

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: P633259

Luminaire Tested: GWS-SA2E-735-U-SLR-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633259  
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-SA2E-735-U-SLR-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

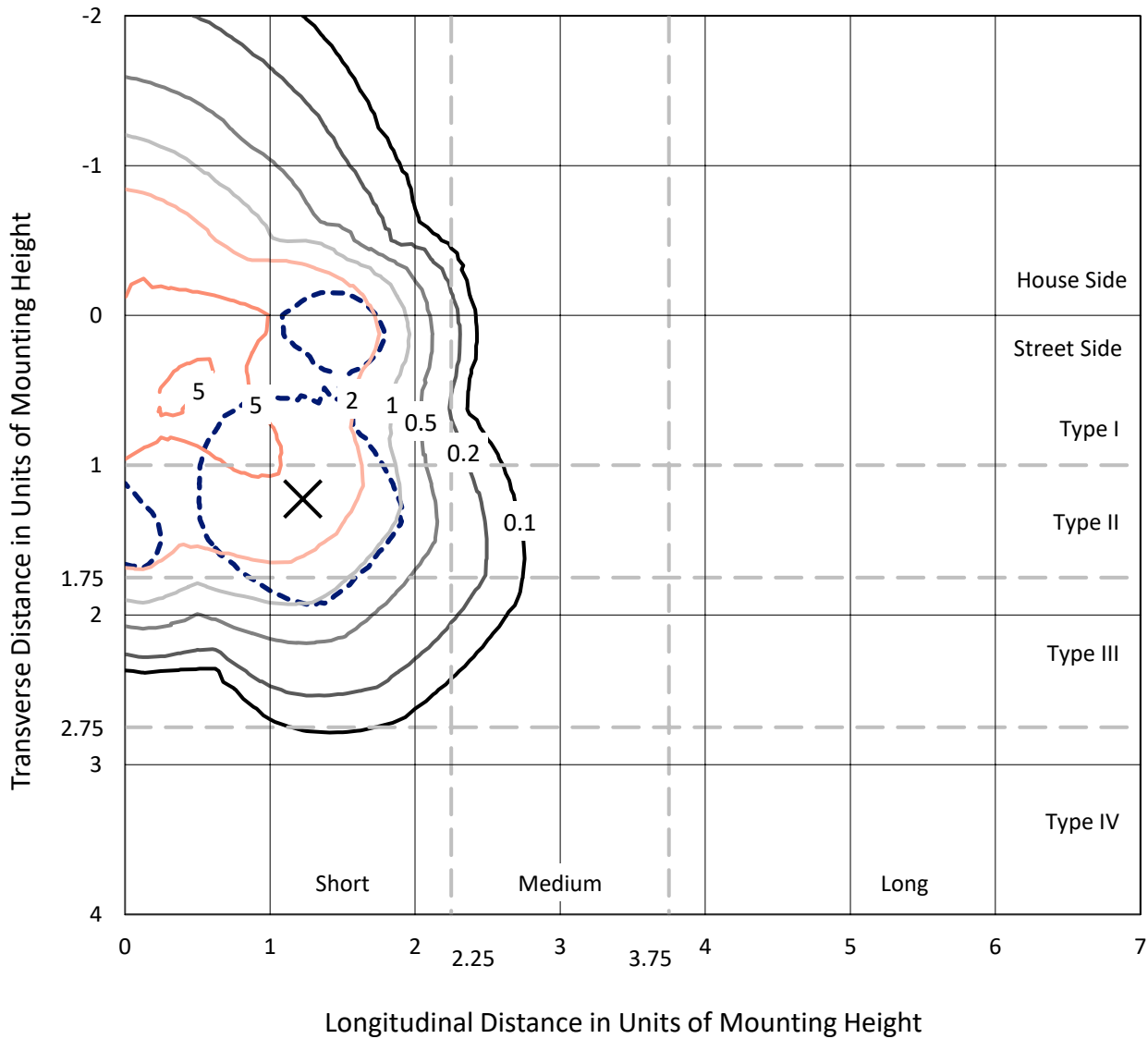
Lumens per Lamp: N/A  
Luminaire Lumens: 11259.5 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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



REPORT NUMBER: P633259  
 CATALOG NUMBER: GWS-SA2E-735-U-SLR-W-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

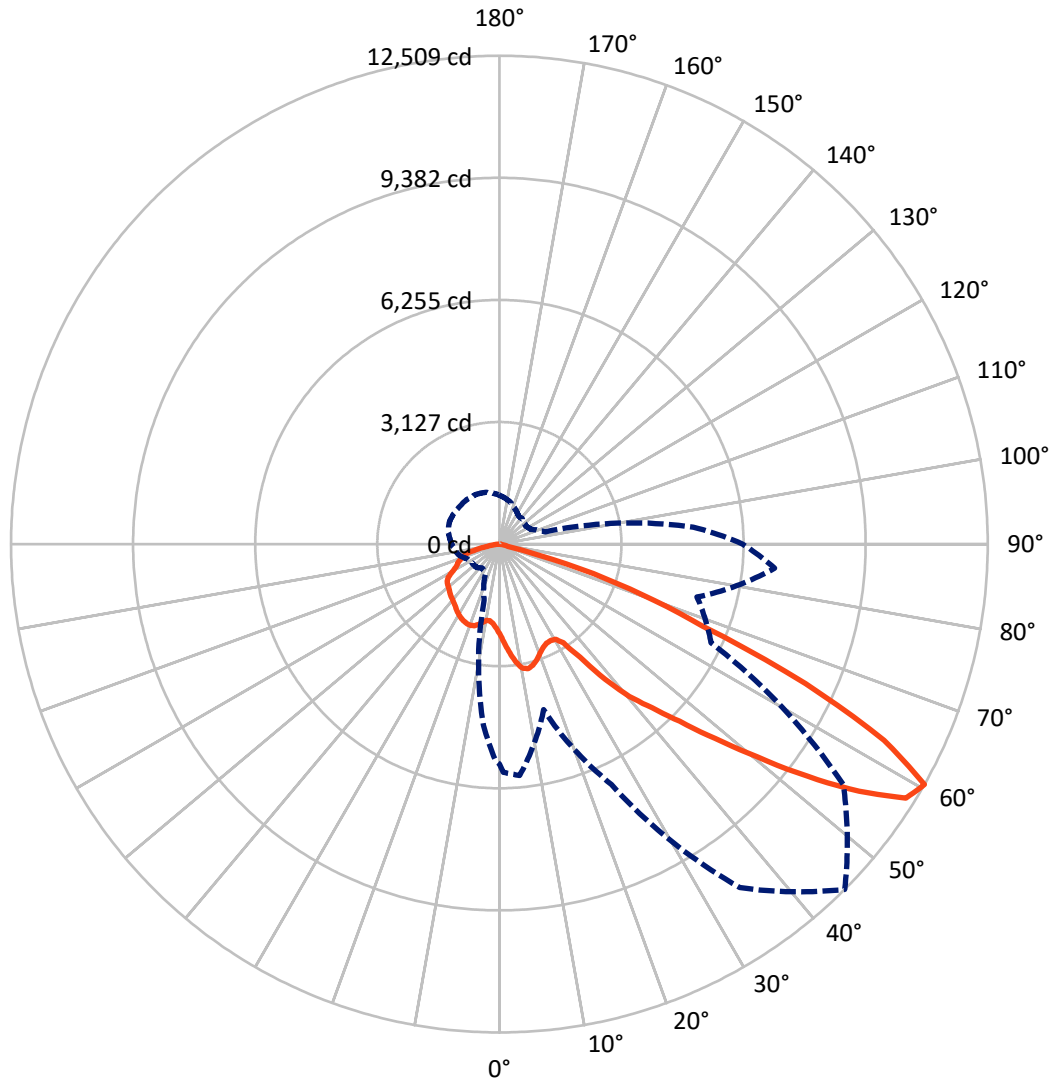
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.7 fc  
 Type III - Short - N/A

REPORT NUMBER: P633259  
CATALOG NUMBER: GWS-SA2E-735-U-SLR-W-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P633259

CATALOG NUMBER: GWS-SA2E-735-U-SLR-W-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3946.9	0.0	3946.9
	% Fixture	35.1	0.0	35.1
<b>Street Side</b>	Lumens	7312.6	0.0	7312.6
	% Fixture	64.9	0.0	64.9
<b>Total</b>	Lumens	11259.5	0.0	11259.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.7	2.0
10°-20°	713.1	6.3
20°-30°	1158.4	10.3
30°-40°	1633.7	14.5
40°-50°	2257.7	20.1
50°-60°	2906.3	25.8
60°-70°	1841.5	16.4
70°-80°	472.5	4.2
80°-90°	50.5	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°	11259.5	100.0
0°-180°	11259.5	100.0

**Coefficient of Utilization**



REPORT NUMBER: P633259

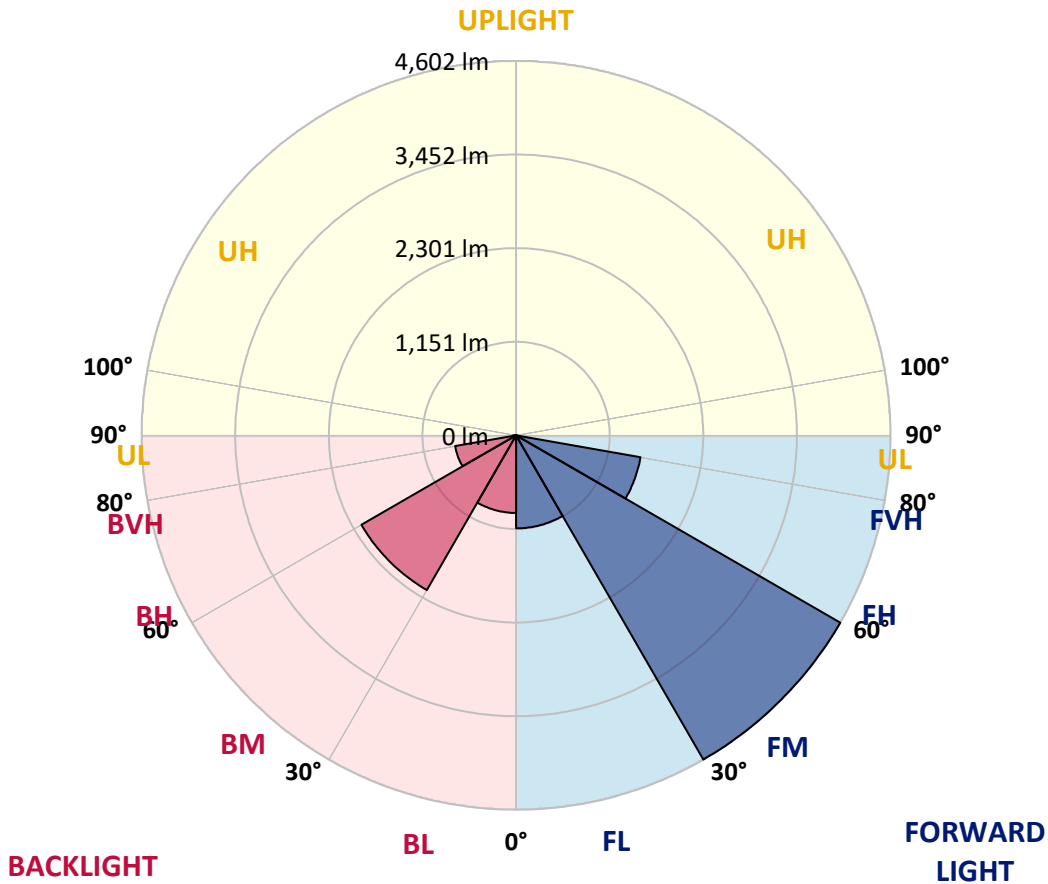
CATALOG NUMBER: GWS-SA2E-735-U-SLR-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1143.3	10.2			
FM (30°-60°)	4602.2	40.9			
FH (60°-80°)	1553.4	13.8			G1/1800
FVH (80°-90°)	13.7	0.1			G1/100
BL (0°-30°)	953.9	8.5	B2/1000		
BM (30°-60°)	2195.5	19.5	B2/2500		
BH (60°-80°)	760.6	6.8	B2/1000		G2/1000
BVH (80°-90°)	36.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





REPORT NUMBER: P633259

CATALOG NUMBER: GWS-SA2E-735-U-SLR-W-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2313.0	2313.0	2313.0	2313.0	2313.0	2313.0	2313.0	2313.0	2313.0	2313.0	2313.0
2.5°	2419.3	2435.8	2446.1	2465.7	2500.8	2520.4	2542.1	2518.3	2524.5	2521.4	2483.3
5°	2562.7	2582.3	2609.1	2666.9	2731.9	2768.0	2802.0	2796.9	2764.9	2711.3	2673.1
7.5°	2696.8	2719.5	2765.9	2859.8	2955.8	3011.5	3052.7	3025.9	2999.1	2914.5	2818.6
10°	2802.0	2815.5	2878.4	3004.3	3115.7	3178.6	3229.2	3223.0	3185.8	3090.9	2962.0
12.5°	2901.1	2910.4	2978.5	3104.3	3204.4	3232.3	3273.5	3286.9	3274.6	3203.4	3076.5
15°	3007.4	3024.9	3087.8	3183.8	3229.2	3200.3	3214.7	3251.9	3286.9	3286.9	3170.4
17.5°	3106.4	3121.9	3185.8	3227.1	3183.8	3107.4	3111.6	3159.0	3242.6	3330.3	3256.0
20°	3194.1	3208.5	3271.5	3232.3	3095.0	2983.6	2980.5	3038.3	3173.5	3358.1	3347.8
22.5°	3290.0	3310.7	3363.3	3236.4	3012.5	2871.2	2870.1	2930.0	3112.6	3386.0	3453.0
25°	3426.2	3458.2	3485.0	3272.5	2968.1	2797.9	2811.3	2868.1	3093.0	3431.4	3608.8
27.5°	3628.4	3654.2	3652.2	3347.8	2966.1	2768.0	2795.9	2861.9	3128.1	3511.8	3772.9
30°	3847.1	3860.6	3838.9	3453.0	3013.5	2786.6	2827.8	2906.2	3216.8	3644.9	4014.3
32.5°	4089.6	4106.1	4064.8	3610.9	3123.9	2923.8	3014.6	3052.7	3341.6	3836.8	4270.1
35°	4368.1	4400.1	4314.5	3819.3	3448.9	3424.2	3556.2	3506.7	3606.8	4063.8	4543.5
37.5°	4661.1	4662.2	4539.4	4127.8	4086.5	4128.8	4392.9	4238.2	4169.0	4316.6	4822.1
40°	4909.8	4903.6	4714.8	4543.5	4641.5	4809.7	5128.5	4891.2	4709.6	4656.0	5053.2
42.5°	5158.4	5135.7	4944.9	4807.6	5024.3	5369.9	5730.0	5439.0	5056.3	4964.5	5281.2
45°	5476.2	5468.9	5238.9	4912.9	5369.9	5997.2	6474.8	6003.4	5261.6	5144.0	5660.8
47.5°	5988.9	5953.8	5525.7	4904.6	5693.9	6832.8	7436.4	6714.2	5405.0	5148.1	6273.7
50°	6490.3	6447.0	5868.2	4903.6	6028.1	7699.4	8571.2	7577.7	5551.5	5172.9	6896.8
52.5°	6996.9	6996.9	6430.5	5020.2	6378.9	8667.2	9882.5	8653.7	5801.1	5496.8	7663.3
55°	7298.1	7378.6	7062.9	5217.2	6789.5	9806.1	11179.3	9815.4	6187.0	6081.8	8371.1
57.5°	6915.4	7066.0	7020.6	5080.0	7031.9	10642.8	12279.1	10696.5	6377.9	6150.9	8264.8
60°	5635.0	5844.5	5948.7	4386.7	6792.6	10739.8	12509.1	10754.3	5983.8	5237.9	7079.4
62.5°	3746.0	3918.3	4077.2	3134.3	5880.6	9661.7	11063.8	9664.8	4997.5	3909.0	4904.6
65°	1837.4	1965.4	2136.6	1852.9	4594.1	8072.9	8625.9	7809.8	3615.0	2188.2	2501.8
67.5°	480.8	516.9	540.6	719.1	3291.1	5800.1	5625.8	5712.4	2322.3	715.0	654.1
70°	249.7	251.7	250.7	297.1	2224.3	3686.2	3877.1	3587.2	1620.8	299.2	257.9
72.5°	178.5	179.5	176.4	200.1	1074.0	2111.9	2188.2	2164.5	849.1	177.4	176.4
75°	116.6	117.6	115.5	117.6	162.0	240.4	221.8	233.2	141.3	112.5	112.5
77.5°	69.1	70.2	69.1	71.2	69.1	69.1	64.0	64.0	60.9	60.9	61.9
80°	46.4	46.4	45.4	47.5	43.3	43.3	41.3	40.2	37.1	36.1	36.1
82.5°	27.9	28.9	27.9	27.9	25.8	25.8	23.7	22.7	19.6	19.6	18.6
85°	14.4	14.4	13.4	13.4	11.3	10.3	8.3	8.3	6.2	5.2	5.2
87.5°	2.1	2.1	1.0	1.0	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



REPORT NUMBER: P633259

CATALOG NUMBER: GWS-SA2E-735-U-SLR-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2313.0	2313.0	2313.0	2313.0	2313.0	2313.0	2313.0	2313.0	2313.0	2313.0	2313.0
2.5°	2472.9	2452.3	2421.4	2391.4	2363.6	2334.7	2301.7	2267.6	2238.8	2208.8	2193.4
5°	2622.5	2580.2	2499.8	2428.6	2364.6	2312.0	2255.3	2206.8	2161.4	2124.2	2105.7
7.5°	2757.7	2691.7	2569.9	2457.5	2370.8	2298.6	2220.2	2148.0	2087.1	2041.7	2024.2
10°	2882.5	2804.1	2644.2	2501.8	2400.7	2320.3	2224.3	2126.3	2045.8	1986.0	1971.5
12.5°	2983.6	2893.9	2703.0	2537.9	2418.3	2331.6	2247.0	2162.4	2083.0	2005.6	1993.2
15°	3073.4	2967.1	2747.4	2560.6	2412.1	2301.7	2230.5	2220.2	2220.2	2132.5	2107.7
17.5°	3150.8	3034.2	2783.5	2571.0	2372.9	2213.0	2169.6	2259.4	2360.5	2297.6	2241.8
20°	3239.5	3098.1	2813.4	2571.0	2300.7	2100.5	2096.4	2249.1	2398.7	2399.7	2340.9
22.5°	3329.2	3172.4	2848.5	2561.7	2201.6	1970.5	2046.9	2207.8	2340.9	2397.6	2357.4
25°	3474.7	3275.6	2904.2	2554.4	2086.1	1881.8	2002.5	2153.1	2265.6	2325.4	2299.6
27.5°	3659.4	3411.8	2988.8	2565.8	1971.5	1829.2	1955.0	2081.9	2184.1	2236.7	2218.1
30°	3865.7	3568.6	3079.6	2585.4	1889.0	1802.3	1898.3	2000.4	2091.2	2143.8	2135.6
32.5°	4128.8	3738.8	3158.0	2558.6	1842.6	1788.9	1838.5	1911.7	1999.4	2032.4	2039.6
35°	4443.5	3926.6	3217.8	2453.3	1800.3	1774.5	1773.5	1818.9	1880.8	1933.4	1938.5
37.5°	4733.4	4146.3	3283.8	2272.8	1723.9	1738.4	1697.1	1723.9	1784.8	1837.4	1858.1
40°	5020.2	4369.2	3375.7	2042.7	1623.9	1657.9	1609.4	1628.0	1676.5	1745.6	1778.6
42.5°	5298.7	4570.4	3472.6	1807.5	1523.8	1545.5	1509.4	1527.9	1578.5	1665.1	1702.3
45°	5602.0	4842.7	3548.0	1585.7	1437.1	1427.8	1399.0	1425.8	1502.1	1597.0	1641.4
47.5°	6175.6	5271.9	3597.5	1438.2	1390.7	1323.6	1290.6	1348.4	1435.1	1531.0	1584.7
50°	6876.2	5893.0	3583.0	1344.3	1350.5	1216.4	1205.0	1281.3	1374.2	1474.3	1533.1
52.5°	7431.2	6502.7	3419.0	1254.5	1272.1	1148.3	1115.2	1226.7	1315.4	1417.5	1478.4
55°	7855.2	6708.0	2915.5	1148.3	1144.1	1098.7	1029.6	1169.9	1256.6	1351.5	1417.5
57.5°	7509.6	6251.0	2161.4	1001.8	977.0	1000.7	933.7	1074.0	1184.4	1278.3	1337.1
60°	6232.4	4984.1	1204.0	887.2	817.1	874.9	864.5	972.9	1106.0	1205.0	1255.6
62.5°	4230.9	3318.9	713.9	701.5	662.3	744.9	799.6	870.7	1001.8	1082.2	1129.7
65°	2108.8	1612.5	474.6	525.1	530.3	612.8	716.0	794.4	903.8	986.3	1033.7
67.5°	611.8	501.4	361.1	401.3	457.0	523.1	605.6	698.4	804.7	902.7	958.4
70°	264.1	267.2	286.8	334.3	388.9	457.0	539.6	630.4	720.1	795.4	837.7
72.5°	186.7	194.0	215.6	264.1	315.7	380.7	463.2	550.9	615.9	692.3	736.6
75°	119.7	124.8	142.4	179.5	217.7	280.6	359.0	439.5	506.6	561.2	603.5
77.5°	66.0	67.1	81.5	103.2	129.0	169.2	227.0	289.9	339.4	370.4	408.5
80°	38.2	38.2	45.4	58.8	74.3	99.0	131.0	162.0	191.9	211.5	230.1
82.5°	20.6	20.6	23.7	32.0	40.2	54.7	73.2	88.7	107.3	117.6	130.0
85°	6.2	6.2	8.3	11.3	14.4	20.6	28.9	37.1	45.4	52.6	59.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





REPORT NUMBER: P633259

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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2313.0	2313.0	2313.0	2313.0	2313.0	2313.0	2313.0	2313.0	2313.0	2313.0	2313.0
2.5°	2190.3	2175.8	2167.6	2157.2	2160.3	2151.1	2145.9	2149.0	2130.4	2149.0	2167.6
5°	2098.4	2077.8	2061.3	2047.9	2041.7	2029.3	2022.1	2022.1	2010.7	2029.3	2052.0
7.5°	2018.0	2001.5	1993.2	1985.0	1975.7	1964.3	1951.9	1947.8	1940.6	1960.2	1979.8
10°	1964.3	1966.4	1971.5	1982.9	1980.8	1973.6	1955.0	1944.7	1944.7	1967.4	1997.3
12.5°	1989.1	2010.7	2023.1	2043.8	2047.9	2041.7	2023.1	2014.9	2035.5	2069.6	2119.1
15°	2085.0	2099.5	2109.8	2126.3	2125.3	2120.1	2105.7	2111.9	2179.9	2246.0	2290.3
17.5°	2189.2	2172.7	2170.7	2181.0	2184.1	2177.9	2169.6	2197.5	2309.9	2371.8	2394.5
20°	2264.5	2207.8	2195.4	2199.5	2207.8	2204.7	2204.7	2250.1	2366.7	2395.6	2366.7
22.5°	2287.2	2206.8	2188.2	2189.2	2200.6	2201.6	2206.8	2254.2	2322.3	2323.3	2279.0
25°	2251.1	2173.8	2160.3	2162.4	2175.8	2174.8	2176.8	2203.7	2233.6	2221.2	2188.2
27.5°	2183.0	2116.0	2111.9	2123.2	2140.7	2131.5	2125.3	2132.5	2146.9	2131.5	2102.6
30°	2105.7	2048.9	2051.0	2072.6	2091.2	2075.7	2060.3	2064.4	2065.4	2048.9	2015.9
32.5°	2024.2	1981.9	1989.1	2011.8	2033.4	2016.9	2000.4	1998.4	1978.8	1959.2	1927.2
35°	1942.7	1926.2	1935.4	1954.0	1972.6	1959.2	1948.8	1942.7	1900.4	1871.5	1844.6
37.5°	1868.4	1880.8	1897.3	1908.6	1914.8	1913.8	1907.6	1893.1	1837.4	1803.4	1768.3
40°	1802.3	1840.5	1858.1	1863.2	1872.5	1870.4	1869.4	1848.8	1775.5	1739.4	1699.2
42.5°	1742.5	1796.2	1826.1	1831.2	1836.4	1837.4	1834.3	1804.4	1720.8	1678.5	1640.4
45°	1684.7	1754.9	1793.1	1787.9	1795.1	1795.1	1798.2	1759.0	1667.2	1623.9	1583.6
47.5°	1634.2	1716.7	1751.8	1745.6	1749.7	1752.8	1755.9	1710.5	1608.4	1567.1	1525.9
50°	1587.8	1675.5	1705.4	1707.4	1707.4	1714.7	1713.6	1669.3	1558.9	1514.5	1473.2
52.5°	1538.2	1633.2	1665.1	1678.5	1682.7	1685.8	1671.3	1619.7	1508.3	1454.7	1416.5
55°	1480.5	1589.8	1618.7	1636.2	1644.5	1642.4	1622.8	1570.2	1456.7	1403.1	1359.8
57.5°	1392.8	1497.0	1538.2	1546.5	1559.9	1551.6	1529.0	1484.6	1374.2	1320.6	1276.2
60°	1296.8	1372.1	1405.2	1412.4	1402.1	1405.2	1402.1	1359.8	1263.8	1221.5	1176.1
62.5°	1171.0	1238.0	1273.1	1282.4	1264.8	1276.2	1272.1	1219.4	1123.5	1079.1	1038.9
65°	1076.0	1149.3	1190.6	1195.7	1190.6	1195.7	1181.3	1117.3	1026.5	981.1	939.9
67.5°	1001.8	1077.1	1120.4	1134.9	1129.7	1128.7	1106.0	1031.7	937.8	888.3	835.7
70°	873.8	939.9	995.6	1030.7	1030.7	1011.0	967.7	898.6	823.3	781.0	739.7
72.5°	773.8	857.3	912.0	948.1	955.3	944.0	883.1	809.9	723.2	680.9	637.6
75°	637.6	719.1	777.9	825.3	834.6	822.3	752.1	679.9	599.4	558.1	514.8
77.5°	426.1	474.6	522.0	565.4	556.1	564.3	516.9	462.2	412.7	381.7	362.1
80°	240.4	272.4	286.8	310.5	310.5	310.5	279.6	253.8	225.9	208.4	188.8
82.5°	136.2	156.8	163.0	182.6	187.8	188.8	168.2	151.7	134.1	124.8	111.4
85°	62.9	74.3	75.3	86.7	90.8	99.0	89.8	78.4	68.1	64.0	55.7
87.5°	2.1	6.2	8.3	15.5	20.6	23.7	25.8	25.8	21.7	19.6	16.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P633259  
 CATALOG NUMBER: GWS-SA2E-735-U-SLR-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2313.0	2313.0	2313.0	2313.0	2313.0	2313.0	2313.0	2313.0	2313.0	2313.0
2.5°	2190.3	2215.0	2243.9	2264.5	2301.7	2332.6	2364.6	2399.7	2425.5	2419.3
5°	2079.9	2121.1	2173.8	2222.2	2291.4	2361.5	2438.9	2518.3	2564.8	2562.7
7.5°	2018.0	2076.8	2140.7	2205.7	2287.2	2388.3	2507.0	2630.8	2693.7	2696.8
10°	2051.0	2113.9	2157.2	2211.9	2297.6	2424.5	2566.8	2715.4	2787.6	2802.0
12.5°	2155.2	2150.0	2146.9	2186.1	2289.3	2450.2	2624.6	2802.0	2883.6	2901.1
15°	2254.2	2148.0	2084.0	2110.8	2252.2	2466.8	2681.3	2897.0	2988.8	3007.4
17.5°	2272.8	2111.9	1993.2	2011.8	2193.4	2471.9	2736.0	2989.8	3088.9	3106.4
20°	2221.2	2065.4	1927.2	1901.4	2119.1	2458.5	2770.1	3067.2	3175.5	3194.1
22.5°	2156.2	2024.2	1877.7	1810.6	2028.3	2445.1	2808.2	3148.7	3273.5	3290.0
25°	2088.1	1971.5	1831.2	1729.1	1925.1	2436.8	2872.2	3256.0	3406.6	3426.2
27.5°	2015.9	1907.6	1791.0	1689.9	1830.2	2447.1	2963.0	3429.3	3600.6	3628.4
30°	1938.5	1843.6	1765.2	1676.5	1765.2	2456.4	3063.1	3606.8	3807.9	3847.1
32.5°	1858.1	1784.8	1738.4	1682.7	1725.0	2434.8	3150.8	3805.9	4055.5	4089.6
35°	1777.6	1725.0	1704.3	1694.0	1671.3	2355.3	3221.9	4007.1	4338.2	4368.1
37.5°	1702.3	1663.1	1656.9	1668.2	1588.8	2225.3	3304.5	4262.9	4615.7	4661.1
40°	1632.1	1596.0	1595.0	1592.9	1498.0	2047.9	3415.9	4522.9	4889.1	4909.8
42.5°	1567.1	1521.7	1530.0	1505.2	1423.7	1856.0	3521.1	4744.7	5144.0	5158.4
45°	1509.4	1449.5	1458.8	1427.8	1388.6	1654.8	3614.0	5006.8	5466.9	5476.2
47.5°	1453.6	1389.7	1363.9	1361.8	1382.5	1469.1	3704.8	5511.2	5972.4	5988.9
50°	1402.1	1332.9	1259.7	1305.1	1344.3	1329.8	3818.3	6051.8	6494.4	6490.3
52.5°	1352.5	1261.7	1157.5	1245.2	1245.2	1226.7	3786.3	6379.9	6925.7	6996.9
55°	1295.8	1147.2	1051.3	1145.2	1099.8	1133.8	3219.9	6487.2	7197.0	7298.1
57.5°	1183.3	1005.9	922.3	972.9	904.8	1051.3	2313.0	5954.9	6735.9	6915.4
60°	1075.0	901.7	847.0	837.7	749.0	857.3	1499.0	4662.2	5544.3	5635.0
62.5°	948.1	811.9	765.5	694.3	602.5	624.2	907.9	3068.2	3725.4	3746.0
65°	852.2	735.6	646.9	562.3	493.1	452.9	536.5	1479.4	1862.2	1837.4
67.5°	731.5	630.4	545.8	484.9	428.1	377.6	357.0	439.5	497.3	480.8
70°	651.0	554.0	472.5	414.7	362.1	311.6	275.5	259.0	253.8	249.7
72.5°	561.2	476.6	392.0	336.3	286.8	240.4	207.4	187.8	182.6	178.5
75°	447.8	368.3	290.9	238.3	195.0	162.0	140.3	123.8	120.7	116.6
77.5°	296.1	236.3	173.3	141.3	115.5	98.0	83.6	73.2	71.2	69.1
80°	163.0	136.2	106.3	85.6	69.1	59.8	54.7	48.5	47.5	46.4
82.5°	97.0	81.5	60.9	48.5	40.2	36.1	33.0	29.9	28.9	27.9
85°	48.5	38.2	26.8	22.7	20.6	18.6	18.6	15.5	14.4	14.4
87.5°	12.4	10.3	6.2	5.2	5.2	5.2	4.1	3.1	3.1	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)