

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: P638483

Luminaire Tested: GWS-SA4E-830-U-SLR-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638483  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-42)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4E-830-U-SLR-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

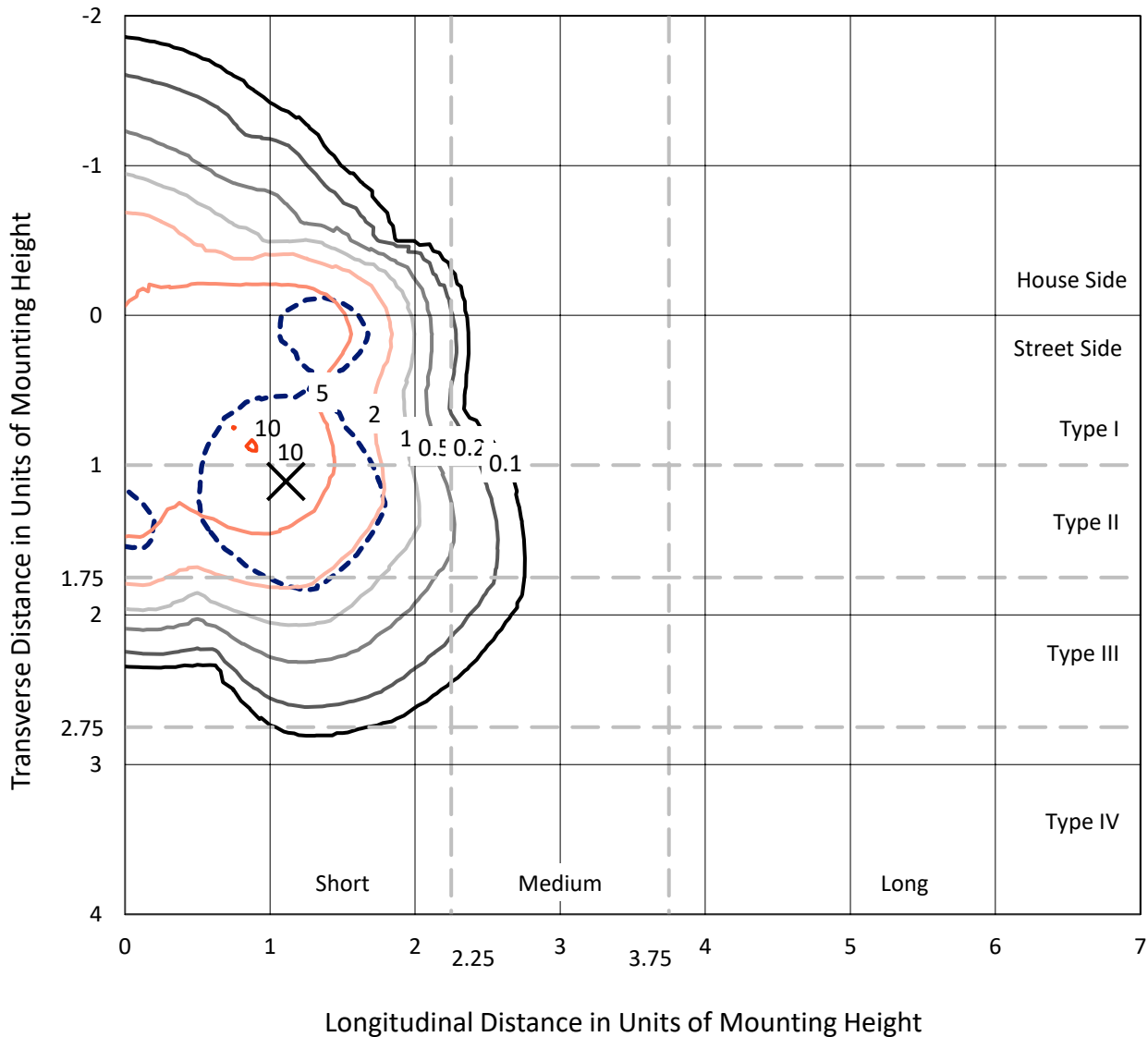
Lumens per Lamp: N/A  
Luminaire Lumens: 12969.5 lumens  
Efficiency: N/A  
Efficacy: 64.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

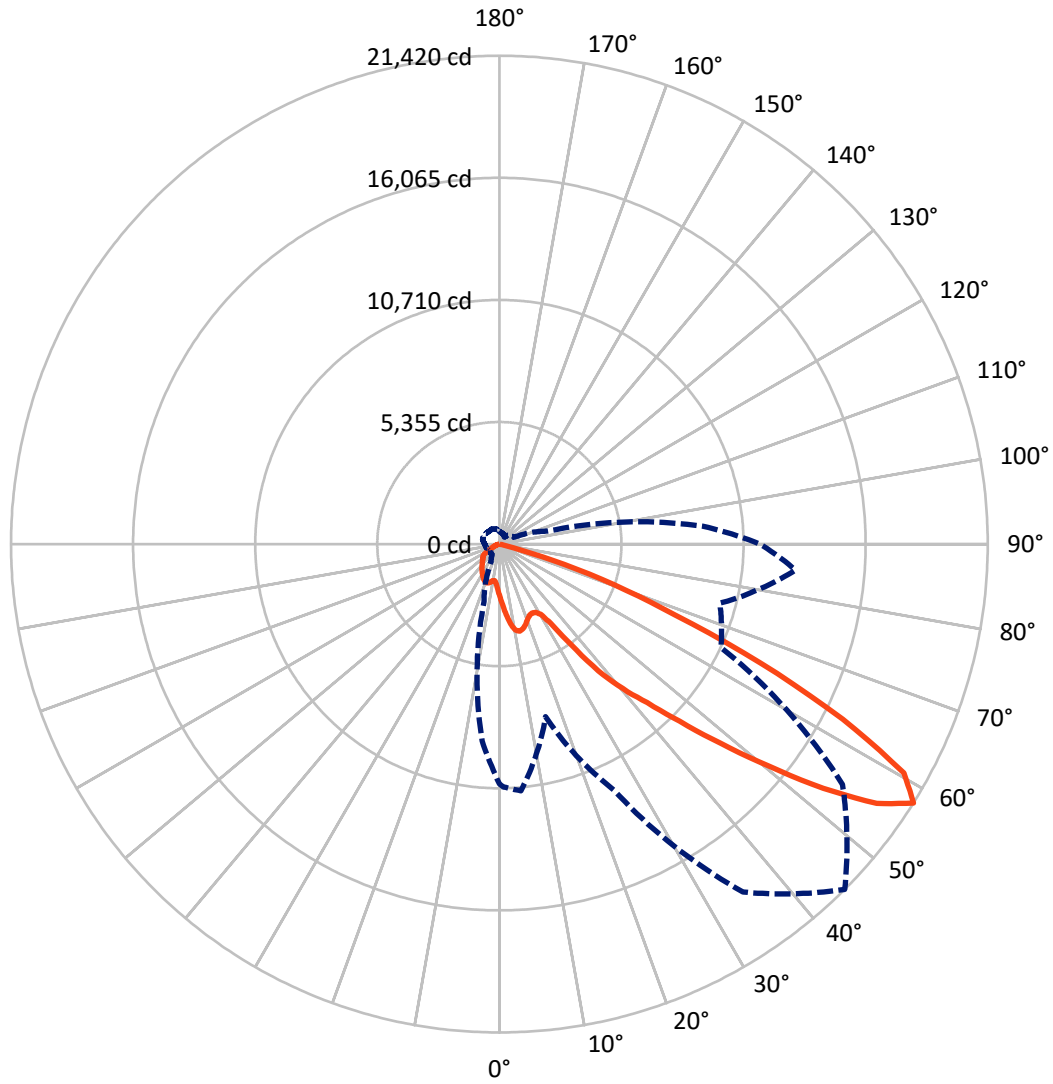
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2904.2	0.0	2904.2
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	10065.3	0.0	10065.3
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	12969.5	0.0	12969.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.3	1.7
10°-20°	725.4	5.6
20°-30°	1178.4	9.1
30°-40°	1820.9	14.0
40°-50°	2919.8	22.5
50°-60°	3990.5	30.8
60°-70°	1932.7	14.9
70°-80°	177.0	1.4
80°-90°	0.5	0.0
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°	12969.5	100.0
0°-180°	12969.5	100.0

**Coefficient of Utilization**



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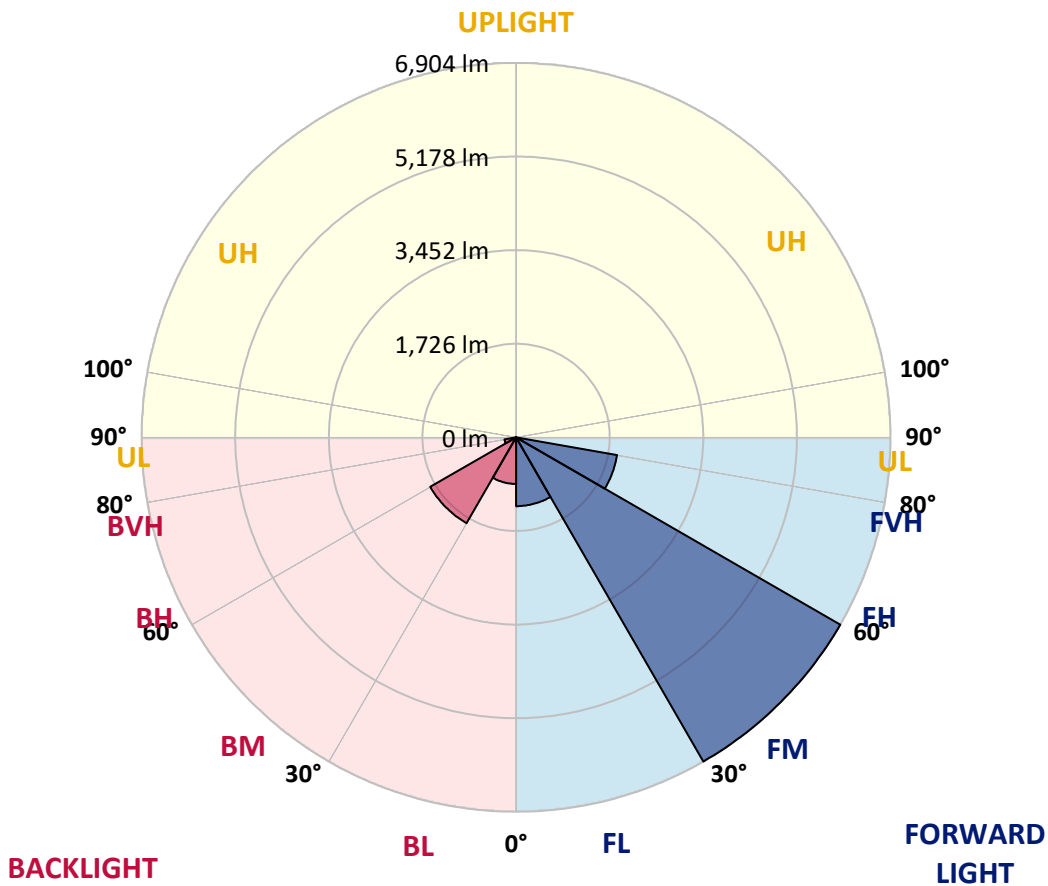
CATALOG NUMBER: GWS-SA4E-830-U-SLR-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1268.8	9.8			
FM (30°-60°)	6904.0	53.2			
FH (60°-80°)	1892.0	14.6			G2/5000
FVH (80°-90°)	0.5	0.0			G0/10
BL (0°-30°)	859.3	6.6	B2/1000		
BM (30°-60°)	1827.2	14.1	B2/2500		
BH (60°-80°)	217.7	1.7	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
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





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2279.5	2279.5	2279.5	2279.5	2279.5	2279.5	2279.5	2279.5	2279.5	2279.5	2279.5
2.5°	2469.5	2485.2	2511.3	2567.1	2614.1	2645.5	2659.5	2656.0	2636.8	2622.9	2595.0
5°	2734.4	2734.4	2784.9	2912.2	3009.7	3070.7	3102.1	3082.9	3044.6	2983.6	2889.5
7.5°	2966.2	2974.9	3060.3	3241.5	3389.7	3476.8	3527.3	3516.9	3448.9	3332.2	3143.9
10°	3147.4	3157.9	3271.2	3492.5	3666.8	3755.6	3830.6	3837.6	3762.6	3607.5	3391.4
12.5°	3323.4	3333.9	3452.4	3665.0	3818.4	3855.0	3921.2	3947.3	3928.2	3818.4	3593.6
15°	3513.4	3537.8	3638.9	3797.5	3862.0	3818.4	3862.0	3909.0	3973.5	3963.0	3760.9
17.5°	3699.9	3717.3	3820.1	3875.9	3804.4	3691.2	3712.1	3767.8	3914.2	4057.1	3926.4
20°	3872.4	3896.8	3982.2	3909.0	3692.9	3516.9	3518.6	3591.8	3814.9	4114.7	4095.5
22.5°	4053.7	4090.3	4151.3	3945.6	3590.1	3379.2	3387.9	3454.1	3736.5	4168.7	4287.2
25°	4290.7	4325.5	4365.6	4036.2	3557.0	3311.2	3344.4	3405.4	3736.5	4261.0	4524.2
27.5°	4611.3	4635.7	4637.5	4205.3	3614.5	3321.7	3391.4	3461.1	3848.0	4445.8	4841.4
30°	5013.9	5052.3	5001.7	4468.4	3794.0	3461.1	3563.9	3651.1	4088.5	4757.7	5308.4
32.5°	5503.6	5557.7	5489.7	4858.8	4168.7	3942.1	4128.6	4179.1	4471.9	5209.1	5838.2
35°	6078.7	6124.1	6050.9	5399.1	5043.5	5085.4	5423.5	5359.0	5242.2	5765.0	6456.9
37.5°	6709.6	6751.4	6610.3	6218.2	6336.7	6517.9	7058.2	6836.8	6460.4	6481.3	7127.9
40°	7288.2	7333.5	7112.2	7108.7	7352.7	7683.8	8335.6	8030.6	7518.3	7418.9	7757.0
42.5°	7887.7	7919.1	7718.7	7582.7	8136.9	8818.4	9508.5	9097.2	8218.9	8110.8	8544.7
45°	8743.4	8809.6	8452.4	7816.3	8842.8	10123.7	11085.7	10282.3	8696.4	8609.2	9750.7
47.5°	10001.7	10050.5	9322.0	7962.7	9499.8	11749.7	13056.8	11819.4	9116.4	8917.7	11399.4
50°	11042.1	11075.2	10121.9	8123.0	10198.6	13502.9	15303.2	13642.3	9588.7	9428.3	12938.2
52.5°	11808.9	11934.4	11172.8	8452.4	11117.1	15564.6	17790.1	15801.6	10325.8	10414.7	14213.9
55°	11967.5	12138.3	11890.8	8654.5	11925.7	17664.6	20087.0	17734.3	11061.3	11162.4	14642.7
57.5°	10517.6	10653.5	10859.1	7838.9	11906.5	18626.6	21420.3	18375.7	10726.7	10010.4	13037.6
60°	7879.0	7973.1	8346.1	5991.6	10949.8	17776.1	20381.6	17284.7	9379.5	7638.5	9933.7
62.5°	4672.3	4714.2	5186.5	3881.1	9088.5	15308.4	16903.0	14914.5	7412.0	5137.7	6084.0
65°	1793.3	1775.9	2136.6	1915.3	6683.5	12194.1	12572.3	11369.8	5085.4	2354.5	2319.6
67.5°	277.1	264.9	357.3	566.4	4820.5	8450.6	8295.5	8194.5	3185.8	549.0	479.3
70°	62.7	62.7	76.7	167.3	2945.3	4965.1	5313.7	5066.2	2039.0	116.8	62.7
72.5°	29.6	29.6	36.6	71.5	1066.6	2046.0	2384.1	2347.5	662.2	38.3	22.7
75°	10.5	12.2	12.2	15.7	64.5	106.3	244.0	174.3	41.8	0.0	0.0
77.5°	3.5	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2279.5	2279.5	2279.5	2279.5	2279.5	2279.5	2279.5	2279.5	2279.5	2279.5	2279.5
2.5°	2534.0	2521.8	2476.5	2415.5	2356.2	2303.9	2249.9	2185.4	2138.4	2084.3	2066.9
5°	2816.3	2739.6	2615.9	2486.9	2368.4	2267.3	2169.7	2065.2	1988.5	1911.8	1885.7
7.5°	3055.1	2941.8	2741.4	2547.9	2385.8	2242.9	2101.8	1958.9	1847.3	1756.7	1728.8
10°	3269.4	3138.7	2870.3	2631.6	2427.7	2262.1	2091.3	1911.8	1767.2	1659.1	1633.0
12.5°	3454.1	3302.5	2980.1	2694.3	2445.1	2255.1	2089.6	1946.7	1816.0	1692.2	1659.1
15°	3609.3	3441.9	3072.5	2736.1	2418.9	2168.0	2023.3	2000.7	1990.2	1854.3	1789.8
17.5°	3760.9	3572.7	3147.4	2755.3	2345.8	2014.6	1910.1	2012.9	2122.7	2033.8	1951.9
20°	3919.5	3705.1	3224.1	2758.8	2223.8	1842.1	1824.7	1986.7	2126.2	2098.3	2021.6
22.5°	4105.9	3870.7	3320.0	2757.0	2070.4	1695.7	1761.9	1936.2	2049.5	2047.7	1986.7
25°	4376.1	4079.8	3448.9	2767.5	1903.1	1582.4	1692.2	1850.8	1943.2	1939.7	1889.2
27.5°	4665.4	4329.0	3616.2	2793.6	1760.2	1516.2	1610.3	1734.0	1814.2	1810.7	1767.2
30°	5071.4	4616.6	3776.6	2795.4	1657.4	1481.3	1519.7	1605.1	1681.8	1673.0	1639.9
32.5°	5564.6	4940.7	3910.8	2696.0	1592.9	1448.2	1425.6	1469.1	1528.4	1516.2	1507.5
35°	6160.7	5325.9	4025.8	2478.2	1493.5	1382.0	1321.0	1329.7	1371.6	1378.5	1375.0
37.5°	6840.3	5784.2	4168.7	2190.6	1359.4	1286.2	1204.2	1197.3	1221.7	1244.3	1261.8
40°	7511.3	6300.1	4362.1	1899.6	1237.4	1164.2	1085.7	1068.3	1078.8	1118.9	1155.4
42.5°	8265.9	6897.8	4571.3	1650.4	1153.7	1030.0	955.0	921.9	951.5	1016.0	1059.6
45°	9353.4	7736.1	4775.2	1451.7	1118.9	911.5	810.4	806.9	840.0	923.7	972.5
47.5°	10880.0	8820.1	4909.4	1296.6	1117.1	819.1	698.8	719.8	758.1	840.0	895.8
50°	12368.4	10177.7	4761.2	1178.1	1080.5	758.1	615.2	657.0	695.4	766.8	824.3
52.5°	13265.9	10907.9	4184.4	1066.6	967.2	730.2	533.3	606.5	613.5	677.9	738.9
55°	13171.8	10435.6	3204.9	894.0	799.9	690.1	447.9	547.2	550.7	599.5	651.8
57.5°	11432.5	8959.5	2201.1	725.0	601.3	569.9	369.5	461.8	494.9	524.6	562.9
60°	8520.3	6537.1	981.2	589.1	381.7	385.1	315.4	348.6	399.1	433.9	467.1
62.5°	5020.9	3760.9	399.1	353.8	210.9	242.2	254.4	254.4	285.8	312.0	332.9
65°	1897.9	1315.8	162.1	177.8	109.8	113.3	149.9	184.7	209.1	231.8	259.7
67.5°	332.9	230.0	83.7	66.2	64.5	57.5	76.7	120.3	134.2	151.6	163.8
70°	55.8	47.1	34.9	33.1	29.6	31.4	50.5	85.4	94.1	99.3	104.6
72.5°	15.7	13.9	10.5	8.7	7.0	8.7	31.4	66.2	69.7	73.2	78.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	12.2	47.1	50.5	52.3	57.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.5	13.9	17.4	13.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2279.5	2279.5	2279.5	2279.5	2279.5	2279.5	2279.5	2279.5	2279.5	2279.5	2279.5
2.5°	2056.5	2021.6	2002.4	1992.0	1992.0	1978.0	1962.3	1957.1	1979.8	1979.8	2018.1
5°	1852.6	1824.7	1793.3	1774.1	1744.5	1749.7	1732.3	1730.6	1753.2	1763.7	1803.8
7.5°	1711.4	1676.5	1657.4	1645.2	1629.5	1622.5	1606.8	1601.6	1613.8	1631.2	1669.6
10°	1617.3	1612.1	1610.3	1619.0	1619.0	1610.3	1596.4	1587.7	1591.1	1624.3	1667.8
12.5°	1641.7	1652.1	1655.6	1669.6	1676.5	1669.6	1659.1	1662.6	1685.2	1746.2	1810.7
15°	1748.0	1739.3	1735.8	1742.8	1748.0	1741.0	1737.5	1763.7	1842.1	1929.2	2002.4
17.5°	1861.3	1805.5	1781.1	1781.1	1784.6	1781.1	1784.6	1835.1	1962.3	2049.5	2103.5
20°	1918.8	1816.0	1777.6	1768.9	1775.9	1777.6	1789.8	1847.3	1986.7	2047.7	2059.9
22.5°	1901.4	1772.4	1728.8	1721.8	1728.8	1735.8	1748.0	1796.8	1927.5	1958.9	1953.6
25°	1814.2	1687.0	1652.1	1652.1	1667.8	1666.1	1671.3	1706.2	1814.2	1833.4	1824.7
27.5°	1704.4	1584.2	1554.5	1572.0	1585.9	1582.4	1584.2	1613.8	1694.0	1699.2	1690.5
30°	1592.9	1488.3	1460.4	1481.3	1500.5	1497.0	1498.8	1528.4	1578.9	1573.7	1561.5
32.5°	1479.6	1402.9	1382.0	1394.2	1423.8	1420.3	1427.3	1458.7	1477.9	1455.2	1441.3
35°	1375.0	1335.0	1319.3	1326.2	1348.9	1354.1	1366.3	1387.2	1387.2	1359.4	1335.0
37.5°	1277.4	1272.2	1261.8	1253.0	1274.0	1289.6	1307.1	1331.5	1296.6	1256.5	1233.9
40°	1186.8	1209.5	1195.5	1172.9	1185.1	1207.7	1242.6	1261.8	1219.9	1179.8	1141.5
42.5°	1103.2	1141.5	1136.3	1108.4	1118.9	1139.8	1179.8	1195.5	1146.7	1101.4	1064.8
45°	1023.0	1077.0	1080.5	1045.7	1056.1	1077.0	1124.1	1129.3	1066.6	1017.8	991.6
47.5°	953.3	1012.5	1014.3	988.1	991.6	1021.3	1064.8	1066.6	995.1	949.8	916.7
50°	887.1	955.0	960.3	937.6	941.1	975.9	1012.5	1005.6	928.9	881.8	852.2
52.5°	806.9	899.3	911.5	901.0	914.9	942.8	965.5	941.1	852.2	805.2	779.0
55°	719.8	840.0	866.2	859.2	874.9	897.5	902.7	887.1	775.5	728.5	704.1
57.5°	618.7	691.9	737.2	723.2	735.4	758.1	773.8	761.6	677.9	641.3	620.4
60°	512.4	561.2	571.6	549.0	538.5	578.6	615.2	599.5	528.1	505.4	481.0
62.5°	374.7	430.5	437.4	407.8	395.6	439.2	470.5	454.9	376.4	352.0	332.9
65°	299.8	352.0	366.0	338.1	331.1	364.2	383.4	345.1	289.3	263.2	242.2
67.5°	196.9	238.8	275.4	273.6	259.7	270.1	256.2	224.8	184.7	170.8	156.8
70°	122.0	146.4	169.0	177.8	176.0	172.5	153.4	130.7	118.5	113.3	106.3
72.5°	94.1	118.5	135.9	141.2	142.9	137.7	122.0	101.1	88.9	81.9	76.7
75°	69.7	88.9	102.8	109.8	113.3	109.8	94.1	80.2	68.0	62.7	57.5
77.5°	24.4	29.6	36.6	40.1	38.3	36.6	33.1	33.1	26.1	24.4	20.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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: P638483

CATALOG NUMBER: GWS-SA4E-830-U-SLR-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2279.5	2279.5	2279.5	2279.5	2279.5	2279.5	2279.5	2279.5	2279.5	2279.5
2.5°	2061.7	2093.1	2150.6	2202.8	2258.6	2316.1	2378.9	2443.3	2473.0	2469.5
5°	1864.8	1932.7	2026.8	2129.7	2244.7	2368.4	2506.1	2647.3	2708.2	2734.4
7.5°	1741.0	1836.9	1960.6	2091.3	2242.9	2418.9	2626.3	2847.7	2936.5	2966.2
10°	1756.7	1868.2	1971.1	2098.3	2260.4	2488.7	2746.6	3009.7	3114.3	3147.4
12.5°	1883.9	1908.3	1936.2	2040.8	2244.7	2540.9	2856.4	3170.1	3290.3	3323.4
15°	1998.9	1885.7	1833.4	1929.2	2188.9	2577.5	2967.9	3342.6	3475.1	3513.4
17.5°	2004.2	1833.4	1716.6	1791.6	2098.3	2593.2	3077.7	3518.6	3663.3	3699.9
20°	1939.7	1775.9	1626.0	1627.7	1974.5	2589.7	3168.3	3677.2	3839.3	3872.4
22.5°	1845.6	1707.9	1552.8	1498.8	1842.1	2582.8	3267.7	3846.3	4022.3	4053.7
25°	1741.0	1620.8	1483.1	1401.2	1709.6	2589.7	3407.1	4067.6	4261.0	4290.7
27.5°	1627.7	1524.9	1429.1	1362.8	1598.1	2615.9	3574.4	4349.9	4580.0	4611.3
30°	1509.2	1432.5	1394.2	1354.1	1528.4	2622.9	3755.6	4679.3	4970.3	5013.9
32.5°	1392.5	1350.6	1352.4	1359.4	1462.2	2574.1	3921.2	5045.3	5433.9	5503.6
35°	1284.4	1272.2	1307.1	1341.9	1366.3	2448.6	4065.9	5477.5	6007.3	6078.7
37.5°	1192.0	1202.5	1246.1	1280.9	1261.8	2270.8	4257.6	6017.7	6648.6	6709.6
40°	1103.2	1129.3	1179.8	1195.5	1181.6	2063.4	4487.6	6538.8	7204.6	7288.2
42.5°	1021.3	1040.4	1111.9	1115.4	1158.9	1852.6	4708.9	7100.0	7844.2	7887.7
45°	955.0	951.5	1024.7	1047.4	1188.6	1619.0	4925.0	7847.6	8680.7	8743.4
47.5°	890.5	887.1	904.5	1007.3	1200.8	1402.9	5139.4	8942.1	9893.6	10001.7
50°	829.6	834.8	780.8	988.1	1134.5	1237.4	5237.0	9954.6	10996.8	11042.1
52.5°	775.5	756.4	662.2	925.4	993.4	1080.5	4959.9	10414.7	11680.0	11808.9
55°	698.8	592.5	545.5	751.1	784.2	942.8	4062.4	10148.1	11739.2	11967.5
57.5°	597.8	465.3	463.6	554.2	554.2	874.9	2601.9	8670.2	10116.7	10517.6
60°	460.1	360.8	383.4	385.1	355.5	637.8	1460.4	6280.9	7479.9	7879.0
62.5°	327.6	275.4	289.3	230.0	203.9	318.9	700.6	3616.2	4616.6	4672.3
65°	219.6	186.5	151.6	127.2	125.5	135.9	289.3	1307.1	1589.4	1793.3
67.5°	144.6	113.3	80.2	80.2	90.6	90.6	109.8	216.1	303.2	277.1
70°	94.1	78.4	50.5	48.8	59.3	59.3	55.8	59.3	62.7	62.7
72.5°	69.7	59.3	29.6	26.1	33.1	34.9	31.4	29.6	29.6	29.6
75°	52.3	41.8	17.4	12.2	15.7	20.9	17.4	12.2	12.2	10.5
77.5°	20.9	15.7	7.0	5.2	8.7	12.2	10.5	5.2	3.5	3.5
80°	1.7	3.5	3.5	3.5	5.2	7.0	8.7	3.5	1.7	1.7
82.5°	0.0	1.7	1.7	1.7	3.5	5.2	7.0	3.5	1.7	1.7
85°	0.0	0.0	0.0	0.0	3.5	5.2	3.5	1.7	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	1.7	5.2	3.5	1.7	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)