

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: P638816

Luminaire Tested: GWS-SA4F-750-U-SLR-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638816  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-41)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4F-750-U-SLR-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

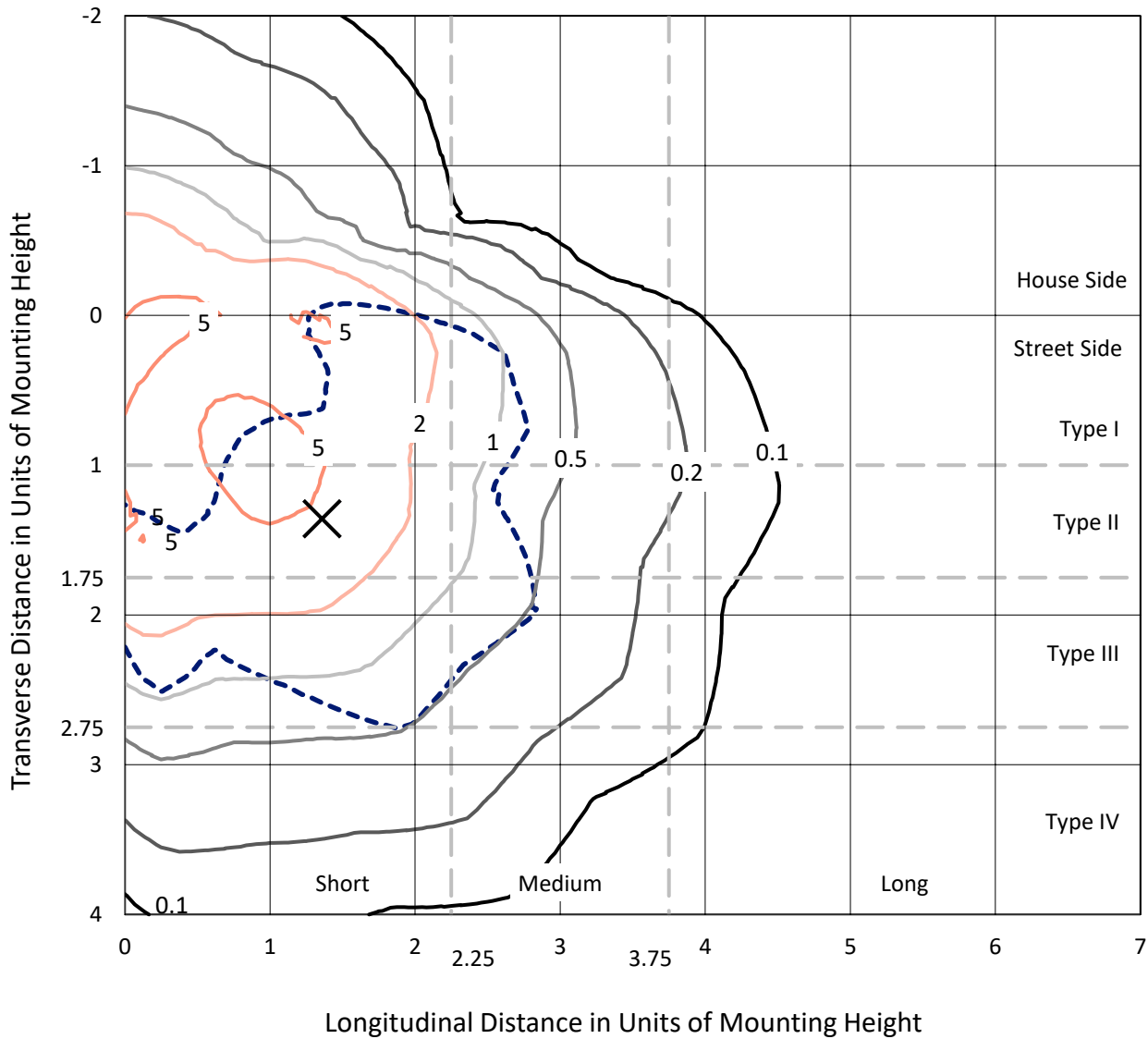
Lumens per Lamp: N/A  
Luminaire Lumens: 32954.2 lumens  
Efficiency: N/A  
Efficacy: 146.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): 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

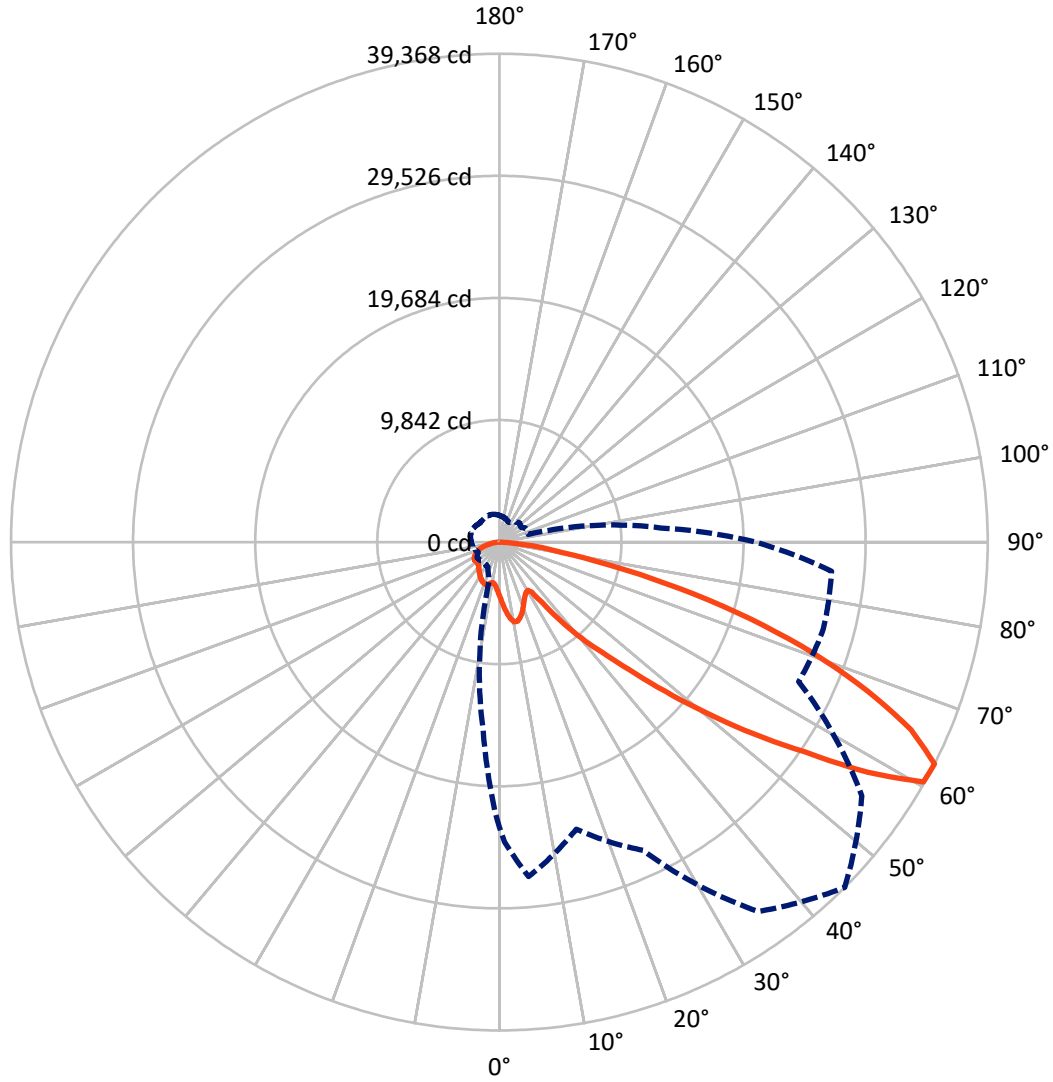
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7863.5	0.0	7863.5
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	25090.7	0.0	25090.7
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	32954.2	0.0	32954.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	427.2	1.3
10°-20°	1339.0	4.1
20°-30°	2079.8	6.3
30°-40°	2823.8	8.6
40°-50°	4475.6	13.6
50°-60°	7894.9	24.0
60°-70°	8784.3	26.7
70°-80°	4455.0	13.5
80°-90°	674.6	2.0
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°	32954.2	100.0
0°-180°	32954.2	100.0

**Coefficient of Utilization**



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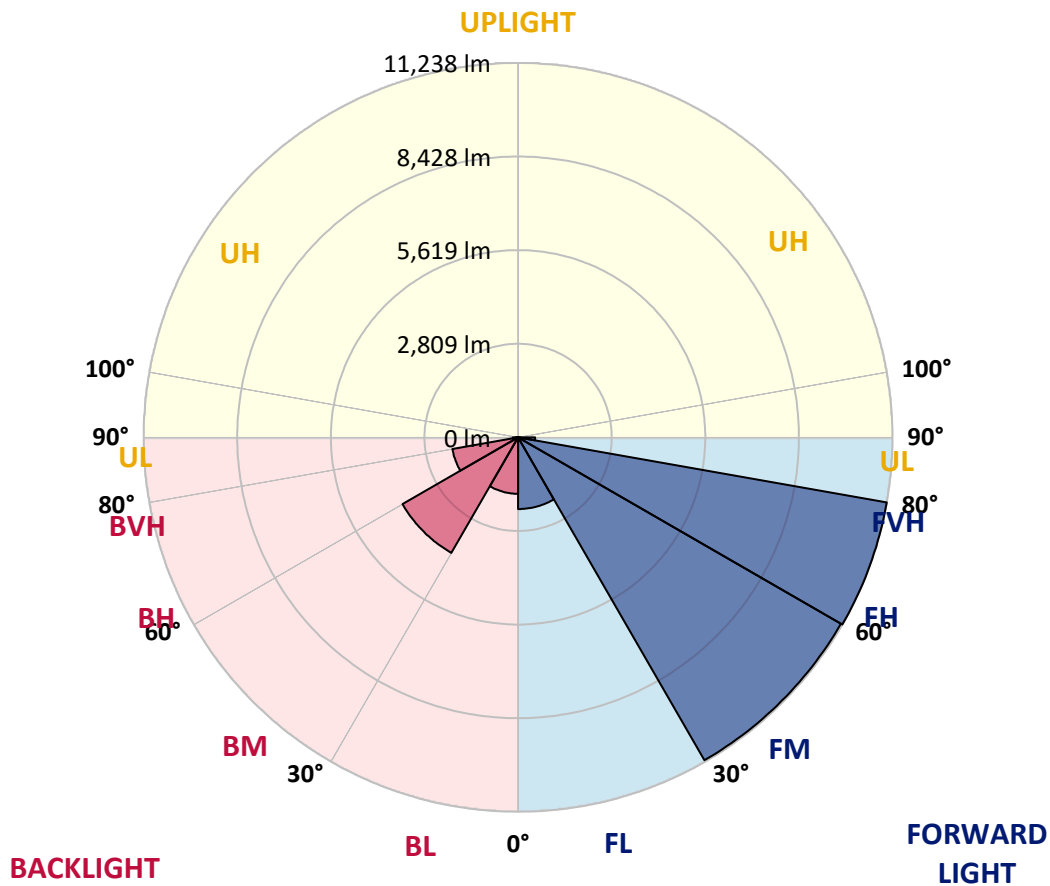
CATALOG NUMBER: GWS-SA4F-750-U-SLR-W

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2151.6	6.5			
FM (30°-60°)	11189.4	34.0			
FH (60°-80°)	11237.7	34.1			G4/12000
FVH (80°-90°)	512.0	1.6			G4/750
BL (0°-30°)	1694.4	5.1	B3/2500		
BM (30°-60°)	4004.9	12.2	B3/5000		
BH (60°-80°)	2001.6	6.1	B3/2500		G3/2500
BVH (80°-90°)	162.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4373.7	4373.7	4373.7	4373.7	4373.7	4373.7	4373.7	4373.7	4373.7	4373.7	4373.7
2.5°	4700.5	4698.0	4745.4	4817.8	4885.2	4915.1	4965.0	4960.0	4920.1	4867.7	4850.2
5°	5069.8	5079.8	5162.1	5321.8	5498.9	5573.8	5606.2	5593.7	5521.4	5429.1	5266.9
7.5°	5404.1	5421.6	5548.8	5788.3	6007.9	6107.7	6187.5	6172.6	6067.8	5895.6	5656.1
10°	5648.6	5668.6	5820.8	6102.7	6347.2	6434.5	6536.8	6541.8	6449.5	6217.5	5973.0
12.5°	5893.1	5913.1	6055.3	6312.3	6472.0	6474.5	6534.3	6566.8	6571.8	6464.5	6220.0
15°	6147.6	6165.1	6294.8	6439.5	6432.1	6292.3	6292.3	6354.7	6491.9	6569.3	6399.6
17.5°	6364.7	6387.1	6486.9	6439.5	6217.5	5965.5	5935.6	6015.4	6254.9	6551.8	6534.3
20°	6544.3	6561.8	6616.7	6302.3	5898.1	5568.8	5511.4	5603.7	5928.1	6444.5	6636.6
22.5°	6716.5	6726.5	6696.5	6122.7	5553.8	5177.1	5107.2	5204.5	5553.8	6254.9	6724.0
25°	6921.1	6911.1	6768.9	5935.6	5239.5	4867.7	4795.3	4905.1	5269.4	6002.9	6818.8
27.5°	7158.1	7120.7	6831.2	5733.5	4997.4	4638.2	4588.3	4705.5	5044.8	5770.9	6893.6
30°	7360.2	7287.8	6841.2	5553.8	4872.7	4540.9	4510.9	4620.7	4935.1	5613.7	6988.4
32.5°	7584.7	7484.9	6898.6	5506.4	4942.6	4775.4	4815.3	4822.8	4965.0	5568.8	7130.6
35°	7906.6	7776.8	7055.8	5643.6	5661.1	5943.0	6087.7	5893.1	5416.6	5668.6	7400.1
37.5°	8393.1	8228.4	7375.2	6237.4	7145.6	7776.8	8126.1	7682.0	6788.8	6045.3	7806.8
40°	8984.4	8774.8	7784.3	7335.2	8532.8	9543.3	10164.5	9513.3	8201.0	6985.9	8378.1
42.5°	9810.3	9590.7	8577.7	8413.1	9817.7	11322.2	12133.1	11162.5	9446.0	8201.0	9293.8
45°	11249.9	11037.8	10032.3	9493.4	11322.2	13512.8	14650.5	13300.7	10710.9	9421.0	11005.3
47.5°	13909.5	13660.0	12193.0	10691.0	13038.8	16357.1	17948.9	15982.8	12025.8	10818.2	13879.6
50°	17103.1	16863.6	14905.0	12108.1	14934.9	19398.4	21611.5	19134.0	13540.2	12517.3	17315.1
52.5°	20945.3	20900.4	18774.7	13899.5	16908.5	22641.9	25675.8	22624.5	15199.4	14805.2	21207.3
55°	24408.4	24847.5	23689.8	16631.5	19458.3	26716.2	29854.9	26431.8	17449.9	18587.6	25765.6
57.5°	26274.6	27454.7	29233.6	22205.3	23165.9	31586.4	35012.0	31079.9	21317.1	24884.9	29992.1
60°	25042.1	26379.4	29602.9	26401.9	26843.5	35488.6	39268.4	34987.1	25114.4	29256.1	29752.6
62.5°	22991.2	24191.3	27058.0	23951.8	27412.3	36346.8	39368.2	35668.2	26623.9	27038.1	26875.9
65°	20558.6	21768.7	24805.1	20907.9	25603.5	34308.4	36464.1	33664.7	23911.9	24428.3	24488.2
67.5°	17327.6	18445.4	21536.6	18590.1	23338.0	31317.0	32005.6	30810.5	22020.7	22844.0	21983.2
70°	12946.4	13954.4	16683.9	15107.1	19672.9	27419.8	26863.4	27040.6	19897.4	20715.8	18363.0
72.5°	8847.2	9605.7	11946.0	11871.1	15064.7	21950.8	21174.9	22854.0	16619.0	17704.4	13999.3
75°	6187.5	6778.9	8635.1	9378.6	11387.1	16269.7	15079.6	17105.6	12978.9	14528.3	10214.4
77.5°	3797.4	4189.1	5454.0	6948.5	7325.3	11135.1	9366.1	12871.6	9114.2	10596.2	6813.8
80°	1898.7	2088.3	2649.7	4368.7	4857.7	6561.8	5172.1	7472.5	6167.6	6561.8	3769.9
82.5°	573.8	633.7	775.9	1659.2	2517.4	3777.4	3056.3	4341.3	3368.2	3076.3	1484.5
85°	152.2	172.2	214.6	491.5	883.2	1354.8	1032.9	2103.3	1614.3	1135.2	558.9
87.5°	12.5	12.5	10.0	10.0	5.0	0.0	0.0	149.7	301.9	172.2	97.3
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4373.7	4373.7	4373.7	4373.7	4373.7	4373.7	4373.7	4373.7	4373.7	4373.7	4373.7
2.5°	4762.9	4752.9	4650.6	4575.8	4488.5	4403.6	4316.3	4239.0	4151.6	4064.3	4039.4
5°	5147.1	5077.3	4860.2	4678.1	4498.4	4341.3	4204.0	4061.8	3947.1	3834.8	3792.4
7.5°	5486.5	5364.2	5049.8	4772.9	4523.4	4328.8	4126.7	3919.6	3757.4	3597.8	3557.8
10°	5793.3	5631.2	5234.5	4885.2	4608.2	4386.2	4149.1	3872.2	3637.7	3443.1	3390.7
12.5°	6020.4	5843.2	5394.1	4992.4	4678.1	4428.6	4194.1	3949.5	3702.5	3450.6	3393.2
15°	6200.0	6015.4	5526.4	5074.8	4680.6	4358.7	4131.7	4046.9	3969.5	3722.5	3617.7
17.5°	6344.7	6150.1	5641.1	5124.7	4613.2	4146.7	3949.5	4074.3	4271.4	4116.7	3919.6
20°	6477.0	6279.9	5728.5	5159.6	4463.5	3854.7	3745.0	4009.4	4306.3	4301.3	4124.2
22.5°	6621.7	6429.6	5855.7	5179.6	4253.9	3557.8	3622.7	3914.6	4156.6	4229.0	4119.2
25°	6806.3	6636.6	6032.9	5224.5	4016.9	3353.2	3532.9	3792.4	3994.5	4011.9	3947.1
27.5°	7020.9	6893.6	6297.3	5329.3	3787.4	3248.5	3428.1	3620.2	3804.8	3812.3	3735.0
30°	7255.4	7170.6	6541.8	5416.6	3615.2	3216.0	3293.4	3448.1	3565.3	3585.3	3517.9
32.5°	7554.8	7479.9	6758.9	5359.2	3512.9	3208.5	3168.6	3248.5	3345.8	3345.8	3293.4
35°	7966.5	7861.7	6988.4	5139.7	3388.2	3178.6	3036.4	3058.8	3101.3	3108.7	3078.8
37.5°	8550.3	8378.1	7220.5	4705.5	3183.6	3071.3	2884.2	2856.7	2871.7	2891.7	2884.2
40°	9273.8	8991.9	7559.8	4184.1	2939.1	2864.2	2727.0	2674.6	2662.1	2702.1	2717.0
42.5°	10184.5	9752.9	7924.0	3697.6	2717.0	2627.2	2542.4	2497.5	2477.5	2544.9	2584.8
45°	11639.1	10928.0	8273.3	3216.0	2592.3	2425.1	2367.7	2335.3	2345.3	2425.1	2475.0
47.5°	14151.5	12721.9	8605.2	2911.6	2582.3	2280.4	2210.5	2218.0	2245.5	2330.3	2390.2
50°	17330.1	15124.6	8827.2	2784.4	2612.2	2193.1	2100.8	2140.7	2183.1	2265.4	2335.3
52.5°	20566.1	17362.5	8562.8	2714.5	2609.7	2195.6	1998.5	2118.2	2138.2	2220.5	2295.4
55°	22791.6	17612.0	7397.6	2607.3	2569.8	2295.4	1918.6	2108.3	2120.7	2195.6	2262.9
57.5°	23639.9	16758.8	5641.1	2637.2	2450.1	2372.7	1883.7	2038.4	2128.2	2193.1	2262.9
60°	22614.5	15149.5	3428.1	2714.5	2258.0	2367.7	1906.2	1911.2	2065.8	2175.6	2245.5
62.5°	20680.9	13083.7	2407.7	2495.0	2118.2	2235.5	1958.6	1761.5	1956.1	2088.3	2150.7
65°	18465.3	10653.6	1836.3	2148.2	2050.9	2030.9	1976.0	1629.2	1806.4	1936.1	1991.0
67.5°	16157.5	8280.8	1492.0	1601.8	1853.8	1836.3	1806.4	1512.0	1629.2	1721.5	1783.9
70°	13250.8	5793.3	1260.0	1202.6	1589.3	1646.7	1579.3	1364.8	1402.2	1497.0	1546.9
72.5°	9693.0	3610.2	1035.4	993.0	1277.4	1439.6	1404.7	1202.6	1220.0	1309.9	1349.8
75°	6971.0	2065.8	830.8	818.4	975.5	1232.5	1162.7	1035.4	1055.4	1122.7	1150.2
77.5°	4431.1	1150.2	641.2	658.7	698.6	920.6	993.0	885.7	885.7	925.6	948.1
80°	2372.7	658.7	469.1	476.5	489.0	703.6	783.4	686.1	686.1	658.7	686.1
82.5°	968.1	379.2	321.9	299.4	326.8	481.5	548.9	436.6	456.6	411.7	421.7
85°	319.4	189.6	159.7	157.2	154.7	212.1	264.5	217.1	259.5	164.7	172.2
87.5°	42.4	34.9	20.0	15.0	17.5	7.5	15.0	17.5	17.5	12.5	12.5
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°	4373.7	4373.7	4373.7	4373.7	4373.7	4373.7	4373.7	4373.7	4373.7	4373.7	4373.7
2.5°	4021.9	4001.9	3929.6	3947.1	3934.6	3914.6	3934.6	3897.2	3927.1	3937.1	3999.4
5°	3759.9	3712.5	3642.7	3607.7	3600.3	3580.3	3582.8	3565.3	3570.3	3612.7	3682.6
7.5°	3525.4	3480.5	3425.6	3400.7	3378.2	3355.7	3353.2	3350.8	3370.7	3408.1	3475.5
10°	3355.7	3330.8	3308.3	3318.3	3308.3	3298.4	3280.9	3280.9	3313.3	3380.7	3463.0
12.5°	3355.7	3350.8	3355.7	3385.7	3383.2	3385.7	3363.2	3375.7	3465.5	3580.3	3697.6
15°	3535.4	3495.5	3495.5	3510.4	3505.4	3505.4	3505.4	3557.8	3762.4	3939.6	4064.3
17.5°	3754.9	3637.7	3587.8	3580.3	3577.8	3577.8	3587.8	3700.1	4019.4	4206.5	4278.9
20°	3907.1	3685.1	3602.7	3570.3	3572.8	3577.8	3607.7	3762.4	4114.2	4209.0	4191.6
22.5°	3934.6	3647.7	3547.9	3500.5	3507.9	3512.9	3557.8	3722.5	3984.5	3999.4	3964.5
25°	3807.3	3542.9	3435.6	3398.2	3408.1	3405.6	3445.6	3565.3	3752.4	3747.5	3727.5
27.5°	3617.7	3375.7	3295.9	3270.9	3288.4	3268.4	3280.9	3373.2	3517.9	3512.9	3505.4
30°	3423.1	3213.5	3141.2	3128.7	3151.2	3121.2	3123.7	3201.1	3300.9	3295.9	3293.4
32.5°	3228.5	3051.4	2986.5	2986.5	3008.9	2976.5	2981.5	3048.9	3116.2	3096.3	3096.3
35°	3043.9	2919.1	2866.7	2856.7	2874.2	2851.8	2861.7	2924.1	2949.1	2921.6	2904.2
37.5°	2881.7	2826.8	2774.4	2739.5	2742.0	2744.5	2774.4	2821.8	2806.8	2766.9	2744.5
40°	2732.0	2732.0	2682.1	2617.2	2609.7	2627.2	2677.1	2729.5	2687.1	2642.2	2614.7
42.5°	2624.7	2647.2	2599.8	2534.9	2519.9	2549.9	2604.8	2642.2	2592.3	2542.4	2505.0
45°	2524.9	2579.8	2547.4	2475.0	2455.1	2490.0	2559.8	2574.8	2507.5	2460.0	2432.6
47.5°	2455.1	2529.9	2507.5	2437.6	2407.7	2457.6	2529.9	2527.4	2442.6	2392.7	2370.2
50°	2405.2	2500.0	2497.5	2437.6	2405.2	2467.5	2532.4	2500.0	2407.7	2355.3	2332.8
52.5°	2365.2	2497.5	2514.9	2480.0	2457.6	2512.4	2552.4	2490.0	2382.7	2327.8	2310.3
55°	2347.8	2507.5	2519.9	2487.5	2467.5	2517.4	2552.4	2509.9	2382.7	2332.8	2317.8
57.5°	2352.8	2495.0	2497.5	2452.6	2417.6	2480.0	2534.9	2522.4	2410.1	2352.8	2335.3
60°	2322.8	2427.6	2432.6	2362.7	2322.8	2397.7	2495.0	2487.5	2397.7	2337.8	2305.4
62.5°	2223.0	2315.3	2317.8	2253.0	2195.6	2302.9	2410.1	2407.7	2325.3	2265.4	2228.0
65°	2055.9	2153.2	2178.1	2115.7	2070.8	2185.6	2297.9	2292.9	2210.5	2155.7	2118.2
67.5°	1848.8	1953.6	2001.0	1958.6	1941.1	2045.9	2150.7	2148.2	2080.8	2028.4	1996.0
70°	1596.8	1684.1	1763.9	1763.9	1751.5	1871.2	1983.5	1973.5	1911.2	1871.2	1846.3
72.5°	1387.2	1454.6	1479.5	1504.5	1541.9	1666.6	1761.5	1768.9	1724.0	1704.1	1724.0
75°	1180.1	1222.5	1245.0	1225.0	1289.9	1419.6	1544.4	1556.9	1509.5	1477.0	1484.5
77.5°	970.5	1018.0	1040.4	995.5	990.5	1155.2	1307.4	1334.8	1294.9	1245.0	1260.0
80°	701.1	763.5	800.9	770.9	761.0	833.3	1042.9	1072.8	1035.4	995.5	1018.0
82.5°	429.1	464.1	474.0	504.0	566.4	596.3	671.1	770.9	743.5	708.6	770.9
85°	169.7	202.1	224.5	254.5	296.9	351.8	414.2	494.0	449.1	434.1	511.5
87.5°	10.0	2.5	0.0	5.0	42.4	82.3	177.1	244.5	204.6	219.6	264.5
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°	4373.7	4373.7	4373.7	4373.7	4373.7	4373.7	4373.7	4373.7	4373.7	4373.7
2.5°	4049.3	4114.2	4201.5	4273.9	4366.2	4453.5	4543.4	4633.2	4680.6	4700.5
5°	3762.4	3882.2	4021.9	4176.6	4356.2	4545.8	4738.0	4935.1	5059.8	5069.8
7.5°	3590.3	3762.4	3954.5	4149.1	4371.2	4633.2	4937.6	5241.9	5369.2	5404.1
10°	3645.2	3837.3	3989.5	4171.6	4416.1	4743.0	5102.2	5459.0	5606.2	5648.6
12.5°	3864.7	3902.1	3949.5	4116.7	4416.1	4837.8	5271.9	5696.0	5853.2	5893.1
15°	4046.9	3867.2	3782.4	3959.5	4356.2	4920.1	5451.5	5920.6	6110.2	6147.6
17.5°	4061.8	3752.4	3567.8	3727.5	4251.4	4977.5	5623.7	6170.1	6329.8	6364.7
20°	3909.6	3630.2	3390.7	3488.0	4109.2	5002.4	5748.4	6352.2	6509.4	6544.3
22.5°	3737.5	3530.4	3270.9	3265.9	3937.1	5029.9	5898.1	6524.4	6694.0	6716.5
25°	3575.3	3393.2	3173.6	3103.8	3737.5	5082.3	6100.2	6783.8	6913.6	6921.1
27.5°	3385.7	3246.0	3096.3	3028.9	3562.8	5182.1	6399.6	7093.2	7170.6	7158.1
30°	3213.5	3108.7	3041.4	3021.4	3453.0	5256.9	6684.0	7397.6	7402.6	7360.2
32.5°	3031.4	2991.5	2991.5	3056.3	3363.2	5239.5	6916.1	7694.5	7647.1	7584.7
35°	2869.2	2876.7	2929.1	3081.3	3213.5	5064.8	7138.1	8066.3	7996.4	7906.6
37.5°	2714.5	2771.9	2846.8	2994.0	3016.4	4805.3	7397.6	8592.7	8505.4	8393.1
40°	2582.3	2669.6	2756.9	2829.3	2806.8	4436.1	7759.4	9211.5	9114.2	8984.4
42.5°	2477.5	2562.3	2659.6	2667.1	2674.6	4051.8	8143.6	9969.9	9952.5	9810.3
45°	2410.1	2465.0	2557.4	2544.9	2667.1	3627.7	8497.9	11127.6	11357.1	11249.9
47.5°	2365.2	2407.7	2417.6	2470.0	2732.0	3248.5	8954.5	13393.0	14031.8	13909.5
50°	2340.3	2382.7	2270.4	2475.0	2742.0	3004.0	9585.7	16237.3	17265.2	17103.1
52.5°	2337.8	2327.8	2158.2	2527.4	2687.1	2854.3	9915.0	18313.1	20593.5	20945.3
55°	2342.8	2218.0	2100.8	2542.4	2577.3	2799.4	8812.3	19311.1	23664.9	24408.4
57.5°	2297.9	2098.3	2133.2	2482.5	2370.2	2946.6	6514.4	18954.3	24892.4	26274.6
60°	2213.0	1983.5	2193.1	2320.3	2158.2	2694.6	4486.0	17362.5	23620.0	25042.1
62.5°	2090.8	1903.7	2185.6	2110.8	2080.8	2205.6	3083.8	15134.5	21601.5	22991.2
65°	1953.6	1838.8	2068.3	1908.7	1926.1	1696.6	2180.6	12619.6	19191.4	20558.6
67.5°	1806.4	1798.9	1896.2	1699.1	1626.7	1344.8	1589.3	10114.6	16095.1	17327.6
70°	1639.2	1694.1	1724.0	1509.5	1319.8	1055.4	1180.1	7073.3	11873.6	12946.4
72.5°	1472.0	1477.0	1519.4	1312.4	988.0	845.8	885.7	4283.9	8066.3	8847.2
75°	1302.4	1255.0	1294.9	1067.9	736.0	693.6	683.6	2647.2	5571.3	6187.5
77.5°	1120.2	1067.9	1015.5	803.4	591.3	536.4	523.9	1484.5	3418.1	3797.4
80°	910.7	840.8	758.5	588.8	431.6	384.2	381.7	723.5	1704.1	1898.7
82.5°	708.6	576.3	553.9	366.8	267.0	234.5	249.5	276.9	514.0	573.8
85°	496.5	419.2	294.4	147.2	119.8	97.3	94.8	82.3	137.2	152.2
87.5°	276.9	182.1	94.8	17.5	20.0	22.5	17.5	12.5	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)