

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: P638702

Luminaire Tested: GWS-SA4F-735-U-SLL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638702  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-37)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4F-735-U-SLL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

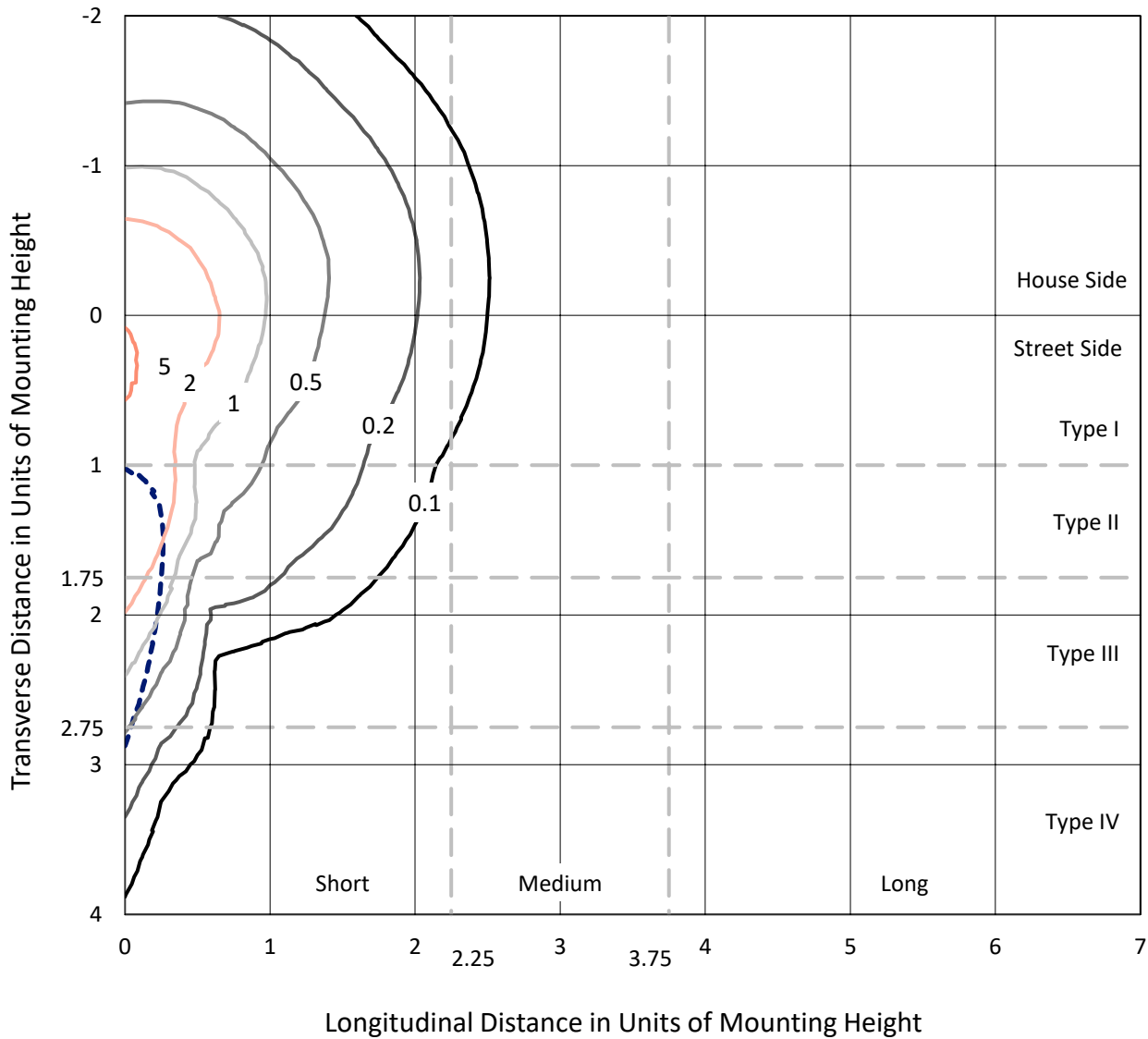
Lumens per Lamp: N/A  
Luminaire Lumens: 31452.1 lumens  
Efficiency: N/A  
Efficacy: 139.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): 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

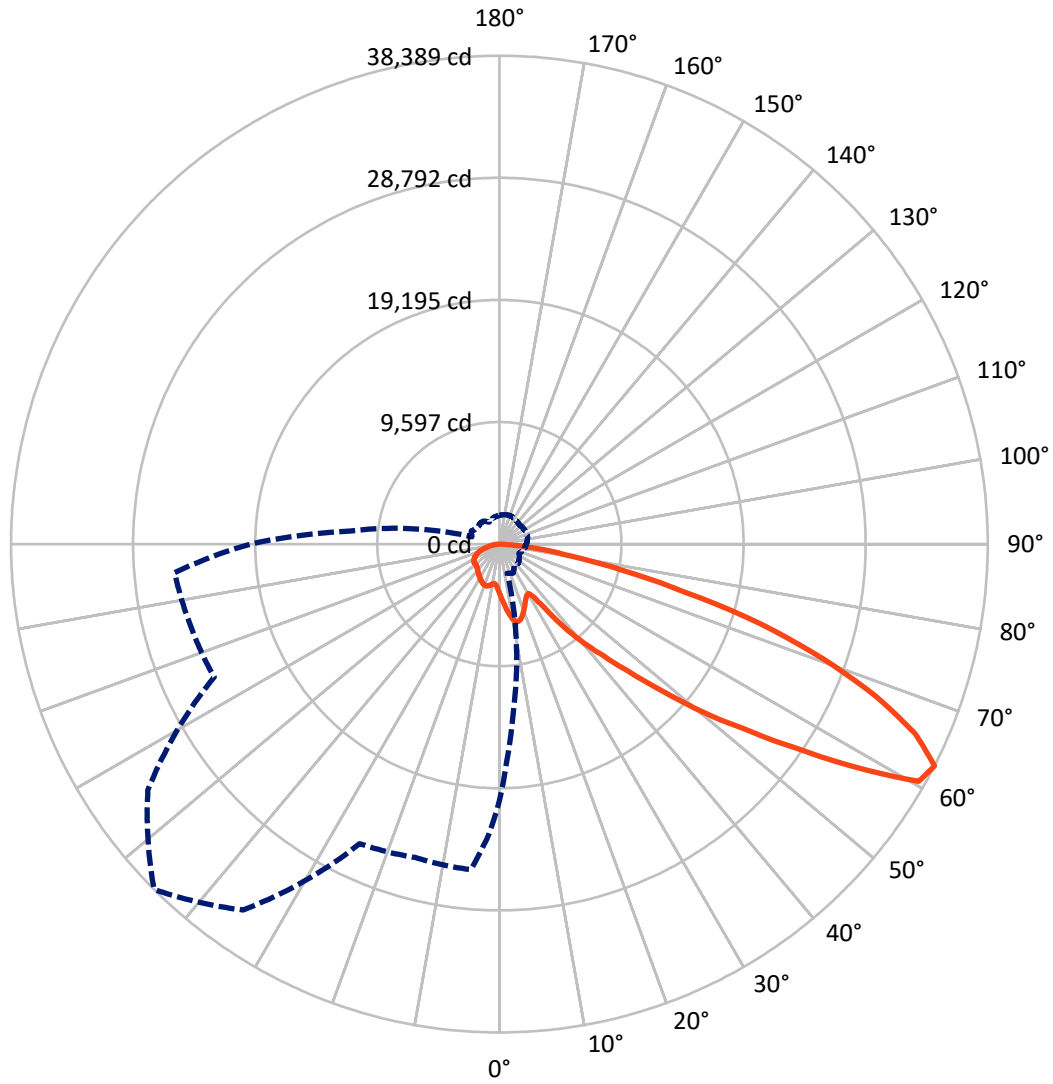
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7520.2	0.0	7520.2
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	23931.9	0.0	23931.9
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	31452.1	0.0	31452.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	386.3	1.2
10°-20°	1255.5	4.0
20°-30°	1976.5	6.3
30°-40°	2709.2	8.6
40°-50°	4227.1	13.4
50°-60°	7288.4	23.2
60°-70°	8446.4	26.9
70°-80°	4458.4	14.2
80°-90°	704.3	2.2
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°	31452.1	100.0
0°-180°	31452.1	100.0

**Coefficient of Utilization**







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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3921.4	3921.4	3921.4	3921.4	3921.4	3921.4	3921.4	3921.4	3921.4	3921.4	3921.4
2.5°	4260.6	4243.8	4219.7	4137.9	4087.4	4029.7	3969.5	3899.8	3820.4	3765.0	3709.7
5°	4621.5	4595.0	4537.3	4342.4	4207.7	4061.0	3938.3	3798.7	3661.6	3567.8	3474.0
7.5°	4967.9	4934.3	4845.2	4546.9	4328.0	4116.3	3931.0	3729.0	3524.5	3384.9	3274.3
10°	5314.4	5244.6	5131.5	4741.8	4453.1	4207.7	3996.0	3748.2	3476.4	3286.3	3168.4
12.5°	5579.0	5514.1	5391.4	4919.8	4578.2	4270.3	4032.1	3803.5	3572.6	3370.5	3250.2
15°	5826.8	5742.6	5603.1	5085.8	4681.7	4267.9	3959.9	3760.2	3726.6	3676.0	3519.7
17.5°	6004.8	5927.8	5783.5	5220.5	4739.4	4193.3	3760.2	3642.4	3793.9	3947.9	3798.7
20°	6161.2	6072.2	5925.4	5314.4	4751.4	4027.3	3517.3	3519.7	3757.8	3969.5	3933.5
22.5°	6293.5	6194.9	6065.0	5420.2	4746.6	3796.3	3305.5	3449.9	3688.1	3854.1	3858.9
25°	6457.1	6375.3	6267.1	5576.6	4746.6	3560.6	3151.6	3365.7	3570.2	3709.7	3704.9
27.5°	6656.8	6601.5	6512.5	5814.8	4789.9	3363.3	3065.0	3257.4	3418.6	3538.9	3536.5
30°	6880.5	6830.0	6762.7	6067.4	4864.5	3216.5	3016.9	3122.7	3240.6	3336.8	3336.8
32.5°	7109.1	7089.8	7017.7	6269.5	4806.8	3170.8	2976.0	2988.0	3050.5	3129.9	3122.7
35°	7426.7	7407.4	7316.0	6425.8	4556.6	3105.9	2911.0	2850.9	2858.1	2908.6	2925.4
37.5°	7891.0	7862.1	7727.4	6608.7	4178.8	2942.3	2805.1	2706.5	2684.9	2706.5	2737.8
40°	8451.5	8408.2	8225.4	6856.5	3743.4	2720.9	2639.1	2557.3	2521.3	2528.5	2564.6
42.5°	9154.0	9062.6	8800.4	7118.7	3312.8	2526.1	2453.9	2403.4	2362.5	2357.7	2427.4
45°	10294.3	10044.1	9627.9	7352.1	2949.5	2422.6	2287.9	2251.8	2218.1	2237.4	2319.2
47.5°	12286.3	11824.4	11013.7	7551.8	2728.2	2425.0	2155.6	2117.1	2114.7	2153.2	2244.6
50°	15024.1	14357.7	13106.7	7686.5	2612.7	2453.9	2076.2	2013.6	2059.3	2097.8	2184.5
52.5°	17646.4	16628.8	15139.6	7684.1	2562.2	2458.7	2097.8	1917.4	2059.3	2069.0	2150.8
55°	19886.2	18043.4	15688.1	6895.0	2490.0	2439.5	2182.0	1842.8	2032.9	2069.0	2133.9
57.5°	21666.5	18943.1	15647.2	5569.4	2708.9	2333.6	2232.6	1826.0	1955.9	2073.8	2148.4
60°	21469.2	18531.7	14639.2	3418.6	2687.3	2146.0	2225.3	1857.3	1826.0	2008.8	2131.5
62.5°	20158.1	17057.0	12904.6	2372.1	2523.7	2037.7	2107.5	1912.6	1705.7	1915.0	2049.7
65°	18322.4	15154.0	10753.8	1818.8	2090.6	2042.5	1907.8	1874.1	1599.8	1765.8	1910.2
67.5°	15895.0	12794.0	8490.0	1441.1	1457.9	1768.3	1732.2	1664.8	1501.2	1633.5	1763.4
70°	11949.5	9336.8	5841.2	1159.6	1104.3	1477.2	1556.5	1496.4	1405.0	1443.5	1580.6
72.5°	8420.2	6096.3	3199.7	919.0	851.6	1135.5	1352.0	1342.4	1241.4	1270.3	1405.0
75°	6257.4	4313.6	1999.2	726.5	692.9	813.2	1133.1	1162.0	1077.8	1111.5	1214.9
77.5°	4164.4	2793.1	1111.5	538.9	538.9	594.2	844.4	979.2	916.6	943.1	1015.2
80°	2297.5	1421.8	555.7	353.7	363.3	409.0	615.9	704.9	707.3	772.3	791.5
82.5°	726.5	452.3	247.8	206.9	194.9	233.4	397.0	505.2	471.5	601.4	553.3
85°	166.0	105.9	45.7	45.7	50.5	77.0	151.6	269.4	344.0	413.8	300.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	105.9	156.4	139.5
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3921.4	3921.4	3921.4	3921.4	3921.4	3921.4	3921.4	3921.4	3921.4	3921.4	3921.4
2.5°	3676.0	3627.9	3613.5	3572.6	3567.8	3529.3	3514.8	3514.8	3531.7	3531.7	3548.5
5°	3435.5	3375.3	3341.6	3293.5	3281.5	3252.6	3233.4	3235.8	3257.4	3271.9	3300.7
7.5°	3223.7	3182.9	3158.8	3137.1	3132.3	3127.5	3105.9	3103.5	3110.7	3132.3	3154.0
10°	3134.7	3105.9	3113.1	3129.9	3156.4	3170.8	3151.6	3142.0	3134.7	3149.2	3168.4
12.5°	3221.3	3192.5	3206.9	3235.8	3271.9	3286.3	3279.1	3276.7	3283.9	3339.2	3380.1
15°	3411.4	3356.1	3336.8	3348.8	3377.7	3392.2	3384.9	3394.6	3440.3	3584.6	3688.1
17.5°	3647.2	3512.4	3435.5	3413.8	3425.8	3437.9	3437.9	3461.9	3541.3	3753.0	3882.9
20°	3774.7	3599.1	3469.1	3416.2	3421.0	3433.1	3433.1	3466.7	3555.7	3781.9	3866.1
22.5°	3741.0	3579.8	3421.0	3363.3	3365.7	3375.3	3375.3	3404.2	3483.6	3683.3	3721.7
25°	3608.7	3466.7	3310.4	3259.8	3264.6	3281.5	3276.7	3293.5	3353.7	3517.3	3538.9
27.5°	3449.9	3324.8	3170.8	3132.3	3154.0	3187.7	3158.8	3161.2	3216.5	3353.7	3356.1
30°	3279.1	3175.6	3038.5	3009.6	3050.5	3067.4	3040.9	3040.9	3096.2	3190.1	3187.7
32.5°	3093.8	3028.9	2930.2	2899.0	2944.7	2971.1	2937.5	2942.3	2985.6	3048.1	3024.1
35°	2920.6	2886.9	2841.2	2819.6	2848.4	2872.5	2850.9	2860.5	2901.4	2918.2	2884.5
37.5°	2754.6	2749.8	2754.6	2754.6	2761.8	2769.1	2754.6	2778.7	2814.8	2793.1	2754.6
40°	2610.3	2629.5	2675.2	2663.2	2656.0	2663.2	2653.6	2694.5	2730.6	2692.1	2646.4
42.5°	2490.0	2526.1	2595.8	2595.8	2581.4	2586.2	2581.4	2631.9	2658.4	2605.5	2554.9
45°	2386.5	2439.5	2528.5	2540.5	2516.4	2516.4	2526.1	2588.6	2598.2	2526.1	2473.1
47.5°	2314.4	2379.3	2480.4	2502.0	2465.9	2463.5	2490.0	2557.3	2557.3	2473.1	2413.0
50°	2263.8	2336.0	2456.3	2485.2	2449.1	2439.5	2482.8	2547.7	2533.3	2432.2	2372.1
52.5°	2230.2	2304.7	2453.9	2494.8	2470.7	2461.1	2504.4	2550.1	2514.0	2405.8	2343.2
55°	2208.5	2290.3	2461.1	2494.8	2468.3	2451.5	2494.8	2535.7	2516.4	2391.3	2331.2
57.5°	2220.5	2302.3	2451.5	2468.3	2437.1	2408.2	2458.7	2516.4	2509.2	2396.2	2336.0
60°	2201.3	2275.9	2398.6	2403.4	2350.4	2304.7	2379.3	2465.9	2465.9	2379.3	2326.4
62.5°	2112.3	2186.9	2295.1	2299.9	2239.8	2189.3	2275.9	2379.3	2376.9	2307.1	2251.8
65°	1965.5	2035.3	2158.0	2170.0	2109.9	2056.9	2146.0	2242.2	2249.4	2186.9	2138.7
67.5°	1804.3	1866.9	1958.3	2006.4	1955.9	1900.6	1982.4	2073.8	2071.4	1996.8	1946.3
70°	1611.9	1669.6	1753.8	1794.7	1763.4	1710.5	1785.1	1833.2	1811.6	1775.5	1741.8
72.5°	1421.8	1477.2	1556.5	1556.5	1522.9	1472.3	1494.0	1580.6	1607.1	1580.6	1558.9
75°	1222.1	1270.3	1325.6	1337.6	1263.0	1171.6	1272.7	1347.2	1378.5	1366.5	1340.0
77.5°	1017.6	1053.7	1135.5	1113.9	974.3	926.2	1008.0	1118.7	1140.3	1133.1	1097.0
80°	784.3	805.9	892.5	849.2	741.0	709.7	745.8	832.4	837.2	813.2	767.4
82.5°	526.9	555.7	613.5	529.3	526.9	498.0	469.1	478.8	522.1	517.2	486.0
85°	269.4	283.9	339.2	317.6	271.9	235.8	223.7	238.2	214.1	194.9	168.4
87.5°	113.1	122.7	168.4	93.8	28.9	0.0	0.0	14.4	21.7	31.3	33.7
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°	3921.4	3921.4	3921.4	3921.4	3921.4	3921.4	3921.4	3921.4	3921.4	3921.4	3921.4
2.5°	3587.0	3613.5	3678.4	3760.2	3839.6	3921.4	4010.4	4065.8	4133.1	4219.7	4222.1
5°	3336.8	3397.0	3490.8	3615.9	3745.8	3895.0	4068.2	4212.5	4385.7	4522.9	4578.2
7.5°	3182.9	3269.5	3387.3	3546.1	3716.9	3902.2	4128.3	4371.3	4655.2	4838.0	4946.3
10°	3197.3	3329.6	3447.5	3582.2	3736.2	3935.9	4227.0	4549.3	4898.2	5138.8	5273.5
12.5°	3454.7	3594.2	3572.6	3565.4	3668.8	3911.8	4306.4	4729.8	5155.6	5396.2	5557.4
15°	3779.5	3832.4	3627.9	3474.0	3536.5	3825.2	4349.7	4891.0	5369.7	5663.2	5822.0
17.5°	3945.5	3839.6	3591.8	3360.9	3344.0	3692.9	4371.3	5054.5	5610.3	5903.8	6072.2
20°	3868.5	3714.5	3505.2	3286.3	3166.0	3512.4	4359.3	5184.5	5829.2	6156.4	6293.5
22.5°	3702.5	3567.8	3404.2	3194.9	3021.7	3315.2	4328.0	5314.4	6024.1	6353.7	6474.0
25°	3522.1	3421.0	3286.3	3103.5	2939.9	3142.0	4306.4	5487.6	6247.8	6563.0	6640.0
27.5°	3341.6	3267.1	3156.4	3014.4	2920.6	3021.7	4313.6	5713.7	6536.5	6834.8	6803.6
30°	3163.6	3098.6	3021.7	2959.1	2918.2	2992.8	4294.3	5954.3	6854.1	7130.7	6945.5
32.5°	2995.2	2935.1	2886.9	2896.6	2920.6	3004.8	4195.7	6173.2	7145.2	7380.9	7099.5
35°	2850.9	2788.3	2788.3	2822.0	2911.0	2963.9	3940.7	6344.0	7467.5	7703.3	7318.4
37.5°	2716.1	2660.8	2696.9	2752.2	2836.4	2853.3	3613.5	6510.0	7936.7	8158.0	7657.6
40°	2598.2	2542.9	2607.9	2677.6	2720.9	2713.7	3281.5	6741.0	8490.0	8718.6	8107.5
42.5°	2504.4	2453.9	2511.6	2600.7	2607.9	2615.1	3038.5	6962.3	9132.4	9423.5	8882.1
45°	2427.4	2391.3	2420.2	2509.2	2509.2	2619.9	2886.9	7147.6	10099.5	10614.3	10304.0
47.5°	2367.3	2345.6	2360.1	2388.9	2437.1	2706.5	2790.7	7289.5	11860.5	12870.9	12558.2
50°	2333.6	2312.0	2331.2	2271.1	2415.4	2749.8	2759.4	7397.8	14182.1	15765.1	15377.8
52.5°	2304.7	2297.5	2309.6	2170.0	2463.5	2720.9	2735.4	7253.4	15738.6	18613.5	18996.1
55°	2295.1	2299.9	2242.2	2095.4	2521.3	2624.7	2663.2	6221.4	16162.0	21069.8	23444.4
57.5°	2299.9	2285.5	2138.7	2102.7	2523.7	2432.2	2766.6	4438.7	15546.2	22138.0	27796.4
60°	2283.1	2210.9	2013.6	2167.6	2413.0	2206.1	2692.1	2894.2	13922.3	21317.6	28049.0
62.5°	2208.5	2102.7	1905.4	2203.7	2215.7	2071.4	2444.3	2230.2	11757.1	19561.4	25614.4
65°	2100.2	1958.3	1814.0	2129.1	2016.0	2008.8	1838.0	1787.5	9454.7	17470.8	23304.8
67.5°	1922.2	1780.3	1746.6	1958.3	1814.0	1780.3	1477.2	1482.0	7544.5	15243.0	20983.2
70°	1720.1	1578.2	1604.7	1770.7	1614.3	1479.6	1195.7	1234.2	5723.4	12700.1	17853.3
72.5°	1587.8	1397.8	1400.2	1558.9	1419.4	1198.1	984.0	1017.6	3632.7	9572.6	14194.1
75°	1340.0	1231.8	1178.8	1263.0	1205.3	933.4	827.6	820.4	2153.2	6861.3	10628.7
77.5°	1118.7	1034.5	1008.0	1041.7	899.8	690.5	666.4	654.4	1219.7	4395.4	6964.7
80°	810.7	789.1	786.7	803.5	692.9	507.6	507.6	510.0	656.8	2386.5	3926.2
82.5°	514.8	563.0	498.0	553.3	471.5	360.9	336.8	382.5	377.7	1017.6	1655.2
85°	214.1	293.5	274.3	291.1	223.7	197.3	211.7	228.5	218.9	392.1	644.7
87.5°	40.9	48.1	52.9	50.5	50.5	62.6	69.8	84.2	84.2	113.1	194.9
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°	358°	360°
0°	3921.4	3921.4	3921.4	3921.4	3921.4	3921.4	3921.4	3921.4	3921.4	3921.4
2.5°	4313.6	4383.3	4368.9	4400.2	4359.3	4373.7	4291.9	4270.3	4255.8	4260.6
5°	4756.2	4898.2	4924.6	4977.6	4941.5	4941.5	4797.1	4688.9	4650.4	4621.5
7.5°	5206.1	5410.6	5545.3	5559.8	5540.5	5502.0	5292.7	5097.9	5028.1	4967.9
10°	5605.5	5850.9	6002.4	6074.6	6038.5	5978.4	5718.5	5451.5	5367.3	5314.4
12.5°	5911.0	6127.5	6228.6	6276.7	6271.9	6250.2	6038.5	5749.8	5660.8	5579.0
15°	6108.3	6216.5	6178.0	6175.6	6209.3	6295.9	6231.0	6004.8	5901.4	5826.8
17.5°	6235.8	6132.3	5961.5	5882.1	5954.3	6158.8	6308.0	6180.5	6086.6	6004.8
20°	6281.5	5913.4	5665.6	5518.9	5603.1	5899.0	6267.1	6308.0	6228.6	6161.2
22.5°	6228.6	5646.4	5309.6	5136.3	5218.1	5571.8	6146.8	6411.4	6358.5	6293.5
25°	6098.7	5367.3	4963.1	4806.8	4895.8	5256.6	5932.7	6507.6	6510.0	6457.1
27.5°	5937.5	5109.9	4720.1	4573.4	4660.0	4996.8	5723.4	6591.8	6676.0	6656.8
30°	5773.9	4955.9	4604.7	4501.2	4566.2	4864.5	5509.2	6678.5	6846.9	6880.5
32.5°	5699.3	5030.5	4876.5	4922.2	4838.0	4941.5	5432.3	6801.1	7053.8	7109.1
35°	5797.9	5692.1	6081.8	6262.3	5963.9	5571.8	5530.9	6986.4	7344.9	7426.7
37.5°	6276.7	7109.1	7691.3	8326.4	7809.2	6945.5	6019.3	7301.6	7761.1	7891.0
40°	7318.4	8345.7	9397.0	10217.4	9435.5	8273.5	6947.9	7770.7	8333.6	8451.5
42.5°	8299.9	9505.2	10953.5	12014.5	10999.2	9358.5	7948.7	8559.8	9089.0	9154.0
45°	9262.3	10643.2	12837.3	14312.0	12933.5	10390.6	8971.2	9892.6	10291.9	10294.3
47.5°	10390.6	11925.5	15199.7	17300.0	15500.5	11533.3	9931.1	12002.4	12558.2	12286.3
50°	11740.2	13200.5	17632.0	20776.3	18630.4	12938.3	11150.8	14574.2	15332.1	15024.1
52.5°	13547.0	14605.5	20312.0	24166.1	22041.8	14538.1	12919.1	17971.2	18221.4	17646.4
55°	16089.9	16633.6	23752.3	28352.1	25850.1	16508.5	15505.3	22234.2	21534.2	19886.2
57.5°	21880.6	19842.9	28169.3	33127.6	30158.9	20088.3	21173.3	26935.1	24445.2	21666.5
60°	26725.8	23740.3	32256.7	37867.0	33851.8	24033.8	26494.9	27753.1	24336.9	21469.2
62.5°	25092.3	24733.9	33731.5	38389.1	35112.4	25975.2	25506.1	25691.4	22749.1	20158.1
65°	22015.3	22816.4	32415.5	35913.5	33714.6	24235.9	23071.5	23786.0	20932.7	18322.4
67.5°	20199.0	20788.4	30074.7	31951.2	31174.1	22354.5	21178.1	20660.9	18113.1	15895.0
70°	18341.7	18830.1	26788.4	26978.4	27211.8	19227.0	17316.8	15777.1	13501.3	11949.5
72.5°	15849.3	15875.8	22633.6	21531.8	21974.4	15045.8	13939.1	11795.6	9827.6	8420.2
75°	13296.8	12570.2	17915.9	15050.6	15938.3	11704.1	11574.2	8889.4	7412.2	6257.4
77.5°	10138.0	9288.7	13087.5	9897.4	11194.1	7794.7	8701.7	6028.9	5215.7	4164.4
80°	6806.0	6276.7	7231.8	5586.2	7323.2	5372.1	5675.2	3416.2	2961.5	2297.5
82.5°	3589.4	3065.0	4469.9	3312.8	4417.0	2951.9	2129.1	1056.1	899.8	726.5
85°	1390.5	1609.5	2191.7	1178.8	1712.9	1053.7	615.9	262.2	218.9	166.0
87.5°	269.4	416.2	228.5	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

(END OF REPORT)