

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: P638376

Luminaire Tested: GWS-SA4E-760-U-SLR-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638376  
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-SA4E-760-U-SLR-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

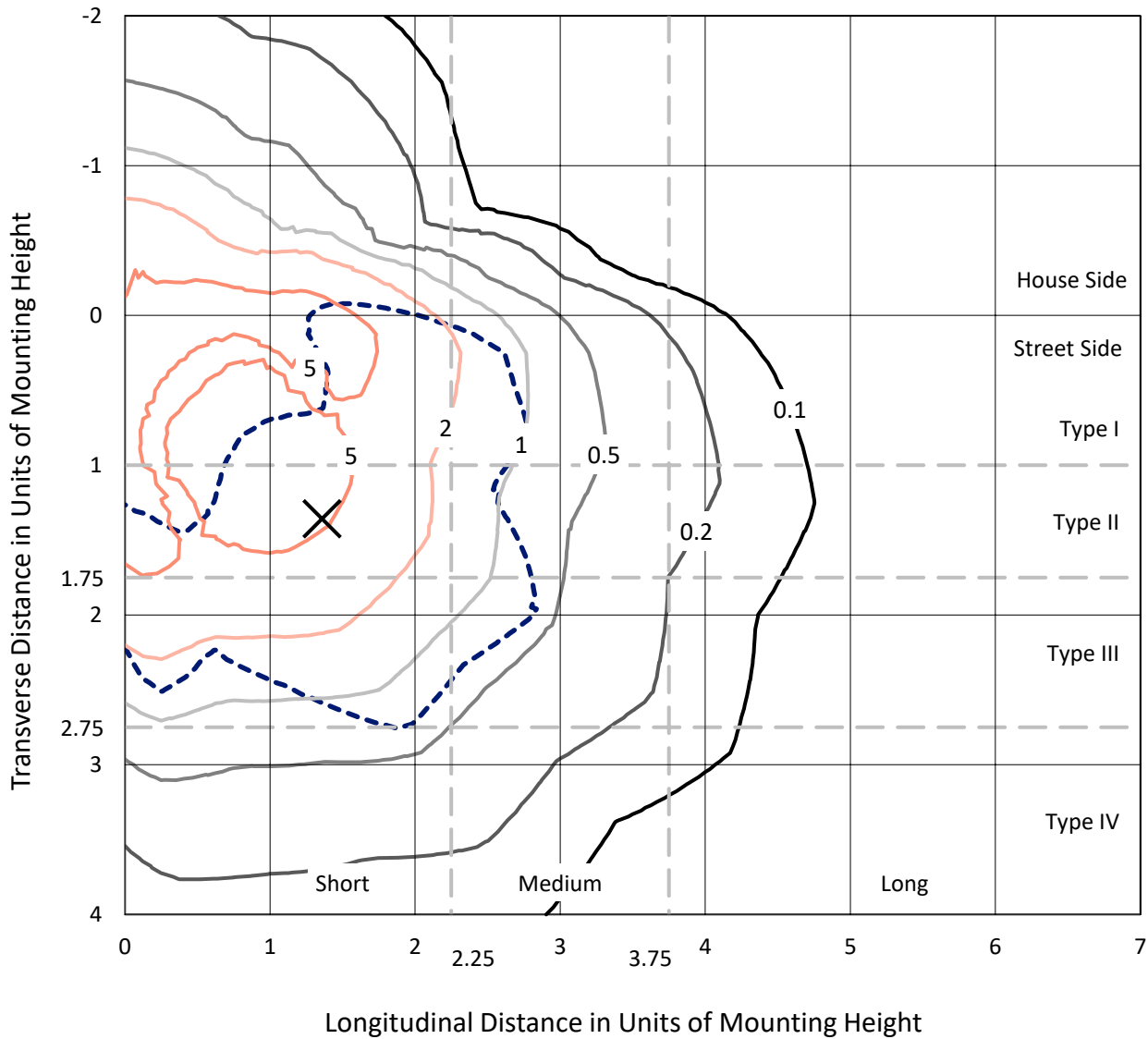
Lumens per Lamp: N/A  
Luminaire Lumens: 29233.7 lumens  
Efficiency: N/A  
Efficacy: 144.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): 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

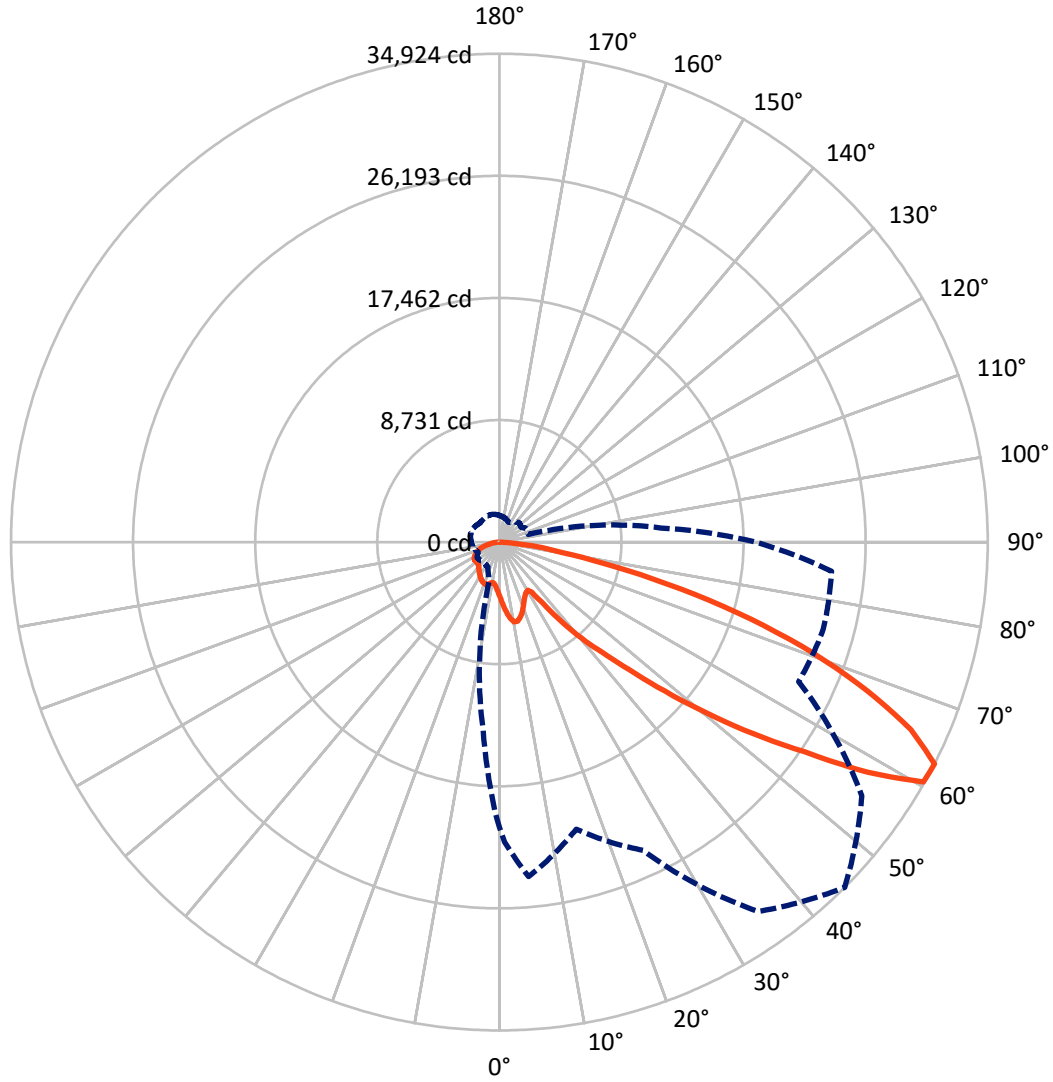
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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	6975.7	0.0	6975.7
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	22258.0	0.0	22258.0
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	29233.7	0.0	29233.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	378.9	1.3
10°-20°	1187.9	4.1
20°-30°	1845.0	6.3
30°-40°	2505.0	8.6
40°-50°	3970.3	13.6
50°-60°	7003.6	24.0
60°-70°	7792.5	26.7
70°-80°	3952.1	13.5
80°-90°	598.4	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°	29233.7	100.0
0°-180°	29233.7	100.0

**Coefficient of Utilization**



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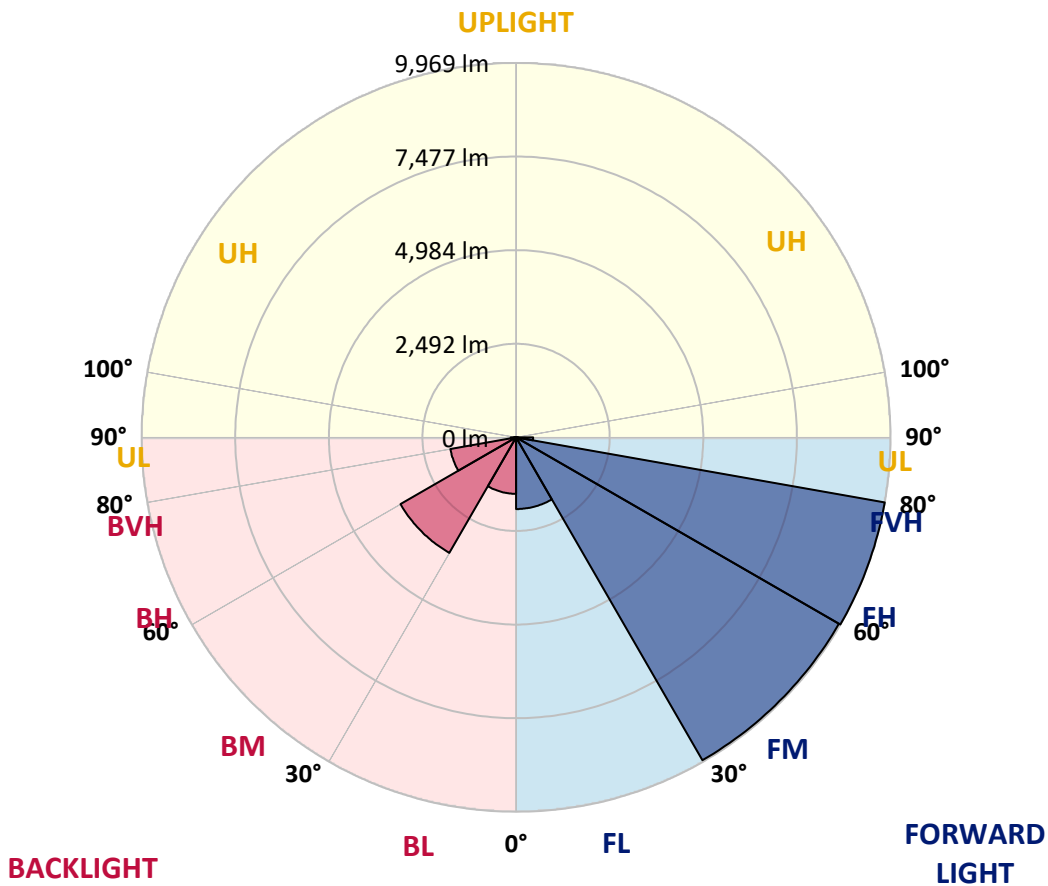
CATALOG NUMBER: GWS-SA4E-760-U-SLR-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1908.7	6.5			
FM (30°-60°)	9926.1	34.0			
FH (60°-80°)	9969.0	34.1			G4/12000
FVH (80°-90°)	454.2	1.6			G3/500
BL (0°-30°)	1503.1	5.1	B3/2500		
BM (30°-60°)	3552.8	12.2	B3/5000		
BH (60°-80°)	1775.6	6.1	B3/2500		G3/2500
BVH (80°-90°)	144.2	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°	3879.9	3879.9	3879.9	3879.9	3879.9	3879.9	3879.9	3879.9	3879.9	3879.9	3879.9
2.5°	4169.9	4167.6	4209.7	4273.9	4333.6	4360.2	4404.5	4400.0	4364.6	4318.1	4302.6
5°	4497.4	4506.3	4579.3	4721.0	4878.1	4944.5	4973.3	4962.2	4898.0	4816.1	4672.3
7.5°	4794.0	4809.5	4922.4	5134.8	5329.6	5418.2	5489.0	5475.7	5382.7	5230.0	5017.5
10°	5010.9	5028.6	5163.6	5413.7	5630.6	5708.1	5798.8	5803.3	5721.4	5515.5	5298.6
12.5°	5227.8	5245.5	5371.7	5599.6	5741.3	5743.5	5796.6	5825.4	5829.8	5734.7	5517.7
15°	5453.6	5469.1	5584.1	5712.5	5705.9	5581.9	5581.9	5637.3	5759.0	5827.6	5677.1
17.5°	5646.1	5666.0	5754.6	5712.5	5515.5	5292.0	5265.4	5336.3	5548.7	5812.1	5796.6
20°	5805.5	5821.0	5869.7	5590.8	5232.2	4940.1	4889.2	4971.1	5258.8	5716.9	5887.4
22.5°	5958.2	5967.0	5940.5	5431.4	4926.8	4592.6	4530.6	4616.9	4926.8	5548.7	5964.8
25°	6139.7	6130.8	6004.7	5265.4	4647.9	4318.1	4254.0	4351.3	4674.5	5325.2	6048.9
27.5°	6349.9	6316.7	6060.0	5086.2	4433.2	4114.5	4070.3	4174.3	4475.3	5119.4	6115.3
30°	6529.2	6465.0	6068.9	4926.8	4322.6	4028.2	4001.6	4099.0	4377.9	4979.9	6199.4
32.5°	6728.4	6639.9	6119.8	4884.7	4384.5	4236.2	4271.7	4278.3	4404.5	4940.1	6325.6
35°	7013.9	6898.8	6259.2	5006.5	5022.0	5272.1	5400.4	5227.8	4805.1	5028.6	6564.6
37.5°	7445.5	7299.5	6542.5	5533.2	6338.9	6898.8	7208.7	6814.7	6022.4	5362.8	6925.4
40°	7970.1	7784.2	6905.5	6507.1	7569.5	8465.9	9017.0	8439.3	7275.1	6197.2	7432.3
42.5°	8702.7	8507.9	7609.3	7463.2	8709.3	10043.9	10763.3	9902.3	8379.5	7275.1	8244.5
45°	9979.8	9791.6	8899.7	8421.6	10043.9	11987.2	12996.5	11799.1	9501.7	8357.4	9762.9
47.5°	12339.1	12117.8	10816.4	9484.0	11566.7	14510.4	15922.5	14178.4	10668.1	9596.9	12312.6
50°	15172.1	14959.7	13222.2	10741.1	13248.8	17208.4	19171.6	16973.8	12011.6	11104.1	15360.3
52.5°	18580.6	18540.8	16655.1	12330.3	14999.5	20085.7	22777.0	20070.2	13483.4	13133.7	18813.0
55°	21652.7	22042.2	21015.3	14753.8	17261.5	23700.0	26484.3	23447.7	15479.8	16489.1	22856.7
57.5°	23308.2	24355.1	25933.2	19698.3	20550.5	28020.3	31059.2	27571.0	18910.4	22075.4	26606.0
60°	22214.9	23401.2	26260.8	23421.1	23812.9	31481.9	34835.1	31037.1	22279.0	25953.1	26393.6
62.5°	20395.5	21460.1	24003.2	21247.6	24317.5	32243.3	34923.6	31641.3	23618.1	23985.5	23841.6
65°	18237.6	19311.0	22004.6	18547.4	22712.8	30435.0	32347.3	29864.0	21212.2	21670.4	21723.5
67.5°	15371.3	16362.9	19105.2	16491.3	20703.2	27781.3	28392.2	27332.0	19534.6	20264.9	19501.4
70°	11484.8	12379.0	14800.3	13401.5	17451.8	24324.1	23830.6	23987.7	17651.0	18377.0	16289.9
72.5°	7848.3	8521.2	10597.3	10530.9	13363.9	19472.6	18784.2	20273.8	14742.8	15705.6	12418.8
75°	5489.0	6013.5	7660.2	8319.8	10101.5	14432.9	13377.2	15174.4	11513.6	12888.0	9061.2
77.5°	3368.6	3716.1	4838.3	6164.0	6498.2	9877.9	8308.7	11418.4	8085.2	9399.9	6044.5
80°	1684.3	1852.5	2350.5	3875.5	4309.3	5821.0	4588.2	6628.8	5471.3	5821.0	3344.3
82.5°	509.1	562.2	688.3	1471.8	2233.2	3350.9	2711.3	3851.1	2988.0	2729.0	1316.9
85°	135.0	152.7	190.3	436.0	783.5	1201.8	916.3	1865.8	1432.0	1007.0	495.8
87.5°	11.1	11.1	8.9	8.9	4.4	0.0	0.0	132.8	267.8	152.7	86.3
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°	3879.9	3879.9	3879.9	3879.9	3879.9	3879.9	3879.9	3879.9	3879.9	3879.9	3879.9
2.5°	4225.2	4216.3	4125.6	4059.2	3981.7	3906.5	3829.0	3760.4	3682.9	3605.5	3583.3
5°	4566.0	4504.1	4311.5	4149.9	3990.6	3851.1	3729.4	3603.2	3501.4	3401.8	3364.2
7.5°	4867.0	4758.6	4479.7	4234.0	4012.7	3840.1	3660.8	3477.1	3333.2	3191.6	3156.2
10°	5139.3	4995.4	4643.5	4333.6	4088.0	3891.0	3680.7	3435.0	3227.0	3054.3	3007.9
12.5°	5340.7	5183.5	4785.1	4428.8	4149.9	3928.6	3720.6	3503.6	3284.5	3061.0	3010.1
15°	5500.0	5336.3	4902.5	4501.8	4152.1	3866.6	3665.2	3590.0	3521.4	3302.2	3209.3
17.5°	5628.4	5455.8	5004.3	4546.1	4092.4	3678.5	3503.6	3614.3	3789.2	3651.9	3477.1
20°	5745.7	5570.9	5081.7	4577.1	3959.6	3419.5	3322.2	3556.8	3820.1	3815.7	3658.6
22.5°	5874.1	5703.7	5194.6	4594.8	3773.7	3156.2	3213.7	3472.7	3687.4	3751.5	3654.2
25°	6037.9	5887.4	5351.8	4634.6	3563.4	2974.7	3134.0	3364.2	3543.5	3559.0	3501.4
27.5°	6228.2	6115.3	5586.4	4727.6	3359.8	2881.7	3041.1	3211.5	3375.3	3381.9	3313.3
30°	6436.3	6361.0	5803.3	4805.1	3207.1	2852.9	2921.6	3058.8	3162.8	3180.5	3120.7
32.5°	6701.9	6635.5	5995.8	4754.2	3116.3	2846.3	2810.9	2881.7	2968.0	2968.0	2921.6
35°	7067.1	6974.1	6199.4	4559.4	3005.7	2819.7	2693.6	2713.5	2751.1	2757.8	2731.2
37.5°	7585.0	7432.3	6405.3	4174.3	2824.2	2724.6	2558.6	2534.2	2547.5	2565.2	2558.6
40°	8226.8	7976.7	6706.3	3711.7	2607.3	2540.9	2419.1	2372.7	2361.6	2397.0	2410.3
42.5°	9034.7	8651.8	7029.4	3280.1	2410.3	2330.6	2255.3	2215.5	2197.8	2257.6	2293.0
45°	10325.0	9694.2	7339.3	2852.9	2299.6	2151.3	2100.4	2071.6	2080.5	2151.3	2195.6
47.5°	12553.8	11285.6	7633.7	2582.9	2290.8	2023.0	1961.0	1967.6	1992.0	2067.2	2120.3
50°	15373.6	13417.0	7830.6	2470.0	2317.3	1945.5	1863.6	1899.0	1936.6	2009.7	2071.6
52.5°	18244.2	15402.3	7596.0	2408.1	2315.1	1947.7	1772.9	1879.1	1896.8	1969.8	2036.2
55°	20218.5	15623.7	6562.4	2312.9	2279.7	2036.2	1702.0	1870.2	1881.3	1947.7	2007.5
57.5°	20971.0	14866.7	5004.3	2339.5	2173.5	2104.8	1671.0	1808.3	1887.9	1945.5	2007.5
60°	20061.3	13439.1	3041.1	2408.1	2003.0	2100.4	1691.0	1695.4	1832.6	1930.0	1992.0
62.5°	18346.0	11606.5	2135.8	2213.3	1879.1	1983.1	1737.4	1562.6	1735.2	1852.5	1907.9
65°	16380.6	9450.8	1629.0	1905.6	1819.3	1801.6	1752.9	1445.3	1602.4	1717.5	1766.2
67.5°	14333.3	7345.9	1323.6	1420.9	1644.5	1629.0	1602.4	1341.3	1445.3	1527.2	1582.5
70°	11754.8	5139.3	1117.7	1066.8	1409.9	1460.8	1401.0	1210.7	1243.9	1328.0	1372.2
72.5°	8598.7	3202.6	918.5	880.9	1133.2	1277.1	1246.1	1066.8	1082.3	1162.0	1197.4
75°	6184.0	1832.6	737.0	726.0	865.4	1093.4	1031.4	918.5	936.2	996.0	1020.3
77.5°	3930.8	1020.3	568.8	584.3	619.7	816.7	880.9	785.7	785.7	821.1	841.1
80°	2104.8	584.3	416.1	422.7	433.8	624.1	695.0	608.7	608.7	584.3	608.7
82.5°	858.8	336.4	285.5	265.6	289.9	427.2	486.9	387.3	405.0	365.2	374.0
85°	283.3	168.2	141.7	139.4	137.2	188.1	234.6	192.6	230.2	146.1	152.7
87.5°	37.6	31.0	17.7	13.3	15.5	6.6	13.3	15.5	15.5	11.1	11.1
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3879.9	3879.9	3879.9	3879.9	3879.9	3879.9	3879.9	3879.9	3879.9	3879.9	3879.9
2.5°	3567.8	3550.1	3485.9	3501.4	3490.4	3472.7	3490.4	3457.2	3483.7	3492.6	3547.9
5°	3335.4	3293.4	3231.4	3200.4	3193.8	3176.1	3178.3	3162.8	3167.2	3204.9	3266.8
7.5°	3127.4	3087.5	3038.9	3016.7	2996.8	2976.9	2974.7	2972.5	2990.2	3023.4	3083.1
10°	2976.9	2954.8	2934.8	2943.7	2934.8	2926.0	2910.5	2910.5	2939.3	2999.0	3072.1
12.5°	2976.9	2972.5	2976.9	3003.4	3001.2	3003.4	2983.5	2994.6	3074.3	3176.1	3280.1
15°	3136.2	3100.8	3100.8	3114.1	3109.7	3109.7	3109.7	3156.2	3337.7	3494.8	3605.5
17.5°	3331.0	3227.0	3182.7	3176.1	3173.9	3173.9	3182.7	3282.3	3565.6	3731.6	3795.8
20°	3466.0	3269.0	3196.0	3167.2	3169.4	3173.9	3200.4	3337.7	3649.7	3733.8	3718.3
22.5°	3490.4	3235.8	3147.3	3105.3	3111.9	3116.3	3156.2	3302.2	3534.6	3547.9	3516.9
25°	3377.5	3142.9	3047.7	3014.5	3023.4	3021.1	3056.6	3162.8	3328.8	3324.4	3306.7
27.5°	3209.3	2994.6	2923.8	2901.6	2917.1	2899.4	2910.5	2992.4	3120.7	3116.3	3109.7
30°	3036.6	2850.7	2786.5	2775.5	2795.4	2768.8	2771.0	2839.7	2928.2	2923.8	2921.6
32.5°	2864.0	2706.9	2649.3	2649.3	2669.2	2640.5	2644.9	2704.6	2764.4	2746.7	2746.7
35°	2700.2	2589.6	2543.1	2534.2	2549.7	2529.8	2538.7	2594.0	2616.1	2591.8	2576.3
37.5°	2556.4	2507.7	2461.2	2430.2	2432.4	2434.6	2461.2	2503.2	2490.0	2454.5	2434.6
40°	2423.6	2423.6	2379.3	2321.7	2315.1	2330.6	2374.9	2421.3	2383.7	2343.9	2319.5
42.5°	2328.4	2348.3	2306.3	2248.7	2235.4	2262.0	2310.7	2343.9	2299.6	2255.3	2222.1
45°	2239.9	2288.5	2259.8	2195.6	2177.9	2208.9	2270.8	2284.1	2224.4	2182.3	2158.0
47.5°	2177.9	2244.3	2224.4	2162.4	2135.8	2180.1	2244.3	2242.1	2166.8	2122.6	2102.6
50°	2133.6	2217.7	2215.5	2162.4	2133.6	2189.0	2246.5	2217.7	2135.8	2089.4	2069.4
52.5°	2098.2	2215.5	2231.0	2200.0	2180.1	2228.8	2264.2	2208.9	2113.7	2065.0	2049.5
55°	2082.7	2224.4	2235.4	2206.7	2189.0	2233.2	2264.2	2226.6	2113.7	2069.4	2056.2
57.5°	2087.1	2213.3	2215.5	2175.7	2144.7	2200.0	2248.7	2237.6	2138.0	2087.1	2071.6
60°	2060.6	2153.5	2158.0	2096.0	2060.6	2127.0	2213.3	2206.7	2127.0	2073.9	2045.1
62.5°	1972.0	2053.9	2056.2	1998.6	1947.7	2042.9	2138.0	2135.8	2062.8	2009.7	1976.5
65°	1823.8	1910.1	1932.2	1876.9	1837.0	1938.8	2038.4	2034.0	1961.0	1912.3	1879.1
67.5°	1640.1	1733.0	1775.1	1737.4	1721.9	1814.9	1907.9	1905.6	1845.9	1799.4	1770.6
70°	1416.5	1494.0	1564.8	1564.8	1553.7	1660.0	1759.6	1750.7	1695.4	1660.0	1637.8
72.5°	1230.6	1290.4	1312.5	1334.6	1367.8	1478.5	1562.6	1569.2	1529.4	1511.7	1529.4
75°	1046.9	1084.5	1104.4	1086.7	1144.3	1259.4	1370.0	1381.1	1339.0	1310.3	1316.9
77.5°	861.0	903.0	922.9	883.1	878.7	1024.8	1159.8	1184.1	1148.7	1104.4	1117.7
80°	621.9	677.3	710.5	683.9	675.1	739.2	925.2	951.7	918.5	883.1	903.0
82.5°	380.7	411.7	420.5	447.1	502.4	529.0	595.4	683.9	659.6	628.6	683.9
85°	150.5	179.3	199.2	225.8	263.4	312.1	367.4	438.2	398.4	385.1	453.7
87.5°	8.9	2.2	0.0	4.4	37.6	73.0	157.1	216.9	181.5	194.8	234.6
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3879.9	3879.9	3879.9	3879.9	3879.9	3879.9	3879.9	3879.9	3879.9	3879.9
2.5°	3592.2	3649.7	3727.2	3791.4	3873.3	3950.7	4030.4	4110.1	4152.1	4169.9
5°	3337.7	3443.9	3567.8	3705.1	3864.4	4032.6	4203.1	4377.9	4488.6	4497.4
7.5°	3184.9	3337.7	3508.1	3680.7	3877.7	4110.1	4380.1	4650.1	4763.0	4794.0
10°	3233.6	3404.1	3539.1	3700.6	3917.5	4207.5	4526.2	4842.7	4973.3	5010.9
12.5°	3428.4	3461.6	3503.6	3651.9	3917.5	4291.6	4676.7	5053.0	5192.4	5227.8
15°	3590.0	3430.6	3355.4	3512.5	3864.4	4364.6	4836.1	5252.2	5420.4	5453.6
17.5°	3603.2	3328.8	3165.0	3306.7	3771.5	4415.5	4988.8	5473.5	5615.1	5646.1
20°	3468.2	3220.3	3007.9	3094.2	3645.3	4437.7	5099.4	5635.1	5774.5	5805.5
22.5°	3315.5	3131.8	2901.6	2897.2	3492.6	4462.0	5232.2	5787.8	5938.3	5958.2
25°	3171.7	3010.1	2815.3	2753.3	3315.5	4508.5	5411.5	6018.0	6133.0	6139.7
27.5°	3003.4	2879.5	2746.7	2686.9	3160.6	4597.0	5677.1	6292.4	6361.0	6349.9
30°	2850.7	2757.8	2698.0	2680.3	3063.2	4663.4	5929.4	6562.4	6566.9	6529.2
32.5°	2689.2	2653.7	2653.7	2711.3	2983.5	4647.9	6135.3	6825.8	6783.8	6728.4
35°	2545.3	2551.9	2598.4	2733.4	2850.7	4493.0	6332.2	7155.6	7093.6	7013.9
37.5°	2408.1	2459.0	2525.4	2656.0	2675.9	4262.8	6562.4	7622.6	7545.1	7445.5
40°	2290.8	2368.2	2445.7	2509.9	2490.0	3935.2	6883.4	8171.5	8085.2	7970.1
42.5°	2197.8	2273.1	2359.4	2366.0	2372.7	3594.4	7224.2	8844.3	8828.8	8702.7
45°	2138.0	2186.7	2268.6	2257.6	2366.0	3218.1	7538.5	9871.3	10074.9	9979.8
47.5°	2098.2	2135.8	2144.7	2191.2	2423.6	2881.7	7943.5	11881.0	12447.6	12339.1
50°	2076.1	2113.7	2014.1	2195.6	2432.4	2664.8	8503.5	14404.1	15316.0	15172.1
52.5°	2073.9	2065.0	1914.5	2242.1	2383.7	2532.0	8795.6	16245.6	18268.6	18580.6
55°	2078.3	1967.6	1863.6	2255.3	2286.3	2483.3	7817.4	17130.9	20993.1	21652.7
57.5°	2038.4	1861.4	1892.4	2202.2	2102.6	2613.9	5778.9	16814.4	22082.1	23308.2
60°	1963.2	1759.6	1945.5	2058.4	1914.5	2390.4	3979.5	15402.3	20953.3	22214.9
62.5°	1854.7	1688.7	1938.8	1872.4	1845.9	1956.6	2735.6	13425.9	19162.7	20395.5
65°	1733.0	1631.2	1834.8	1693.2	1708.7	1505.0	1934.4	11194.9	17024.7	18237.6
67.5°	1602.4	1595.8	1682.1	1507.3	1443.1	1193.0	1409.9	8972.7	14278.0	15371.3
70°	1454.1	1502.8	1529.4	1339.0	1170.8	936.2	1046.9	6274.7	10533.1	11484.8
72.5°	1305.8	1310.3	1347.9	1164.2	876.5	750.3	785.7	3800.2	7155.6	7848.3
75°	1155.3	1113.3	1148.7	947.3	652.9	615.3	606.4	2348.3	4942.3	5489.0
77.5°	993.8	947.3	900.8	712.7	524.6	475.9	464.8	1316.9	3032.2	3368.6
80°	807.9	745.9	672.8	522.3	382.9	340.8	338.6	641.9	1511.7	1684.3
82.5°	628.6	511.3	491.4	325.4	236.8	208.0	221.3	245.7	455.9	509.1
85°	440.4	371.8	261.2	130.6	106.2	86.3	84.1	73.0	121.7	135.0
87.5°	245.7	161.6	84.1	15.5	17.7	19.9	15.5	11.1	11.1	11.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)