

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: P640349

Luminaire Tested: GWS-SA5D-760-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640349
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-SA5D-760-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16251.8 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

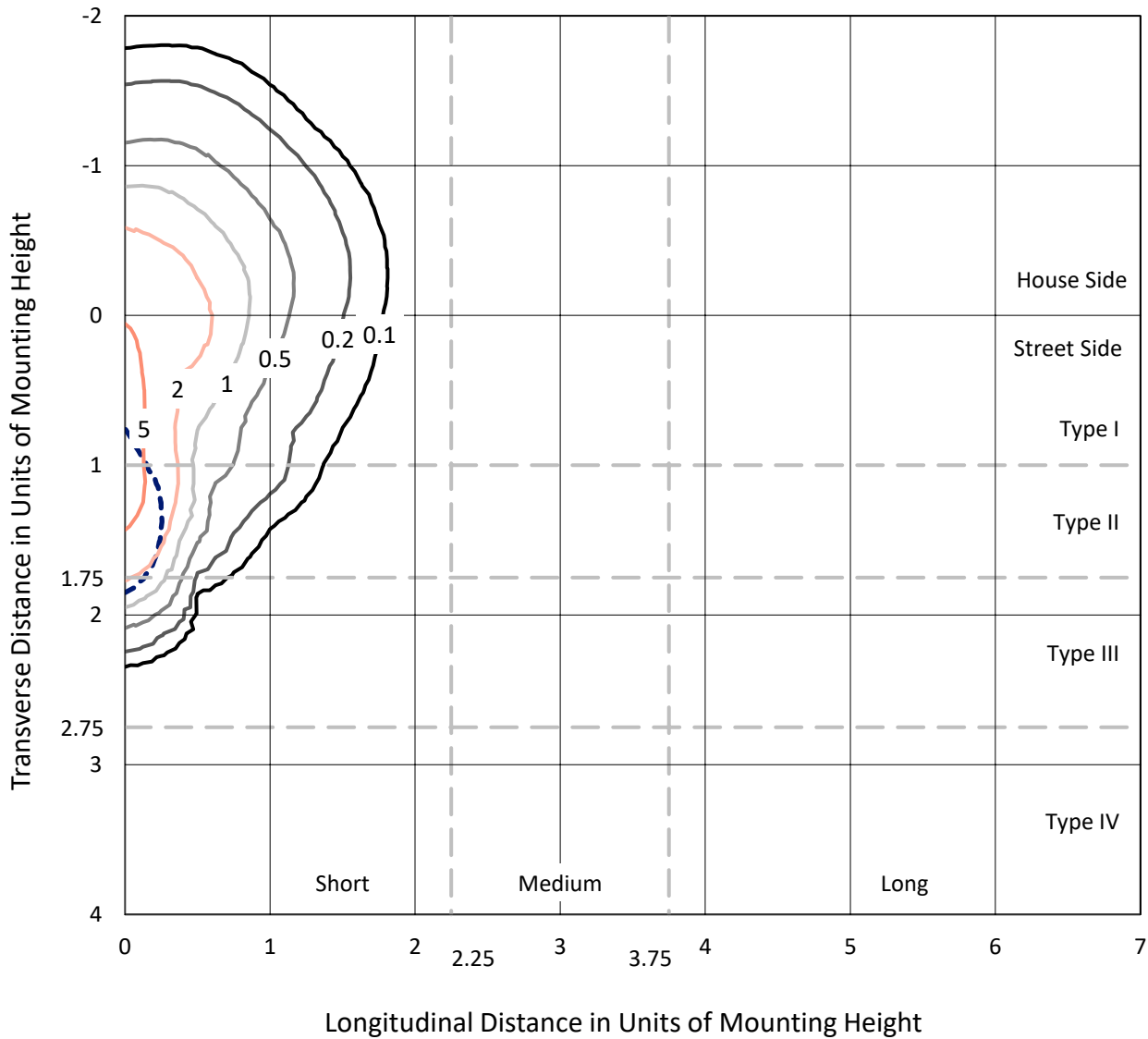
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

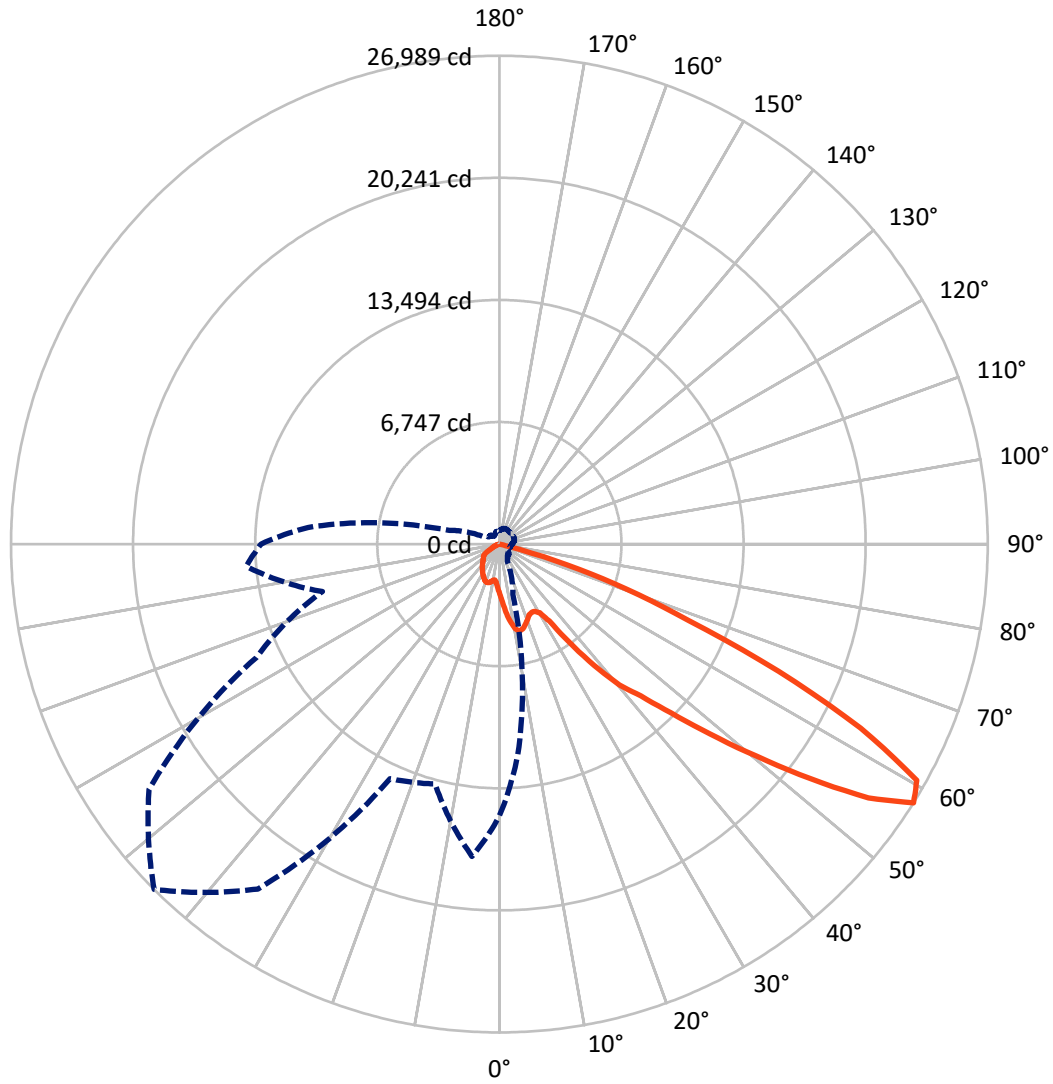
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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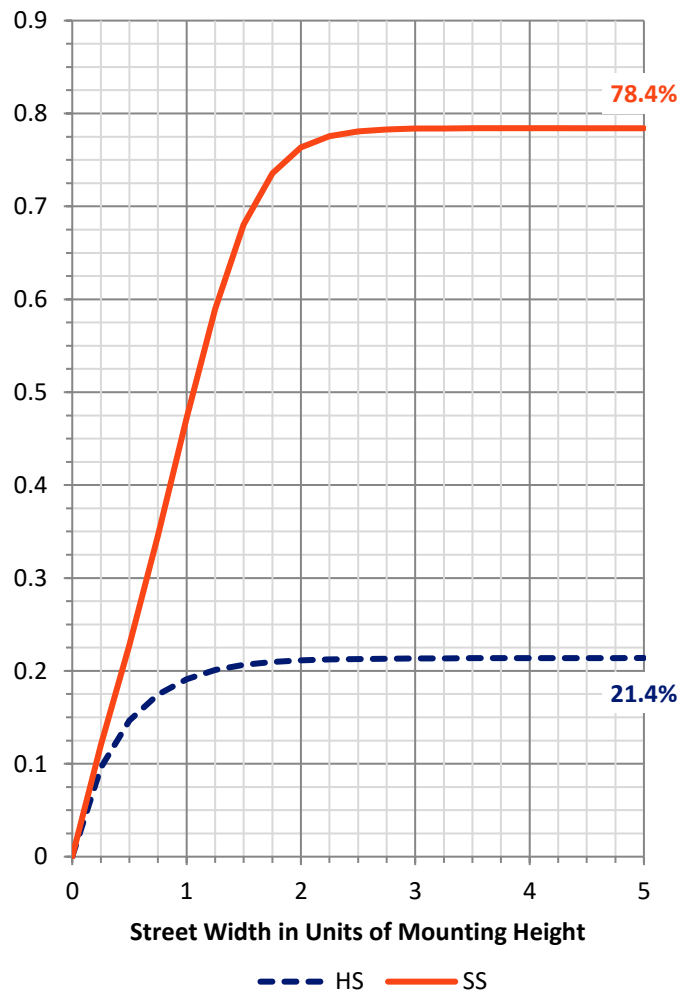
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3501.2	0.0	3501.2
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	12750.6	0.0	12750.6
	% Fixture	78.5	0.0	78.5
Total	Lumens	16251.8	0.0	16251.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.9	1.7
10°-20°	898.1	5.5
20°-30°	1457.5	9.0
30°-40°	2236.9	13.8
40°-50°	3572.5	22.0
50°-60°	5002.2	30.8
60°-70°	2564.7	15.8
70°-80°	246.9	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°	16251.8	100.0
0°-180°	16251.8	100.0

Coefficient of Utilization



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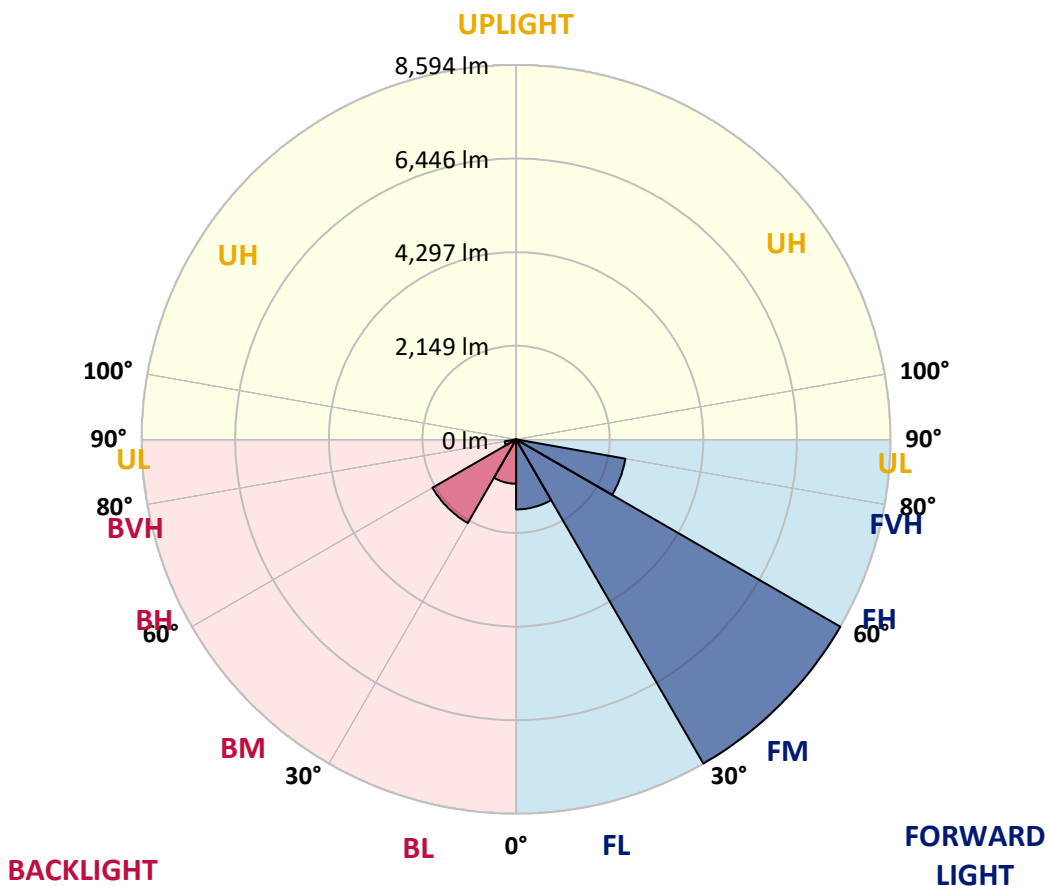
CATALOG NUMBER: GWS-SA5D-760-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1609.0	9.9			
FM (30°-60°)	8594.3	52.9			
FH (60°-80°)	2547.2	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1019.5	6.3	B3/2500		
BM (30°-60°)	2217.3	13.6	B2/2500		
BH (60°-80°)	264.4	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°	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4
2.5°	3067.8	3061.2	3039.5	2965.6	2920.0	2848.3	2796.2	2728.8	2655.0	2609.3	2563.7
5°	3393.7	3376.3	3317.6	3148.2	3017.8	2876.6	2763.6	2639.8	2507.2	2420.3	2339.9
7.5°	3706.5	3680.4	3602.2	3315.4	3117.7	2915.7	2754.9	2574.6	2387.7	2257.4	2157.4
10°	4012.9	3954.2	3830.4	3478.4	3211.2	2967.8	2778.8	2572.4	2353.0	2187.8	2077.0
12.5°	4264.9	4221.4	4052.0	3632.6	3289.4	2978.7	2746.2	2555.0	2407.3	2296.5	2194.4
15°	4482.2	4434.4	4273.6	3771.7	3356.7	2935.2	2609.3	2442.0	2465.9	2509.4	2422.5
17.5°	4682.0	4632.1	4458.3	3886.8	3382.8	2828.8	2418.1	2337.8	2470.3	2633.2	2600.6
20°	4888.4	4831.9	4619.0	3980.3	3374.1	2661.5	2224.8	2248.7	2435.5	2622.4	2639.8
22.5°	5129.6	5070.9	4823.3	4099.8	3367.6	2461.6	2057.5	2170.5	2370.3	2528.9	2559.4
25°	5449.0	5379.4	5107.9	4275.7	3385.0	2279.1	1938.0	2094.4	2259.5	2402.9	2420.3
27.5°	5870.5	5781.4	5435.9	4493.0	3421.9	2135.7	1885.8	1990.1	2118.3	2246.5	2261.7
30°	6420.1	6307.2	5811.8	4682.0	3404.5	2035.8	1851.1	1885.8	1961.9	2066.2	2068.4
32.5°	7063.2	6909.0	6233.3	4845.0	3254.6	1961.9	1803.3	1779.4	1796.8	1877.2	1892.4
35°	7819.3	7619.4	6698.2	4999.2	2980.9	1818.5	1716.4	1636.0	1629.5	1668.6	1705.5
37.5°	8686.2	8447.2	7284.9	5196.9	2657.1	1668.6	1588.2	1507.8	1473.0	1492.6	1549.1
40°	9485.7	9220.7	7897.5	5435.9	2326.9	1533.9	1438.3	1355.7	1314.4	1321.0	1390.5
42.5°	10424.3	10150.6	8647.1	5748.8	2053.1	1442.6	1281.9	1197.1	1142.8	1173.2	1253.6
45°	11849.6	11538.9	9739.9	6020.4	1835.9	1420.9	1145.0	1025.5	999.4	1051.6	1147.2
47.5°	13796.2	13416.0	11241.2	6185.5	1651.2	1440.5	1049.4	886.4	893.0	951.6	1047.2
50°	15727.7	15317.1	12977.2	5968.2	1499.1	1401.4	1001.6	777.8	819.1	871.2	958.1
52.5°	17055.2	16520.7	13822.3	5340.3	1360.1	1253.6	997.2	675.7	753.9	771.3	845.2
55°	17107.3	16449.0	13390.0	4210.6	1171.1	1058.1	951.6	591.0	682.2	688.7	751.7
57.5°	14995.5	14400.2	11701.8	2891.8	1040.7	775.6	758.3	517.1	560.5	614.9	654.0
60°	11408.5	10902.3	8751.4	1325.3	790.8	493.2	519.3	445.4	419.3	499.7	538.8
62.5°	6987.2	6663.5	5249.1	586.6	504.1	262.9	315.0	354.1	315.0	345.4	378.0
65°	2774.5	2631.1	1992.3	249.9	206.4	132.5	143.4	206.4	221.6	243.3	273.8
67.5°	482.3	456.3	334.6	110.8	84.7	80.4	69.5	95.6	134.7	149.9	173.8
70°	63.0	60.8	54.3	45.6	43.5	39.1	30.4	60.8	91.3	95.6	110.8
72.5°	15.2	13.0	13.0	10.9	13.0	4.3	4.3	32.6	65.2	67.4	78.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.9	41.3	45.6	54.3
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°	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4
2.5°	2526.8	2483.3	2468.1	2446.4	2418.1	2426.8	2387.7	2374.7	2394.2	2420.3	2413.8
5°	2296.5	2248.7	2216.1	2166.1	2157.4	2137.9	2124.8	2107.5	2129.2	2159.6	2166.1
7.5°	2114.0	2072.7	2040.1	2024.9	2014.0	2005.3	1979.3	1966.2	1966.2	1979.3	1990.1
10°	2035.8	2005.3	1998.8	2003.2	2020.6	2018.4	1994.5	1977.1	1955.4	1944.5	1957.5
12.5°	2144.4	2094.4	2085.7	2087.9	2109.6	2107.5	2081.4	2059.7	2055.3	2059.7	2100.9
15°	2329.1	2253.0	2196.5	2185.7	2196.5	2192.2	2172.6	2159.6	2166.1	2229.1	2298.6
17.5°	2494.2	2376.9	2274.8	2235.6	2233.5	2227.0	2207.4	2203.1	2235.6	2353.0	2455.1
20°	2542.0	2426.8	2281.3	2231.3	2220.4	2213.9	2192.2	2198.7	2240.0	2381.2	2468.1
22.5°	2479.0	2368.2	2216.1	2166.1	2157.4	2155.3	2133.5	2142.2	2177.0	2300.8	2372.5
25°	2359.5	2266.1	2107.5	2064.0	2064.0	2059.7	2040.1	2044.5	2066.2	2174.8	2244.3
27.5°	2213.9	2124.8	1992.3	1948.9	1955.4	1961.9	1938.0	1931.5	1948.9	2051.0	2092.2
30°	2046.6	1983.6	1879.3	1840.2	1838.1	1864.1	1831.5	1822.8	1846.7	1927.1	1935.8
32.5°	1883.7	1853.3	1779.4	1749.0	1751.1	1755.5	1738.1	1738.1	1759.8	1803.3	1801.1
35°	1725.1	1705.5	1692.5	1670.8	1668.6	1659.9	1659.9	1664.2	1688.1	1703.3	1675.1
37.5°	1573.0	1592.5	1607.8	1586.0	1568.6	1568.6	1568.6	1588.2	1609.9	1603.4	1555.6
40°	1438.3	1479.6	1527.4	1503.5	1462.2	1460.0	1468.7	1501.3	1533.9	1494.8	1451.3
42.5°	1323.1	1375.3	1442.6	1429.6	1384.0	1377.5	1384.0	1425.2	1451.3	1401.4	1353.6
45°	1210.2	1275.3	1355.7	1355.7	1305.8	1299.2	1301.4	1355.7	1370.9	1312.3	1251.4
47.5°	1114.6	1186.3	1271.0	1271.0	1229.7	1216.7	1227.5	1284.0	1294.9	1212.3	1155.8
50°	1023.3	1101.5	1195.0	1188.4	1160.2	1149.3	1168.9	1229.7	1216.7	1125.4	1066.8
52.5°	908.2	990.7	1118.9	1125.4	1110.2	1112.4	1136.3	1175.4	1138.5	1027.7	977.7
55°	803.9	888.6	1016.8	1051.6	1051.6	1049.4	1060.2	1090.7	1060.2	927.7	866.9
57.5°	690.9	762.6	869.1	877.7	884.3	860.4	875.6	916.9	901.6	788.7	753.9
60°	567.1	627.9	688.7	695.2	667.0	617.0	645.3	693.1	703.9	619.2	580.1
62.5°	401.9	460.6	532.3	532.3	504.1	454.1	491.0	532.3	517.1	430.2	406.3
65°	299.8	354.1	408.5	432.4	408.5	373.7	401.9	432.4	408.5	336.8	302.0
67.5°	193.4	230.3	262.9	282.4	286.8	282.4	295.5	286.8	258.5	210.7	191.2
70°	117.3	136.9	154.3	171.6	184.7	191.2	197.7	178.2	149.9	123.8	117.3
72.5°	84.7	102.1	117.3	130.4	145.6	149.9	149.9	136.9	110.8	86.9	80.4
75°	58.7	73.9	86.9	95.6	108.6	113.0	113.0	102.1	82.6	63.0	56.5
77.5°	2.2	15.2	15.2	13.0	17.4	21.7	21.7	26.1	23.9	17.4	15.2
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4
2.5°	2426.8	2505.1	2526.8	2607.2	2678.9	2750.6	2837.5	2889.6	2967.8	3022.1	3052.6
5°	2187.8	2253.0	2331.2	2450.7	2574.6	2711.5	2876.6	3020.0	3200.3	3332.8	3376.3
7.5°	2014.0	2098.8	2190.0	2339.9	2509.4	2691.9	2924.4	3159.0	3434.9	3615.3	3730.4
10°	1981.4	2068.4	2190.0	2337.8	2515.9	2724.5	3009.1	3313.3	3658.7	3878.2	4008.5
12.5°	2137.9	2231.3	2283.4	2350.8	2485.5	2718.0	3083.0	3469.7	3876.0	4115.0	4254.0
15°	2368.2	2450.7	2366.0	2281.3	2368.2	2648.4	3124.3	3600.1	4067.2	4343.1	4486.5
17.5°	2526.8	2533.3	2348.6	2168.3	2192.2	2522.4	3139.5	3730.4	4271.4	4560.4	4710.3
20°	2511.6	2459.4	2272.6	2072.7	1998.8	2359.5	3122.1	3845.6	4477.8	4779.8	4927.5
22.5°	2394.2	2333.4	2174.8	1979.3	1835.9	2166.1	3091.7	3949.9	4666.8	5010.1	5149.1
25°	2253.0	2187.8	2057.5	1885.8	1731.6	1979.3	3067.8	4093.2	4905.8	5309.9	5418.6
27.5°	2087.9	2031.4	1920.6	1796.8	1688.1	1838.1	3061.2	4282.3	5194.8	5674.9	5751.0
30°	1927.1	1875.0	1788.1	1716.4	1670.8	1755.5	3039.5	4484.3	5540.2	6094.2	6176.8
32.5°	1772.9	1720.7	1666.4	1655.5	1657.7	1725.1	2965.6	4684.2	5950.9	6702.6	6763.4
35°	1640.3	1579.5	1557.8	1583.9	1631.7	1672.9	2757.1	4849.3	6391.9	7365.2	7415.2
37.5°	1514.3	1453.5	1451.3	1514.3	1566.5	1592.5	2511.6	5012.3	6987.2	8038.8	8101.8
40°	1399.2	1338.3	1360.1	1436.1	1477.4	1490.4	2213.9	5260.0	7617.3	8749.2	8714.4
42.5°	1301.4	1238.4	1251.4	1349.2	1386.1	1420.9	1940.2	5466.4	8223.4	9422.7	9411.9
45°	1205.8	1158.0	1149.3	1255.8	1288.4	1427.4	1740.3	5625.0	9003.4	10280.9	10298.3
47.5°	1112.4	1075.5	1077.6	1123.3	1203.6	1460.0	1570.8	5729.2	10135.4	11641.0	11339.0
50°	1027.7	999.4	1023.3	971.2	1149.3	1418.7	1425.2	5707.5	11399.8	12944.6	12338.4
52.5°	934.2	927.7	938.6	812.6	1062.4	1251.4	1288.4	5418.6	11993.0	13835.4	13489.9
55°	838.6	836.5	749.6	649.6	888.6	999.4	1103.7	4521.3	11973.4	14309.0	14728.3
57.5°	725.7	708.3	569.2	530.1	690.9	695.2	1005.9	2961.3	10611.2	13174.9	14043.9
60°	549.7	536.6	417.1	430.2	482.3	445.4	801.7	1475.2	7930.1	10263.5	11243.4
62.5°	380.2	362.8	310.7	332.4	310.7	254.2	491.0	730.0	4803.7	6481.0	7369.6
65°	278.1	258.5	212.9	182.5	145.6	145.6	186.8	280.3	1859.8	2754.9	3322.0
67.5°	171.6	162.9	126.0	91.3	89.1	95.6	97.8	139.0	299.8	478.0	584.4
70°	110.8	102.1	84.7	58.7	54.3	56.5	58.7	65.2	76.0	82.6	99.9
72.5°	76.0	71.7	60.8	32.6	26.1	28.2	30.4	30.4	36.9	34.8	41.3
75°	54.3	50.0	43.5	15.2	8.7	10.9	13.0	10.9	13.0	8.7	10.9
77.5°	15.2	15.2	10.9	2.2	0.0	2.2	4.3	4.3	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: P640349

CATALOG NUMBER: GWS-SA5D-760-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4
2.5°	3130.8	3180.7	3200.3	3172.1	3195.9	3156.8	3141.6	3083.0	3078.6	3067.8
5°	3552.3	3665.2	3732.6	3773.9	3726.1	3673.9	3595.7	3461.0	3419.7	3393.7
7.5°	3967.2	4143.2	4258.4	4312.7	4299.6	4193.2	4052.0	3826.0	3745.6	3706.5
10°	4327.9	4543.0	4682.0	4749.4	4721.1	4627.7	4425.7	4143.2	4036.8	4012.9
12.5°	4579.9	4777.6	4873.2	4931.9	4934.1	4897.1	4705.9	4421.3	4295.3	4264.9
15°	4738.5	4823.3	4825.4	4860.2	4921.0	5003.6	4914.5	4662.5	4527.8	4482.2
17.5°	4838.5	4745.0	4649.4	4658.1	4758.1	4977.5	5068.8	4875.4	4732.0	4682.0
20°	4910.2	4614.7	4436.5	4438.7	4540.8	4873.2	5175.2	5081.8	4934.1	4888.4
22.5°	4955.8	4499.5	4245.3	4238.8	4347.4	4749.4	5273.0	5327.3	5181.7	5129.6
25°	5049.2	4445.2	4130.2	4167.1	4262.7	4710.3	5405.5	5653.2	5518.5	5449.0
27.5°	5216.5	4499.5	4119.3	4204.1	4312.7	4825.4	5635.8	6087.7	5948.7	5870.5
30°	5505.5	4703.8	4286.6	4403.9	4534.3	5127.4	6022.5	6693.9	6494.0	6420.1
32.5°	5970.4	5127.4	4803.7	5055.7	5181.7	5622.8	6602.6	7373.9	7211.0	7063.2
35°	6611.3	6094.2	6057.3	6643.9	6613.5	6561.4	7315.3	8208.2	7962.7	7819.3
37.5°	7493.4	7649.9	7923.6	8505.9	8486.3	8088.7	8251.7	8996.9	8870.9	8686.2
40°	8595.0	8927.4	9392.3	10226.6	9965.9	9466.2	9401.0	9805.1	9703.0	9485.7
42.5°	9244.6	9818.1	10704.6	11454.1	11245.6	10372.2	10298.3	10884.9	10661.1	10424.3
45°	9546.6	10543.8	12281.9	13296.5	12664.3	10974.0	10945.7	12292.8	12166.8	11849.6
47.5°	9685.6	11276.0	14128.7	15664.7	14482.8	11501.9	11399.8	14335.1	14169.9	13796.2
50°	9839.9	12286.3	16353.4	18408.8	16679.3	12099.4	12173.3	16238.3	16168.8	15727.7
52.5°	10178.8	13355.2	19093.1	21546.0	19343.0	13035.8	13500.8	18032.9	17563.6	17055.2
55°	10687.2	14519.7	21943.6	24750.7	22061.0	14293.8	14936.9	18986.7	17670.1	17107.3
57.5°	10124.5	14810.9	23631.8	26988.5	23266.8	14298.1	13722.4	17333.3	15540.9	14995.5
60°	8034.4	13778.9	22982.2	26504.0	22239.1	12696.9	10506.9	13533.4	11773.5	11408.5
62.5°	5431.6	11556.3	20231.6	22415.1	19034.5	9987.6	6828.6	8801.4	7289.2	6987.2
65°	2976.5	8621.0	16346.9	16957.4	14897.8	6976.3	3513.2	3819.5	2909.2	2774.5
67.5°	821.3	6000.8	12027.7	11249.9	10452.6	4543.0	908.2	682.2	486.7	482.3
70°	206.4	3969.4	7206.6	7428.2	6409.3	2909.2	173.8	82.6	65.2	63.0
72.5°	86.9	1707.7	3419.7	3930.3	3280.7	1347.0	63.0	23.9	19.6	15.2
75°	10.9	136.9	291.1	441.0	302.0	145.6	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)