

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: P639749

Luminaire Tested: GWS-SA5C-740-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639749
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-SA5C-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18630.7 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

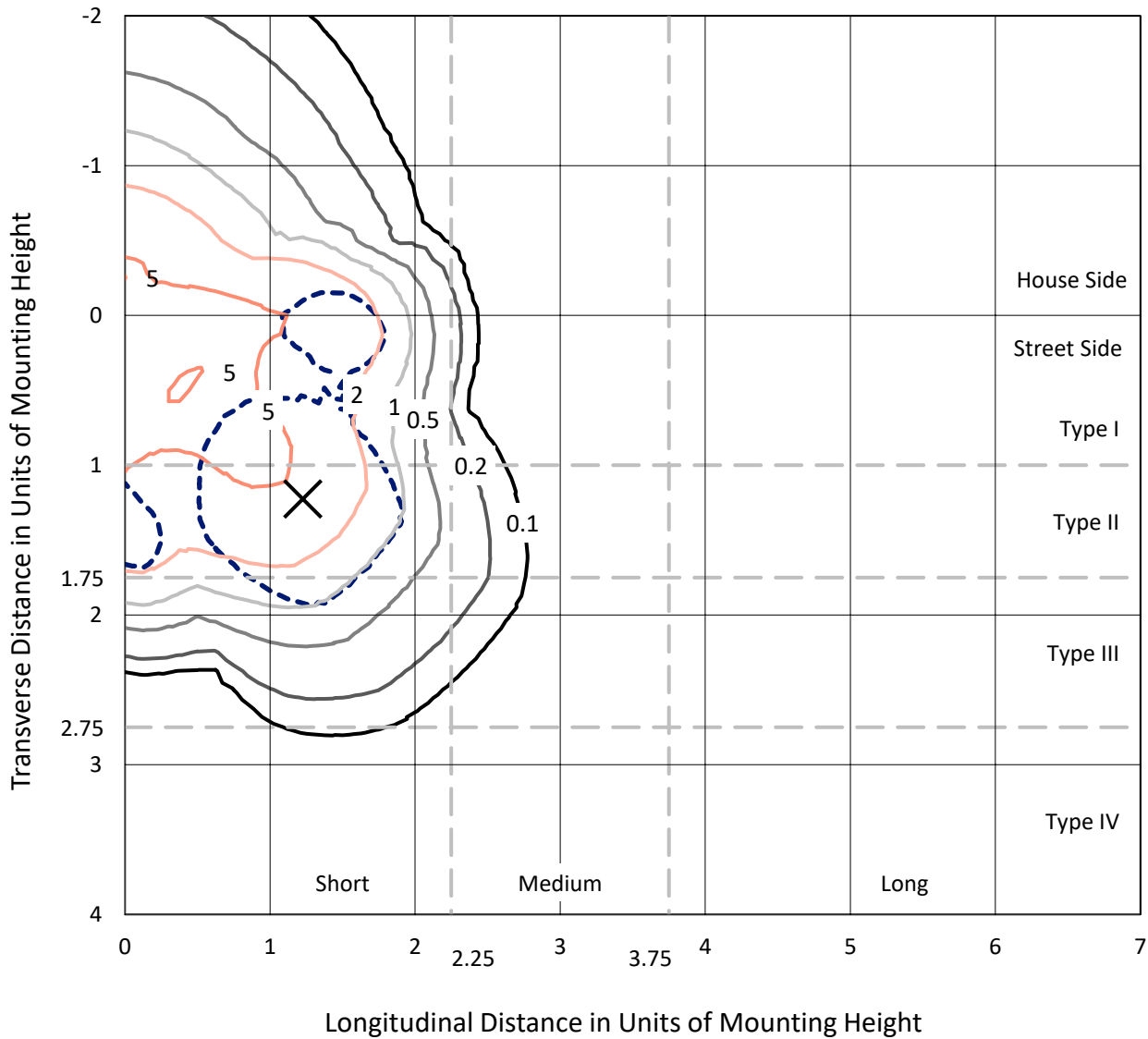
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

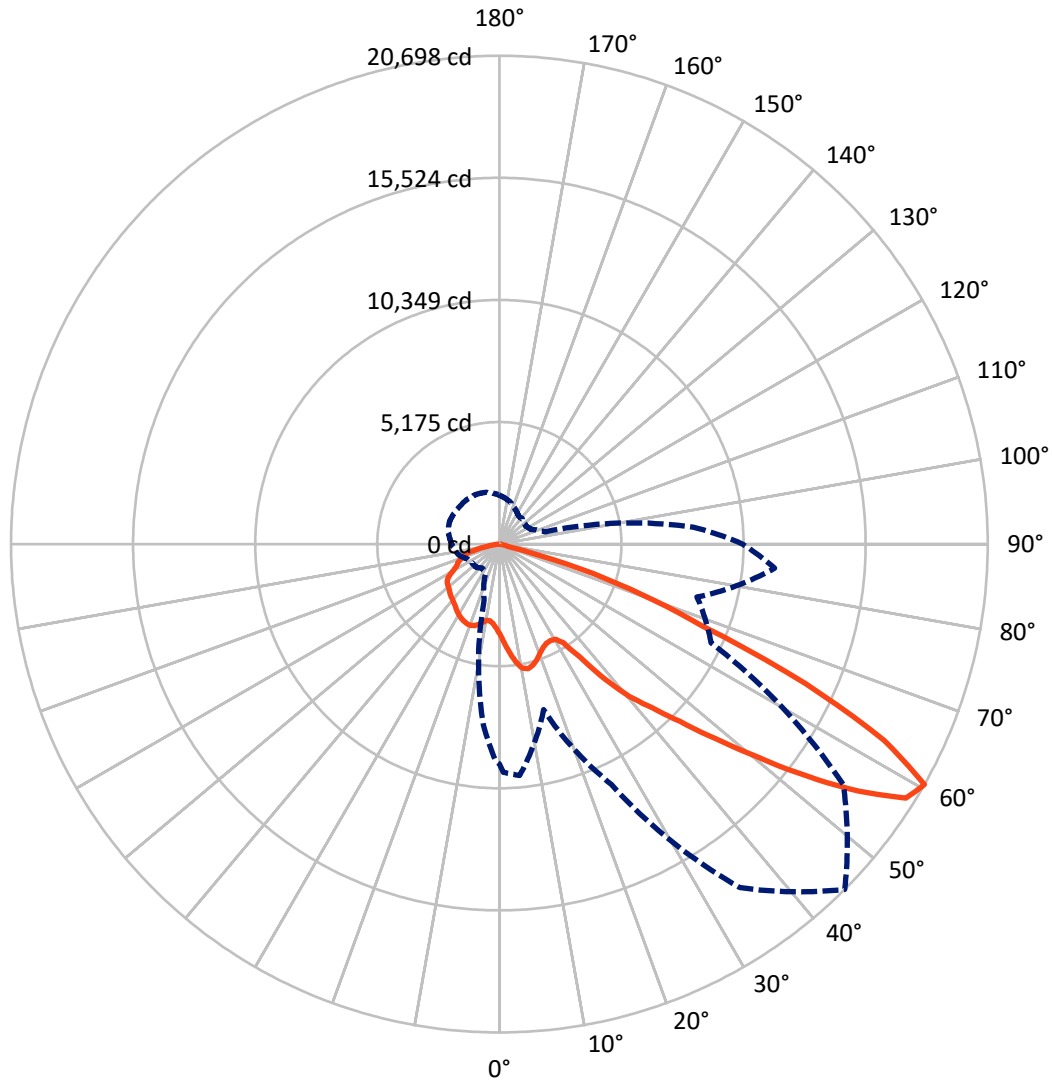
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	6530.7	0.0	6530.7
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	12100.0	0.0	12100.0
	% Fixture	64.9	0.0	64.9
Total	Lumens	18630.7	0.0	18630.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.4	2.0
10°-20°	1180.0	6.3
20°-30°	1916.8	10.3
30°-40°	2703.2	14.5
40°-50°	3735.8	20.1
50°-60°	4809.0	25.8
60°-70°	3047.0	16.4
70°-80°	781.9	4.2
80°-90°	83.6	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°	18630.7	100.0
0°-180°	18630.7	100.0

Coefficient of Utilization



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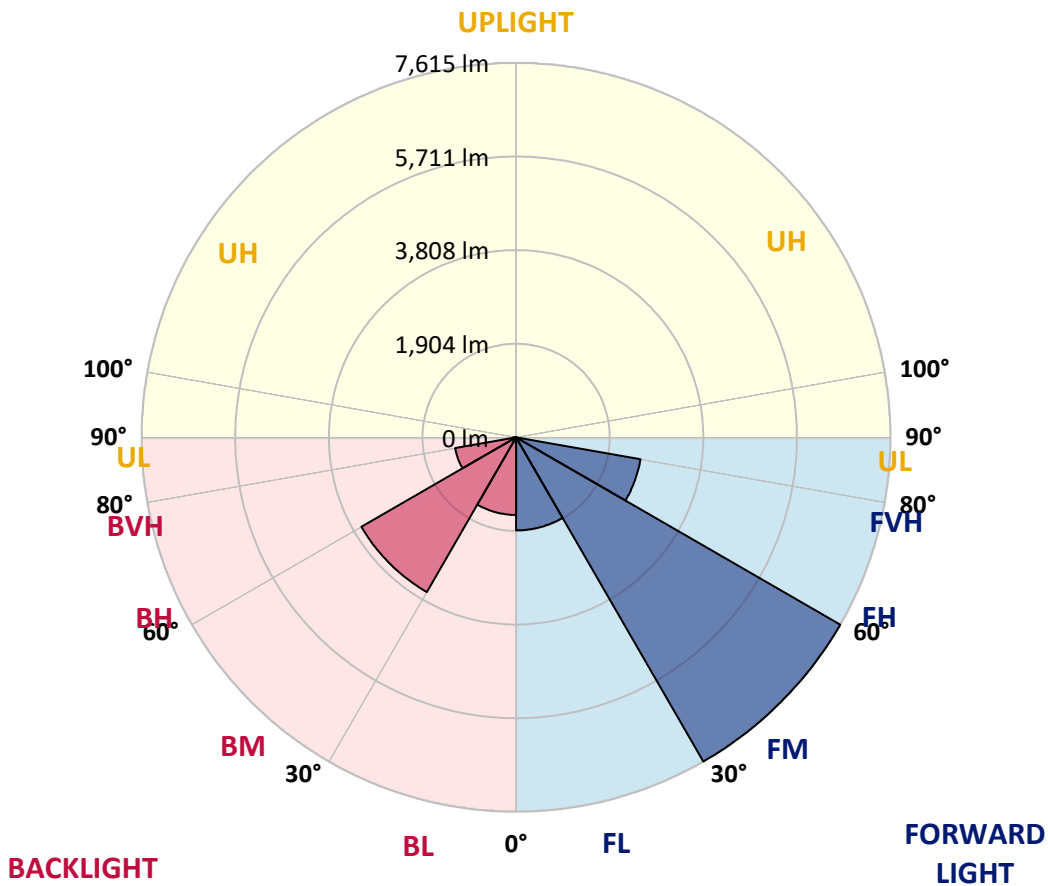
CATALOG NUMBER: GWS-SA5C-740-U-SLR-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1891.7	10.2			
FM (30°-60°)	7615.2	40.9			
FH (60°-80°)	2570.4	13.8			G2/5000
FVH (80°-90°)	22.7	0.1			G1/100
BL (0°-30°)	1578.5	8.5	B3/2500		
BM (30°-60°)	3632.8	19.5	B3/5000		
BH (60°-80°)	1258.5	6.8	B3/2500		G3/2500
BVH (80°-90°)	60.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3
2.5°	4003.1	4030.4	4047.5	4079.9	4138.0	4170.4	4206.3	4167.0	4177.2	4172.1	4109.0
5°	4240.4	4272.8	4317.2	4412.8	4520.4	4580.1	4636.5	4627.9	4575.0	4486.2	4423.1
7.5°	4462.3	4499.9	4576.7	4732.0	4890.8	4983.0	5051.3	5006.9	4962.5	4822.5	4663.8
10°	4636.5	4658.6	4762.8	4971.0	5155.4	5259.5	5343.2	5332.9	5271.5	5114.4	4901.1
12.5°	4800.3	4815.7	4928.4	5136.6	5302.2	5348.3	5416.6	5438.8	5418.3	5300.5	5090.5
15°	4976.2	5005.2	5109.3	5268.1	5343.2	5295.4	5319.3	5380.7	5438.8	5438.8	5245.9
17.5°	5140.0	5165.6	5271.5	5339.8	5268.1	5141.7	5148.6	5227.1	5365.4	5510.5	5387.6
20°	5285.1	5309.0	5413.2	5348.3	5121.3	4936.9	4931.8	5027.4	5251.0	5556.6	5539.5
22.5°	5443.9	5478.0	5565.1	5355.1	4984.7	4750.8	4749.1	4848.1	5150.3	5602.7	5713.6
25°	5669.2	5722.2	5766.5	5414.9	4911.3	4629.6	4651.8	4745.7	5117.9	5677.8	5971.4
27.5°	6003.8	6046.5	6043.1	5539.5	4907.9	4580.1	4626.2	4735.5	5175.9	5810.9	6242.8
30°	6365.7	6387.9	6352.1	5713.6	4986.4	4610.8	4679.1	4808.9	5322.7	6031.1	6642.3
32.5°	6766.9	6794.2	6725.9	5974.8	5169.1	4837.9	4988.1	5051.3	5529.3	6348.7	7065.6
35°	7227.8	7280.7	7139.0	6319.6	5706.8	5665.8	5884.3	5802.4	5968.0	6724.2	7518.0
37.5°	7712.6	7714.3	7511.2	6830.1	6761.8	6831.8	7268.8	7012.7	6898.3	7142.5	7978.9
40°	8124.0	8113.8	7801.4	7518.0	7680.2	7958.4	8485.9	8093.3	7792.9	7704.1	8361.3
42.5°	8535.4	8497.9	8182.1	7955.0	8313.5	8885.4	9481.2	8999.8	8366.4	8214.5	8738.6
45°	9061.2	9049.3	8668.6	8129.2	8885.4	9923.3	10713.7	9933.5	8706.2	8511.5	9366.8
47.5°	9909.6	9851.6	9143.2	8115.5	9421.4	11306.0	12304.7	11109.7	8943.4	8518.4	10380.8
50°	10739.3	10667.6	9709.9	8113.8	9974.5	12740.0	14182.5	12538.6	9185.8	8559.3	11411.9
52.5°	11577.5	11577.5	10640.3	8306.7	10554.9	14341.2	16352.2	14319.1	9599.0	9095.4	12680.3
55°	12075.9	12209.1	11686.7	8632.7	11234.3	16225.9	18498.0	16241.2	10237.4	10063.3	13851.3
57.5°	11442.6	11691.8	11616.7	8405.7	11635.5	17610.3	20317.8	17699.1	10553.2	10177.7	13675.5
60°	9324.1	9670.7	9843.1	7258.5	11239.5	17770.8	20698.4	17794.7	9901.1	8666.9	11714.0
62.5°	6198.4	6483.5	6746.4	5186.1	9730.4	15986.9	18306.8	15992.0	8269.1	6468.2	8115.5
65°	3040.3	3252.0	3535.4	3065.9	7601.7	13358.0	14273.0	12922.7	5981.6	3620.7	4139.7
67.5°	795.5	855.3	894.5	1189.8	5445.6	9597.3	9308.8	9452.1	3842.7	1183.0	1082.3
70°	413.1	416.5	414.8	491.6	3680.5	6099.4	6415.2	5935.5	2681.8	495.1	426.8
72.5°	295.3	297.0	291.9	331.2	1777.1	3494.4	3620.7	3581.5	1404.9	293.6	291.9
75°	192.9	194.6	191.2	194.6	268.0	397.8	367.0	385.8	233.9	186.1	186.1
77.5°	114.4	116.1	114.4	117.8	114.4	114.4	105.8	105.8	100.7	100.7	102.4
80°	76.8	76.8	75.1	78.5	71.7	71.7	68.3	66.6	61.5	59.7	59.7
82.5°	46.1	47.8	46.1	46.1	42.7	42.7	39.3	37.6	32.4	32.4	30.7
85°	23.9	23.9	22.2	22.2	18.8	17.1	13.7	13.7	10.2	8.5	8.5
87.5°	3.4	3.4	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°	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3
2.5°	4091.9	4057.7	4006.5	3957.0	3910.9	3863.1	3808.5	3752.2	3704.4	3654.9	3629.3
5°	4339.4	4269.4	4136.3	4018.5	3912.6	3825.6	3731.7	3651.5	3576.3	3514.9	3484.2
7.5°	4563.0	4453.8	4252.4	4066.3	3922.9	3803.4	3673.7	3554.2	3453.4	3378.3	3349.3
10°	4769.6	4639.9	4375.3	4139.7	3972.4	3839.2	3680.5	3518.3	3385.2	3286.1	3262.2
12.5°	4936.9	4788.4	4472.6	4199.4	4001.4	3858.0	3718.0	3578.1	3446.6	3318.6	3298.1
15°	5085.4	4909.6	4546.0	4237.0	3991.2	3808.5	3690.7	3673.7	3673.7	3528.6	3487.6
17.5°	5213.4	5020.5	4605.7	4254.1	3926.3	3661.7	3590.0	3738.5	3905.8	3801.7	3709.5
20°	5360.3	5126.4	4655.2	4254.1	3806.8	3475.6	3468.8	3721.5	3969.0	3970.7	3873.4
22.5°	5508.8	5249.3	4713.3	4238.7	3642.9	3260.5	3386.9	3653.2	3873.4	3967.3	3900.7
25°	5749.5	5420.0	4805.5	4226.8	3451.7	3113.7	3313.5	3562.7	3748.8	3847.8	3805.1
27.5°	6055.0	5645.3	4945.4	4245.5	3262.2	3026.7	3234.9	3444.9	3613.9	3701.0	3670.2
30°	6396.5	5904.8	5095.7	4278.0	3125.7	2982.3	3141.0	3310.0	3460.3	3547.3	3533.7
32.5°	6831.8	6186.5	5225.4	4233.6	3048.9	2960.1	3042.0	3163.2	3308.3	3363.0	3374.9
35°	7352.4	6497.2	5324.4	4059.5	2978.9	2936.2	2934.5	3009.6	3112.0	3199.1	3207.6
37.5°	7832.1	6860.8	5433.7	3760.7	2852.5	2876.4	2808.2	2852.5	2953.3	3040.3	3074.5
40°	8306.7	7229.5	5585.6	3380.0	2687.0	2743.3	2663.1	2693.8	2774.0	2888.4	2943.0
42.5°	8767.6	7562.4	5746.1	2990.8	2521.4	2557.2	2497.5	2528.2	2611.8	2755.2	2816.7
45°	9269.5	8013.1	5870.7	2623.8	2378.0	2362.6	2314.8	2359.2	2485.5	2642.6	2716.0
47.5°	10218.6	8723.2	5952.6	2379.7	2301.2	2190.2	2135.6	2231.2	2374.6	2533.3	2622.1
50°	11377.7	9750.9	5928.7	2224.3	2234.6	2012.7	1993.9	2120.2	2273.8	2439.4	2536.7
52.5°	12296.2	10759.8	5657.3	2075.8	2104.8	1900.0	1845.4	2029.7	2176.5	2345.5	2446.3
55°	12997.8	11099.5	4824.2	1900.0	1893.2	1818.0	1703.7	1935.8	2079.2	2236.3	2345.5
57.5°	12425.9	10343.2	3576.3	1657.6	1616.6	1655.9	1544.9	1777.1	1959.7	2115.1	2212.4
60°	10312.5	8246.9	1992.2	1468.1	1352.0	1447.6	1430.5	1609.8	1830.0	1993.9	2077.5
62.5°	7000.8	5491.7	1181.3	1160.8	1096.0	1232.5	1323.0	1440.8	1657.6	1790.7	1869.3
65°	3489.3	2668.2	785.3	868.9	877.4	1014.0	1184.7	1314.5	1495.4	1632.0	1710.5
67.5°	1012.3	829.6	597.5	664.1	756.2	865.5	1002.1	1155.7	1331.5	1493.7	1585.9
70°	437.0	442.1	474.6	553.1	643.6	756.2	892.8	1043.0	1191.5	1316.2	1386.2
72.5°	309.0	320.9	356.8	437.0	522.4	629.9	766.5	911.6	1019.1	1145.5	1218.9
75°	198.0	206.6	235.6	297.0	360.2	464.3	594.1	727.2	838.2	928.7	998.6
77.5°	109.3	111.0	134.9	170.7	213.4	280.0	375.6	479.7	561.6	612.8	676.0
80°	63.2	63.2	75.1	97.3	122.9	163.9	216.8	268.0	317.5	350.0	380.7
82.5°	34.1	34.1	39.3	52.9	66.6	90.5	121.2	146.8	177.5	194.6	215.1
85°	10.2	10.2	13.7	18.8	23.9	34.1	47.8	61.5	75.1	87.1	99.0
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°	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3
2.5°	3624.1	3600.2	3586.6	3569.5	3574.6	3559.3	3550.7	3555.9	3525.1	3555.9	3586.6
5°	3472.2	3438.1	3410.8	3388.6	3378.3	3357.8	3345.9	3345.9	3327.1	3357.8	3395.4
7.5°	3339.1	3311.8	3298.1	3284.4	3269.1	3250.3	3229.8	3223.0	3211.0	3243.5	3275.9
10°	3250.3	3253.7	3262.2	3281.0	3277.6	3265.7	3234.9	3217.9	3217.9	3255.4	3304.9
12.5°	3291.3	3327.1	3347.6	3381.7	3388.6	3378.3	3347.6	3333.9	3368.1	3424.4	3506.4
15°	3450.0	3473.9	3491.0	3518.3	3516.6	3508.1	3484.2	3494.4	3607.1	3716.3	3789.7
17.5°	3622.4	3595.1	3591.7	3608.8	3613.9	3603.7	3590.0	3636.1	3822.2	3924.6	3962.2
20°	3747.1	3653.2	3632.7	3639.5	3653.2	3648.0	3648.0	3723.2	3916.1	3963.9	3916.1
22.5°	3784.6	3651.5	3620.7	3622.4	3641.2	3642.9	3651.5	3730.0	3842.7	3844.4	3771.0
25°	3724.9	3596.8	3574.6	3578.1	3600.2	3598.5	3602.0	3646.3	3695.8	3675.4	3620.7
27.5°	3612.2	3501.2	3494.4	3513.2	3542.2	3526.8	3516.6	3528.6	3552.5	3526.8	3479.0
30°	3484.2	3390.3	3393.7	3429.5	3460.3	3434.7	3409.1	3415.9	3417.6	3390.3	3335.7
32.5°	3349.3	3279.3	3291.3	3328.8	3364.7	3337.4	3310.0	3306.6	3274.2	3241.8	3188.8
35°	3214.4	3187.1	3202.5	3233.2	3264.0	3241.8	3224.7	3214.4	3144.5	3096.7	3052.3
37.5°	3091.5	3112.0	3139.3	3158.1	3168.4	3166.6	3156.4	3132.5	3040.3	2984.0	2925.9
40°	2982.3	3045.4	3074.5	3083.0	3098.4	3095.0	3093.2	3059.1	2937.9	2878.2	2811.6
42.5°	2883.3	2972.0	3021.5	3030.1	3038.6	3040.3	3035.2	2985.7	2847.4	2777.4	2714.3
45°	2787.7	2903.8	2966.9	2958.4	2970.3	2970.3	2975.5	2910.6	2758.7	2687.0	2620.4
47.5°	2704.0	2840.6	2898.6	2888.4	2895.2	2900.3	2905.5	2830.4	2661.4	2593.1	2524.8
50°	2627.2	2772.3	2821.8	2825.2	2825.2	2837.2	2835.5	2762.1	2579.4	2506.0	2437.7
52.5°	2545.3	2702.3	2755.2	2777.4	2784.3	2789.4	2765.5	2680.1	2495.8	2407.0	2343.8
55°	2449.7	2630.6	2678.4	2707.4	2721.1	2717.7	2685.2	2598.2	2410.4	2321.6	2249.9
57.5°	2304.6	2477.0	2545.3	2558.9	2581.1	2567.5	2529.9	2456.5	2273.8	2185.1	2111.7
60°	2145.8	2270.4	2325.1	2337.0	2319.9	2325.1	2319.9	2249.9	2091.2	2021.2	1946.1
62.5°	1937.5	2048.5	2106.5	2121.9	2092.9	2111.7	2104.8	2017.8	1859.0	1785.6	1719.0
65°	1780.5	1901.7	1970.0	1978.5	1970.0	1978.5	1954.6	1848.8	1698.6	1623.4	1555.2
67.5°	1657.6	1782.2	1853.9	1877.8	1869.3	1867.6	1830.0	1707.1	1551.7	1469.8	1382.7
70°	1445.9	1555.2	1647.3	1705.4	1705.4	1672.9	1601.2	1486.9	1362.3	1292.3	1224.0
72.5°	1280.3	1418.6	1509.1	1568.8	1580.8	1562.0	1461.3	1340.1	1196.7	1126.7	1055.0
75°	1055.0	1189.8	1287.1	1365.7	1381.0	1360.5	1244.5	1125.0	991.8	923.5	851.8
77.5°	705.0	785.3	863.8	935.5	920.1	933.8	855.3	764.8	682.8	631.6	599.2
80°	397.8	450.7	474.6	513.8	513.8	513.8	462.6	419.9	373.9	344.8	312.4
82.5°	225.3	259.5	269.7	302.2	310.7	312.4	278.3	250.9	221.9	206.6	184.4
85°	104.1	122.9	124.6	143.4	150.2	163.9	148.5	129.7	112.7	105.8	92.2
87.5°	3.4	10.2	13.7	25.6	34.1	39.3	42.7	42.7	35.8	32.4	27.3
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°	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3
2.5°	3624.1	3665.1	3712.9	3747.1	3808.5	3859.7	3912.6	3970.7	4013.4	4003.1
5°	3441.5	3509.8	3596.8	3677.1	3791.4	3907.5	4035.6	4167.0	4243.8	4240.4
7.5°	3339.1	3436.4	3542.2	3649.8	3784.6	3951.9	4148.2	4353.1	4457.2	4462.3
10°	3393.7	3497.8	3569.5	3660.0	3801.7	4011.7	4247.2	4493.1	4612.6	4636.5
12.5°	3566.1	3557.6	3552.5	3617.3	3788.0	4054.3	4342.8	4636.5	4771.3	4800.3
15°	3730.0	3554.2	3448.3	3492.7	3726.6	4081.6	4436.7	4793.5	4945.4	4976.2
17.5°	3760.7	3494.4	3298.1	3328.8	3629.3	4090.2	4527.2	4947.1	5111.0	5140.0
20°	3675.4	3417.6	3188.8	3146.2	3506.4	4068.0	4583.5	5075.2	5254.4	5285.1
22.5°	3567.8	3349.3	3106.9	2995.9	3356.1	4045.8	4646.7	5210.0	5416.6	5443.9
25°	3455.1	3262.2	3030.1	2861.1	3185.4	4032.1	4752.5	5387.6	5636.8	5669.2
27.5°	3335.7	3156.4	2963.5	2796.2	3028.4	4049.2	4902.8	5674.4	5957.7	6003.8
30°	3207.6	3050.6	2920.8	2774.0	2920.8	4064.6	5068.3	5968.0	6300.9	6365.7
32.5°	3074.5	2953.3	2876.4	2784.3	2854.3	4028.7	5213.4	6297.4	6710.6	6766.9
35°	2941.3	2854.3	2820.1	2803.0	2765.5	3897.3	5331.2	6630.3	7178.3	7227.8
37.5°	2816.7	2751.8	2741.6	2760.4	2628.9	3682.2	5467.8	7053.7	7637.5	7712.6
40°	2700.6	2640.9	2639.2	2635.7	2478.7	3388.6	5652.2	7483.9	8089.9	8124.0
42.5°	2593.1	2518.0	2531.6	2490.6	2355.8	3071.1	5826.3	7850.9	8511.5	8535.4
45°	2497.5	2398.5	2413.8	2362.6	2297.7	2738.2	5979.9	8284.5	9045.9	9061.2
47.5°	2405.3	2299.4	2256.8	2253.4	2287.5	2430.9	6130.2	9119.3	9882.3	9909.6
50°	2319.9	2205.6	2084.4	2159.5	2224.3	2200.4	6317.9	10013.8	10746.1	10739.3
52.5°	2238.0	2087.8	1915.4	2060.5	2060.5	2029.7	6265.0	10556.6	11459.7	11577.5
55°	2144.1	1898.3	1739.5	1894.9	1819.8	1876.1	5327.8	10734.2	11908.6	12075.9
57.5°	1958.0	1664.4	1526.1	1609.8	1497.1	1739.5	3827.3	9853.3	11145.6	11442.6
60°	1778.8	1492.0	1401.5	1386.2	1239.3	1418.6	2480.4	7714.3	9173.9	9324.1
62.5°	1568.8	1343.5	1266.7	1148.9	996.9	1032.8	1502.2	5076.9	6164.3	6198.4
65°	1410.1	1217.2	1070.3	930.4	816.0	749.4	887.7	2448.0	3081.3	3040.3
67.5°	1210.3	1043.0	903.0	802.3	708.4	624.8	590.7	727.2	822.8	795.5
70°	1077.2	916.7	781.8	686.2	599.2	515.5	455.8	428.5	419.9	413.1
72.5°	928.7	788.7	648.7	556.5	474.6	397.8	343.1	310.7	302.2	295.3
75°	740.9	609.4	481.4	394.3	322.6	268.0	232.2	204.9	199.7	192.9
77.5°	489.9	390.9	286.8	233.9	191.2	162.2	138.3	121.2	117.8	114.4
80°	269.7	225.3	175.8	141.7	114.4	99.0	90.5	80.2	78.5	76.8
82.5°	160.5	134.9	100.7	80.2	66.6	59.7	54.6	49.5	47.8	46.1
85°	80.2	63.2	44.4	37.6	34.1	30.7	30.7	25.6	23.9	23.9
87.5°	20.5	17.1	10.2	8.5	8.5	8.5	6.8	5.1	5.1	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)