

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: P638209

Luminaire Tested: GWS-SA4E-735-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638209
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-SA4E-735-U-SLR-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23615.1 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

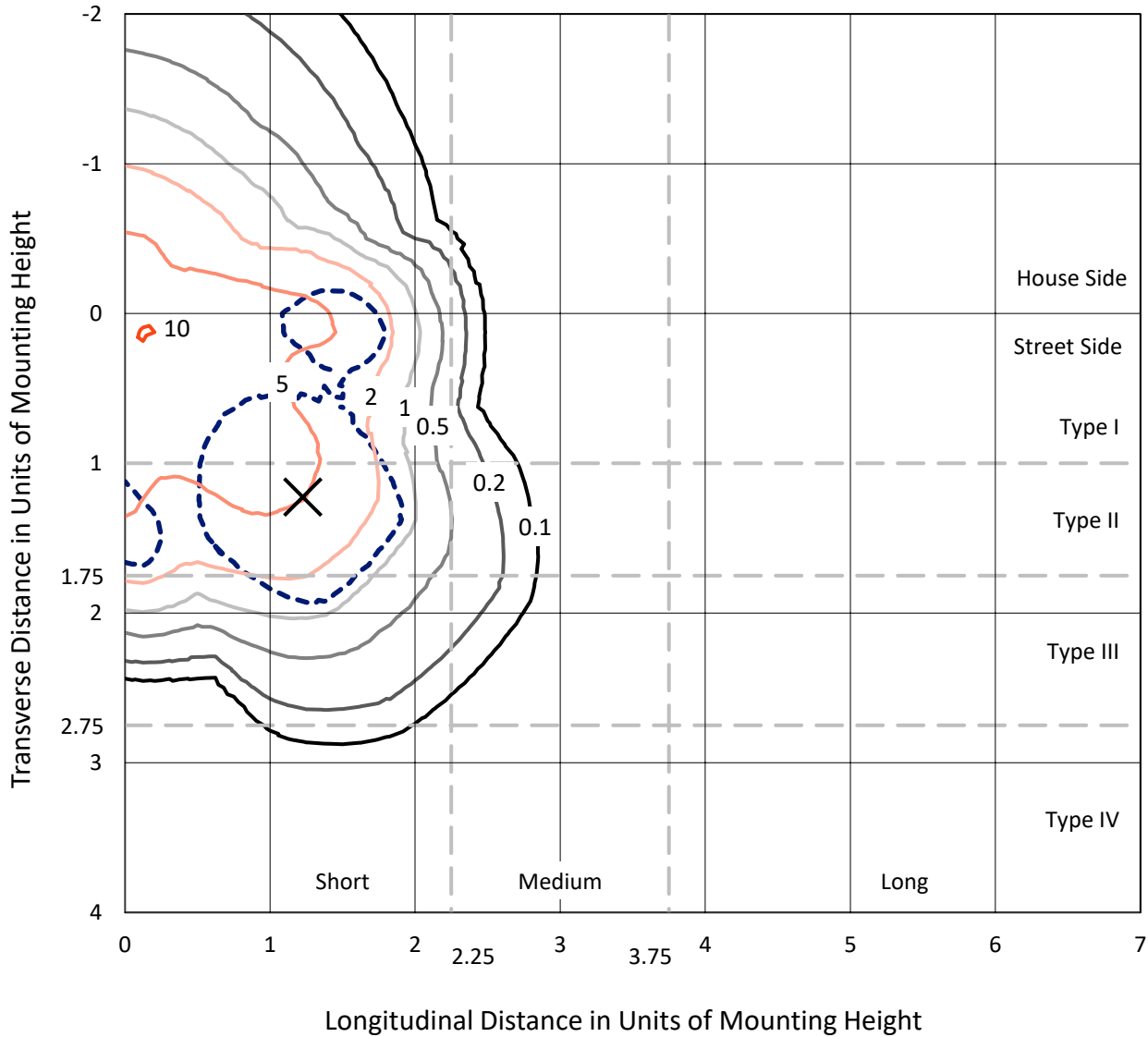
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

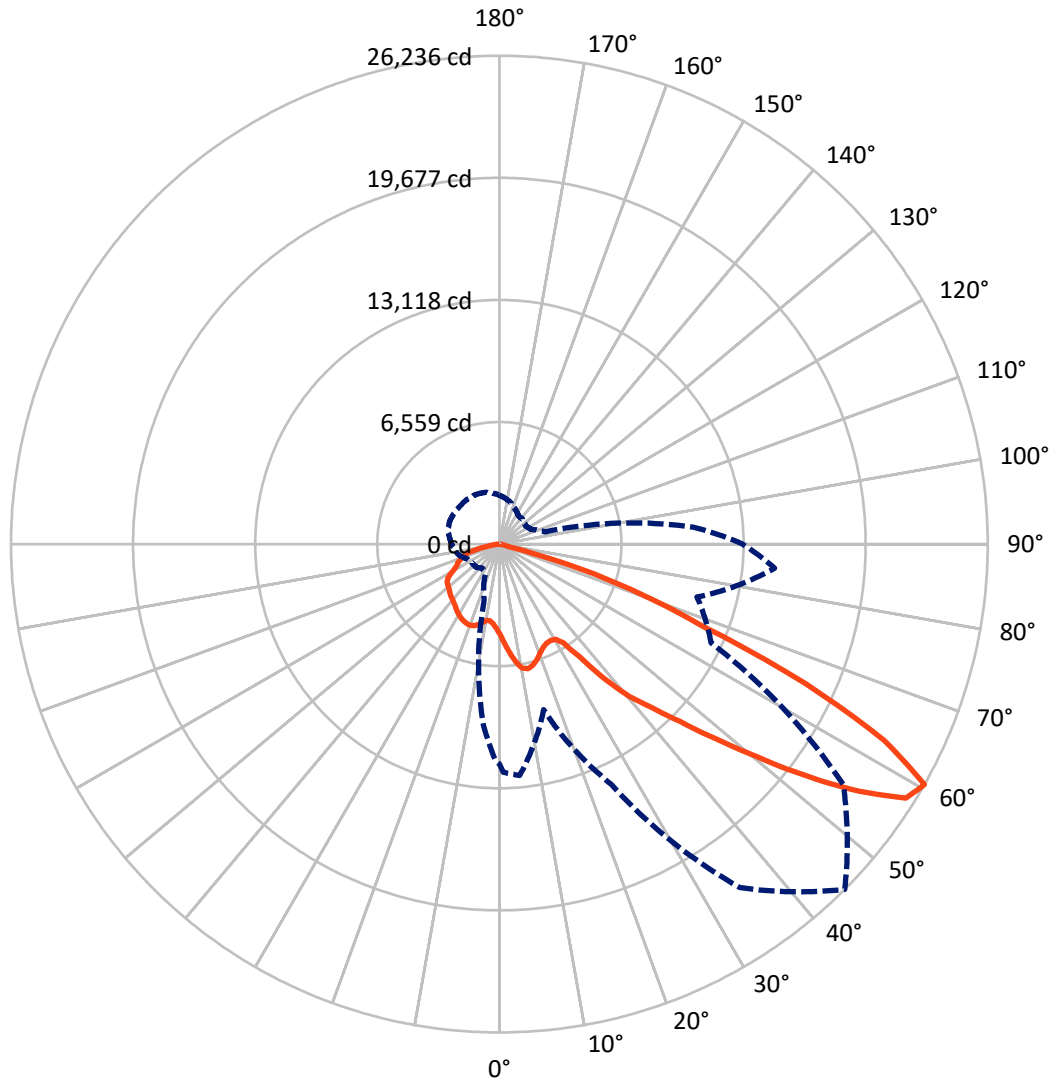
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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	8277.9	0.0	8277.9
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	15337.2	0.0	15337.2
	% Fixture	64.9	0.0	64.9
Total	Lumens	23615.1	0.0	23615.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.3	2.0
10°-20°	1495.7	6.3
20°-30°	2429.6	10.3
30°-40°	3426.4	14.5
40°-50°	4735.2	20.1
50°-60°	6095.6	25.8
60°-70°	3862.2	16.4
70°-80°	991.1	4.2
80°-90°	106.0	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°	23615.1	100.0
0°-180°	23615.1	100.0

Coefficient of Utilization



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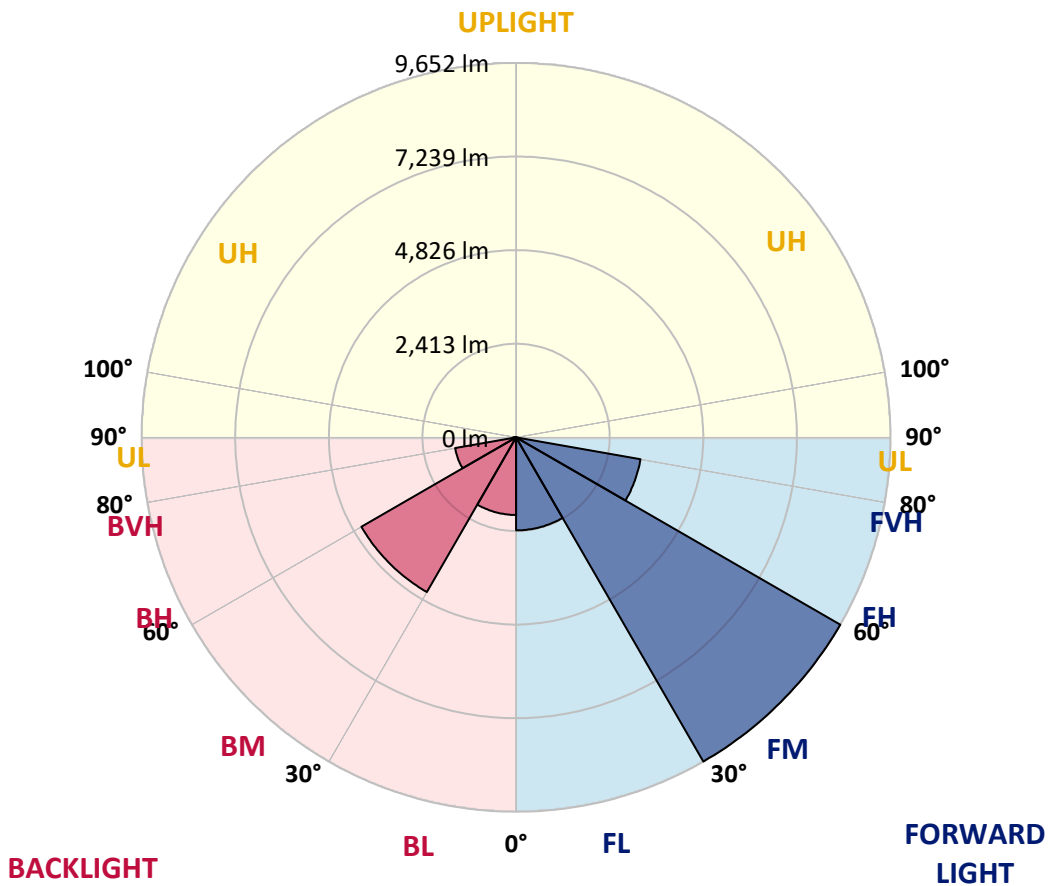
CATALOG NUMBER: GWS-SA4E-735-U-SLR-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2397.8	10.2			
FM (30°-60°)	9652.5	40.9			
FH (60°-80°)	3258.1	13.8			G2/5000
FVH (80°-90°)	28.8	0.1			G1/100
BL (0°-30°)	2000.8	8.5	B3/2500		
BM (30°-60°)	4604.8	19.5	B3/5000		
BH (60°-80°)	1595.2	6.8	B3/2500		G3/2500
BVH (80°-90°)	77.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4851.2	4851.2	4851.2	4851.2	4851.2	4851.2	4851.2	4851.2	4851.2	4851.2	4851.2
2.5°	5074.1	5108.7	5130.4	5171.5	5245.0	5286.2	5331.6	5281.8	5294.8	5288.3	5208.3
5°	5374.9	5416.0	5472.2	5593.4	5729.7	5805.5	5876.9	5866.1	5799.0	5686.5	5606.4
7.5°	5656.2	5703.8	5801.1	5998.0	6199.3	6316.1	6402.7	6346.4	6290.2	6112.7	5911.5
10°	5876.9	5905.0	6037.0	6301.0	6534.7	6666.7	6772.7	6759.7	6681.8	6482.7	6212.3
12.5°	6084.6	6104.1	6246.9	6510.9	6720.8	6779.2	6865.7	6893.9	6867.9	6718.6	6452.4
15°	6307.5	6344.3	6476.2	6677.5	6772.7	6712.1	6742.4	6820.3	6893.9	6893.9	6649.3
17.5°	6515.2	6547.7	6681.8	6768.4	6677.5	6517.4	6526.0	6625.5	6800.8	6984.7	6828.9
20°	6699.1	6729.4	6861.4	6779.2	6491.4	6257.7	6251.2	6372.4	6655.8	7043.2	7021.5
22.5°	6900.3	6943.6	7054.0	6787.8	6318.3	6021.8	6019.7	6145.2	6528.2	7101.6	7242.2
25°	7186.0	7253.0	7309.3	6863.6	6225.2	5868.2	5896.3	6015.4	6487.1	7196.8	7569.0
27.5°	7610.1	7664.2	7659.8	7021.5	6220.9	5805.5	5863.9	6002.4	6560.6	7365.6	7913.0
30°	8068.8	8096.9	8051.5	7242.2	6320.5	5844.4	5931.0	6095.4	6746.7	7644.7	8419.3
32.5°	8577.3	8611.9	8525.4	7573.3	6552.0	6132.2	6322.6	6402.7	7008.5	8047.2	8956.0
35°	9161.5	9228.6	9049.0	8010.4	7233.6	7181.6	7458.6	7354.7	7564.6	8523.2	9529.4
37.5°	9776.0	9778.2	9520.7	8657.4	8570.8	8659.5	9213.4	8888.9	8743.9	9053.3	10113.6
40°	10297.5	10284.5	9888.6	9529.4	9734.9	10087.6	10756.2	10258.6	9877.7	9765.2	10598.3
42.5°	10819.0	10771.4	10371.1	10083.3	10537.7	11262.6	12017.7	11407.5	10604.8	10412.2	11076.5
45°	11485.4	11470.3	10987.8	10304.0	11262.6	12578.2	13580.0	12591.1	11035.4	10788.7	11872.8
47.5°	12560.8	12487.3	11589.3	10286.7	11942.0	14330.8	15596.7	14082.0	11336.1	10797.3	13158.1
50°	13612.4	13521.6	12307.7	10284.5	12643.1	16148.4	17976.8	15893.1	11643.4	10849.3	14465.0
52.5°	14674.9	14674.9	13486.9	10529.0	13378.8	18178.1	20727.0	18149.9	12167.0	11528.7	16072.7
55°	15306.7	15475.5	14813.4	10942.3	14240.0	20566.9	23446.9	20586.4	12976.3	12755.6	17557.1
57.5°	14503.9	14819.8	14724.6	10654.5	14748.4	22321.7	25753.5	22434.3	13376.6	12900.6	17334.2
60°	11818.7	12257.9	12476.5	9200.5	14246.4	22525.1	26236.0	22555.4	12550.0	10985.6	14848.0
62.5°	7856.7	8218.1	8551.3	6573.6	12333.6	20264.0	23204.6	20270.5	10481.4	8198.6	10286.7
65°	3853.7	4122.0	4481.2	3886.2	9635.4	16931.7	18091.5	16379.9	7581.9	4589.4	5247.2
67.5°	1008.3	1084.1	1133.8	1508.2	6902.5	12164.9	11799.2	11980.9	4870.7	1499.5	1371.8
70°	523.6	528.0	525.8	623.2	4665.1	7731.2	8131.6	7523.5	3399.3	627.5	540.9
72.5°	374.3	376.5	370.0	419.8	2252.5	4429.3	4589.4	4539.6	1780.8	372.2	370.0
75°	244.5	246.7	242.3	246.7	339.7	504.2	465.2	489.0	296.4	235.9	235.9
77.5°	145.0	147.1	145.0	149.3	145.0	145.0	134.2	134.2	127.7	127.7	129.8
80°	97.4	97.4	95.2	99.5	90.9	90.9	86.6	84.4	77.9	75.7	75.7
82.5°	58.4	60.6	58.4	58.4	54.1	54.1	49.8	47.6	41.1	41.1	38.9
85°	30.3	30.3	28.1	28.1	23.8	21.6	17.3	17.3	13.0	10.8	10.8
87.5°	4.3	4.3	2.2	2.2	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°	4851.2	4851.2	4851.2	4851.2	4851.2	4851.2	4851.2	4851.2	4851.2	4851.2	4851.2
2.5°	5186.6	5143.3	5078.4	5015.7	4957.3	4896.7	4827.4	4756.0	4695.4	4632.7	4600.2
5°	5500.4	5411.7	5242.9	5093.6	4959.4	4849.1	4730.1	4628.4	4533.2	4455.3	4416.3
7.5°	5783.8	5645.3	5390.0	5154.2	4972.4	4820.9	4656.5	4505.0	4377.4	4282.2	4245.4
10°	6045.6	5881.2	5545.8	5247.2	5035.2	4866.4	4665.1	4459.6	4290.8	4165.3	4135.0
12.5°	6257.7	6069.5	5669.1	5322.9	5071.9	4890.2	4712.8	4535.3	4368.7	4206.4	4180.5
15°	6446.0	6223.1	5762.2	5370.5	5059.0	4827.4	4678.1	4656.5	4656.5	4472.6	4420.6
17.5°	6608.2	6363.7	5837.9	5392.2	4976.7	4641.3	4550.5	4738.7	4950.8	4818.8	4701.9
20°	6794.3	6497.9	5900.7	5392.2	4825.3	4405.5	4396.8	4717.1	5030.8	5033.0	4909.7
22.5°	6982.6	6653.7	5974.2	5372.7	4617.5	4132.9	4293.0	4630.5	4909.7	5028.7	4944.3
25°	7287.7	6870.1	6091.1	5357.6	4375.2	3946.8	4199.9	4515.8	4751.7	4877.2	4823.1
27.5°	7675.0	7155.7	6268.5	5381.4	4135.0	3836.4	4100.4	4366.5	4580.8	4691.1	4652.2
30°	8107.7	7484.6	6458.9	5422.5	3961.9	3780.2	3981.4	4195.6	4386.0	4496.4	4479.1
32.5°	8659.5	7841.6	6623.4	5366.2	3864.5	3752.0	3855.9	4009.5	4193.4	4262.7	4277.8
35°	9319.5	8235.4	6748.9	5145.5	3775.8	3721.7	3719.6	3814.8	3944.6	4055.0	4065.8
37.5°	9927.5	8696.3	6887.4	4766.8	3615.7	3646.0	3559.4	3615.7	3743.4	3853.7	3897.0
40°	10529.0	9163.7	7079.9	4284.3	3405.8	3477.2	3375.5	3414.5	3516.2	3661.1	3730.4
42.5°	11113.3	9585.6	7283.3	3791.0	3195.9	3241.4	3165.6	3204.6	3310.6	3492.4	3570.3
45°	11749.4	10156.9	7441.3	3325.8	3014.2	2994.7	2934.1	2990.4	3150.5	3349.6	3442.6
47.5°	12952.5	11057.0	7545.2	3016.3	2916.8	2776.2	2706.9	2828.1	3009.8	3211.1	3323.6
50°	14421.7	12359.6	7514.9	2819.4	2832.4	2551.1	2527.3	2687.4	2882.2	3092.1	3215.4
52.5°	15585.8	13638.4	7170.8	2631.2	2668.0	2408.3	2339.1	2572.8	2758.8	2973.1	3100.7
55°	16475.2	14069.0	6114.9	2408.3	2399.7	2304.4	2159.5	2453.7	2635.5	2834.6	2973.1
57.5°	15750.3	13110.4	4533.2	2101.0	2049.1	2098.9	1958.2	2252.5	2484.0	2680.9	2804.3
60°	13071.5	10453.3	2525.2	1860.9	1713.7	1834.9	1813.3	2040.5	2319.6	2527.3	2633.3
62.5°	8873.7	6960.9	1497.3	1471.4	1389.2	1562.3	1676.9	1826.2	2101.0	2269.8	2369.4
65°	4422.8	3382.0	995.3	1101.4	1112.2	1285.3	1501.7	1666.1	1895.5	2068.6	2168.1
67.5°	1283.1	1051.6	757.3	841.7	958.6	1097.0	1270.1	1464.9	1687.8	1893.3	2010.2
70°	553.9	560.4	601.5	701.1	815.8	958.6	1131.7	1322.1	1510.3	1668.3	1757.0
72.5°	391.6	406.8	452.2	553.9	662.1	798.4	971.5	1155.5	1291.8	1451.9	1545.0
75°	251.0	261.8	298.6	376.5	456.6	588.6	753.0	921.8	1062.4	1177.1	1265.8
77.5°	138.5	140.6	170.9	216.4	270.5	354.9	476.0	608.0	711.9	776.8	856.9
80°	80.1	80.1	95.2	123.3	155.8	207.7	274.8	339.7	402.5	443.6	482.5
82.5°	43.3	43.3	49.8	67.1	84.4	114.7	153.6	186.1	225.0	246.7	272.6
85°	13.0	13.0	17.3	23.8	30.3	43.3	60.6	77.9	95.2	110.4	125.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4851.2	4851.2	4851.2	4851.2	4851.2	4851.2	4851.2	4851.2	4851.2	4851.2	4851.2
2.5°	4593.7	4563.4	4546.1	4524.5	4531.0	4511.5	4500.7	4507.2	4468.2	4507.2	4546.1
5°	4401.2	4357.9	4323.3	4295.1	4282.2	4256.2	4241.0	4241.0	4217.2	4256.2	4303.8
7.5°	4232.4	4197.8	4180.5	4163.1	4143.7	4119.9	4093.9	4085.2	4070.1	4111.2	4152.3
10°	4119.9	4124.2	4135.0	4158.8	4154.5	4139.3	4100.4	4078.8	4078.8	4126.4	4189.1
12.5°	4171.8	4217.2	4243.2	4286.5	4295.1	4282.2	4243.2	4225.9	4269.2	4340.6	4444.4
15°	4373.0	4403.3	4425.0	4459.6	4457.4	4446.6	4416.3	4429.3	4572.1	4710.6	4803.6
17.5°	4591.6	4557.0	4552.6	4574.3	4580.8	4567.8	4550.5	4608.9	4844.7	4974.6	5022.2
20°	4749.5	4630.5	4604.6	4613.2	4630.5	4624.0	4624.0	4719.2	4963.8	5024.3	4963.8
22.5°	4797.1	4628.4	4589.4	4591.6	4615.4	4617.5	4628.4	4727.9	4870.7	4872.9	4779.8
25°	4721.4	4559.1	4531.0	4535.3	4563.4	4561.3	4565.6	4621.9	4684.6	4658.7	4589.4
27.5°	4578.6	4437.9	4429.3	4453.1	4489.9	4470.4	4457.4	4472.6	4502.9	4470.4	4409.8
30°	4416.3	4297.3	4301.6	4347.1	4386.0	4353.6	4321.1	4329.8	4331.9	4297.3	4228.1
32.5°	4245.4	4156.7	4171.8	4219.4	4264.8	4230.2	4195.6	4191.3	4150.2	4109.1	4042.0
35°	4074.4	4039.8	4059.3	4098.2	4137.2	4109.1	4087.4	4074.4	3985.7	3925.1	3868.9
37.5°	3918.6	3944.6	3979.2	4003.0	4016.0	4013.8	4000.9	3970.6	3853.7	3782.3	3708.7
40°	3780.2	3860.2	3897.0	3907.8	3927.3	3923.0	3920.8	3877.5	3723.9	3648.2	3563.8
42.5°	3654.7	3767.2	3829.9	3840.7	3851.6	3853.7	3847.2	3784.5	3609.2	3520.5	3440.4
45°	3533.5	3680.6	3760.7	3749.9	3765.0	3765.0	3771.5	3689.3	3496.7	3405.8	3321.4
47.5°	3427.5	3600.6	3674.1	3661.1	3669.8	3676.3	3682.8	3587.6	3373.4	3286.8	3200.3
50°	3330.1	3514.0	3576.8	3581.1	3581.1	3596.2	3594.1	3501.0	3269.5	3176.5	3089.9
52.5°	3226.2	3425.3	3492.4	3520.5	3529.2	3535.6	3505.4	3397.2	3163.5	3051.0	2970.9
55°	3105.0	3334.4	3395.0	3431.8	3449.1	3444.8	3403.7	3293.3	3055.3	2942.8	2851.9
57.5°	2921.1	3139.7	3226.2	3243.5	3271.7	3254.4	3206.7	3113.7	2882.2	2769.7	2676.6
60°	2719.9	2877.9	2947.1	2962.2	2940.6	2947.1	2940.6	2851.9	2650.7	2561.9	2466.7
62.5°	2455.9	2596.6	2670.1	2689.6	2652.8	2676.6	2668.0	2557.6	2356.4	2263.3	2178.9
65°	2256.8	2410.5	2497.0	2507.8	2497.0	2507.8	2477.5	2343.4	2153.0	2057.8	1971.2
67.5°	2101.0	2259.0	2349.9	2380.2	2369.4	2367.2	2319.6	2163.8	1966.9	1863.0	1752.7
70°	1832.7	1971.2	2088.1	2161.6	2161.6	2120.5	2029.6	1884.7	1726.7	1638.0	1551.4
72.5°	1622.8	1798.1	1912.8	1988.5	2003.7	1979.9	1852.2	1698.6	1516.8	1428.1	1337.2
75°	1337.2	1508.2	1631.5	1731.0	1750.5	1724.5	1577.4	1425.9	1257.2	1170.6	1079.7
77.5°	893.6	995.3	1094.9	1185.8	1166.3	1183.6	1084.1	969.4	865.5	800.6	759.5
80°	504.2	571.2	601.5	651.3	651.3	651.3	586.4	532.3	473.9	437.1	396.0
82.5°	285.6	328.9	341.9	383.0	393.8	396.0	352.7	318.1	281.3	261.8	233.7
85°	132.0	155.8	158.0	181.8	190.4	207.7	188.3	164.4	142.8	134.2	116.8
87.5°	4.3	13.0	17.3	32.5	43.3	49.8	54.1	54.1	45.4	41.1	34.6
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4851.2	4851.2	4851.2	4851.2	4851.2	4851.2	4851.2	4851.2	4851.2	4851.2
2.5°	4593.7	4645.7	4706.3	4749.5	4827.4	4892.3	4959.4	5033.0	5087.1	5074.1
5°	4362.2	4448.8	4559.1	4660.8	4805.8	4952.9	5115.2	5281.8	5379.2	5374.9
7.5°	4232.4	4355.7	4489.9	4626.2	4797.1	5009.2	5258.0	5517.7	5649.7	5656.2
10°	4301.6	4433.6	4524.5	4639.2	4818.8	5084.9	5383.5	5695.1	5846.6	5876.9
12.5°	4520.2	4509.4	4502.9	4585.1	4801.5	5139.0	5504.7	5876.9	6047.8	6084.6
15°	4727.9	4505.0	4370.9	4427.1	4723.6	5173.6	5623.7	6075.9	6268.5	6307.5
17.5°	4766.8	4429.3	4180.5	4219.4	4600.2	5184.5	5738.4	6270.7	6478.4	6515.2
20°	4658.7	4331.9	4042.0	3987.9	4444.4	5156.3	5809.8	6433.0	6660.2	6699.1
22.5°	4522.3	4245.4	3938.1	3797.5	4254.0	5128.2	5889.9	6603.9	6865.7	6900.3
25°	4379.5	4135.0	3840.7	3626.5	4037.6	5110.9	6024.0	6828.9	7144.9	7186.0
27.5°	4228.1	4000.9	3756.4	3544.3	3838.6	5132.5	6214.4	7192.5	7551.7	7610.1
30°	4065.8	3866.7	3702.3	3516.2	3702.3	5152.0	6424.3	7564.6	7986.6	8068.8
32.5°	3897.0	3743.4	3646.0	3529.2	3617.9	5106.6	6608.2	7982.2	8505.9	8577.3
35°	3728.2	3617.9	3574.6	3553.0	3505.4	4939.9	6757.5	8404.2	9098.8	9161.5
37.5°	3570.3	3488.0	3475.1	3498.9	3332.2	4667.3	6930.6	8940.8	9680.8	9776.0
40°	3423.1	3347.4	3345.2	3340.9	3141.8	4295.1	7164.3	9486.1	10254.2	10297.5
42.5°	3286.8	3191.6	3208.9	3157.0	2986.0	3892.7	7385.0	9951.3	10788.7	10819.0
45°	3165.6	3040.1	3059.6	2994.7	2912.5	3470.7	7579.8	10500.9	11466.0	11485.4
47.5°	3048.8	2914.6	2860.5	2856.2	2899.5	3081.2	7770.2	11559.0	12526.2	12560.8
50°	2940.6	2795.6	2642.0	2737.2	2819.4	2789.1	8008.2	12692.8	13621.1	13612.4
52.5°	2836.7	2646.3	2427.8	2611.7	2611.7	2572.8	7941.1	13380.9	14525.6	14674.9
55°	2717.7	2406.1	2204.9	2401.8	2306.6	2378.0	6753.2	13606.0	15094.7	15306.7
57.5°	2481.9	2109.7	1934.4	2040.5	1897.7	2204.9	4851.2	12489.4	14127.4	14503.9
60°	2254.7	1891.2	1776.5	1757.0	1570.9	1798.1	3144.0	9778.2	11628.2	11818.7
62.5°	1988.5	1702.9	1605.5	1456.2	1263.7	1309.1	1904.1	6435.1	7813.5	7856.7
65°	1787.3	1542.8	1356.7	1179.3	1034.3	949.9	1125.2	3102.9	3905.7	3853.7
67.5°	1534.1	1322.1	1144.6	1017.0	898.0	791.9	748.7	921.8	1043.0	1008.3
70°	1365.4	1162.0	991.0	869.8	759.5	653.5	577.7	543.1	532.3	523.6
72.5°	1177.1	999.7	822.2	705.4	601.5	504.2	434.9	393.8	383.0	374.3
75°	939.1	772.5	610.2	499.8	409.0	339.7	294.3	259.7	253.2	244.5
77.5°	621.0	495.5	363.5	296.4	242.3	205.6	175.3	153.6	149.3	145.0
80°	341.9	285.6	222.9	179.6	145.0	125.5	114.7	101.7	99.5	97.4
82.5°	203.4	170.9	127.7	101.7	84.4	75.7	69.2	62.8	60.6	58.4
85°	101.7	80.1	56.3	47.6	43.3	38.9	38.9	32.5	30.3	30.3
87.5°	26.0	21.6	13.0	10.8	10.8	10.8	8.7	6.5	6.5	4.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)