24049.4	27539.4	24057.1	12439.5	9730.2	12208.3
65°	4573.6	4892.1	5318.4	4612.2	11435.4	20094.7	21471.2	19439.9	8998.3	5446.8	6227.4
67.5°	1196.7	1286.6	1345.6	1789.9	8192.0	14437.4	14003.4	14219.1	5780.6	1779.6	1628.1
70°	621.5	626.6	624.0	739.6	5536.6	9175.5	9650.6	8929.0	4034.3	744.7	642.0
72.5°	444.3	446.8	439.1	498.2	2673.3	5256.7	5446.8	5387.7	2113.5	441.7	439.1
75°	290.2	292.8	287.6	292.8	403.2	598.3	552.1	580.4	351.8	279.9	279.9
77.5°	172.1	174.6	172.1	177.2	172.1	172.1	159.2	159.2	151.5	151.5	154.1
80°	115.6	115.6	113.0	118.1	107.9	107.9	102.7	100.2	92.4	89.9	89.9
82.5°	69.3	71.9	69.3	69.3	64.2	64.2	59.1	56.5	48.8	48.8	46.2
85°	36.0	36.0	33.4	33.4	28.2	25.7	20.5	20.5	15.4	12.8	12.8
87.5°	5.1	5.1	2.6	2.6	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°	5757.5	5757.5	5757.5	5757.5	5757.5	5757.5	5757.5	5757.5	5757.5	5757.5	5757.5
2.5°	6155.5	6104.2	6027.1	5952.7	5883.3	5811.4	5729.2	5644.5	5572.6	5498.1	5459.6
5°	6527.9	6422.6	6222.3	6045.1	5885.9	5754.9	5613.7	5493.0	5380.0	5287.5	5241.3
7.5°	6864.3	6699.9	6396.9	6117.0	5901.3	5721.5	5526.4	5346.6	5195.1	5082.1	5038.4
10°	7175.0	6979.9	6581.8	6227.4	5975.8	5775.5	5536.6	5292.7	5092.4	4943.4	4907.5
12.5°	7426.7	7203.3	6728.2	6317.3	6019.4	5803.7	5593.1	5382.6	5184.8	4992.2	4961.4
15°	7650.1	7385.6	6838.6	6373.8	6004.0	5729.2	5552.0	5526.4	5526.4	5308.1	5246.5
17.5°	7842.7	7552.5	6928.5	6399.5	5906.4	5508.4	5400.5	5623.9	5875.6	5719.0	5580.3
20°	8063.6	7711.7	7003.0	6399.5	5726.7	5228.5	5218.2	5598.3	5970.6	5973.2	5826.8
22.5°	8287.0	7896.6	7090.3	6376.4	5480.1	4904.9	5094.9	5495.5	5826.8	5968.1	5867.9
25°	8649.1	8153.4	7229.0	6358.4	5192.5	4684.1	4984.5	5359.4	5639.4	5788.3	5724.1
27.5°	9108.7	8492.4	7439.5	6386.6	4907.5	4553.1	4866.4	5182.3	5436.5	5567.5	5521.2
30°	9622.3	8882.8	7665.5	6435.4	4702.0	4486.3	4725.1	4979.4	5205.4	5336.3	5315.8
32.5°	10277.2	9306.5	7860.7	6368.7	4586.5	4452.9	4576.2	4758.5	4976.8	5059.0	5077.0
35°	11060.4	9773.9	8009.6	6106.7	4481.2	4417.0	4414.4	4527.4	4681.5	4812.5	4825.3
37.5°	11782.0	10320.8	8174.0	5657.3	4291.1	4327.1	4224.4	4291.1	4442.7	4573.6	4625.0
40°	12496.0	10875.5	8402.5	5084.7	4042.1	4126.8	4006.1	4052.3	4173.0	4345.1	4427.3
42.5°	13189.3	11376.3	8643.9	4499.2	3793.0	3846.9	3757.0	3803.2	3929.1	4144.8	4237.2
45°	13944.3	12054.3	8831.4	3947.0	3577.2	3554.1	3482.2	3549.0	3739.0	3975.3	4085.7
47.5°	15372.1	13122.5	8954.7	3579.8	3461.7	3294.8	3212.6	3356.4	3572.1	3810.9	3944.5
50°	17115.8	14668.5	8918.7	3346.1	3361.5	3027.7	2999.4	3189.5	3420.6	3669.7	3816.1
52.5°	18497.4	16186.2	8510.4	3122.7	3166.4	2858.2	2776.0	3053.4	3274.2	3528.4	3680.0
55°	19552.9	16697.2	7257.2	2858.2	2847.9	2734.9	2562.9	2912.1	3127.8	3364.1	3528.4
57.5°	18692.6	15559.6	5380.0	2493.5	2431.9	2491.0	2324.1	2673.3	2948.1	3181.8	3328.1
60°	15513.4	12406.1	2996.9	2208.5	2033.9	2177.7	2152.0	2421.6	2752.9	2999.4	3125.3
62.5°	10531.4	8261.3	1777.1	1746.2	1648.7	1854.1	1990.2	2167.4	2493.5	2693.8	2812.0
65°	5249.0	4013.8	1181.3	1307.1	1320.0	1525.4	1782.2	1977.4	2249.6	2455.0	2573.1
67.5°	1522.8	1248.1	898.8	999.0	1137.6	1302.0	1507.4	1738.5	2003.1	2247.0	2385.7
70°	657.4	665.1	713.9	832.0	968.1	1137.6	1343.1	1569.1	1792.5	1979.9	2085.2
72.5°	464.8	482.8	536.7	657.4	785.8	947.6	1153.0	1371.3	1533.1	1723.1	1833.6
75°	297.9	310.7	354.4	446.8	541.9	698.5	893.7	1094.0	1260.9	1397.0	1502.3
77.5°	164.4	166.9	202.9	256.8	321.0	421.2	565.0	721.6	844.9	921.9	1016.9
80°	95.0	95.0	113.0	146.4	184.9	246.5	326.1	403.2	477.7	526.4	572.7
82.5°	51.4	51.4	59.1	79.6	100.2	136.1	182.3	220.8	267.1	292.8	323.6
85°	15.4	15.4	20.5	28.2	36.0	51.4	71.9	92.4	113.0	131.0	148.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
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°	5757.5	5757.5	5757.5	5757.5	5757.5	5757.5	5757.5	5757.5	5757.5	5757.5	5757.5
2.5°	5451.9	5415.9	5395.4	5369.7	5377.4	5354.3	5341.5	5349.2	5302.9	5349.2	5395.4
5°	5223.3	5172.0	5130.9	5097.5	5082.1	5051.3	5033.3	5033.3	5005.1	5051.3	5107.8
7.5°	5023.0	4981.9	4961.4	4940.9	4917.7	4889.5	4858.7	4848.4	4830.4	4879.2	4928.0
10°	4889.5	4894.6	4907.5	4935.7	4930.6	4912.6	4866.4	4840.7	4840.7	4897.2	4971.7
12.5°	4951.1	5005.1	5035.9	5087.2	5097.5	5082.1	5035.9	5015.3	5066.7	5151.4	5274.7
15°	5190.0	5225.9	5251.6	5292.7	5290.1	5277.3	5241.3	5256.7	5426.2	5590.6	5701.0
17.5°	5449.3	5408.2	5403.1	5428.8	5436.5	5421.1	5400.5	5469.9	5749.8	5903.9	5960.4
20°	5636.8	5495.5	5464.7	5475.0	5495.5	5487.8	5487.8	5600.8	5891.0	5962.9	5891.0
22.5°	5693.3	5493.0	5446.8	5449.3	5477.6	5480.1	5493.0	5611.1	5780.6	5783.2	5672.7
25°	5603.4	5410.8	5377.4	5382.6	5415.9	5413.4	5418.5	5485.3	5559.7	5528.9	5446.8
27.5°	5433.9	5267.0	5256.7	5285.0	5328.6	5305.5	5290.1	5308.1	5344.0	5305.5	5233.6
30°	5241.3	5100.1	5105.2	5159.1	5205.4	5166.8	5128.3	5138.6	5141.2	5100.1	5017.9
32.5°	5038.4	4933.2	4951.1	5007.6	5061.6	5020.5	4979.4	4974.2	4925.4	4876.7	4797.0
35°	4835.6	4794.5	4817.6	4863.8	4910.0	4876.7	4851.0	4835.6	4730.3	4658.4	4591.6
37.5°	4650.7	4681.5	4722.6	4750.8	4766.2	4763.7	4748.3	4712.3	4573.6	4488.9	4401.6
40°	4486.3	4581.3	4625.0	4637.8	4660.9	4655.8	4653.2	4601.9	4419.6	4329.7	4229.5
42.5°	4337.4	4470.9	4545.4	4558.2	4571.1	4573.6	4565.9	4491.5	4283.4	4178.2	4083.1
45°	4193.6	4368.2	4463.2	4450.4	4468.3	4468.3	4476.0	4378.5	4149.9	4042.1	3941.9
47.5°	4067.7	4273.2	4360.5	4345.1	4355.4	4363.1	4370.8	4257.8	4003.5	3900.8	3798.1
50°	3952.2	4170.5	4244.9	4250.1	4250.1	4268.0	4265.5	4155.0	3880.3	3769.8	3667.1
52.5°	3828.9	4065.2	4144.8	4178.2	4188.4	4196.1	4160.2	4031.8	3754.4	3620.9	3525.9
55°	3685.1	3957.3	4029.2	4072.9	4093.4	4088.3	4039.5	3908.5	3626.0	3492.5	3384.6
57.5°	3466.8	3726.2	3828.9	3849.5	3882.8	3862.3	3805.8	3695.4	3420.6	3287.1	3176.6
60°	3228.0	3415.5	3497.6	3515.6	3489.9	3497.6	3489.9	3384.6	3145.8	3040.5	2927.5
62.5°	2914.7	3081.6	3168.9	3192.0	3148.4	3176.6	3166.4	3035.4	2796.6	2686.1	2586.0
65°	2678.4	2860.8	2963.5	2976.3	2963.5	2976.3	2940.4	2781.2	2555.2	2442.2	2339.5
67.5°	2493.5	2681.0	2788.9	2824.8	2812.0	2809.4	2752.9	2568.0	2334.3	2211.1	2080.1
70°	2175.1	2339.5	2478.1	2565.4	2565.4	2516.7	2408.8	2236.7	2049.3	1944.0	1841.3
72.5°	1926.0	2134.0	2270.1	2360.0	2378.0	2349.7	2198.2	2015.9	1800.2	1694.9	1587.0
75°	1587.0	1789.9	1936.3	2054.4	2077.5	2046.7	1872.1	1692.3	1492.0	1389.3	1281.4
77.5°	1060.6	1181.3	1299.4	1407.3	1384.2	1404.7	1286.6	1150.5	1027.2	950.2	901.4
80°	598.3	678.0	713.9	773.0	773.0	773.0	695.9	631.7	562.4	518.7	469.9
82.5°	339.0	390.3	405.7	454.5	467.4	469.9	418.6	377.5	333.8	310.7	277.3
85°	156.6	184.9	187.5	215.7	226.0	246.5	223.4	195.2	169.5	159.2	138.7
87.5°	5.1	15.4	20.5	38.5	51.4	59.1	64.2	64.2	53.9	48.8	41.1
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5757.5	5757.5	5757.5	5757.5	5757.5	5757.5	5757.5	5757.5	5757.5	5757.5
2.5°	5451.9	5513.5	5585.4	5636.8	5729.2	5806.3	5885.9	5973.2	6037.4	6022.0
5°	5177.1	5279.8	5410.8	5531.5	5703.6	5878.2	6070.8	6268.5	6384.1	6378.9
7.5°	5023.0	5169.4	5328.6	5490.4	5693.3	5945.0	6240.3	6548.4	6705.1	6712.8
10°	5105.2	5261.9	5369.7	5505.8	5719.0	6034.8	6389.2	6759.0	6938.8	6974.7
12.5°	5364.6	5351.7	5344.0	5441.6	5698.4	6099.0	6533.0	6974.7	7177.6	7221.3
15°	5611.1	5346.6	5187.4	5254.2	5606.0	6140.1	6674.3	7211.0	7439.5	7485.8
17.5°	5657.3	5256.7	4961.4	5007.6	5459.6	6153.0	6810.4	7442.1	7688.6	7732.3
20°	5528.9	5141.2	4797.0	4732.8	5274.7	6119.6	6895.1	7634.7	7904.3	7950.6
22.5°	5367.1	5038.4	4673.8	4506.9	5048.7	6086.2	6990.1	7837.6	8148.3	8189.4
25°	5197.7	4907.5	4558.2	4304.0	4791.9	6065.6	7149.3	8104.6	8479.6	8528.4
27.5°	5017.9	4748.3	4458.1	4206.4	4555.7	6091.3	7375.3	8536.1	8962.4	9031.7
30°	4825.3	4589.0	4393.9	4173.0	4393.9	6114.4	7624.4	8977.8	9478.5	9576.1
32.5°	4625.0	4442.7	4327.1	4188.4	4293.7	6060.5	7842.7	9473.4	10094.9	10179.6
35°	4424.7	4293.7	4242.4	4216.7	4160.2	5862.8	8019.9	9974.2	10798.5	10873.0
37.5°	4237.2	4139.6	4124.2	4152.5	3954.7	5539.2	8225.3	10611.0	11489.3	11602.3
40°	4062.6	3972.7	3970.1	3965.0	3728.8	5097.5	8502.7	11258.2	12169.8	12221.2
42.5°	3900.8	3787.8	3808.4	3746.7	3543.9	4619.9	8764.6	11810.3	12804.1	12840.1
45°	3757.0	3608.1	3631.2	3554.1	3456.5	4119.1	8995.7	12462.6	13607.9	13631.0
47.5°	3618.3	3459.1	3394.9	3389.8	3441.1	3656.9	9221.7	13718.3	14866.2	14907.3
50°	3489.9	3317.9	3135.5	3248.5	3346.1	3310.2	9504.2	15064.0	16165.6	16155.4
52.5°	3366.7	3140.7	2881.3	3099.6	3099.6	3053.4	9424.6	15880.6	17239.1	17416.3
55°	3225.4	2855.6	2616.8	2850.5	2737.5	2822.2	8014.8	16147.7	17914.5	18166.1
57.5°	2945.5	2503.8	2295.8	2421.6	2252.1	2616.8	5757.5	14822.6	16766.6	17213.4
60°	2675.9	2244.4	2108.3	2085.2	1864.4	2134.0	3731.3	11604.9	13800.5	14026.5
62.5°	2360.0	2021.0	1905.5	1728.3	1499.7	1553.6	2259.9	7637.3	9273.1	9324.5
65°	2121.2	1831.0	1610.1	1399.6	1227.5	1127.4	1335.4	3682.5	4635.3	4573.6
67.5°	1820.7	1569.1	1358.5	1207.0	1065.7	939.9	888.5	1094.0	1237.8	1196.7
70°	1620.4	1379.0	1176.1	1032.3	901.4	775.5	685.7	644.6	631.7	621.5
72.5°	1397.0	1186.4	975.8	837.2	713.9	598.3	516.2	467.4	454.5	444.3
75°	1114.5	916.8	724.2	593.2	485.4	403.2	349.2	308.2	300.5	290.2
77.5°	737.0	588.1	431.4	351.8	287.6	244.0	208.0	182.3	177.2	172.1
80°	405.7	339.0	264.5	213.1	172.1	148.9	136.1	120.7	118.1	115.6
82.5°	241.4	202.9	151.5	120.7	100.2	89.9	82.2	74.5	71.9	69.3
85°	120.7	95.0	66.8	56.5	51.4	46.2	46.2	38.5	36.0	36.0
87.5°	30.8	25.7	15.4	12.8	12.8	12.8	10.3	7.7	7.7	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)