

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: P638259

Luminaire Tested: GWS-SA4E-740-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638259
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-740-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16409.7 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

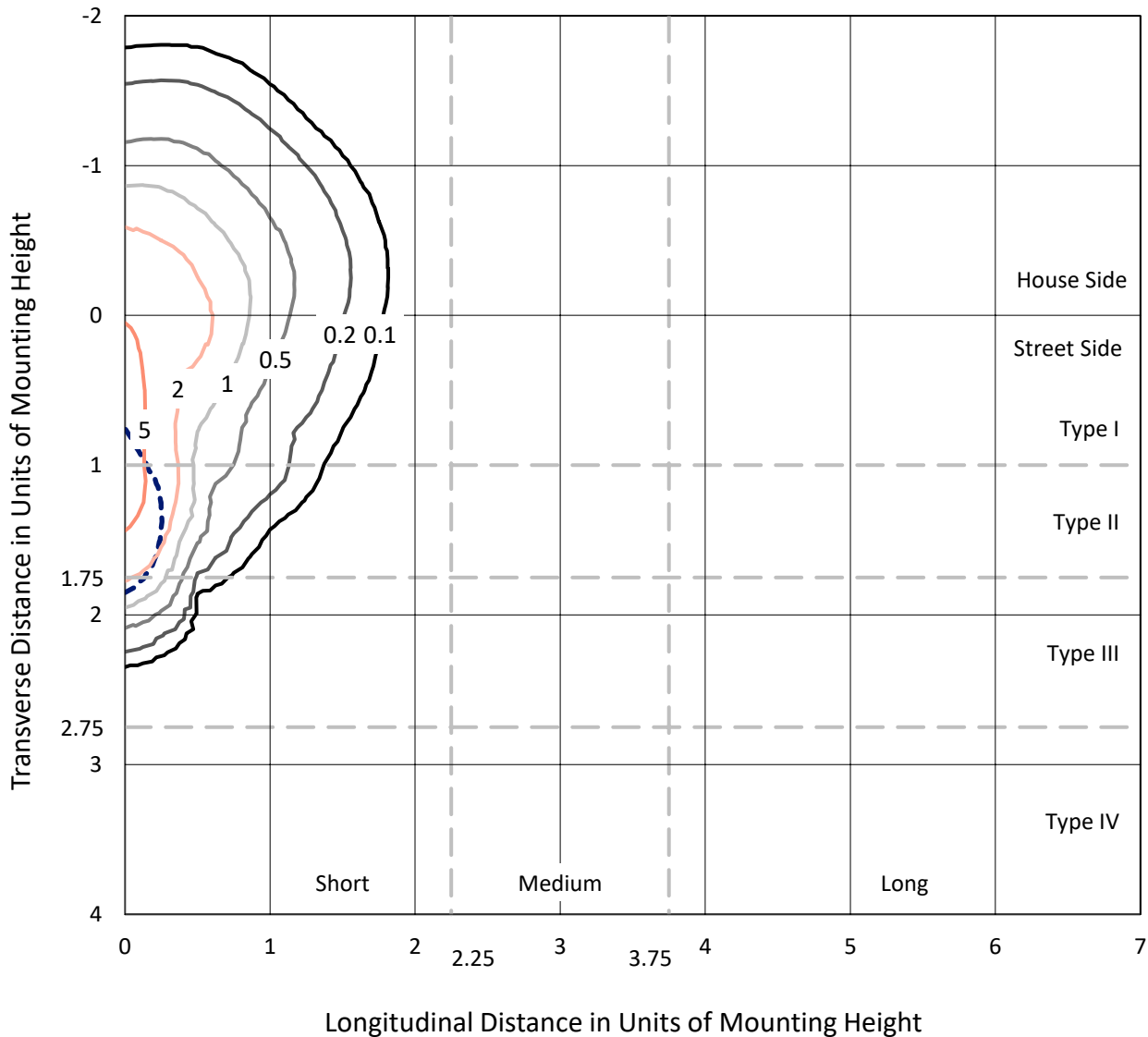
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

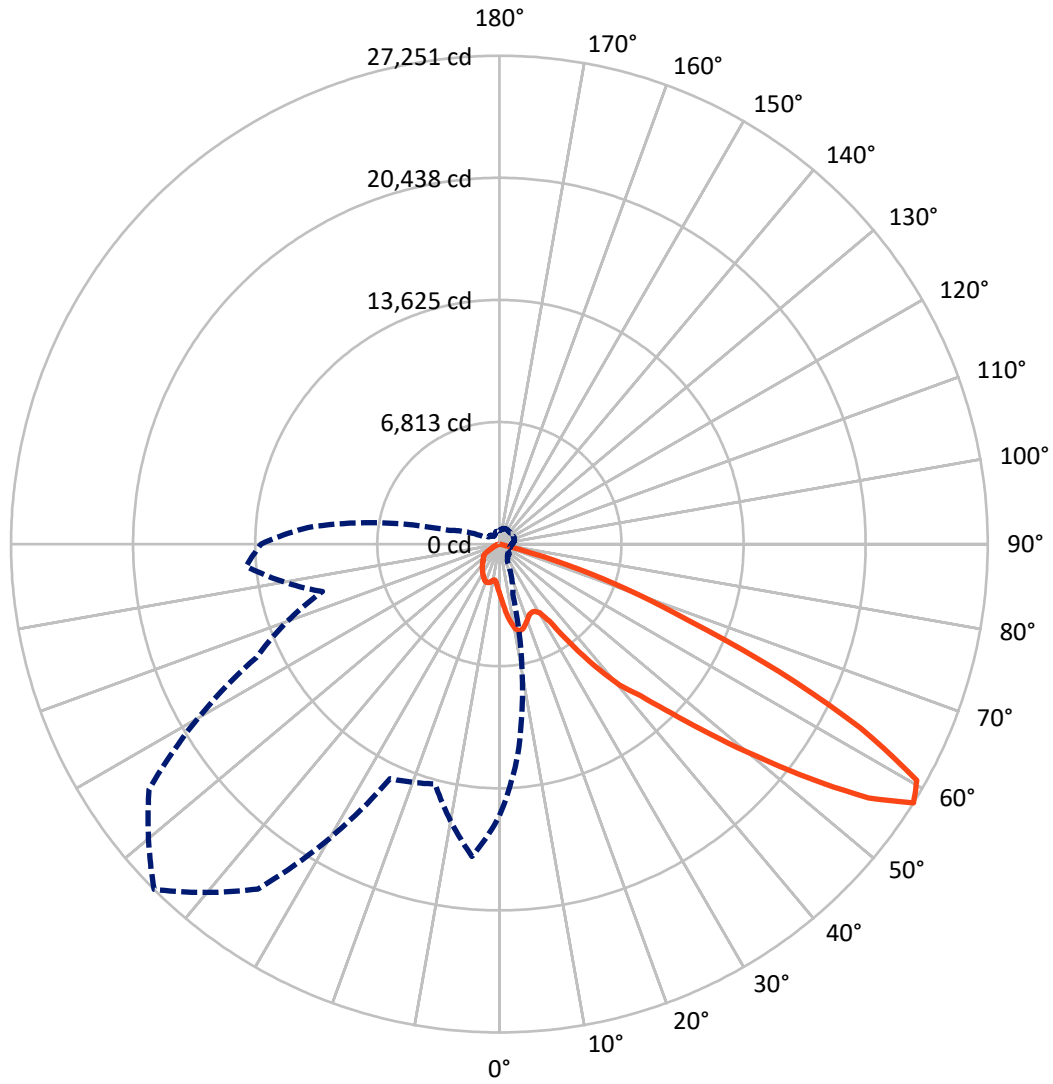
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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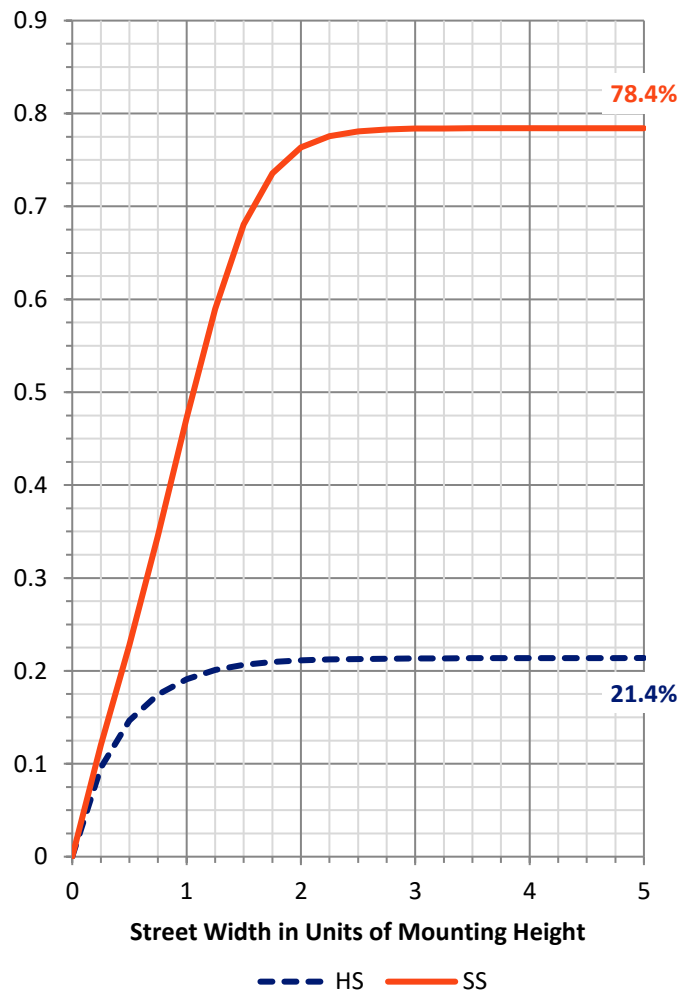
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3535.2	0.0	3535.2
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	12874.5	0.0	12874.5
	% Fixture	78.5	0.0	78.5
Total	Lumens	16409.7	0.0	16409.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.6	1.7
10°-20°	906.8	5.5
20°-30°	1471.7	9.0
30°-40°	2258.7	13.8
40°-50°	3607.2	22.0
50°-60°	5050.8	30.8
60°-70°	2589.7	15.8
70°-80°	249.3	1.5
80°-90°	0.0	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°	16409.7	100.0
0°-180°	16409.7	100.0

Coefficient of Utilization



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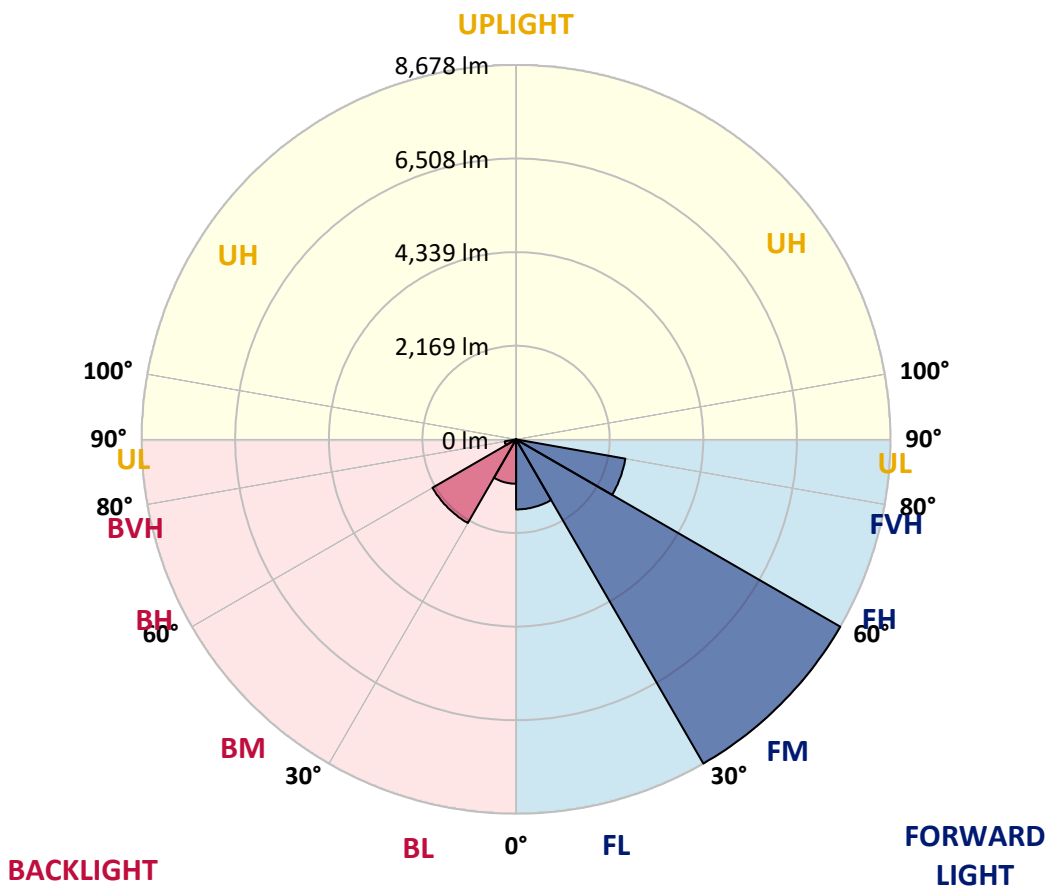
CATALOG NUMBER: GWS-SA4E-740-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1624.7	9.9			
FM (30°-60°)	8677.8	52.9			
FH (60°-80°)	2572.0	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1029.4	6.3	B3/2500		
BM (30°-60°)	2238.8	13.6	B2/2500		
BH (60°-80°)	267.0	1.6	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: 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°	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3
2.5°	3097.6	3091.0	3069.1	2994.5	2948.4	2876.0	2823.4	2755.3	2680.8	2634.7	2588.6
5°	3426.6	3409.1	3349.9	3178.7	3047.1	2904.5	2790.4	2665.4	2531.6	2443.8	2362.7
7.5°	3742.5	3716.2	3637.2	3347.7	3148.0	2944.0	2781.7	2599.6	2410.9	2279.3	2178.4
10°	4051.8	3992.6	3867.6	3512.2	3242.4	2996.7	2805.8	2597.4	2375.8	2209.1	2097.2
12.5°	4306.3	4262.4	4091.3	3667.9	3321.3	3007.6	2772.9	2579.8	2430.7	2318.8	2215.7
15°	4525.7	4477.4	4315.1	3808.3	3389.3	2963.8	2634.7	2465.8	2489.9	2533.8	2446.0
17.5°	4727.5	4677.1	4501.6	3924.6	3415.7	2856.3	2441.6	2360.5	2494.3	2658.8	2625.9
20°	4935.9	4878.9	4663.9	4018.9	3406.9	2687.3	2246.4	2270.5	2459.2	2647.9	2665.4
22.5°	5179.4	5120.2	4870.1	4139.6	3400.3	2485.5	2077.5	2191.6	2393.4	2553.5	2584.2
25°	5501.9	5431.7	5157.5	4317.3	3417.9	2301.2	1956.8	2114.8	2281.5	2426.3	2443.8
27.5°	5927.5	5837.6	5488.8	4536.7	3455.1	2156.5	1904.2	2009.5	2138.9	2268.3	2283.7
30°	6482.5	6368.4	5868.3	4727.5	3437.6	2055.5	1869.1	1904.2	1981.0	2086.3	2088.4
32.5°	7131.9	6976.1	6293.9	4892.1	3286.2	1981.0	1820.8	1796.7	1814.2	1895.4	1910.8
35°	7895.3	7693.5	6763.3	5047.8	3009.8	1836.2	1733.1	1651.9	1645.3	1684.8	1722.1
37.5°	8770.6	8529.3	7355.6	5247.4	2683.0	1684.8	1603.6	1522.5	1487.4	1507.1	1564.1
40°	9577.9	9310.3	7974.3	5488.8	2349.5	1548.8	1452.3	1368.9	1327.2	1333.8	1404.0
42.5°	10525.6	10249.2	8731.1	5804.7	2073.1	1456.6	1294.3	1208.8	1153.9	1184.6	1265.8
45°	11964.7	11651.0	9834.6	6078.9	1853.7	1434.7	1156.1	1035.4	1009.1	1061.8	1158.3
47.5°	13930.3	13546.4	11350.4	6245.6	1667.2	1454.5	1059.6	895.0	901.6	960.9	1057.4
50°	15880.5	15465.9	13103.2	6026.2	1513.7	1415.0	1011.3	785.4	827.0	879.7	967.4
52.5°	17220.9	16681.2	13956.6	5392.2	1373.3	1265.8	1006.9	682.3	761.2	778.8	853.4
55°	17273.6	16608.9	13520.1	4251.5	1182.4	1068.4	960.9	596.7	688.8	695.4	759.0
57.5°	15141.2	14540.1	11815.5	2919.9	1050.8	783.2	765.6	522.1	566.0	620.8	660.3
60°	11519.4	11008.2	8836.4	1338.2	798.5	498.0	524.3	449.7	423.4	504.6	544.0
62.5°	7055.1	6728.2	5300.1	592.3	508.9	265.4	318.1	357.6	318.1	348.8	381.7
65°	2801.4	2656.6	2011.7	252.3	208.4	133.8	144.8	208.4	223.8	245.7	276.4
67.5°	487.0	460.7	337.8	111.9	85.6	81.2	70.2	96.5	136.0	151.4	175.5
70°	63.6	61.4	54.8	46.1	43.9	39.5	30.7	61.4	92.1	96.5	111.9
72.5°	15.4	13.2	13.2	11.0	13.2	4.4	4.4	32.9	65.8	68.0	79.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	41.7	46.1	54.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3
2.5°	2551.3	2507.5	2492.1	2470.2	2441.6	2450.4	2410.9	2397.8	2417.5	2443.8	2437.3
5°	2318.8	2270.5	2237.6	2187.2	2178.4	2158.6	2145.5	2127.9	2149.9	2180.6	2187.2
7.5°	2134.5	2092.8	2059.9	2044.6	2033.6	2024.8	1998.5	1985.3	1985.3	1998.5	2009.5
10°	2055.5	2024.8	2018.2	2022.6	2040.2	2038.0	2013.9	1996.3	1974.4	1963.4	1976.6
12.5°	2165.2	2114.8	2106.0	2108.2	2130.1	2127.9	2101.6	2079.7	2075.3	2079.7	2121.4
15°	2351.7	2274.9	2217.9	2206.9	2217.9	2213.5	2193.7	2180.6	2187.2	2250.8	2321.0
17.5°	2518.4	2400.0	2296.9	2257.4	2255.2	2248.6	2228.8	2224.5	2257.4	2375.8	2478.9
20°	2566.7	2450.4	2303.4	2253.0	2242.0	2235.4	2213.5	2220.1	2261.8	2404.3	2492.1
22.5°	2503.1	2391.2	2237.6	2187.2	2178.4	2176.2	2154.3	2163.0	2198.1	2323.2	2395.6
25°	2382.4	2288.1	2127.9	2084.1	2084.1	2079.7	2059.9	2064.3	2086.3	2195.9	2266.1
27.5°	2235.4	2145.5	2011.7	1967.8	1974.4	1981.0	1956.8	1950.2	1967.8	2070.9	2112.6
30°	2066.5	2002.9	1897.6	1858.1	1855.9	1882.2	1849.3	1840.6	1864.7	1945.9	1954.6
32.5°	1902.0	1871.3	1796.7	1766.0	1768.2	1772.5	1755.0	1755.0	1776.9	1820.8	1818.6
35°	1741.8	1722.1	1708.9	1687.0	1684.8	1676.0	1676.0	1680.4	1704.5	1719.9	1691.4
37.5°	1588.3	1608.0	1623.4	1601.4	1583.9	1583.9	1583.9	1603.6	1625.6	1619.0	1570.7
40°	1452.3	1493.9	1542.2	1518.1	1476.4	1474.2	1483.0	1515.9	1548.8	1509.3	1465.4
42.5°	1336.0	1388.6	1456.6	1443.5	1397.4	1390.8	1397.4	1439.1	1465.4	1415.0	1366.7
45°	1221.9	1287.7	1368.9	1368.9	1318.4	1311.9	1314.1	1368.9	1384.3	1325.0	1263.6
47.5°	1125.4	1197.8	1283.3	1283.3	1241.7	1228.5	1239.5	1296.5	1307.5	1224.1	1167.1
50°	1033.3	1112.2	1206.6	1200.0	1171.5	1160.5	1180.2	1241.7	1228.5	1136.4	1077.1
52.5°	917.0	1000.3	1129.8	1136.4	1121.0	1123.2	1147.3	1186.8	1149.5	1037.6	987.2
55°	811.7	897.2	1026.7	1061.8	1061.8	1059.6	1070.5	1101.3	1070.5	936.7	875.3
57.5°	697.6	770.0	877.5	886.3	892.9	868.7	884.1	925.8	910.4	796.3	761.2
60°	572.6	634.0	695.4	702.0	673.5	623.0	651.5	699.8	710.8	625.2	585.7
62.5°	405.8	465.1	537.5	537.5	508.9	458.5	495.8	537.5	522.1	434.4	410.2
65°	302.7	357.6	412.4	436.6	412.4	377.3	405.8	436.6	412.4	340.0	304.9
67.5°	195.2	232.5	265.4	285.2	289.6	285.2	298.3	289.6	261.1	212.8	193.0
70°	118.5	138.2	155.8	173.3	186.5	193.0	199.6	179.9	151.4	125.0	118.5
72.5°	85.6	103.1	118.5	131.6	147.0	151.4	151.4	138.2	111.9	87.7	81.2
75°	59.2	74.6	87.7	96.5	109.7	114.1	114.1	103.1	83.4	63.6	57.0
77.5°	2.2	15.4	15.4	13.2	17.5	21.9	21.9	26.3	24.1	17.5	15.4
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°	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3
2.5°	2450.4	2529.4	2551.3	2632.5	2704.9	2777.3	2865.0	2917.7	2996.7	3051.5	3082.2
5°	2209.1	2274.9	2353.9	2474.5	2599.6	2737.8	2904.5	3049.3	3231.4	3365.2	3409.1
7.5°	2033.6	2119.2	2211.3	2362.7	2533.8	2718.1	2952.8	3189.7	3468.3	3650.4	3766.7
10°	2000.7	2088.4	2211.3	2360.5	2540.4	2751.0	3038.3	3345.5	3694.3	3915.8	4047.5
12.5°	2158.6	2253.0	2305.6	2373.6	2509.6	2744.4	3112.9	3503.4	3913.6	4155.0	4295.4
15°	2391.2	2474.5	2389.0	2303.4	2391.2	2674.2	3154.6	3635.0	4106.7	4385.3	4530.1
17.5°	2551.3	2557.9	2371.4	2189.4	2213.5	2546.9	3170.0	3766.7	4312.9	4604.7	4756.0
20°	2536.0	2483.3	2294.7	2092.8	2018.2	2382.4	3152.4	3882.9	4521.3	4826.2	4975.4
22.5°	2417.5	2356.1	2195.9	1998.5	1853.7	2187.2	3121.7	3988.2	4712.2	5058.8	5199.2
25°	2274.9	2209.1	2077.5	1904.2	1748.4	1998.5	3097.6	4133.0	4953.5	5361.5	5471.2
27.5°	2108.2	2051.2	1939.3	1814.2	1704.5	1855.9	3091.0	4323.9	5245.2	5730.1	5806.8
30°	1945.9	1893.2	1805.5	1733.1	1687.0	1772.5	3069.1	4527.9	5594.1	6153.5	6236.8
32.5°	1790.1	1737.4	1682.6	1671.6	1673.8	1741.8	2994.5	4729.7	6008.7	6767.7	6829.1
35°	1656.3	1594.9	1572.9	1599.2	1647.5	1689.2	2783.9	4896.4	6454.0	7436.8	7487.3
37.5°	1529.0	1467.6	1465.4	1529.0	1581.7	1608.0	2536.0	5061.0	7055.1	8116.9	8180.5
40°	1412.8	1351.3	1373.3	1450.1	1491.7	1504.9	2235.4	5311.1	7691.3	8834.2	8799.1
42.5°	1314.1	1250.4	1263.6	1362.3	1399.6	1434.7	1959.0	5519.5	8303.3	9514.3	9503.3
45°	1217.5	1169.3	1160.5	1268.0	1300.9	1441.3	1757.2	5679.6	9090.9	10380.8	10398.4
47.5°	1123.2	1085.9	1088.1	1134.2	1215.3	1474.2	1586.1	5784.9	10233.8	11754.1	11449.2
50°	1037.6	1009.1	1033.3	980.6	1160.5	1432.5	1439.1	5763.0	11510.6	13070.3	12458.3
52.5°	943.3	936.7	947.7	820.5	1072.7	1263.6	1300.9	5471.2	12109.5	13969.8	13621.0
55°	846.8	844.6	756.8	655.9	897.2	1009.1	1114.4	4565.2	12089.7	14448.0	14871.4
57.5°	732.7	715.2	574.8	535.3	697.6	702.0	1015.7	2990.1	10714.3	13302.9	14180.4
60°	555.0	541.9	421.2	434.4	487.0	449.7	809.5	1489.6	8007.2	10363.3	11352.6
62.5°	383.9	366.4	313.7	335.6	313.7	256.7	495.8	737.1	4850.4	6543.9	7441.2
65°	280.8	261.1	215.0	184.3	147.0	147.0	188.7	283.0	1877.8	2781.7	3354.2
67.5°	173.3	164.5	127.2	92.1	89.9	96.5	98.7	140.4	302.7	482.6	590.1
70°	111.9	103.1	85.6	59.2	54.8	57.0	59.2	65.8	76.8	83.4	100.9
72.5°	76.8	72.4	61.4	32.9	26.3	28.5	30.7	30.7	37.3	35.1	41.7
75°	54.8	50.5	43.9	15.4	8.8	11.0	13.2	11.0	13.2	8.8	11.0
77.5°	15.4	15.4	11.0	2.2	0.0	2.2	4.4	4.4	2.2	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2	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: P638259

CATALOG NUMBER: GWS-SA4E-740-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3
2.5°	3161.2	3211.6	3231.4	3202.9	3227.0	3187.5	3172.2	3112.9	3108.5	3097.6
5°	3586.8	3700.8	3768.9	3810.5	3762.3	3709.6	3630.6	3494.6	3453.0	3426.6
7.5°	4005.8	4183.5	4299.7	4354.6	4341.4	4233.9	4091.3	3863.2	3782.0	3742.5
10°	4369.9	4587.1	4727.5	4795.5	4767.0	4672.7	4468.7	4183.5	4076.0	4051.8
12.5°	4624.4	4824.0	4920.6	4979.8	4982.0	4944.7	4751.7	4464.3	4337.0	4306.3
15°	4784.6	4870.1	4872.3	4907.4	4968.8	5052.2	4962.3	4707.8	4571.8	4525.7
17.5°	4885.5	4791.1	4694.6	4703.4	4804.3	5025.9	5118.0	4922.8	4778.0	4727.5
20°	4957.9	4659.5	4479.6	4481.8	4584.9	4920.6	5225.5	5131.2	4982.0	4935.9
22.5°	5003.9	4543.2	4286.6	4280.0	4389.7	4795.5	5324.2	5379.1	5232.1	5179.4
25°	5098.3	4488.4	4170.3	4207.6	4304.1	4756.0	5458.0	5708.1	5572.1	5501.9
27.5°	5267.2	4543.2	4159.3	4244.9	4354.6	4872.3	5690.6	6146.9	6006.5	5927.5
30°	5559.0	4749.5	4328.3	4446.7	4578.3	5177.2	6081.1	6758.9	6557.1	6482.5
32.5°	6028.4	5177.2	4850.4	5104.8	5232.1	5677.4	6666.8	7445.6	7281.0	7131.9
35°	6675.6	6153.5	6116.2	6708.5	6677.8	6625.1	7386.3	8288.0	8040.1	7895.3
37.5°	7566.2	7724.2	8000.6	8588.5	8568.8	8167.3	8331.8	9084.3	8957.1	8770.6
40°	8678.5	9014.1	9483.6	10326.0	10062.7	9558.2	9492.3	9900.4	9797.3	9577.9
42.5°	9334.4	9913.5	10808.6	11565.4	11354.8	10472.9	10398.4	10990.7	10764.7	10525.6
45°	9639.3	10646.2	12401.2	13425.7	12787.3	11080.6	11052.1	12412.2	12285.0	11964.7
47.5°	9779.7	11385.5	14265.9	15816.9	14623.5	11613.7	11510.6	14474.3	14307.6	13930.3
50°	9935.5	12405.6	16512.3	18587.6	16841.4	12217.0	12291.6	16396.1	16325.9	15880.5
52.5°	10277.7	13485.0	19278.6	21755.4	19530.9	13162.5	13631.9	18208.1	17734.2	17220.9
55°	10791.0	14660.8	22156.8	24991.2	22275.3	14432.7	15082.0	19171.1	17841.7	17273.6
57.5°	10222.9	14954.8	23861.4	27250.7	23492.8	14437.0	13855.7	17501.7	15691.9	15141.2
60°	8112.5	13912.7	23205.4	26761.5	22455.2	12820.3	10609.0	13664.8	11887.9	11519.4
62.5°	5484.4	11668.5	20428.2	22632.9	19219.4	10084.7	6894.9	8886.9	7360.0	7055.1
65°	3005.4	8704.8	16505.7	17122.2	15042.5	7044.1	3547.3	3856.6	2937.4	2801.4
67.5°	829.2	6059.1	12144.6	11359.2	10554.1	4587.1	917.0	688.8	491.4	487.0
70°	208.4	4008.0	7276.7	7500.4	6471.6	2937.4	175.5	83.4	65.8	63.6
72.5°	87.7	1724.3	3453.0	3968.5	3312.6	1360.1	63.6	24.1	19.7	15.4
75°	11.0	138.2	294.0	445.3	304.9	147.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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
85°	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
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)