

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: P640680

Luminaire Tested: GWS-SA5E-735-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640680
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-SA5E-735-U-SLL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT 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: 28820.4 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G3

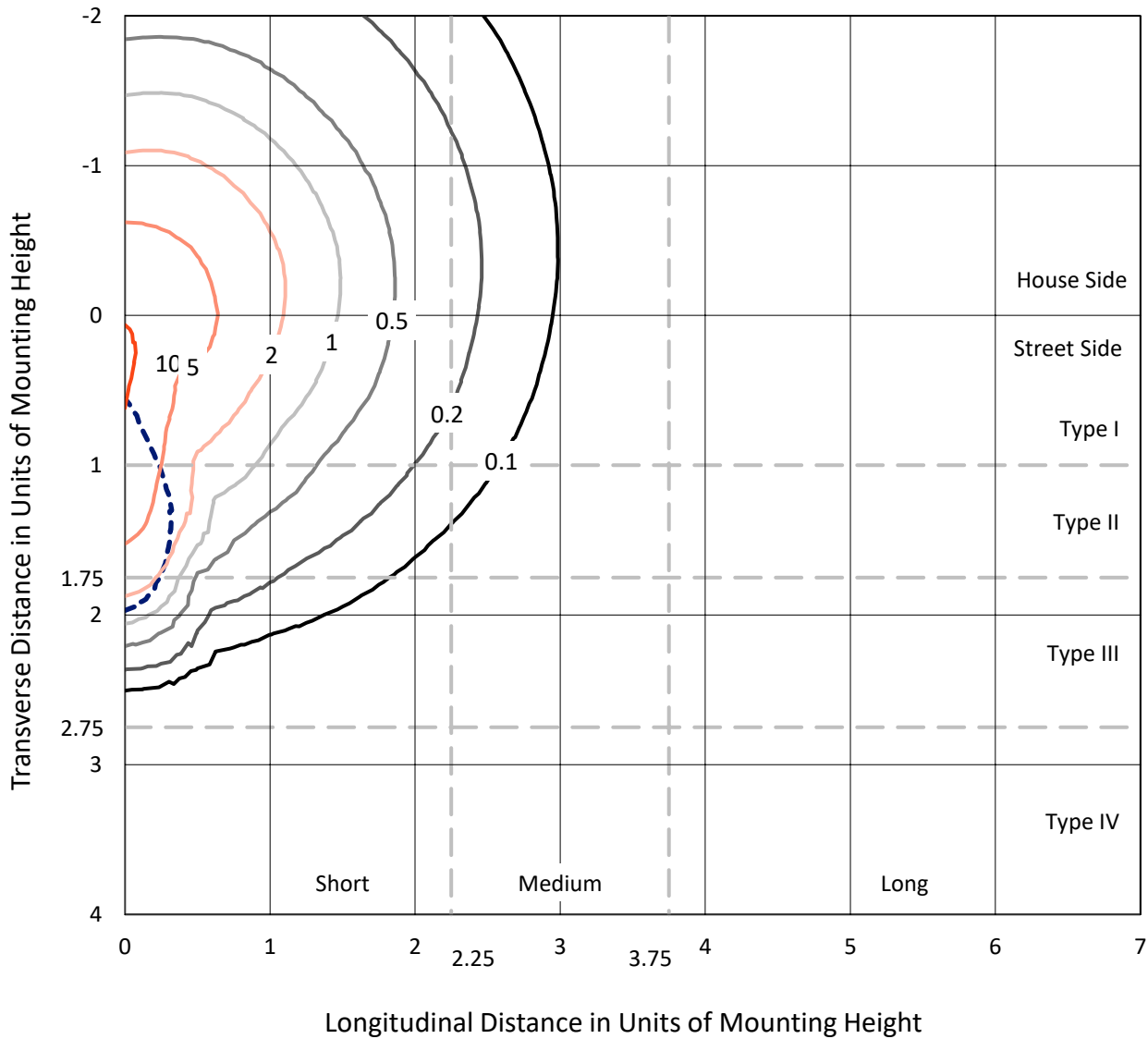
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

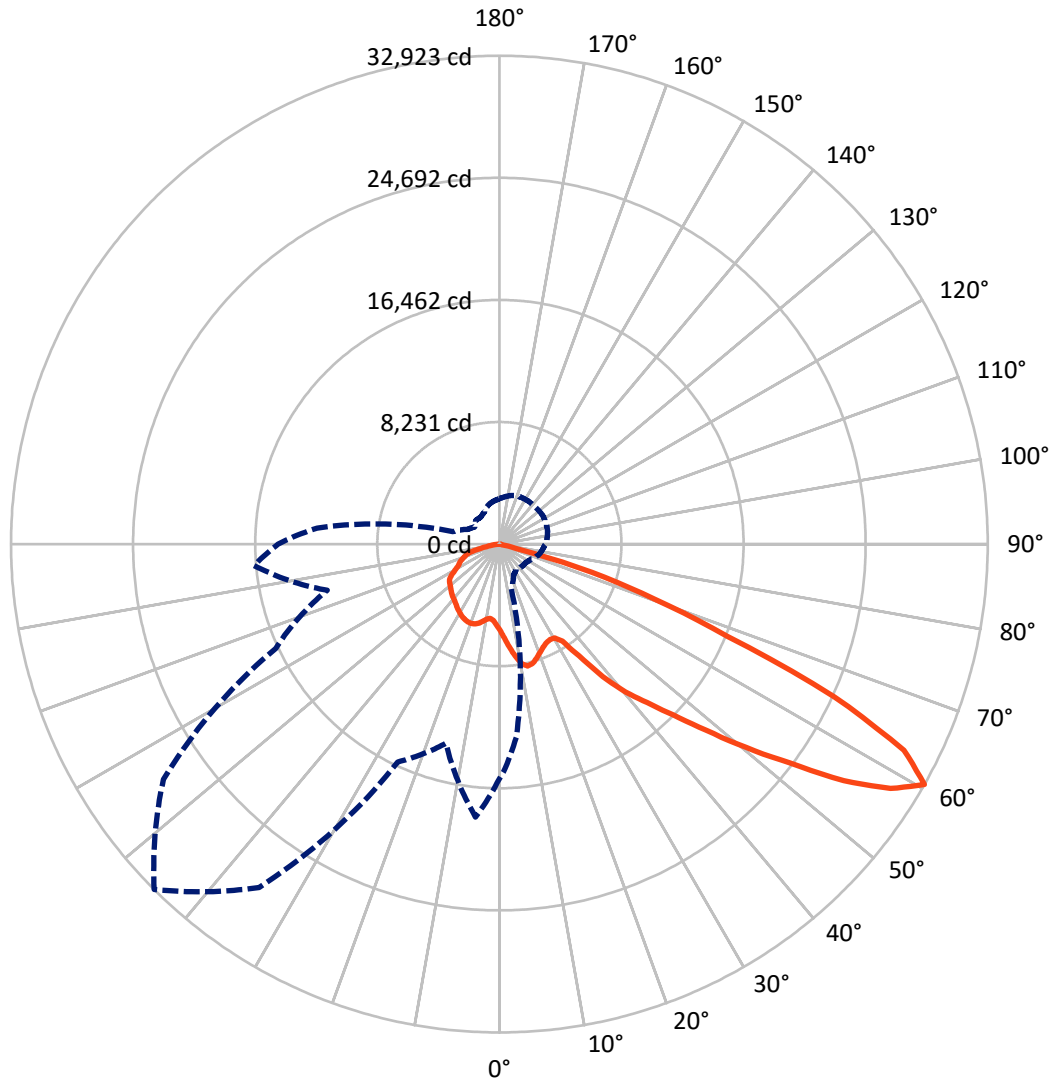
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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
House Side	Lumens	9859.2	0.0	9859.2
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	18961.2	0.0	18961.2
	% Fixture	65.8	0.0	65.8
Total	Lumens	28820.4	0.0	28820.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	567.9	2.0
10°-20°	1821.5	6.3
20°-30°	2966.6	10.3
30°-40°	4167.4	14.5
40°-50°	5702.6	19.8
50°-60°	7316.2	25.4
60°-70°	4926.4	17.1
70°-80°	1231.6	4.3
80°-90°	120.1	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°	28820.4	100.0
0°-180°	28820.4	100.0

Coefficient of Utilization



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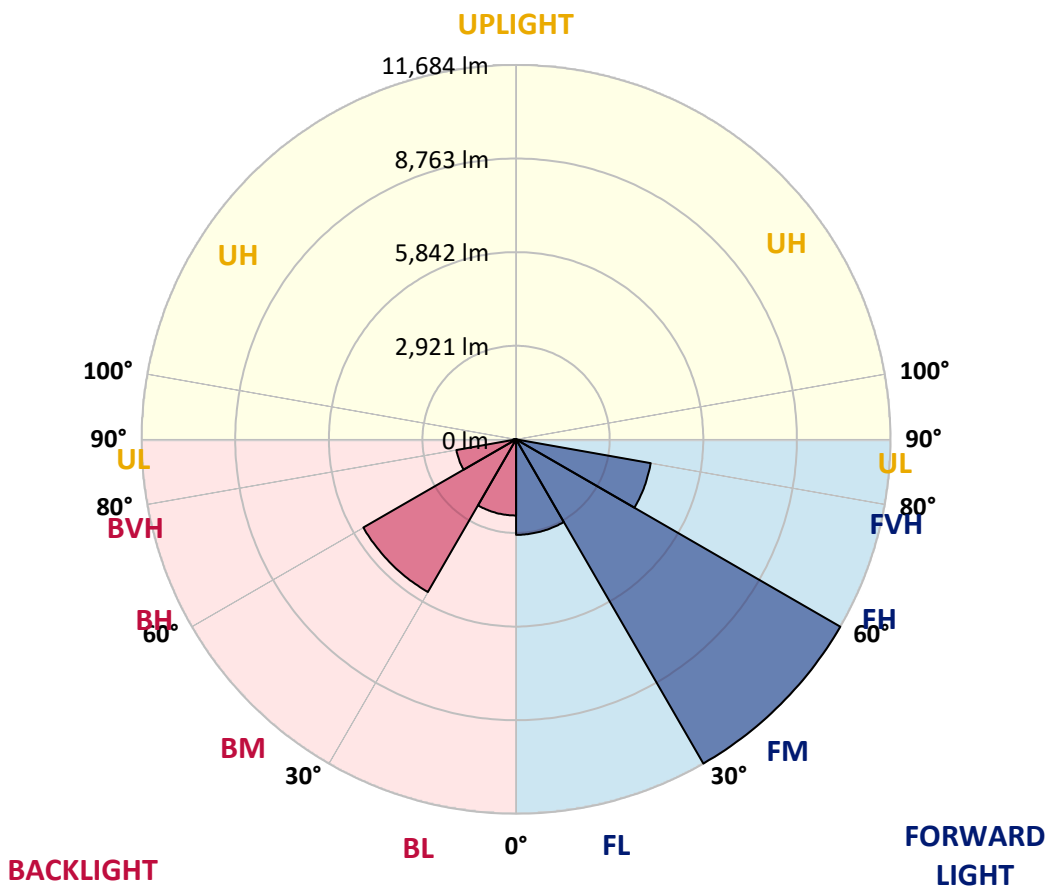
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2979.4	10.3			
FM (30°-60°)	11684.0	40.5			
FH (60°-80°)	4266.6	14.8			G2/5000
FVH (80°-90°)	31.2	0.1			G1/100
BL (0°-30°)	2376.7	8.2	B3/2500		
BM (30°-60°)	5502.2	19.1	B4/8500		
BH (60°-80°)	1891.4	6.6	B3/2500		G3/2500
BVH (80°-90°)	88.9	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°	5812.8	5812.8	5812.8	5812.8	5812.8	5812.8	5812.8	5812.8	5812.8	5812.8	5812.8
2.5°	6149.9	6136.6	6123.3	6019.8	5993.3	5918.9	5865.9	5799.5	5703.9	5650.9	5605.7
5°	6534.7	6513.5	6441.8	6229.5	6091.5	5940.2	5815.4	5677.4	5531.4	5435.9	5361.5
7.5°	6898.3	6893.0	6770.9	6420.6	6197.6	5980.0	5810.1	5608.4	5398.7	5255.4	5159.8
10°	7235.4	7195.6	7049.6	6593.1	6301.1	6051.6	5868.5	5645.6	5401.4	5207.6	5080.2
12.5°	7532.7	7482.3	7280.6	6752.4	6391.4	6083.5	5884.4	5701.3	5539.4	5377.5	5231.5
15°	7776.9	7715.9	7511.5	6901.0	6471.0	6064.9	5786.2	5642.9	5698.6	5770.3	5608.4
17.5°	8005.2	7941.5	7692.0	7009.8	6494.9	5950.8	5544.7	5483.6	5765.0	6091.5	6017.1
20°	8196.3	8124.6	7835.3	7062.9	6452.4	5733.1	5231.5	5337.7	5709.3	6099.4	6218.9
22.5°	8403.3	8344.9	7997.2	7139.9	6399.4	5433.2	4968.7	5228.8	5613.7	5956.1	6136.6
25°	8735.1	8663.4	8249.4	7275.3	6372.8	5151.9	4780.3	5122.7	5481.0	5791.5	5932.2
27.5°	9215.5	9082.8	8594.4	7511.5	6402.0	4886.4	4660.8	4992.6	5327.0	5592.5	5706.6
30°	9738.4	9579.1	8976.6	7755.7	6444.5	4724.5	4597.1	4844.0	5090.8	5356.2	5481.0
32.5°	10356.8	10216.1	9385.4	7938.8	6354.2	4650.2	4549.4	4682.1	4878.5	5090.8	5194.3
35°	11094.7	10842.5	9831.3	8087.4	6062.3	4541.4	4506.9	4504.2	4607.7	4814.8	4931.6
37.5°	11888.3	11617.6	10380.7	8246.7	5608.4	4368.9	4406.0	4294.5	4390.1	4554.7	4687.4
40°	12538.6	12254.6	10935.4	8464.3	5040.4	4098.1	4183.1	4063.6	4122.0	4291.9	4440.5
42.5°	13175.6	12873.0	11453.0	8711.2	4491.0	3832.7	3875.2	3830.1	3848.6	4026.5	4233.5
45°	14011.7	13671.9	12090.0	8886.4	3997.3	3623.0	3583.2	3506.2	3604.4	3835.4	4055.7
47.5°	15407.8	15001.7	13133.1	9000.5	3639.0	3503.6	3320.4	3275.3	3397.4	3654.9	3883.1
50°	17040.2	16689.8	14800.0	8995.2	3370.9	3402.7	3065.6	3025.8	3227.5	3487.7	3729.2
52.5°	18377.9	18022.2	16225.3	8729.8	3150.6	3187.7	2917.0	2805.5	3081.6	3323.1	3564.6
55°	19458.2	19057.4	16880.9	7620.3	2871.9	2845.3	2755.1	2550.7	2898.4	3158.5	3384.1
57.5°	18876.9	18399.1	16087.3	5794.2	2585.2	2418.0	2476.4	2325.1	2648.9	2975.4	3193.0
60°	15827.2	15397.2	13069.4	3084.2	2274.7	2019.9	2142.0	2165.9	2375.5	2755.1	2978.0
62.5°	10871.7	10558.5	8857.2	1871.2	1794.3	1621.7	1812.8	1985.4	2142.0	2463.1	2656.9
65°	5319.1	5226.2	4429.9	1199.7	1255.5	1311.2	1502.3	1712.0	1942.9	2224.2	2428.6
67.5°	1465.1	1475.8	1343.0	936.9	990.0	1144.0	1295.3	1462.5	1693.4	1953.5	2160.5
70°	645.0	655.6	676.8	722.0	822.8	963.5	1120.1	1292.6	1504.9	1722.6	1921.7
72.5°	448.6	459.2	491.0	549.4	639.7	772.4	921.0	1085.6	1305.9	1489.0	1653.6
75°	276.0	284.0	313.2	363.6	424.7	525.5	671.5	822.8	1016.6	1183.8	1329.8
77.5°	146.0	140.7	159.3	193.8	246.8	299.9	398.1	493.7	631.7	767.1	889.2
80°	79.6	77.0	87.6	106.2	122.1	164.6	230.9	294.6	374.2	451.2	517.6
82.5°	34.5	31.9	34.5	45.1	55.7	79.6	116.8	161.9	207.0	260.1	302.6
85°	0.0	0.0	0.0	2.7	13.3	21.2	39.8	58.4	84.9	116.8	143.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6	23.9
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°	5812.8	5812.8	5812.8	5812.8	5812.8	5812.8	5812.8	5812.8	5812.8	5812.8	5812.8
2.5°	5579.2	5512.8	5507.5	5454.4	5459.8	5462.4	5409.3	5388.1	5406.7	5427.9	5417.3
5°	5335.0	5266.0	5236.8	5186.4	5181.1	5157.2	5135.9	5109.4	5128.0	5146.6	5157.2
7.5°	5122.7	5077.5	5059.0	5045.7	5051.0	5040.4	4997.9	4974.0	4971.4	4979.3	4990.0
10°	5053.7	5016.5	5040.4	5077.5	5104.1	5122.7	5077.5	5037.7	5000.6	4984.6	4984.6
12.5°	5202.3	5154.5	5202.3	5242.1	5295.2	5308.5	5258.0	5215.6	5202.3	5218.2	5250.1
15°	5531.4	5419.9	5417.3	5441.2	5483.6	5504.9	5457.1	5435.9	5435.9	5536.7	5616.4
17.5°	5860.5	5677.4	5600.4	5587.2	5613.7	5621.7	5581.9	5563.3	5611.0	5807.5	5956.1
20°	6091.5	5868.5	5701.3	5669.4	5677.4	5680.1	5648.2	5634.9	5703.9	5942.8	6067.6
22.5°	6067.6	5903.0	5698.6	5658.8	5672.1	5666.8	5637.6	5632.3	5688.0	5895.0	5953.4
25°	5903.0	5775.6	5603.1	5576.5	5597.8	5595.1	5565.9	5552.7	5576.5	5714.6	5719.9
27.5°	5714.6	5603.1	5454.4	5446.5	5481.0	5499.6	5449.1	5409.3	5401.4	5494.3	5473.0
30°	5489.0	5406.7	5287.2	5292.5	5356.2	5366.9	5305.8	5247.4	5231.5	5281.9	5252.7
32.5°	5220.9	5194.3	5130.6	5143.9	5204.9	5226.2	5162.5	5101.4	5082.9	5098.8	5037.7
35°	4992.6	4982.0	4987.3	5011.2	5064.3	5080.2	5027.1	4979.3	4952.8	4897.1	4817.4
37.5°	4756.4	4785.6	4862.6	4907.7	4936.9	4931.6	4902.4	4867.9	4825.4	4721.9	4623.7
40°	4536.1	4610.4	4748.4	4798.9	4809.5	4812.1	4790.9	4761.7	4708.6	4570.6	4459.1
42.5°	4366.2	4448.5	4631.6	4708.6	4713.9	4719.2	4698.0	4674.1	4599.8	4416.6	4307.8
45°	4188.4	4297.2	4512.2	4605.1	4599.8	4597.1	4578.6	4567.9	4480.3	4268.0	4148.6
47.5°	4037.1	4164.5	4395.4	4475.0	4472.4	4469.7	4456.5	4456.5	4368.9	4137.9	4002.6
50°	3888.5	4034.4	4276.0	4342.3	4347.6	4342.3	4337.0	4345.0	4241.5	3994.6	3861.9
52.5°	3726.5	3891.1	4143.3	4204.3	4236.2	4249.4	4249.4	4230.8	4108.8	3851.3	3705.3
55°	3548.7	3705.3	3997.3	4079.6	4106.1	4130.0	4130.0	4092.8	3978.7	3718.6	3562.0
57.5°	3328.4	3466.4	3697.3	3779.6	3843.3	3859.3	3859.3	3798.2	3705.3	3455.8	3328.4
60°	3089.5	3209.0	3365.6	3453.2	3500.9	3469.1	3493.0	3477.0	3402.7	3171.8	3065.6
62.5°	2771.0	2893.1	3065.6	3155.9	3177.1	3145.3	3177.1	3174.5	3073.6	2866.6	2739.2
65°	2542.8	2662.2	2832.1	2948.9	2983.4	2975.4	2996.6	2964.8	2840.0	2643.6	2521.5
67.5°	2272.0	2399.4	2595.8	2725.9	2797.6	2805.5	2834.7	2768.4	2641.0	2426.0	2272.0
70°	2014.6	2123.4	2274.7	2396.8	2497.6	2548.1	2553.4	2457.8	2298.6	2120.7	2009.3
72.5°	1743.8	1855.3	2038.5	2171.2	2298.6	2357.0	2357.0	2240.2	2067.6	1871.2	1751.8
75°	1414.7	1518.2	1685.4	1828.8	1974.7	2049.1	2046.4	1945.6	1754.4	1568.7	1443.9
77.5°	958.2	1035.2	1141.3	1250.1	1271.4	1329.8	1359.0	1231.6	1125.4	1024.5	913.1
80°	557.4	605.2	663.6	724.6	737.9	756.5	708.7	660.9	605.2	538.8	488.4
82.5°	326.5	358.3	387.5	435.3	443.3	448.6	406.1	384.9	339.7	299.9	268.1
85°	159.3	169.9	196.4	220.3	209.7	204.4	185.8	164.6	146.0	130.1	114.1
87.5°	31.9	31.9	47.8	45.1	37.2	31.9	18.6	23.9	5.3	5.3	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°	5812.8	5812.8	5812.8	5812.8	5812.8	5812.8	5812.8	5812.8	5812.8	5812.8	5812.8
2.5°	5451.8	5496.9	5552.7	5627.0	5711.9	5802.2	5889.7	5956.1	6022.5	6120.7	6104.7
5°	5173.1	5250.1	5337.7	5451.8	5589.8	5746.4	5921.6	6096.8	6285.2	6444.5	6513.5
7.5°	5011.2	5096.1	5199.6	5348.3	5526.1	5717.2	5964.1	6248.1	6553.3	6763.0	6893.0
10°	5011.2	5120.0	5255.4	5398.7	5555.3	5751.7	6057.0	6412.6	6805.5	7081.5	7232.8
12.5°	5300.5	5409.3	5438.5	5433.2	5520.8	5738.4	6131.3	6585.1	7054.9	7346.9	7532.7
15°	5751.7	5788.9	5568.6	5366.9	5380.1	5642.9	6165.8	6723.2	7269.9	7620.3	7822.0
17.5°	6054.3	5956.1	5563.3	5210.3	5135.9	5481.0	6165.8	6855.9	7498.2	7893.7	8082.1
20°	6078.2	5834.0	5427.9	5059.0	4867.9	5266.0	6123.3	6956.7	7718.5	8156.5	8358.2
22.5°	5868.5	5627.0	5284.6	4928.9	4647.6	5005.9	6054.3	7033.7	7907.0	8403.3	8652.8
25°	5629.6	5427.9	5138.6	4796.2	4496.3	4743.1	5990.6	7163.8	8169.7	8737.7	8989.9
27.5°	5396.1	5226.2	4963.4	4684.7	4411.3	4514.8	5950.8	7354.9	8482.9	9212.8	9430.5
30°	5167.8	5013.8	4775.0	4578.6	4366.2	4366.2	5916.3	7575.2	8897.0	9746.3	9964.0
32.5°	4936.9	4790.9	4597.1	4475.0	4339.7	4307.8	5820.7	7782.2	9324.3	10330.3	10553.2
35°	4721.9	4575.9	4427.3	4376.8	4326.4	4262.7	5584.5	7944.1	9741.0	11012.4	11203.5
37.5°	4520.2	4379.5	4268.0	4254.7	4260.0	4140.6	5212.9	8079.5	10261.3	11710.5	11811.3
40°	4345.0	4188.4	4100.8	4098.1	4124.7	3944.2	4743.1	8273.2	10855.8	12302.4	12259.9
42.5°	4188.4	4023.8	3917.6	3941.5	3925.6	3747.8	4283.9	8451.1	11373.4	12857.1	12772.2
45°	4034.4	3875.2	3726.5	3761.0	3742.5	3625.7	3893.8	8581.1	11946.7	13523.3	13533.9
47.5°	3885.8	3729.2	3580.6	3538.1	3535.4	3588.5	3593.8	8623.6	12881.0	14595.6	14354.1
50°	3747.8	3591.2	3437.2	3293.9	3349.6	3514.2	3370.9	8591.7	14279.8	15779.4	15105.2
52.5°	3604.4	3455.8	3285.9	3028.5	3174.5	3336.4	3171.8	8477.6	15134.4	16825.2	16421.7
55°	3439.9	3299.2	3068.3	2755.1	2932.9	2967.4	2967.4	7373.5	15498.1	17860.3	18109.8
57.5°	3219.6	3033.8	2667.5	2415.4	2574.6	2441.9	2749.8	5159.8	14898.2	17533.9	18502.7
60°	2970.1	2771.0	2383.5	2203.0	2250.8	2017.2	2343.7	3235.5	12347.5	14919.4	16596.9
62.5°	2641.0	2457.8	2136.7	1996.0	1897.8	1645.6	1887.2	2046.4	8464.3	11078.8	12222.7
65°	2420.7	2218.9	1932.3	1746.5	1544.8	1324.5	1252.8	1343.0	4552.0	6200.3	6972.7
67.5°	2160.5	1961.5	1690.7	1457.2	1295.3	1136.0	1011.3	979.4	1560.7	2065.0	2234.9
70°	1913.7	1722.6	1497.0	1279.3	1117.4	960.8	838.7	751.1	722.0	716.6	706.0
72.5°	1661.5	1483.7	1295.3	1093.5	915.7	772.4	663.6	562.7	520.2	507.0	493.7
75°	1361.6	1220.9	1032.5	814.8	671.5	538.8	453.9	387.5	350.4	337.1	321.2
77.5°	875.9	812.2	647.6	525.5	406.1	321.2	276.0	233.6	209.7	204.4	191.1
80°	467.1	435.3	358.3	302.6	241.5	196.4	172.5	148.6	135.4	130.1	124.7
82.5°	260.1	236.2	199.1	175.2	140.7	119.4	106.2	95.6	87.6	84.9	82.3
85°	116.8	100.9	79.6	74.3	66.4	61.0	58.4	53.1	50.4	47.8	45.1
87.5°	5.3	10.6	13.3	10.6	10.6	15.9	18.6	18.6	15.9	15.9	13.3
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°	5812.8	5812.8	5812.8	5812.8	5812.8	5812.8	5812.8	5812.8	5812.8	5812.8
2.5°	6202.9	6282.6	6290.5	6317.1	6282.6	6274.6	6218.9	6187.0	6157.8	6149.9
5°	6686.0	6845.3	6909.0	6954.1	6911.6	6890.4	6768.3	6640.9	6569.2	6534.7
7.5°	7182.4	7421.2	7546.0	7601.7	7607.0	7511.5	7301.8	7062.9	6943.5	6898.3
10°	7625.6	7920.2	8084.8	8191.0	8153.8	8037.0	7750.4	7426.5	7275.3	7235.4
12.5°	7954.7	8236.1	8363.5	8432.5	8429.8	8366.1	8095.4	7745.0	7572.5	7532.7
15°	8167.1	8334.3	8342.3	8358.2	8403.3	8488.2	8347.6	8023.7	7832.6	7776.9
17.5°	8334.3	8267.9	8143.2	8100.7	8201.6	8437.8	8522.7	8260.0	8052.9	8005.2
20°	8440.5	8106.0	7885.7	7803.4	7920.2	8305.1	8628.9	8472.3	8257.3	8196.3
22.5°	8522.7	7954.7	7599.1	7543.3	7665.4	8161.8	8737.7	8724.5	8488.2	8403.3
25°	8652.8	7853.9	7397.3	7357.5	7471.7	8092.8	8883.7	9066.9	8857.2	8735.1
27.5°	8857.2	7843.3	7293.8	7280.6	7437.2	8153.8	9093.4	9568.5	9305.7	9215.5
30°	9141.2	7944.1	7317.7	7344.3	7535.4	8374.1	9419.9	10141.8	9879.1	9738.4
32.5°	9549.9	8214.8	7681.3	7795.5	7936.2	8727.1	9897.6	10762.9	10563.8	10356.8
35°	10088.7	8958.0	8756.3	9242.0	9109.3	9499.5	10473.6	11516.7	11275.2	11094.7
37.5°	10808.0	10481.6	10667.4	11336.2	11015.1	10959.3	11177.0	12201.5	12068.8	11888.3
40°	11816.6	11883.0	12225.4	13103.9	12639.5	12281.1	12039.6	12716.4	12761.5	12538.6
42.5°	12485.5	12790.7	13616.2	14614.2	13974.5	13117.2	12761.5	13374.7	13377.3	13175.6
45°	12735.0	13533.9	15259.2	16408.5	15338.8	13595.0	13159.7	14269.2	14242.6	14011.7
47.5°	12644.8	14160.3	16965.9	18723.0	17090.6	13934.7	13103.9	15543.2	15758.2	15407.8
50°	12456.3	14789.4	18959.2	21557.7	19240.5	14295.7	13019.0	16955.2	17310.9	17040.2
52.5°	12647.4	15490.1	21316.1	24487.9	21937.2	14871.7	13592.3	18768.1	18704.4	18377.9
55°	13252.6	16318.2	24180.1	28169.4	24899.4	15845.8	15065.4	20496.0	19848.3	19458.2
57.5°	13223.4	16910.1	26691.0	31081.1	27476.6	16644.7	15577.7	20679.1	19370.6	18876.9
60°	12002.4	16639.4	27646.5	32923.1	28254.3	16204.1	13892.3	18470.8	16344.8	15827.2
62.5°	8958.0	14765.5	25793.8	30616.6	26053.9	13995.8	10447.1	13257.9	11745.0	10871.7
65°	5730.5	11551.2	21685.1	24803.8	21475.4	10704.5	6221.5	7108.0	5568.6	5319.1
67.5°	2439.2	8153.8	16857.0	16578.3	16066.1	6935.5	2402.1	2001.3	1491.7	1465.1
70°	806.9	5547.3	10391.3	11057.5	9595.0	4777.6	793.6	671.5	668.9	645.0
72.5°	528.2	2978.0	5849.9	6513.5	6173.7	2749.8	480.4	448.6	459.2	448.6
75°	315.9	647.6	984.7	1279.3	984.7	461.8	289.3	284.0	289.3	276.0
77.5°	185.8	180.5	175.2	175.2	172.5	159.3	146.0	140.7	143.3	146.0
80°	119.4	114.1	108.8	106.2	92.9	87.6	82.3	77.0	77.0	79.6
82.5°	77.0	71.7	66.4	58.4	47.8	39.8	37.2	31.9	31.9	34.5
85°	39.8	31.9	23.9	18.6	10.6	5.3	0.0	0.0	0.0	0.0
87.5°	8.0	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

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