

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: P637714

Luminaire Tested: GWS-SA4D-735-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637714
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-SA4D-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: 18897.4 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): 162.1
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

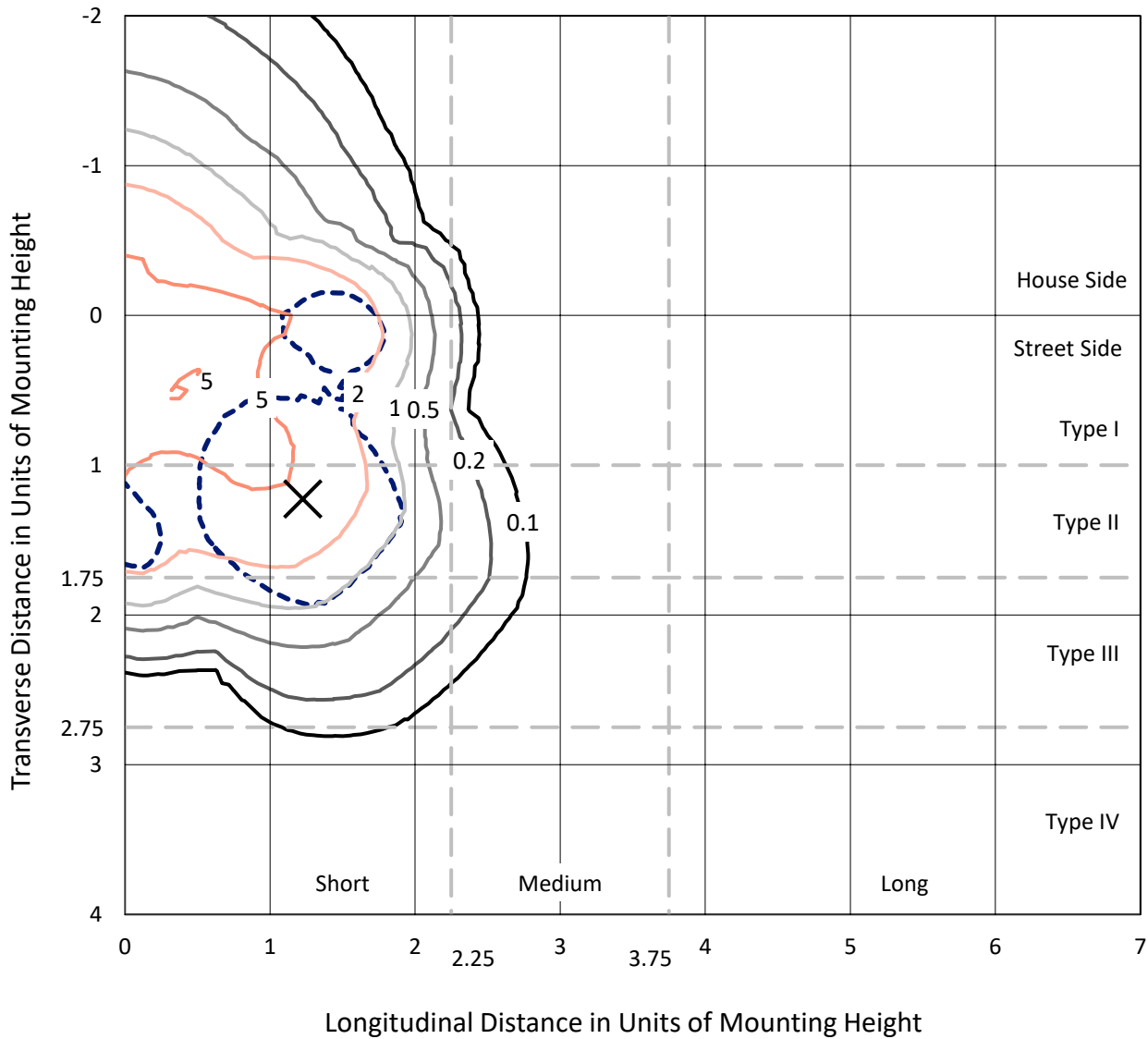


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Iso-Footcandle Lines of Horizontal Illumination

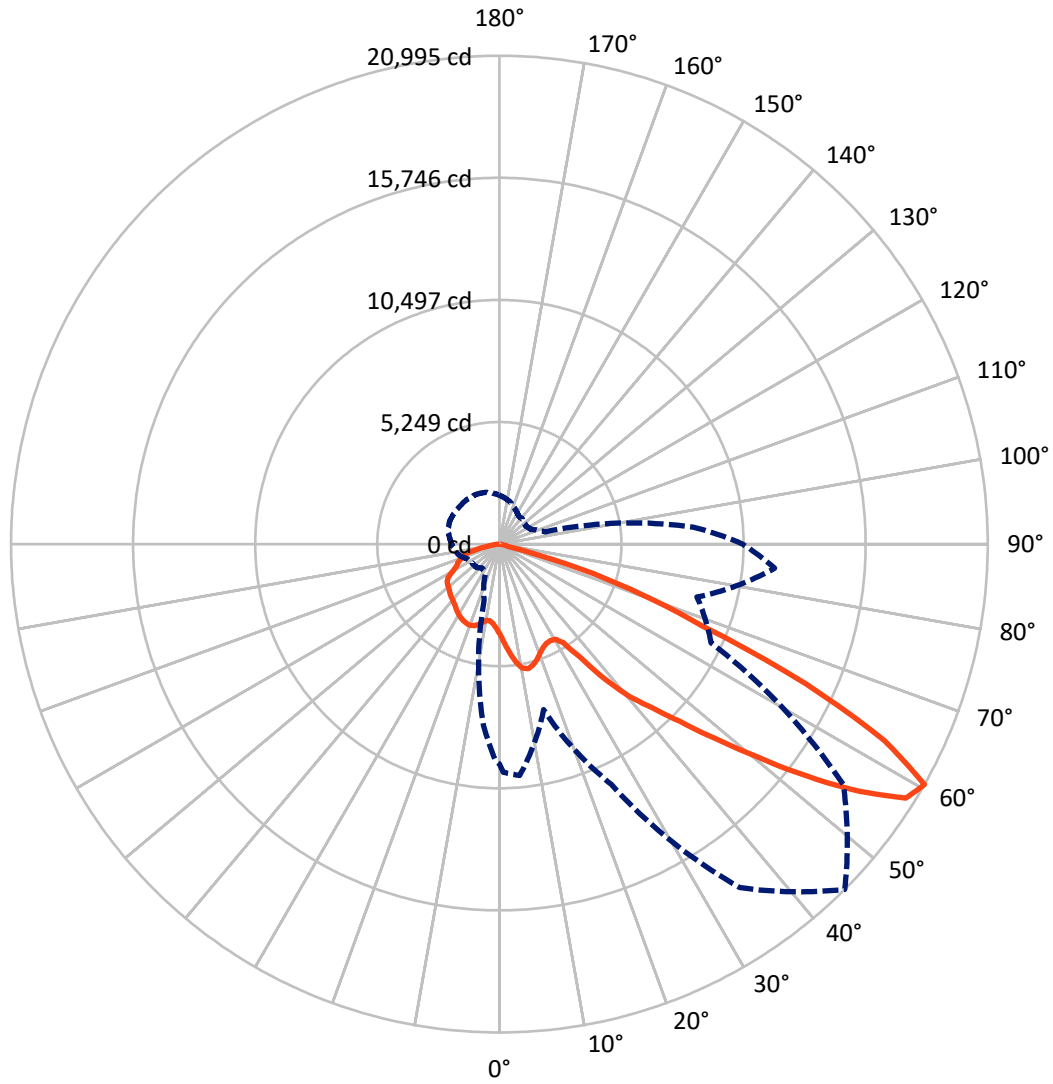
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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	6624.2	0.0	6624.2
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	12273.2	0.0	12273.2
	% Fixture	64.9	0.0	64.9
Total	Lumens	18897.4	0.0	18897.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.8	2.0
10°-20°	1196.9	6.3
20°-30°	1944.2	10.3
30°-40°	2741.9	14.5
40°-50°	3789.2	20.1
50°-60°	4877.9	25.8
60°-70°	3090.7	16.4
70°-80°	793.1	4.2
80°-90°	84.8	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°	18897.4	100.0
0°-180°	18897.4	100.0

Coefficient of Utilization



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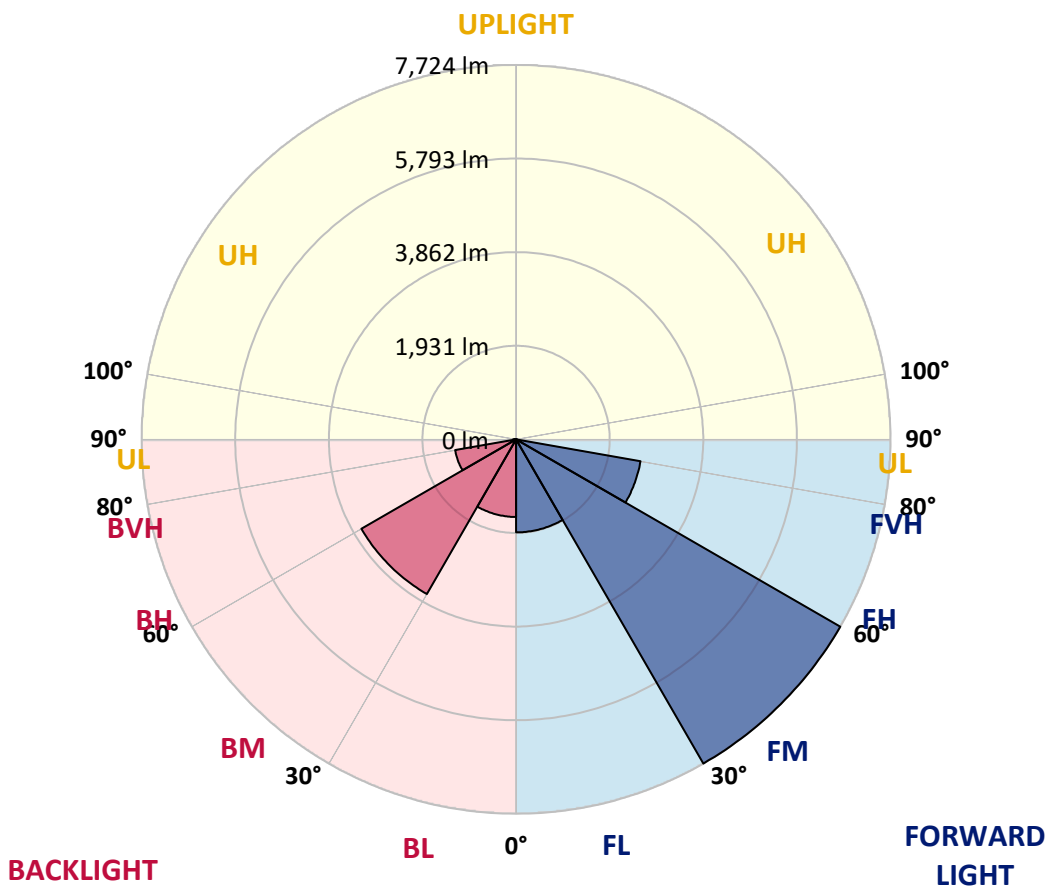
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1918.8	10.2			
FM (30°-60°)	7724.2	40.9			
FH (60°-80°)	2607.2	13.8			G2/5000
FVH (80°-90°)	23.0	0.1			G1/100
BL (0°-30°)	1601.0	8.5	B3/2500		
BM (30°-60°)	3684.8	19.5	B3/5000		
BH (60°-80°)	1276.5	6.8	B3/2500		G3/2500
BVH (80°-90°)	61.8	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°	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1
2.5°	4060.4	4088.1	4105.4	4138.3	4197.2	4230.1	4266.5	4226.7	4237.0	4231.8	4167.8
5°	4301.1	4334.0	4379.0	4476.0	4585.1	4645.7	4702.8	4694.2	4640.5	4550.4	4486.4
7.5°	4526.2	4564.3	4642.2	4799.8	4960.8	5054.3	5123.6	5078.6	5033.5	4891.6	4730.5
10°	4702.8	4725.3	4831.0	5042.2	5229.2	5334.8	5419.7	5409.3	5347.0	5187.6	4971.2
12.5°	4869.0	4884.6	4998.9	5210.2	5378.1	5424.9	5494.1	5516.6	5495.9	5376.4	5163.4
15°	5047.4	5076.8	5182.5	5343.5	5419.7	5371.2	5395.4	5457.8	5516.6	5516.6	5321.0
17.5°	5213.6	5239.6	5347.0	5416.2	5343.5	5215.4	5222.3	5301.9	5442.2	5589.4	5464.7
20°	5360.8	5385.0	5490.7	5424.9	5194.6	5007.6	5002.4	5099.3	5326.2	5636.1	5618.8
22.5°	5521.8	5556.5	5644.8	5431.8	5056.1	4818.8	4817.1	4917.5	5224.0	5682.9	5795.4
25°	5750.4	5804.1	5849.1	5492.4	4981.6	4695.9	4718.4	4813.6	5191.1	5759.1	6056.9
27.5°	6089.8	6133.1	6129.6	5618.8	4978.1	4645.7	4692.4	4803.3	5250.0	5894.1	6332.2
30°	6456.9	6479.4	6443.0	5795.4	5057.8	4676.8	4746.1	4877.7	5398.9	6117.5	6737.4
32.5°	6863.8	6891.5	6822.2	6060.3	5243.1	4907.1	5059.5	5123.6	5608.4	6439.5	7166.8
35°	7331.3	7385.0	7241.2	6410.1	5788.5	5746.9	5968.6	5885.5	6053.4	6820.5	7625.6
37.5°	7823.0	7824.8	7618.7	6927.8	6858.6	6929.6	7372.8	7113.1	6997.1	7244.7	8093.1
40°	8240.3	8229.9	7913.1	7625.6	7790.1	8072.4	8607.4	8209.2	7904.4	7814.4	8481.0
42.5°	8657.6	8619.5	8299.2	8068.9	8432.5	9012.6	9616.9	9128.6	8486.2	8332.1	8863.7
45°	9190.9	9178.8	8792.7	8245.5	9012.6	10065.4	10867.1	10075.7	8830.8	8633.4	9500.9
47.5°	10051.5	9992.6	9274.0	8231.7	9556.3	11467.9	12480.8	11268.8	9071.5	8640.3	10529.4
50°	10893.0	10820.3	9848.9	8229.9	10117.3	12922.4	14385.5	12718.1	9317.3	8681.9	11575.2
52.5°	11743.2	11743.2	10792.6	8425.6	10706.0	14546.5	16586.3	14524.0	9736.4	9225.6	12861.8
55°	12248.8	12383.9	11854.0	8756.3	11395.2	16458.1	18762.8	16473.7	10384.0	10207.3	14049.6
57.5°	11606.4	11859.2	11783.0	8526.0	11802.1	17862.4	20608.6	17952.5	10704.3	10323.4	13871.2
60°	9457.6	9809.1	9984.0	7362.4	11400.4	18025.2	20994.7	18049.4	10042.8	8791.0	11881.7
62.5°	6287.2	6576.3	6843.0	5260.4	9869.7	16215.7	18568.9	16220.9	8387.5	6560.7	8231.7
65°	3083.8	3298.6	3586.0	3109.8	7710.5	13549.2	14477.3	13107.6	6067.3	3672.6	4198.9
67.5°	806.9	867.5	907.3	1206.9	5523.6	9734.6	9442.0	9587.5	3897.7	1199.9	1097.8
70°	419.0	422.5	420.8	498.7	3733.2	6186.7	6507.1	6020.5	2720.2	502.1	432.9
72.5°	299.6	301.3	296.1	335.9	1802.5	3544.4	3672.6	3632.7	1425.0	297.8	296.1
75°	195.7	197.4	193.9	197.4	271.8	403.4	372.3	391.3	237.2	188.7	188.7
77.5°	116.0	117.7	116.0	119.5	116.0	116.0	107.4	107.4	102.2	102.2	103.9
80°	77.9	77.9	76.2	79.7	72.7	72.7	69.3	67.5	62.3	60.6	60.6
82.5°	46.8	48.5	46.8	46.8	43.3	43.3	39.8	38.1	32.9	32.9	31.2
85°	24.2	24.2	22.5	22.5	19.0	17.3	13.9	13.9	10.4	8.7	8.7
87.5°	3.5	3.5	1.7	1.7	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°	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1
2.5°	4150.5	4115.8	4063.9	4013.7	3966.9	3918.4	3863.0	3805.9	3757.4	3707.2	3681.2
5°	4401.5	4330.5	4195.5	4076.0	3968.7	3880.3	3785.1	3703.7	3627.5	3565.2	3534.0
7.5°	4628.4	4517.5	4313.2	4124.5	3979.0	3857.8	3726.2	3605.0	3502.9	3426.7	3397.3
10°	4837.9	4706.3	4437.9	4198.9	4029.3	3894.2	3733.2	3568.7	3433.6	3333.2	3308.9
12.5°	5007.6	4856.9	4536.6	4259.6	4058.7	3913.2	3771.3	3629.3	3495.9	3366.1	3345.3
15°	5158.2	4979.9	4611.1	4297.6	4048.3	3863.0	3743.6	3726.2	3726.2	3579.1	3537.5
17.5°	5288.1	5092.4	4671.7	4315.0	3982.5	3714.1	3641.4	3792.0	3961.7	3856.1	3762.6
20°	5437.0	5199.8	4721.9	4315.0	3861.3	3525.4	3518.5	3774.7	4025.8	4027.5	3928.8
22.5°	5587.6	5324.4	4780.7	4299.4	3695.1	3307.2	3435.3	3705.5	3928.8	4024.1	3956.5
25°	5831.8	5497.6	4874.2	4287.3	3501.1	3158.3	3360.9	3613.7	3802.4	3902.9	3859.6
27.5°	6141.7	5726.2	5016.2	4306.3	3308.9	3070.0	3281.2	3494.2	3665.6	3753.9	3722.8
30°	6488.0	5989.3	5168.6	4339.2	3170.4	3025.0	3186.0	3357.4	3509.8	3598.1	3584.3
32.5°	6929.6	6275.0	5300.2	4294.2	3092.5	3002.5	3085.6	3208.5	3355.7	3411.1	3423.2
35°	7457.7	6590.2	5400.6	4117.6	3021.5	2978.2	2976.5	3052.7	3156.6	3244.9	3253.5
37.5°	7944.2	6959.0	5511.4	3814.6	2893.4	2917.6	2848.4	2893.4	2995.5	3083.8	3118.5
40°	8425.6	7333.0	5665.6	3428.4	2725.4	2782.6	2701.2	2732.3	2813.7	2929.7	2985.1
42.5°	8893.1	7670.7	5828.3	3033.6	2557.5	2593.8	2533.2	2564.4	2649.2	2794.7	2857.0
45°	9402.2	8127.8	5954.7	2661.4	2412.0	2396.4	2347.9	2393.0	2521.1	2680.4	2754.9
47.5°	10364.9	8848.1	6037.8	2413.7	2334.1	2221.5	2166.1	2263.1	2408.6	2569.6	2659.6
50°	11540.6	9890.5	6013.6	2256.2	2266.6	2041.5	2022.4	2150.6	2306.4	2474.3	2573.0
52.5°	12472.2	10913.8	5738.3	2105.5	2135.0	1927.2	1871.8	2058.8	2207.7	2379.1	2481.3
55°	13183.8	11258.4	4893.3	1927.2	1920.3	1844.1	1728.1	1963.5	2109.0	2268.3	2379.1
57.5°	12603.8	10491.3	3627.5	1681.3	1639.8	1679.6	1567.0	1802.5	1987.8	2145.4	2244.1
60°	10460.1	8365.0	2020.7	1489.1	1371.4	1468.3	1451.0	1632.8	1856.2	2022.4	2107.3
62.5°	7101.0	5570.3	1198.2	1177.4	1111.6	1250.2	1341.9	1461.4	1681.3	1816.4	1896.0
65°	3539.2	2706.4	796.5	881.3	890.0	1028.5	1201.7	1333.3	1516.8	1655.3	1735.0
67.5°	1026.8	841.5	606.0	673.6	767.1	877.9	1016.4	1172.2	1350.6	1515.1	1608.6
70°	443.3	448.5	481.4	561.0	652.8	767.1	905.6	1058.0	1208.6	1335.0	1406.0
72.5°	313.4	325.5	361.9	443.3	529.8	638.9	777.5	924.6	1033.7	1161.9	1236.3
75°	200.9	209.5	239.0	301.3	365.4	471.0	602.6	737.6	850.2	941.9	1012.9
77.5°	110.8	112.5	136.8	173.2	216.4	284.0	380.9	486.6	569.7	621.6	685.7
80°	64.1	64.1	76.2	98.7	124.7	166.2	219.9	271.8	322.1	355.0	386.1
82.5°	34.6	34.6	39.8	53.7	67.5	91.8	122.9	148.9	180.1	197.4	218.2
85°	10.4	10.4	13.9	19.0	24.2	34.6	48.5	62.3	76.2	88.3	100.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
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°	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1
2.5°	3676.0	3651.8	3637.9	3620.6	3625.8	3610.2	3601.6	3606.8	3575.6	3606.8	3637.9
5°	3521.9	3487.3	3459.6	3437.1	3426.7	3405.9	3393.8	3393.8	3374.7	3405.9	3444.0
7.5°	3386.9	3359.2	3345.3	3331.5	3315.9	3296.8	3276.0	3269.1	3257.0	3289.9	3322.8
10°	3296.8	3300.3	3308.9	3328.0	3324.5	3312.4	3281.2	3263.9	3263.9	3302.0	3352.2
12.5°	3338.4	3374.7	3395.5	3430.2	3437.1	3426.7	3395.5	3381.7	3416.3	3473.4	3556.6
15°	3499.4	3523.7	3541.0	3568.7	3566.9	3558.3	3534.0	3544.4	3658.7	3769.5	3844.0
17.5°	3674.3	3646.6	3643.1	3660.4	3665.6	3655.3	3641.4	3688.1	3876.9	3980.8	4018.9
20°	3800.7	3705.5	3684.7	3691.6	3705.5	3700.3	3700.3	3776.5	3972.1	4020.6	3972.1
22.5°	3838.8	3703.7	3672.6	3674.3	3693.3	3695.1	3703.7	3783.4	3897.7	3899.4	3824.9
25°	3778.2	3648.3	3625.8	3629.3	3651.8	3650.1	3653.5	3698.5	3748.8	3728.0	3672.6
27.5°	3663.9	3551.4	3544.4	3563.5	3592.9	3577.3	3566.9	3579.1	3603.3	3577.3	3528.8
30°	3534.0	3438.8	3442.3	3478.6	3509.8	3483.8	3457.9	3464.8	3466.5	3438.8	3383.4
32.5°	3397.3	3326.3	3338.4	3376.5	3412.8	3385.1	3357.4	3354.0	3321.1	3288.2	3234.5
35°	3260.5	3232.8	3248.3	3279.5	3310.7	3288.2	3270.9	3260.5	3189.5	3141.0	3096.0
37.5°	3135.8	3156.6	3184.3	3203.3	3213.7	3212.0	3201.6	3177.3	3083.8	3026.7	2967.8
40°	3025.0	3089.0	3118.5	3127.1	3142.7	3139.3	3137.5	3102.9	2980.0	2919.4	2851.8
42.5°	2924.5	3014.6	3064.8	3073.5	3082.1	3083.8	3078.7	3028.4	2888.2	2817.2	2753.1
45°	2827.6	2945.3	3009.4	3000.7	3012.9	3012.9	3018.0	2952.3	2798.1	2725.4	2657.9
47.5°	2742.7	2881.3	2940.1	2929.7	2936.7	2941.9	2947.1	2870.9	2699.4	2630.2	2560.9
50°	2664.8	2812.0	2862.2	2865.7	2865.7	2877.8	2876.1	2801.6	2616.3	2541.9	2472.6
52.5°	2581.7	2741.0	2794.7	2817.2	2824.1	2829.3	2805.1	2718.5	2531.5	2441.5	2377.4
55°	2484.7	2668.3	2716.8	2746.2	2760.1	2756.6	2723.7	2635.4	2444.9	2354.9	2282.2
57.5°	2337.6	2512.4	2581.7	2595.6	2618.1	2604.2	2566.1	2491.7	2306.4	2216.4	2141.9
60°	2176.5	2302.9	2358.3	2370.5	2353.1	2358.3	2353.1	2282.2	2121.1	2050.1	1973.9
62.5°	1965.3	2077.8	2136.7	2152.3	2122.9	2141.9	2135.0	2046.7	1885.6	1811.2	1743.6
65°	1806.0	1928.9	1998.2	2006.8	1998.2	2006.8	1982.6	1875.2	1722.9	1646.7	1577.4
67.5°	1681.3	1807.7	1880.4	1904.7	1896.0	1894.3	1856.2	1731.5	1574.0	1490.8	1402.5
70°	1466.6	1577.4	1670.9	1729.8	1729.8	1696.9	1624.2	1508.2	1381.8	1310.8	1241.5
72.5°	1298.6	1438.9	1530.7	1591.3	1603.4	1584.3	1482.2	1359.2	1213.8	1142.8	1070.1
75°	1070.1	1206.9	1305.6	1385.2	1400.8	1380.0	1262.3	1141.1	1006.0	936.8	864.0
77.5°	715.1	796.5	876.2	948.9	933.3	947.1	867.5	775.7	692.6	640.7	607.8
80°	403.4	457.1	481.4	521.2	521.2	521.2	469.2	426.0	379.2	349.8	316.9
82.5°	228.6	263.2	273.6	306.5	315.1	316.9	282.2	254.5	225.1	209.5	187.0
85°	105.6	124.7	126.4	145.4	152.4	166.2	150.6	131.6	114.3	107.4	93.5
87.5°	3.5	10.4	13.9	26.0	34.6	39.8	43.3	43.3	36.4	32.9	27.7
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°	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1
2.5°	3676.0	3717.6	3766.1	3800.7	3863.0	3915.0	3968.7	4027.5	4070.8	4060.4
5°	3490.8	3560.0	3648.3	3729.7	3845.7	3963.5	4093.3	4226.7	4304.6	4301.1
7.5°	3386.9	3485.6	3592.9	3702.0	3838.8	4008.5	4207.6	4415.4	4521.0	4526.2
10°	3442.3	3547.9	3620.6	3712.4	3856.1	4069.1	4308.0	4557.4	4678.6	4702.8
12.5°	3617.2	3608.5	3603.3	3669.1	3842.3	4112.4	4405.0	4702.8	4839.6	4869.0
15°	3783.4	3605.0	3497.7	3542.7	3779.9	4140.1	4500.2	4862.1	5016.2	5047.4
17.5°	3814.6	3544.4	3345.3	3376.5	3681.2	4148.7	4592.0	5018.0	5184.2	5213.6
20°	3728.0	3466.5	3234.5	3191.2	3556.6	4126.2	4649.1	5147.8	5329.6	5360.8
22.5°	3618.9	3397.3	3151.4	3038.8	3404.2	4103.7	4713.2	5284.6	5494.1	5521.8
25°	3504.6	3308.9	3073.5	2902.0	3231.0	4089.9	4820.6	5464.7	5717.5	5750.4
27.5°	3383.4	3201.6	3005.9	2836.2	3071.7	4107.2	4972.9	5755.6	6043.0	6089.8
30°	3253.5	3094.2	2962.6	2813.7	2962.6	4122.8	5140.9	6053.4	6391.1	6456.9
32.5°	3118.5	2995.5	2917.6	2824.1	2895.1	4086.4	5288.1	6387.6	6806.6	6863.8
35°	2983.4	2895.1	2860.5	2843.2	2805.1	3953.1	5407.6	6725.2	7281.1	7331.3
37.5°	2857.0	2791.2	2780.8	2799.9	2666.5	3734.9	5546.1	7154.7	7746.8	7823.0
40°	2739.3	2678.7	2676.9	2673.5	2514.2	3437.1	5733.1	7591.0	8205.7	8240.3
42.5°	2630.2	2554.0	2567.9	2526.3	2389.5	3115.0	5909.7	7963.3	8633.4	8657.6
45°	2533.2	2432.8	2448.4	2396.4	2330.6	2777.4	6065.5	8403.1	9175.4	9190.9
47.5°	2439.7	2332.4	2289.1	2285.6	2320.2	2465.7	6217.9	9249.8	10023.8	10051.5
50°	2353.1	2237.1	2114.2	2190.4	2256.2	2231.9	6408.4	10157.1	10900.0	10893.0
52.5°	2270.0	2117.7	1942.8	2090.0	2090.0	2058.8	6354.7	10707.8	11623.7	11743.2
55°	2174.8	1925.5	1764.4	1922.0	1845.8	1902.9	5404.1	10887.8	12079.1	12248.8
57.5°	1986.1	1688.2	1548.0	1632.8	1518.5	1764.4	3882.1	9994.4	11305.1	11606.4
60°	1804.2	1513.4	1421.6	1406.0	1257.1	1438.9	2515.9	7824.8	9305.2	9457.6
62.5°	1591.3	1362.7	1284.8	1165.3	1011.2	1047.6	1523.7	5149.6	6252.5	6287.2
65°	1430.2	1234.6	1085.7	943.7	827.7	760.1	900.4	2483.0	3125.4	3083.8
67.5°	1227.7	1058.0	916.0	813.8	718.6	633.7	599.1	737.6	834.6	806.9
70°	1092.6	929.8	793.0	696.1	607.8	522.9	462.3	434.6	426.0	419.0
72.5°	941.9	800.0	658.0	564.5	481.4	403.4	348.0	315.1	306.5	299.6
75°	751.5	618.2	488.3	400.0	327.3	271.8	235.5	207.8	202.6	195.7
77.5°	496.9	396.5	290.9	237.2	193.9	164.5	140.3	122.9	119.5	116.0
80°	273.6	228.6	178.3	143.7	116.0	100.4	91.8	81.4	79.7	77.9
82.5°	162.8	136.8	102.2	81.4	67.5	60.6	55.4	50.2	48.5	46.8
85°	81.4	64.1	45.0	38.1	34.6	31.2	31.2	26.0	24.2	24.2
87.5°	20.8	17.3	10.4	8.7	8.7	8.7	6.9	5.2	5.2	3.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)