

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: P639199

Luminaire Tested: GWS-SA5B-735-U-SLR-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639199  
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-SA5B-735-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) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

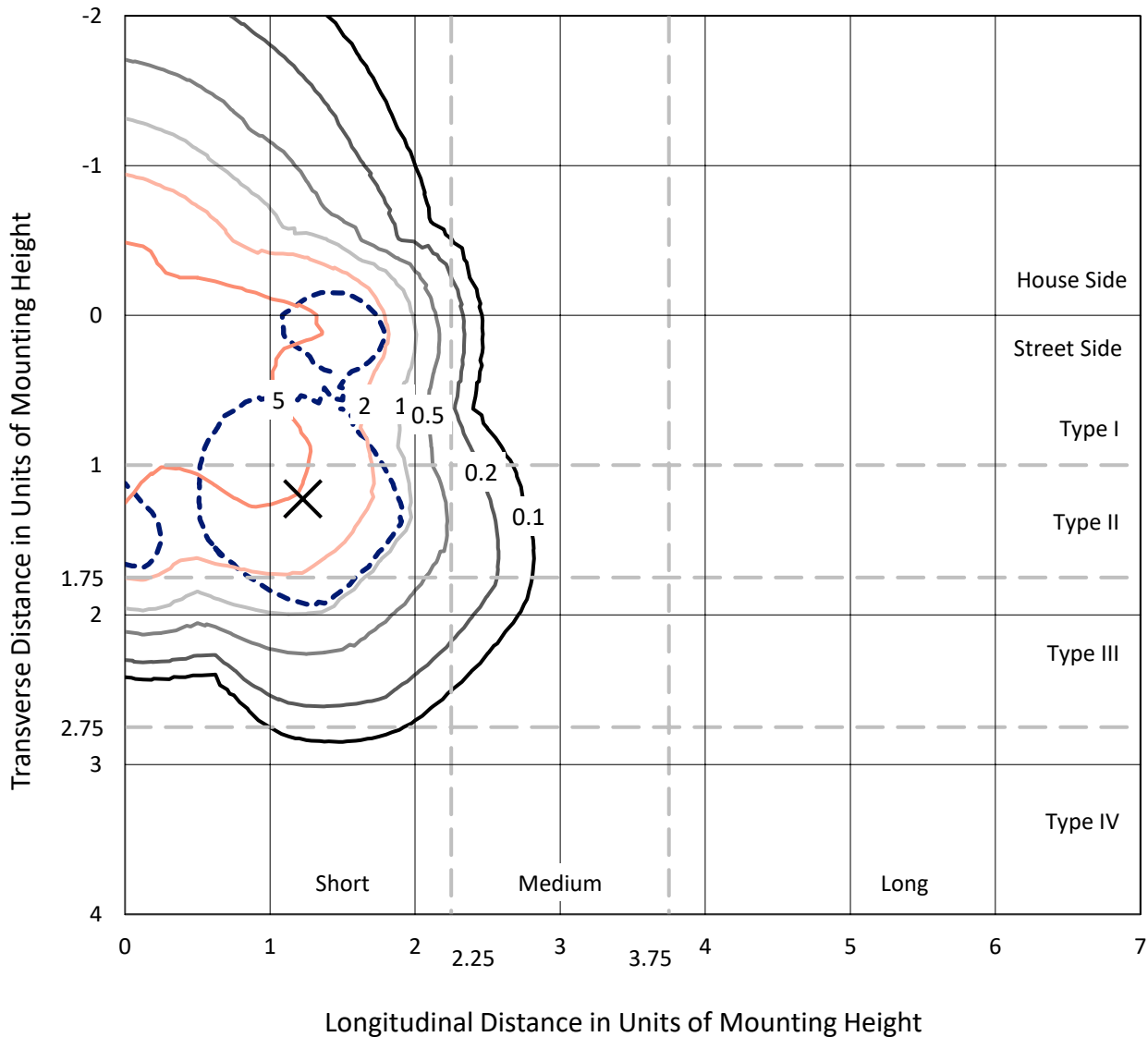
Lumens per Lamp: N/A  
Luminaire Lumens: 13701.6 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

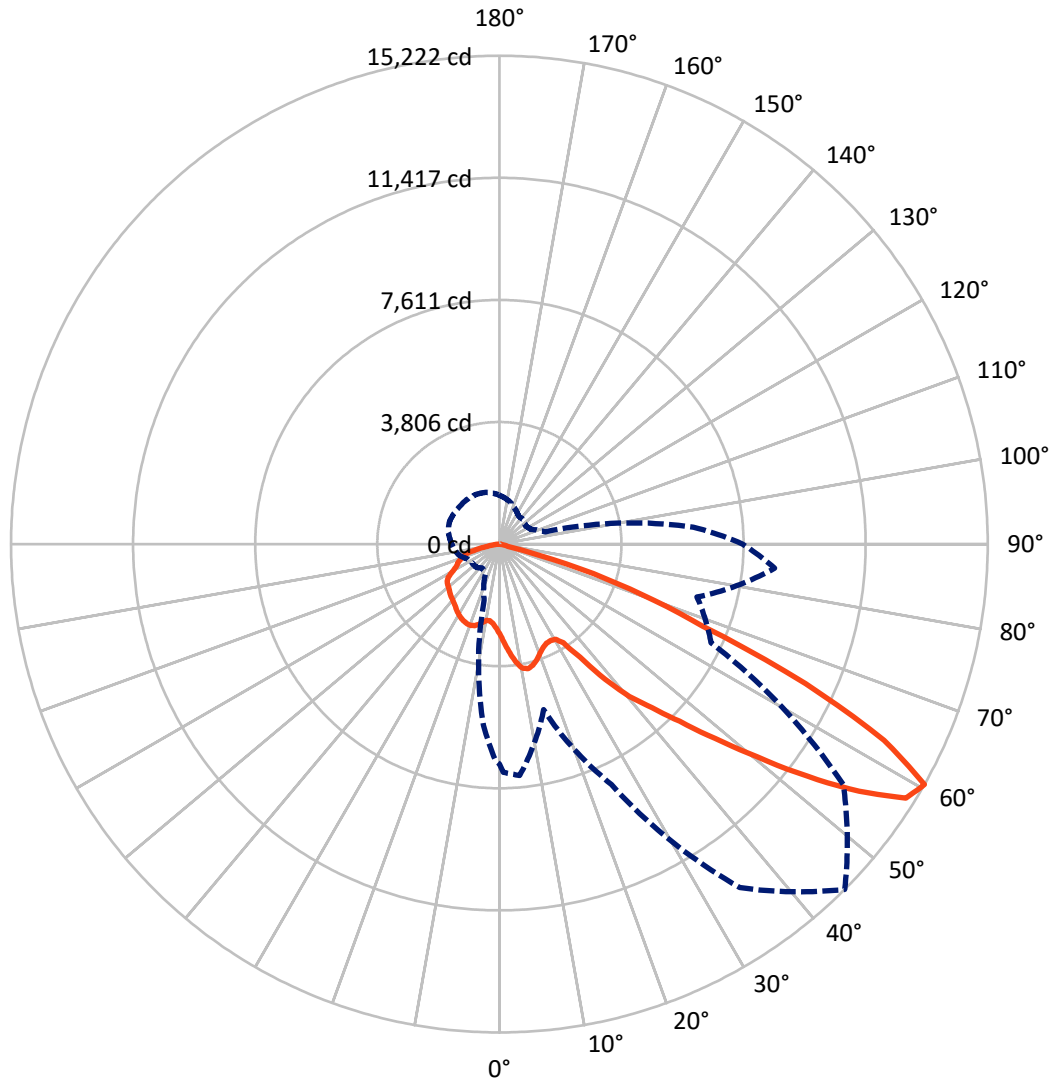
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.4 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
<b>House Side</b>	Lumens	4802.9	0.0	4802.9
	% Fixture	35.1	0.0	35.1
<b>Street Side</b>	Lumens	8898.7	0.0	8898.7
	% Fixture	64.9	0.0	64.9
<b>Total</b>	Lumens	13701.6	0.0	13701.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	274.6	2.0
10°-20°	867.8	6.3
20°-30°	1409.7	10.3
30°-40°	1988.0	14.5
40°-50°	2747.4	20.1
50°-60°	3536.7	25.8
60°-70°	2240.9	16.4
70°-80°	575.0	4.2
80°-90°	61.5	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°	13701.6	100.0
0°-180°	13701.6	100.0

**Coefficient of Utilization**



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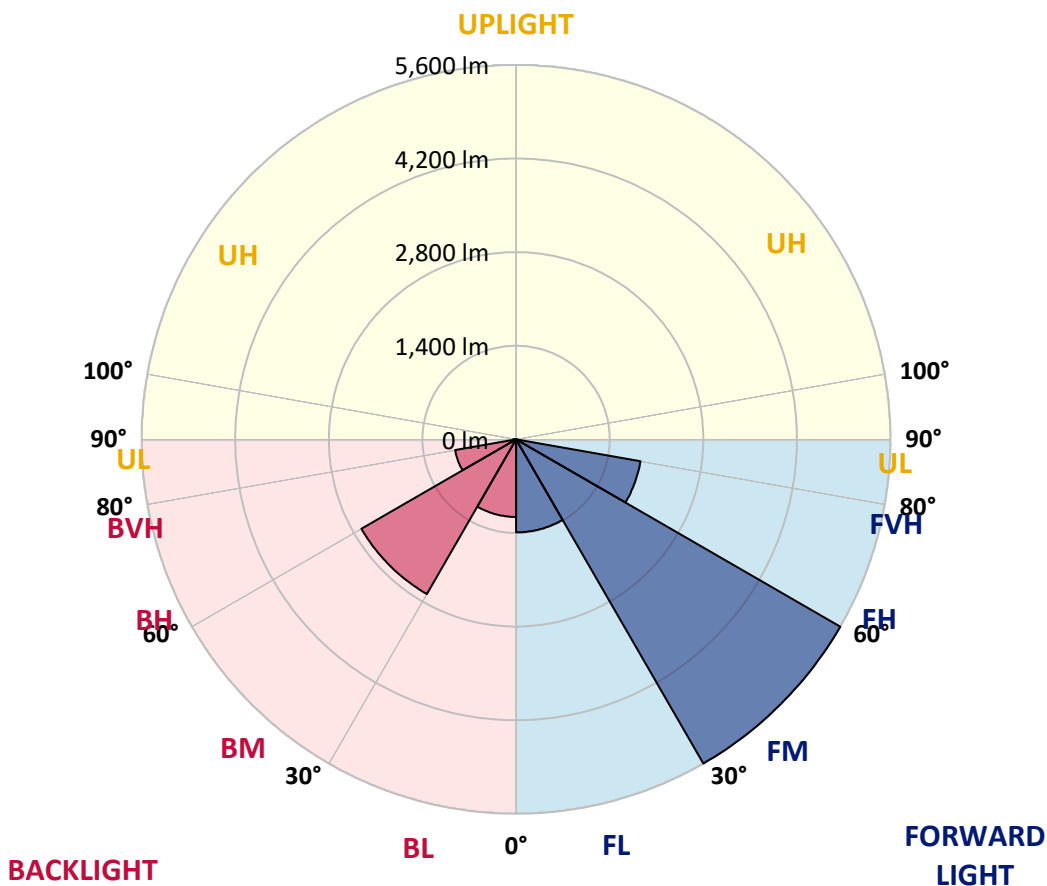
CATALOG NUMBER: GWS-SA5B-735-U-SLR-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1391.2	10.2			
FM (30°-60°)	5600.4	40.9			
FH (60°-80°)	1890.3	13.8			G2/5000
FVH (80°-90°)	16.7	0.1			G1/100
BL (0°-30°)	1160.8	8.5	B3/2500		
BM (30°-60°)	2671.7	19.5	B3/5000		
BH (60°-80°)	925.6	6.8	B2/1000		G2/1000
BVH (80°-90°)	44.8	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2814.7	2814.7	2814.7	2814.7	2814.7	2814.7	2814.7	2814.7	2814.7	2814.7	2814.7
2.5°	2944.0	2964.1	2976.7	3000.5	3043.2	3067.1	3093.4	3064.5	3072.1	3068.3	3021.9
5°	3118.5	3142.4	3175.0	3245.3	3324.4	3368.4	3409.8	3403.5	3364.6	3299.3	3252.9
7.5°	3281.7	3309.4	3365.9	3480.1	3596.9	3664.6	3714.9	3682.2	3649.6	3546.6	3429.9
10°	3409.8	3426.1	3502.7	3655.9	3791.4	3868.0	3929.5	3922.0	3876.8	3761.3	3604.4
12.5°	3530.3	3541.6	3624.5	3777.6	3899.4	3933.3	3983.5	3999.9	3984.8	3898.2	3743.7
15°	3659.6	3681.0	3757.6	3874.3	3929.5	3894.4	3912.0	3957.2	3999.9	3999.9	3858.0
17.5°	3780.1	3799.0	3876.8	3927.0	3874.3	3781.4	3786.4	3844.2	3945.9	4052.6	3962.2
20°	3886.9	3904.4	3981.0	3933.3	3766.3	3630.8	3627.0	3697.3	3861.8	4086.5	4073.9
22.5°	4003.6	4028.7	4092.8	3938.3	3665.9	3493.9	3492.7	3565.5	3787.7	4120.4	4202.0
25°	4169.3	4208.3	4240.9	3982.3	3611.9	3404.8	3421.1	3490.1	3763.8	4175.6	4391.6
27.5°	4415.4	4446.8	4444.3	4073.9	3609.4	3368.4	3402.3	3482.6	3806.5	4273.5	4591.2
30°	4681.6	4697.9	4671.5	4202.0	3667.2	3391.0	3441.2	3536.6	3914.5	4435.5	4884.9
32.5°	4976.6	4996.7	4946.5	4394.1	3801.5	3557.9	3668.4	3714.9	4066.4	4669.0	5196.3
35°	5315.6	5354.5	5250.3	4647.7	4197.0	4166.8	4327.5	4267.3	4389.0	4945.2	5529.0
37.5°	5672.1	5673.4	5524.0	5023.0	4972.8	5024.3	5345.7	5157.4	5073.3	5252.8	5868.0
40°	5974.7	5967.1	5737.4	5529.0	5648.3	5852.9	6240.8	5952.1	5731.1	5665.8	6149.2
42.5°	6277.2	6249.6	6017.4	5850.4	6114.0	6534.6	6972.7	6618.7	6152.9	6041.2	6426.6
45°	6663.9	6655.1	6375.2	5978.4	6534.6	7297.9	7879.2	7305.4	6402.8	6259.7	6888.6
47.5°	7287.9	7245.2	6724.2	5968.4	6928.8	8314.8	9049.3	8170.4	6577.3	6264.7	7634.4
50°	7898.0	7845.3	7141.0	5967.1	7335.6	9369.4	10430.2	9221.3	6755.6	6294.8	8392.7
52.5°	8514.4	8514.4	7825.2	6109.0	7762.4	10547.0	12025.9	10530.7	7059.4	6689.0	9325.5
55°	8881.0	8979.0	8594.8	6348.8	8262.1	11933.0	13604.0	11944.3	7528.9	7400.9	10186.7
57.5°	8415.3	8598.6	8543.3	6181.8	8557.1	12951.2	14942.3	13016.5	7761.2	7485.0	10057.4
60°	6857.2	7112.1	7238.9	5338.2	8265.9	13069.2	15222.3	13086.8	7281.6	6373.9	8614.9
62.5°	4558.5	4768.2	4961.5	3814.0	7156.0	11757.3	13463.4	11761.0	6081.4	4756.9	5968.4
65°	2235.9	2391.6	2600.0	2254.8	5590.5	9823.9	10496.8	9503.7	4399.1	2662.8	3044.5
67.5°	585.0	629.0	657.9	875.0	4004.9	7058.1	6845.9	6951.4	2826.0	870.0	796.0
70°	303.8	306.3	305.1	361.6	2706.7	4485.7	4718.0	4365.2	1972.3	364.1	313.9
72.5°	217.2	218.4	214.7	243.6	1306.9	2569.9	2662.8	2633.9	1033.2	215.9	214.7
75°	141.9	143.1	140.6	143.1	197.1	292.5	269.9	283.7	172.0	136.8	136.8
77.5°	84.1	85.4	84.1	86.6	84.1	84.1	77.8	77.8	74.1	74.1	75.3
80°	56.5	56.5	55.2	57.8	52.7	52.7	50.2	49.0	45.2	43.9	43.9
82.5°	33.9	35.2	33.9	33.9	31.4	31.4	28.9	27.6	23.9	23.9	22.6
85°	17.6	17.6	16.3	16.3	13.8	12.6	10.0	10.0	7.5	6.3	6.3
87.5°	2.5	2.5	1.3	1.3	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°	2814.7	2814.7	2814.7	2814.7	2814.7	2814.7	2814.7	2814.7	2814.7	2814.7	2814.7
2.5°	3009.3	2984.2	2946.5	2910.1	2876.2	2841.1	2800.9	2759.5	2724.3	2687.9	2669.1
5°	3191.3	3139.9	3041.9	2955.3	2877.5	2813.5	2744.4	2685.4	2630.2	2585.0	2562.4
7.5°	3355.8	3275.5	3127.3	2990.5	2885.0	2797.1	2701.7	2613.8	2539.8	2484.5	2463.2
10°	3507.7	3412.3	3217.7	3044.5	2921.4	2823.5	2706.7	2587.5	2489.5	2416.7	2399.2
12.5°	3630.8	3521.5	3289.3	3088.4	2942.8	2837.3	2734.4	2631.4	2534.7	2440.6	2425.5
15°	3740.0	3610.7	3343.3	3116.0	2935.2	2800.9	2714.3	2701.7	2701.7	2595.0	2564.9
17.5°	3834.1	3692.3	3387.2	3128.6	2887.5	2692.9	2640.2	2749.4	2872.5	2795.9	2728.1
20°	3942.1	3770.1	3423.6	3128.6	2799.6	2556.1	2551.1	2736.9	2918.9	2920.2	2848.6
22.5°	4051.3	3860.5	3466.3	3117.3	2679.1	2397.9	2490.8	2686.7	2848.6	2917.7	2868.7
25°	4228.3	3986.0	3534.1	3108.5	2538.5	2289.9	2436.8	2620.1	2757.0	2829.8	2798.4
27.5°	4453.1	4151.8	3637.0	3122.3	2399.2	2225.9	2379.1	2533.5	2657.8	2721.8	2699.2
30°	4704.2	4342.6	3747.5	3146.1	2298.7	2193.3	2310.0	2434.3	2544.8	2608.8	2598.8
32.5°	5024.3	4549.7	3842.9	3113.5	2242.2	2176.9	2237.2	2326.3	2433.1	2473.2	2482.0
35°	5407.2	4778.2	3915.7	2985.5	2190.8	2159.4	2158.1	2213.4	2288.7	2352.7	2359.0
37.5°	5760.0	5045.6	3996.1	2765.7	2097.9	2115.4	2065.2	2097.9	2171.9	2235.9	2261.1
40°	6109.0	5316.8	4107.8	2485.8	1976.1	2017.5	1958.5	1981.1	2040.1	2124.2	2164.4
42.5°	6448.0	5561.6	4225.8	2199.5	1854.3	1880.7	1836.7	1859.3	1920.8	2026.3	2071.5
45°	6817.1	5893.1	4317.5	1929.6	1748.8	1737.5	1702.4	1735.0	1827.9	1943.4	1997.4
47.5°	7515.1	6415.3	4377.7	1750.1	1692.3	1610.7	1570.6	1640.9	1746.3	1863.1	1928.4
50°	8367.5	7171.1	4360.2	1635.8	1643.4	1480.2	1466.4	1559.3	1672.3	1794.0	1865.6
52.5°	9043.0	7913.1	4160.5	1526.6	1548.0	1397.3	1357.1	1492.7	1600.7	1725.0	1799.1
55°	9559.0	8162.9	3547.9	1397.3	1392.3	1337.1	1252.9	1423.7	1529.1	1644.6	1725.0
57.5°	9138.4	7606.7	2630.2	1219.0	1188.9	1217.8	1136.2	1306.9	1441.3	1555.5	1627.1
60°	7584.2	6065.1	1465.1	1079.7	994.3	1064.6	1052.1	1183.9	1345.8	1466.4	1527.9
62.5°	5148.6	4038.8	868.8	853.7	806.0	906.4	973.0	1059.6	1219.0	1317.0	1374.7
65°	2566.1	1962.3	577.5	639.0	645.3	745.7	871.3	966.7	1099.8	1200.2	1258.0
67.5°	744.5	610.1	439.4	488.4	556.2	636.5	736.9	849.9	979.2	1098.5	1166.3
70°	321.4	325.2	349.0	406.8	473.3	556.2	656.6	767.1	876.3	967.9	1019.4
72.5°	227.2	236.0	262.4	321.4	384.2	463.3	563.7	670.4	749.5	842.4	896.4
75°	145.6	151.9	173.3	218.4	264.9	341.5	436.9	534.8	616.4	683.0	734.4
77.5°	80.3	81.6	99.2	125.5	156.9	205.9	276.2	352.8	413.0	450.7	497.2
80°	46.5	46.5	55.2	71.6	90.4	120.5	159.4	197.1	233.5	257.4	280.0
82.5°	25.1	25.1	28.9	38.9	49.0	66.5	89.1	108.0	130.6	143.1	158.2
85°	7.5	7.5	10.0	13.8	17.6	25.1	35.2	45.2	55.2	64.0	72.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2814.7	2814.7	2814.7	2814.7	2814.7	2814.7	2814.7	2814.7	2814.7	2814.7	2814.7
2.5°	2665.3	2647.7	2637.7	2625.1	2628.9	2617.6	2611.3	2615.1	2592.5	2615.1	2637.7
5°	2553.6	2528.5	2508.4	2492.1	2484.5	2469.5	2460.7	2460.7	2446.9	2469.5	2497.1
7.5°	2455.7	2435.6	2425.5	2415.5	2404.2	2390.4	2375.3	2370.3	2361.5	2385.3	2409.2
10°	2390.4	2392.9	2399.2	2413.0	2410.5	2401.7	2379.1	2366.5	2366.5	2394.1	2430.5
12.5°	2420.5	2446.9	2461.9	2487.0	2492.1	2484.5	2461.9	2451.9	2477.0	2518.4	2578.7
15°	2537.3	2554.8	2567.4	2587.5	2586.2	2579.9	2562.4	2569.9	2652.8	2733.1	2787.1
17.5°	2664.1	2644.0	2641.5	2654.0	2657.8	2650.2	2640.2	2674.1	2810.9	2886.3	2913.9
20°	2755.7	2686.7	2671.6	2676.6	2686.7	2682.9	2682.9	2738.1	2880.0	2915.1	2880.0
22.5°	2783.3	2685.4	2662.8	2664.1	2677.9	2679.1	2685.4	2743.1	2826.0	2827.3	2773.3
25°	2739.4	2645.2	2628.9	2631.4	2647.7	2646.5	2649.0	2681.6	2718.0	2703.0	2662.8
27.5°	2656.5	2574.9	2569.9	2583.7	2605.1	2593.8	2586.2	2595.0	2612.6	2593.8	2558.6
30°	2562.4	2493.3	2495.8	2522.2	2544.8	2526.0	2507.1	2512.1	2513.4	2493.3	2453.1
32.5°	2463.2	2411.7	2420.5	2448.1	2474.5	2454.4	2434.3	2431.8	2407.9	2384.1	2345.2
35°	2364.0	2343.9	2355.2	2377.8	2400.4	2384.1	2371.5	2364.0	2312.5	2277.4	2244.7
37.5°	2273.6	2288.7	2308.8	2322.6	2330.1	2328.9	2321.3	2303.7	2235.9	2194.5	2151.8
40°	2193.3	2239.7	2261.1	2267.3	2278.6	2276.1	2274.9	2249.8	2160.6	2116.7	2067.7
42.5°	2120.4	2185.7	2222.1	2228.4	2234.7	2235.9	2232.2	2195.8	2094.1	2042.6	1996.2
45°	2050.1	2135.5	2182.0	2175.7	2184.5	2184.5	2188.2	2140.5	2028.8	1976.1	1927.1
47.5°	1988.6	2089.1	2131.7	2124.2	2129.2	2133.0	2136.8	2081.5	1957.2	1907.0	1856.8
50°	1932.1	2038.8	2075.3	2077.8	2077.8	2086.6	2085.3	2031.3	1897.0	1843.0	1792.8
52.5°	1871.9	1987.4	2026.3	2042.6	2047.6	2051.4	2033.8	1971.1	1835.5	1770.2	1723.7
55°	1801.6	1934.6	1969.8	1991.1	2001.2	1998.7	1974.8	1910.8	1772.7	1707.4	1654.7
57.5°	1694.9	1821.7	1871.9	1881.9	1898.2	1888.2	1860.6	1806.6	1672.3	1607.0	1553.0
60°	1578.1	1669.7	1709.9	1718.7	1706.2	1709.9	1706.2	1654.7	1537.9	1486.4	1431.2
62.5°	1424.9	1506.5	1549.2	1560.5	1539.2	1553.0	1548.0	1483.9	1367.2	1313.2	1264.2
65°	1309.4	1398.6	1448.8	1455.1	1448.8	1455.1	1437.5	1359.6	1249.2	1193.9	1143.7
67.5°	1219.0	1310.7	1363.4	1381.0	1374.7	1373.5	1345.8	1255.4	1141.2	1080.9	1016.9
70°	1063.4	1143.7	1211.5	1254.2	1254.2	1230.3	1177.6	1093.5	1001.8	950.4	900.2
72.5°	941.6	1043.3	1109.8	1153.8	1162.5	1148.7	1074.7	985.5	880.1	828.6	775.9
75°	775.9	875.0	946.6	1004.4	1015.7	1000.6	915.2	827.3	729.4	679.2	626.5
77.5°	518.5	577.5	635.3	688.0	676.7	686.7	629.0	562.4	502.2	464.5	440.7
80°	292.5	331.4	349.0	377.9	377.9	377.9	340.2	308.8	274.9	253.6	229.7
82.5°	165.7	190.8	198.4	222.2	228.5	229.7	204.6	184.6	163.2	151.9	135.6
85°	76.6	90.4	91.6	105.5	110.5	120.5	109.2	95.4	82.9	77.8	67.8
87.5°	2.5	7.5	10.0	18.8	25.1	28.9	31.4	31.4	26.4	23.9	20.1
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°	2814.7	2814.7	2814.7	2814.7	2814.7	2814.7	2814.7	2814.7	2814.7	2814.7
2.5°	2665.3	2695.4	2730.6	2755.7	2800.9	2838.6	2877.5	2920.2	2951.6	2944.0
5°	2531.0	2581.2	2645.2	2704.2	2788.3	2873.7	2967.9	3064.5	3121.0	3118.5
7.5°	2455.7	2527.2	2605.1	2684.1	2783.3	2906.4	3050.7	3201.4	3278.0	3281.7
10°	2495.8	2572.4	2625.1	2691.7	2795.9	2950.3	3123.5	3304.3	3392.2	3409.8
12.5°	2622.6	2616.3	2612.6	2660.3	2785.8	2981.7	3193.9	3409.8	3509.0	3530.3
15°	2743.1	2613.8	2536.0	2568.6	2740.6	3001.8	3262.9	3525.3	3637.0	3659.6
17.5°	2765.7	2569.9	2425.5	2448.1	2669.1	3008.0	3329.4	3638.3	3758.8	3780.1
20°	2703.0	2513.4	2345.2	2313.8	2578.7	2991.7	3370.9	3732.4	3864.3	3886.9
22.5°	2623.9	2463.2	2284.9	2203.3	2468.2	2975.4	3417.3	3831.6	3983.5	4003.6
25°	2541.0	2399.2	2228.4	2104.1	2342.7	2965.4	3495.2	3962.2	4145.5	4169.3
27.5°	2453.1	2321.3	2179.5	2056.4	2227.2	2977.9	3605.6	4173.1	4381.5	4415.4
30°	2359.0	2243.5	2148.1	2040.1	2148.1	2989.2	3727.4	4389.0	4633.9	4681.6
32.5°	2261.1	2171.9	2115.4	2047.6	2099.1	2962.9	3834.1	4631.3	4935.2	4976.6
35°	2163.1	2099.1	2074.0	2061.4	2033.8	2866.2	3920.8	4876.2	5279.2	5315.6
37.5°	2071.5	2023.8	2016.2	2030.1	1933.4	2708.0	4021.2	5187.5	5616.9	5672.1
40°	1986.1	1942.2	1940.9	1938.4	1822.9	2492.1	4156.8	5503.9	5949.6	5974.7
42.5°	1907.0	1851.8	1861.8	1831.7	1732.5	2258.5	4284.8	5773.8	6259.7	6277.2
45°	1836.7	1763.9	1775.2	1737.5	1689.8	2013.7	4397.8	6092.7	6652.6	6663.9
47.5°	1768.9	1691.1	1659.7	1657.2	1682.3	1787.8	4508.3	6706.6	7267.8	7287.9
50°	1706.2	1622.0	1532.9	1588.1	1635.8	1618.3	4646.4	7364.4	7903.0	7898.0
52.5°	1645.9	1535.4	1408.6	1515.3	1515.3	1492.7	4607.5	7763.7	8427.8	8514.4
55°	1576.8	1396.1	1279.3	1393.5	1338.3	1379.7	3918.2	7894.2	8758.0	8881.0
57.5°	1440.0	1224.1	1122.4	1183.9	1101.0	1279.3	2814.7	7246.4	8196.8	8415.3
60°	1308.2	1097.3	1030.7	1019.4	911.5	1043.3	1824.2	5673.4	6746.8	6857.2
62.5°	1153.8	988.0	931.5	844.9	733.2	759.5	1104.8	3733.7	4533.4	4558.5
65°	1037.0	895.1	787.2	684.2	600.1	551.1	652.8	1800.3	2266.1	2235.9
67.5°	890.1	767.1	664.1	590.1	521.0	459.5	434.4	534.8	605.1	585.0
70°	792.2	674.2	575.0	504.7	440.7	379.1	335.2	315.1	308.8	303.8
72.5°	683.0	580.0	477.1	409.3	349.0	292.5	252.3	228.5	222.2	217.2
75°	544.9	448.2	354.0	290.0	237.3	197.1	170.7	150.7	146.9	141.9
77.5°	360.3	287.5	210.9	172.0	140.6	119.3	101.7	89.1	86.6	84.1
80°	198.4	165.7	129.3	104.2	84.1	72.8	66.5	59.0	57.8	56.5
82.5°	118.0	99.2	74.1	59.0	49.0	43.9	40.2	36.4	35.2	33.9
85°	59.0	46.5	32.6	27.6	25.1	22.6	22.6	18.8	17.6	17.6
87.5°	15.1	12.6	7.5	6.3	6.3	6.3	5.0	3.8	3.8	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)