

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: P638044

Luminaire Tested: GWS-SA4E-722-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638044
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-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17636.5 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

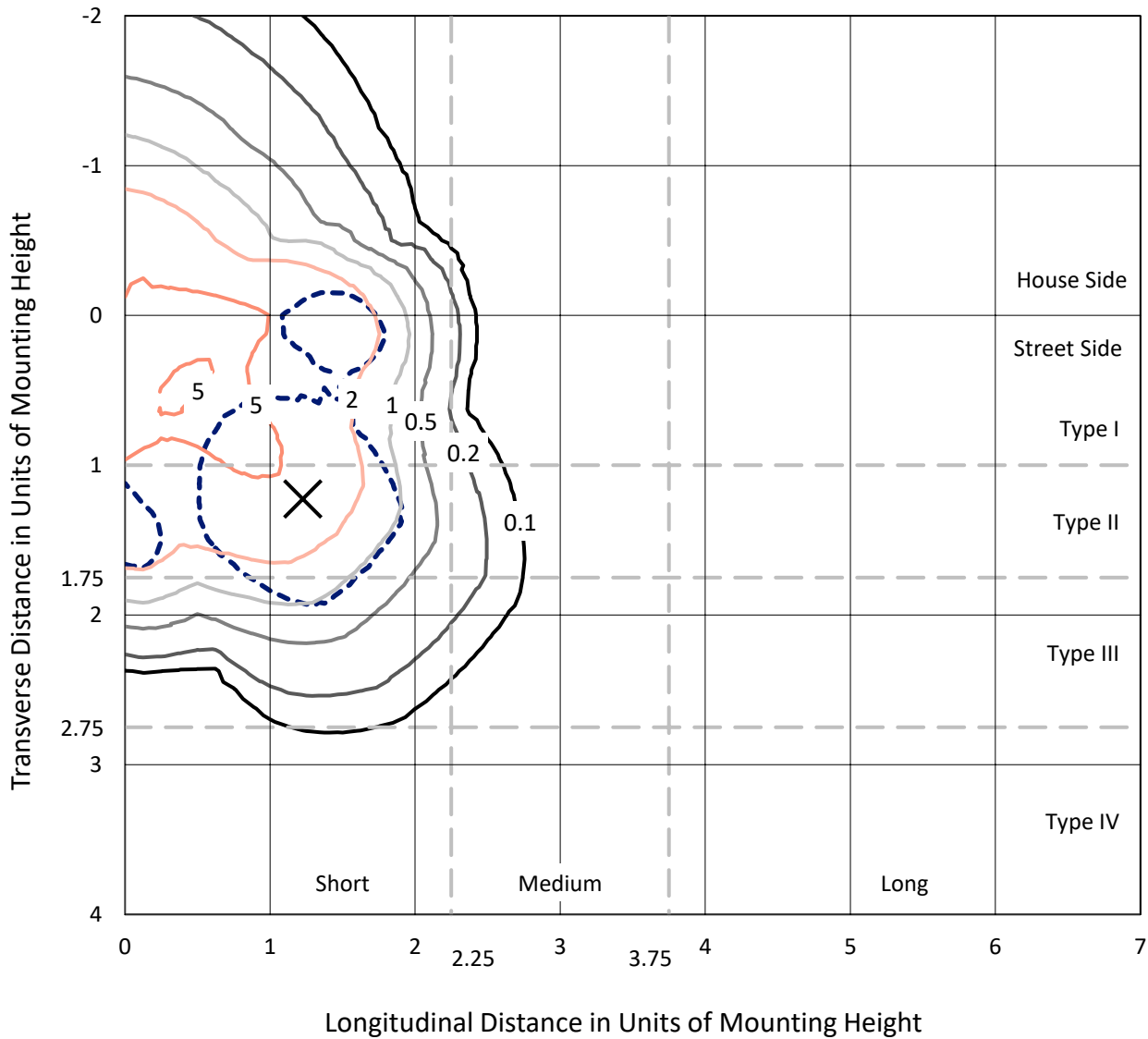
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

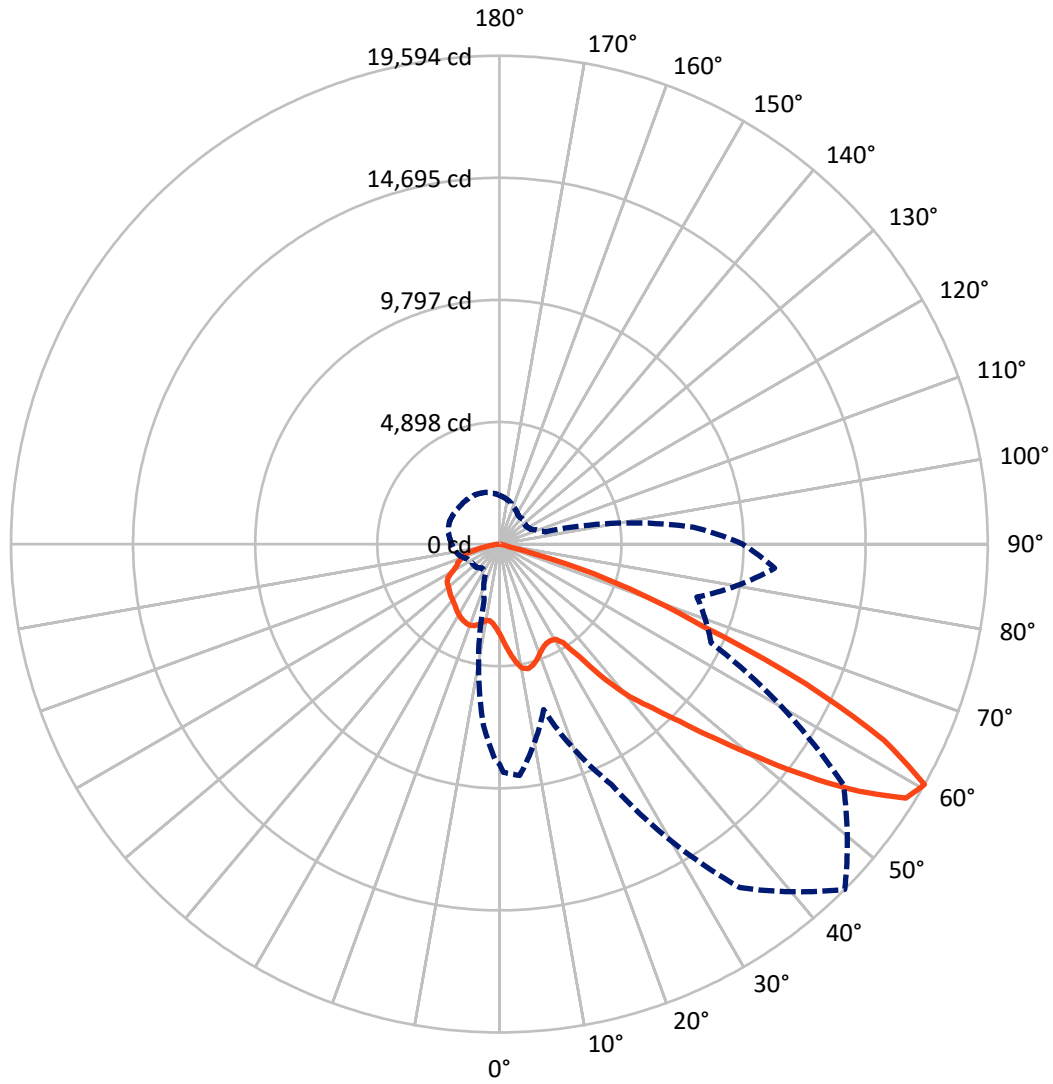
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	6182.2	0.0	6182.2
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	11454.3	0.0	11454.3
	% Fixture	64.9	0.0	64.9
Total	Lumens	17636.5	0.0	17636.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.5	2.0
10°-20°	1117.0	6.3
20°-30°	1814.5	10.3
30°-40°	2559.0	14.5
40°-50°	3536.4	20.1
50°-60°	4552.4	25.8
60°-70°	2884.4	16.4
70°-80°	740.1	4.2
80°-90°	79.1	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°	17636.5	100.0
0°-180°	17636.5	100.0

Coefficient of Utilization



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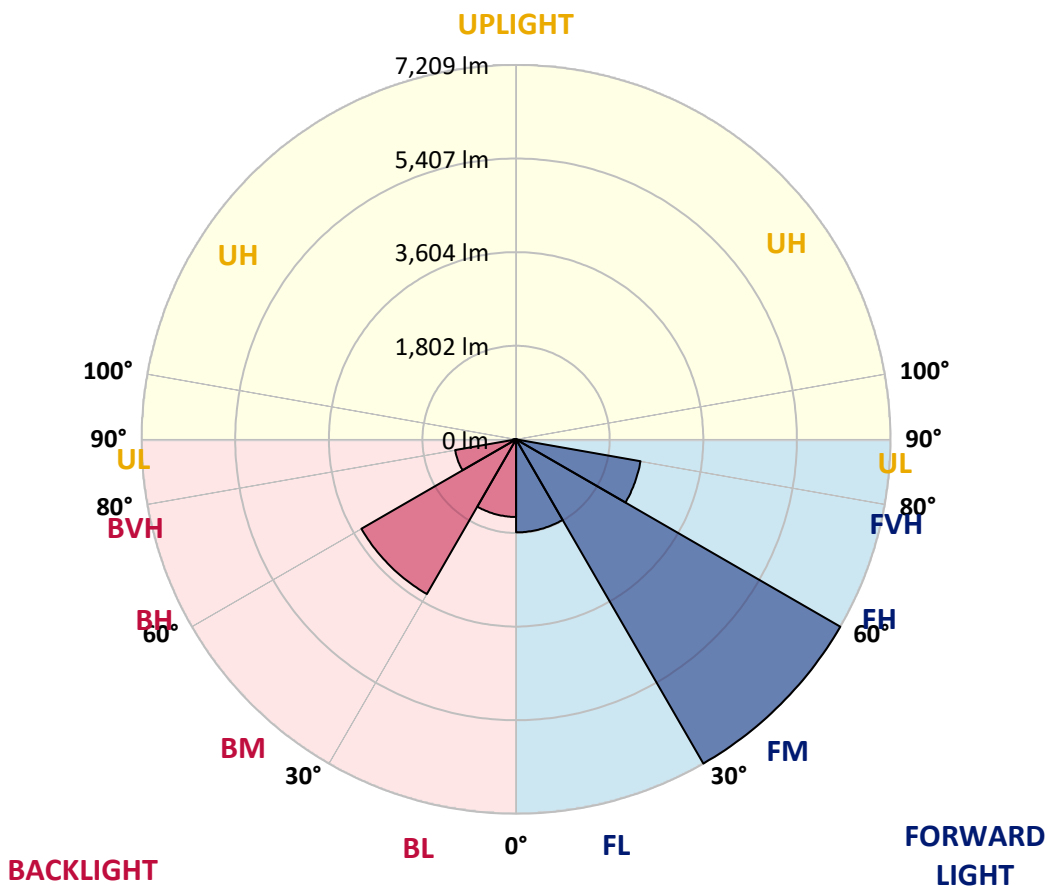
CATALOG NUMBER: GWS-SA4E-722-U-SLR-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1790.8	10.2			
FM (30°-60°)	7208.8	40.9			
FH (60°-80°)	2433.2	13.8			G2/5000
FVH (80°-90°)	21.5	0.1			G1/100
BL (0°-30°)	1494.2	8.5	B3/2500		
BM (30°-60°)	3439.0	19.5	B3/5000		
BH (60°-80°)	1191.4	6.8	B3/2500		G3/2500
BVH (80°-90°)	57.7	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°	3623.1	3623.1	3623.1	3623.1	3623.1	3623.1	3623.1	3623.1	3623.1	3623.1	3623.1
2.5°	3789.5	3815.4	3831.5	3862.2	3917.2	3947.9	3981.8	3944.6	3954.3	3949.5	3889.7
5°	4014.1	4044.8	4086.8	4177.3	4279.1	4335.7	4389.0	4381.0	4330.9	4246.8	4187.0
7.5°	4224.2	4259.8	4332.5	4479.5	4629.8	4717.1	4781.7	4739.7	4697.7	4565.2	4414.9
10°	4389.0	4410.0	4508.6	4705.8	4880.3	4978.9	5058.1	5048.4	4990.2	4841.5	4639.5
12.5°	4544.2	4558.7	4665.4	4862.5	5019.3	5062.9	5127.5	5148.6	5129.2	5017.7	4818.9
15°	4710.6	4738.1	4836.7	4987.0	5058.1	5012.8	5035.4	5093.6	5148.6	5148.6	4965.9
17.5°	4865.8	4890.0	4990.2	5054.8	4987.0	4867.4	4873.8	4948.2	5079.1	5216.4	5100.1
20°	5003.1	5025.7	5124.3	5062.9	4848.0	4673.4	4668.6	4759.1	4970.8	5260.1	5243.9
22.5°	5153.4	5185.7	5268.1	5069.4	4718.7	4497.3	4495.7	4589.4	4875.4	5303.7	5408.7
25°	5366.7	5416.8	5458.8	5125.9	4649.2	4382.6	4403.6	4492.5	4844.7	5374.8	5652.7
27.5°	5683.4	5723.8	5720.6	5243.9	4646.0	4335.7	4379.3	4482.8	4899.7	5500.8	5909.7
30°	6026.0	6047.0	6013.1	5408.7	4720.3	4364.8	4429.4	4552.2	5038.7	5709.3	6287.8
32.5°	6405.8	6431.6	6367.0	5656.0	4893.2	4579.7	4721.9	4781.7	5234.2	6009.9	6688.6
35°	6842.1	6892.2	6758.1	5982.4	5402.3	5363.5	5570.3	5492.8	5649.5	6365.4	7116.8
37.5°	7301.1	7302.7	7110.4	6465.6	6400.9	6467.2	6880.9	6638.5	6530.2	6761.3	7553.1
40°	7690.5	7680.8	7385.1	7116.8	7270.3	7533.8	8033.1	7661.4	7377.0	7293.0	7915.1
42.5°	8080.0	8044.4	7745.4	7530.5	7869.9	8411.2	8975.2	8519.5	7920.0	7776.2	8272.3
45°	8577.7	8566.4	8206.0	7695.4	8411.2	9393.8	10142.0	9403.5	8241.6	8057.3	8866.9
47.5°	9380.8	9325.9	8655.3	7682.4	8918.7	10702.7	11648.1	10516.9	8466.2	8063.8	9826.8
50°	10166.2	10098.3	9191.8	7680.8	9442.2	12060.1	13425.7	11869.5	8695.7	8102.6	10802.9
52.5°	10959.7	10959.7	10072.5	7863.4	9991.7	13575.9	15479.6	13554.9	9086.7	8610.0	12003.6
55°	11431.5	11557.6	11063.1	8172.1	10634.8	15360.0	17510.9	15374.5	9691.1	9526.3	13112.2
57.5°	10832.0	11067.9	10996.8	7957.1	11014.6	16670.6	19233.5	16754.6	9990.1	9634.5	12945.7
60°	8826.5	9154.6	9317.8	6871.2	10639.7	16822.5	19593.9	16845.1	9372.8	8204.4	11088.9
62.5°	5867.7	6137.5	6386.4	4909.4	9211.2	15133.8	17329.9	15138.6	7827.9	6123.0	7682.4
65°	2878.1	3078.5	3346.7	2902.3	7196.0	12645.1	13511.3	12233.1	5662.4	3427.5	3918.8
67.5°	753.1	809.6	846.8	1126.3	5155.0	9085.1	8812.0	8947.7	3637.6	1119.9	1024.5
70°	391.1	394.3	392.7	465.4	3484.1	5773.9	6072.9	5618.8	2538.7	468.6	404.0
72.5°	279.6	281.2	276.3	313.5	1682.2	3307.9	3427.5	3390.4	1330.0	278.0	276.3
75°	182.6	184.2	181.0	184.2	253.7	376.5	347.4	365.2	221.4	176.1	176.1
77.5°	108.3	109.9	108.3	111.5	108.3	108.3	100.2	100.2	95.3	95.3	97.0
80°	72.7	72.7	71.1	74.3	67.9	67.9	64.6	63.0	58.2	56.6	56.6
82.5°	43.6	45.2	43.6	43.6	40.4	40.4	37.2	35.6	30.7	30.7	29.1
85°	22.6	22.6	21.0	21.0	17.8	16.2	12.9	12.9	9.7	8.1	8.1
87.5°	3.2	3.2	1.6	1.6	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°	3623.1	3623.1	3623.1	3623.1	3623.1	3623.1	3623.1	3623.1	3623.1	3623.1	3623.1
2.5°	3873.5	3841.2	3792.7	3745.9	3702.2	3657.0	3605.3	3552.0	3506.7	3459.8	3435.6
5°	4107.9	4041.6	3915.5	3804.0	3703.9	3621.4	3532.6	3456.6	3385.5	3327.3	3298.2
7.5°	4319.5	4216.1	4025.4	3849.3	3713.5	3600.4	3477.6	3364.5	3269.2	3198.0	3170.6
10°	4515.1	4392.3	4141.8	3918.8	3760.4	3634.4	3484.1	3330.6	3204.5	3110.8	3088.2
12.5°	4673.4	4532.9	4233.9	3975.3	3787.9	3652.1	3519.6	3387.1	3262.7	3141.5	3122.1
15°	4814.0	4647.6	4303.4	4010.9	3778.2	3605.3	3493.8	3477.6	3477.6	3340.3	3301.5
17.5°	4935.2	4752.6	4359.9	4027.1	3716.8	3466.3	3398.4	3539.0	3697.4	3598.8	3511.6
20°	5074.2	4852.8	4406.8	4027.1	3603.7	3290.2	3283.7	3522.9	3757.2	3758.8	3666.7
22.5°	5214.8	4969.2	4461.8	4012.5	3448.5	3086.5	3206.1	3458.2	3666.7	3755.6	3692.5
25°	5442.7	5130.8	4549.0	4001.2	3267.5	2947.6	3136.6	3372.6	3548.7	3642.4	3602.0
27.5°	5731.9	5344.1	4681.5	4019.0	3088.2	2865.2	3062.3	3261.1	3421.1	3503.5	3474.4
30°	6055.1	5589.7	4823.7	4049.7	2958.9	2823.1	2973.4	3133.4	3275.6	3358.0	3345.1
32.5°	6467.2	5856.4	4946.6	4007.7	2886.2	2802.1	2879.7	2994.4	3131.8	3183.5	3194.8
35°	6960.1	6150.5	5040.3	3842.8	2819.9	2779.5	2777.9	2849.0	2946.0	3028.4	3036.4
37.5°	7414.2	6494.7	5143.7	3560.0	2700.3	2722.9	2658.3	2700.3	2795.7	2878.1	2910.4
40°	7863.4	6843.7	5287.5	3199.7	2543.6	2596.9	2520.9	2550.0	2626.0	2734.3	2786.0
42.5°	8299.7	7158.8	5439.4	2831.2	2386.8	2420.8	2364.2	2393.3	2472.5	2608.2	2666.4
45°	8774.8	7585.5	5557.4	2483.8	2251.1	2236.5	2191.3	2233.3	2352.9	2501.6	2571.0
47.5°	9673.3	8257.7	5635.0	2252.7	2178.4	2073.3	2021.6	2112.1	2247.8	2398.1	2482.2
50°	10770.6	9230.5	5612.3	2105.6	2115.3	1905.3	1887.5	2007.1	2152.5	2309.3	2401.4
52.5°	11640.0	10185.6	5355.4	1965.0	1992.5	1798.6	1746.9	1921.4	2060.4	2220.4	2315.7
55°	12304.2	10507.2	4566.8	1798.6	1792.1	1721.0	1612.8	1832.5	1968.3	2116.9	2220.4
57.5°	11762.8	9791.3	3385.5	1569.1	1530.3	1567.5	1462.5	1682.2	1855.2	2002.2	2094.3
60°	9762.2	7806.9	1885.9	1389.8	1279.9	1370.4	1354.2	1523.9	1732.3	1887.5	1966.7
62.5°	6627.2	5198.6	1118.3	1098.9	1037.5	1166.7	1252.4	1363.9	1569.1	1695.2	1769.5
65°	3303.1	2525.8	743.4	822.5	830.6	959.9	1121.5	1244.3	1415.6	1544.9	1619.2
67.5°	958.3	785.4	565.6	628.6	715.9	819.3	948.6	1094.0	1260.5	1414.0	1501.3
70°	413.7	418.5	449.2	523.6	609.2	715.9	845.2	987.4	1128.0	1245.9	1312.2
72.5°	292.5	303.8	337.7	413.7	494.5	596.3	725.6	862.9	964.7	1084.3	1153.8
75°	187.5	195.5	223.0	281.2	341.0	439.5	562.4	688.4	793.5	879.1	945.4
77.5°	103.4	105.0	127.7	161.6	202.0	265.0	355.5	454.1	531.7	580.1	639.9
80°	59.8	59.8	71.1	92.1	116.4	155.1	205.2	253.7	300.6	331.3	360.4
82.5°	32.3	32.3	37.2	50.1	63.0	85.6	114.7	139.0	168.1	184.2	203.6
85°	9.7	9.7	12.9	17.8	22.6	32.3	45.2	58.2	71.1	82.4	93.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
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°	3623.1	3623.1	3623.1	3623.1	3623.1	3623.1	3623.1	3623.1	3623.1	3623.1	3623.1
2.5°	3430.8	3408.1	3395.2	3379.0	3383.9	3369.3	3361.3	3366.1	3337.0	3366.1	3395.2
5°	3286.9	3254.6	3228.8	3207.7	3198.0	3178.7	3167.3	3167.3	3149.6	3178.7	3214.2
7.5°	3160.9	3135.0	3122.1	3109.2	3094.6	3076.8	3057.5	3051.0	3039.7	3070.4	3101.1
10°	3076.8	3080.1	3088.2	3105.9	3102.7	3091.4	3062.3	3046.1	3046.1	3081.7	3128.6
12.5°	3115.6	3149.6	3169.0	3201.3	3207.7	3198.0	3169.0	3156.0	3188.4	3241.7	3319.2
15°	3265.9	3288.5	3304.7	3330.6	3328.9	3320.9	3298.2	3307.9	3414.6	3518.0	3587.5
17.5°	3429.1	3403.3	3400.0	3416.2	3421.1	3411.4	3398.4	3442.1	3618.2	3715.2	3750.7
20°	3547.1	3458.2	3438.8	3445.3	3458.2	3453.4	3453.4	3524.5	3707.1	3752.3	3707.1
22.5°	3582.7	3456.6	3427.5	3429.1	3446.9	3448.5	3456.6	3530.9	3637.6	3639.2	3569.7
25°	3526.1	3404.9	3383.9	3387.1	3408.1	3406.5	3409.7	3451.8	3498.6	3479.2	3427.5
27.5°	3419.4	3314.4	3307.9	3325.7	3353.2	3338.6	3328.9	3340.3	3362.9	3338.6	3293.4
30°	3298.2	3209.4	3212.6	3246.5	3275.6	3251.4	3227.1	3233.6	3235.2	3209.4	3157.6
32.5°	3170.6	3104.3	3115.6	3151.2	3185.1	3159.3	3133.4	3130.2	3099.5	3068.8	3018.7
35°	3042.9	3017.1	3031.6	3060.7	3089.8	3068.8	3052.6	3042.9	2976.7	2931.4	2889.4
37.5°	2926.6	2946.0	2971.8	2989.6	2999.3	2997.7	2988.0	2965.3	2878.1	2824.8	2769.8
40°	2823.1	2882.9	2910.4	2918.5	2933.0	2929.8	2928.2	2895.9	2781.1	2724.6	2661.5
42.5°	2729.4	2813.4	2860.3	2868.4	2876.5	2878.1	2873.2	2826.4	2695.5	2629.2	2569.4
45°	2638.9	2748.8	2808.6	2800.5	2811.8	2811.8	2816.7	2755.3	2611.4	2543.6	2480.5
47.5°	2559.7	2689.0	2744.0	2734.3	2740.7	2745.6	2750.4	2679.3	2519.3	2454.7	2390.1
50°	2487.0	2624.4	2671.2	2674.5	2674.5	2685.8	2684.2	2614.7	2441.8	2372.3	2307.6
52.5°	2409.4	2558.1	2608.2	2629.2	2635.7	2640.5	2617.9	2537.1	2362.6	2278.5	2218.8
55°	2318.9	2490.2	2535.5	2563.0	2575.9	2572.7	2542.0	2459.5	2281.8	2197.7	2129.9
57.5°	2181.6	2344.8	2409.4	2422.4	2443.4	2430.5	2394.9	2325.4	2152.5	2068.5	1999.0
60°	2031.3	2149.3	2201.0	2212.3	2196.1	2201.0	2196.1	2129.9	1979.6	1913.3	1842.2
62.5°	1834.2	1939.2	1994.1	2008.7	1981.2	1999.0	1992.5	1910.1	1759.8	1690.3	1627.3
65°	1685.5	1800.2	1864.9	1872.9	1864.9	1872.9	1850.3	1750.1	1607.9	1536.8	1472.2
67.5°	1569.1	1687.1	1755.0	1777.6	1769.5	1767.9	1732.3	1616.0	1468.9	1391.4	1309.0
70°	1368.7	1472.2	1559.4	1614.4	1614.4	1583.7	1515.8	1407.5	1289.6	1223.3	1158.7
72.5°	1212.0	1342.9	1428.5	1485.1	1496.4	1478.6	1383.3	1268.6	1132.8	1066.6	998.7
75°	998.7	1126.3	1218.5	1292.8	1307.3	1287.9	1178.1	1064.9	938.9	874.3	806.4
77.5°	667.4	743.4	817.7	885.6	871.0	883.9	809.6	724.0	646.4	597.9	567.2
80°	376.5	426.6	449.2	486.4	486.4	486.4	437.9	397.5	353.9	326.4	295.7
82.5°	213.3	245.6	255.3	286.0	294.1	295.7	263.4	237.6	210.1	195.5	174.5
85°	98.6	116.4	118.0	135.7	142.2	155.1	140.6	122.8	106.7	100.2	87.3
87.5°	3.2	9.7	12.9	24.2	32.3	37.2	40.4	40.4	33.9	30.7	25.9
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3623.1	3623.1	3623.1	3623.1	3623.1	3623.1	3623.1	3623.1	3623.1	3623.1
2.5°	3430.8	3469.5	3514.8	3547.1	3605.3	3653.8	3703.9	3758.8	3799.2	3789.5
5°	3257.8	3322.5	3404.9	3480.8	3589.1	3699.0	3820.2	3944.6	4017.4	4014.1
7.5°	3160.9	3253.0	3353.2	3455.0	3582.7	3741.0	3926.9	4120.8	4219.4	4224.2
10°	3212.6	3311.2	3379.0	3464.7	3598.8	3797.6	4020.6	4253.3	4366.4	4389.0
12.5°	3375.8	3367.7	3362.9	3424.3	3585.9	3838.0	4111.1	4389.0	4516.7	4544.2
15°	3530.9	3364.5	3264.3	3306.3	3527.7	3863.8	4200.0	4537.7	4681.5	4710.6
17.5°	3560.0	3307.9	3122.1	3151.2	3435.6	3871.9	4285.6	4683.1	4838.3	4865.8
20°	3479.2	3235.2	3018.7	2978.3	3319.2	3850.9	4338.9	4804.3	4974.0	5003.1
22.5°	3377.4	3170.6	2941.1	2836.1	3177.0	3829.9	4398.7	4932.0	5127.5	5153.4
25°	3270.8	3088.2	2868.4	2708.4	3015.4	3817.0	4498.9	5100.1	5336.0	5366.7
27.5°	3157.6	2988.0	2805.4	2647.0	2866.8	3833.1	4641.1	5371.6	5639.8	5683.4
30°	3036.4	2887.8	2765.0	2626.0	2765.0	3847.7	4797.9	5649.5	5964.6	6026.0
32.5°	2910.4	2795.7	2722.9	2635.7	2701.9	3813.7	4935.2	5961.4	6352.5	6405.8
35°	2784.4	2701.9	2669.6	2653.5	2617.9	3689.3	5046.7	6276.5	6795.2	6842.1
37.5°	2666.4	2605.0	2595.3	2613.1	2488.6	3485.7	5176.0	6677.3	7229.9	7301.1
40°	2556.5	2499.9	2498.3	2495.1	2346.4	3207.7	5350.5	7084.5	7658.2	7690.5
42.5°	2454.7	2383.6	2396.5	2357.7	2230.1	2907.2	5515.4	7431.9	8057.3	8080.0
45°	2364.2	2270.5	2285.0	2236.5	2175.1	2592.1	5660.8	7842.4	8563.1	8577.7
47.5°	2276.9	2176.7	2136.3	2133.1	2165.4	2301.2	5803.0	8632.6	9355.0	9380.8
50°	2196.1	2087.9	1973.1	2044.2	2105.6	2083.0	5980.8	9479.4	10172.7	10166.2
52.5°	2118.6	1976.4	1813.1	1950.5	1950.5	1921.4	5930.7	9993.3	10848.2	10959.7
55°	2029.7	1797.0	1646.7	1793.8	1722.6	1776.0	5043.5	10161.4	11273.2	11431.5
57.5°	1853.5	1575.6	1444.7	1523.9	1417.2	1646.7	3623.1	9327.5	10550.8	10832.0
60°	1683.9	1412.4	1326.7	1312.2	1173.2	1342.9	2348.0	7302.7	8684.3	8826.5
62.5°	1485.1	1271.8	1199.1	1087.6	943.7	977.7	1422.1	4806.0	5835.3	5867.7
65°	1334.8	1152.2	1013.2	880.7	772.4	709.4	840.3	2317.3	2916.9	2878.1
67.5°	1145.7	987.4	854.9	759.5	670.6	591.5	559.1	688.4	778.9	753.1
70°	1019.7	867.8	740.1	649.6	567.2	488.0	431.5	405.6	397.5	391.1
72.5°	879.1	746.6	614.1	526.8	449.2	376.5	324.8	294.1	286.0	279.6
75°	701.3	576.9	455.7	373.3	305.4	253.7	219.8	193.9	189.1	182.6
77.5°	463.8	370.1	271.5	221.4	181.0	153.5	130.9	114.7	111.5	108.3
80°	255.3	213.3	166.4	134.1	108.3	93.7	85.6	76.0	74.3	72.7
82.5°	151.9	127.7	95.3	76.0	63.0	56.6	51.7	46.9	45.2	43.6
85°	76.0	59.8	42.0	35.6	32.3	29.1	29.1	24.2	22.6	22.6
87.5°	19.4	16.2	9.7	8.1	8.1	8.1	6.5	4.8	4.8	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)