

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: P640133

Luminaire Tested: GWS-SA5D-730-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640133
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-SA5D-730-U-SLR-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14594.2 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

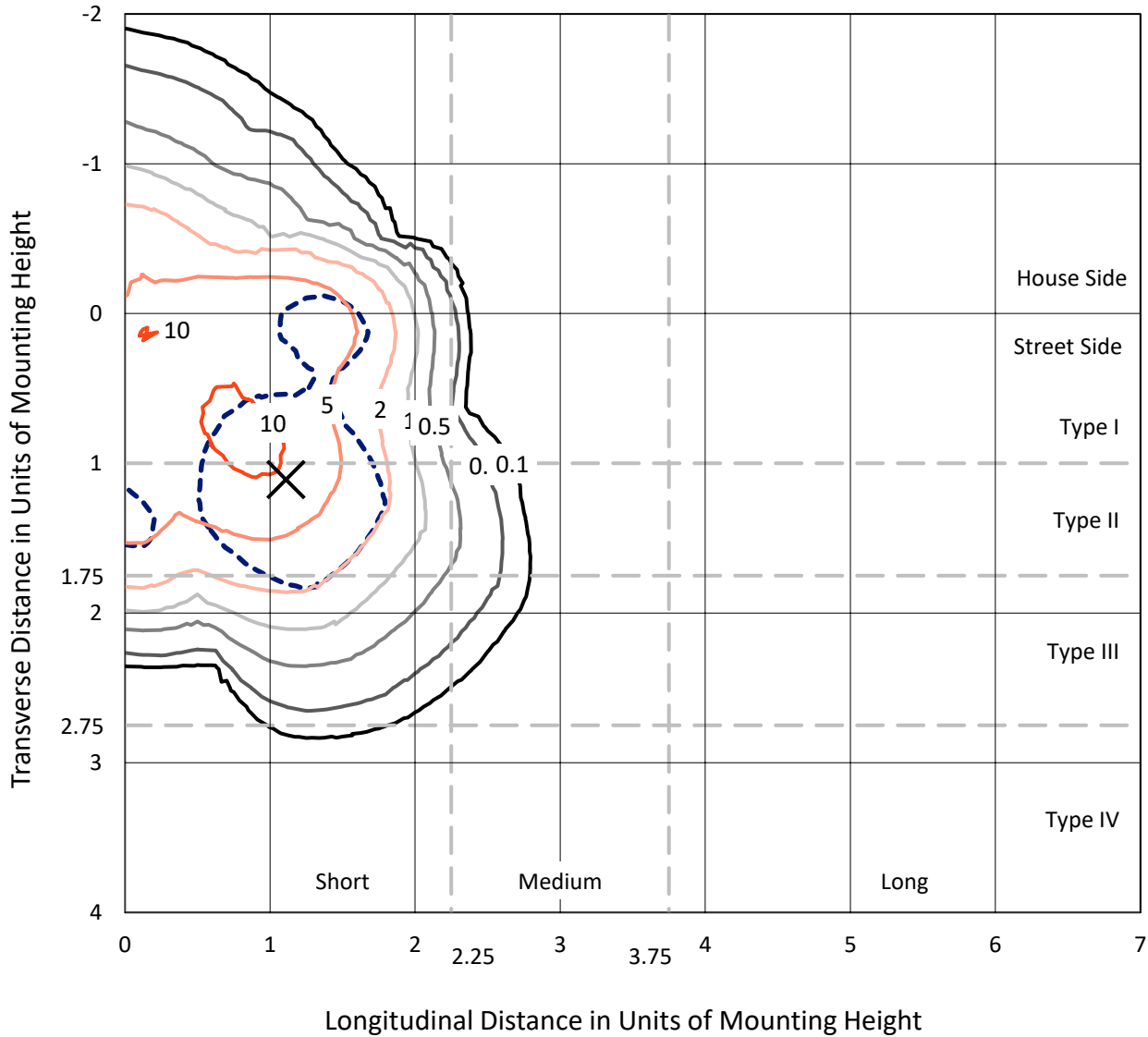
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

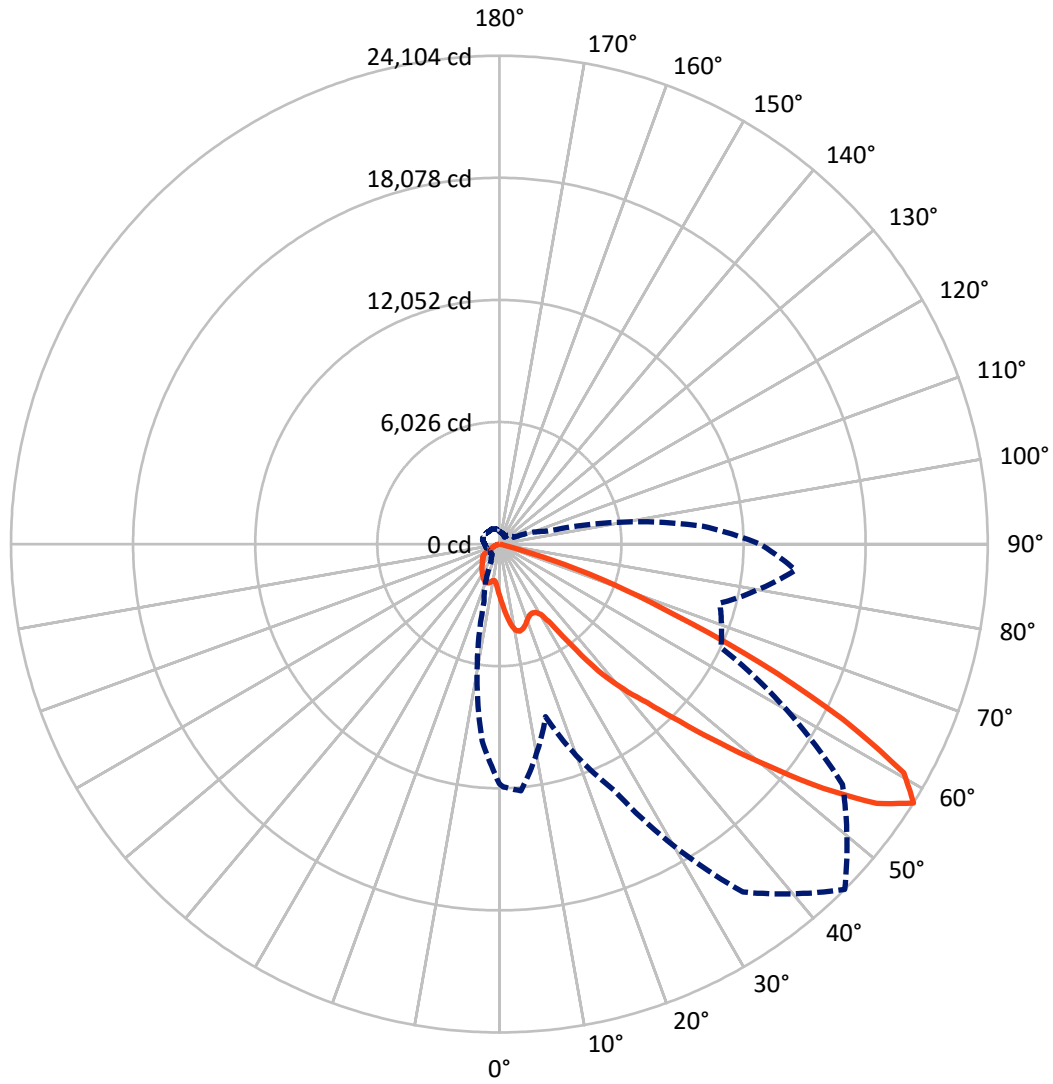
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.4 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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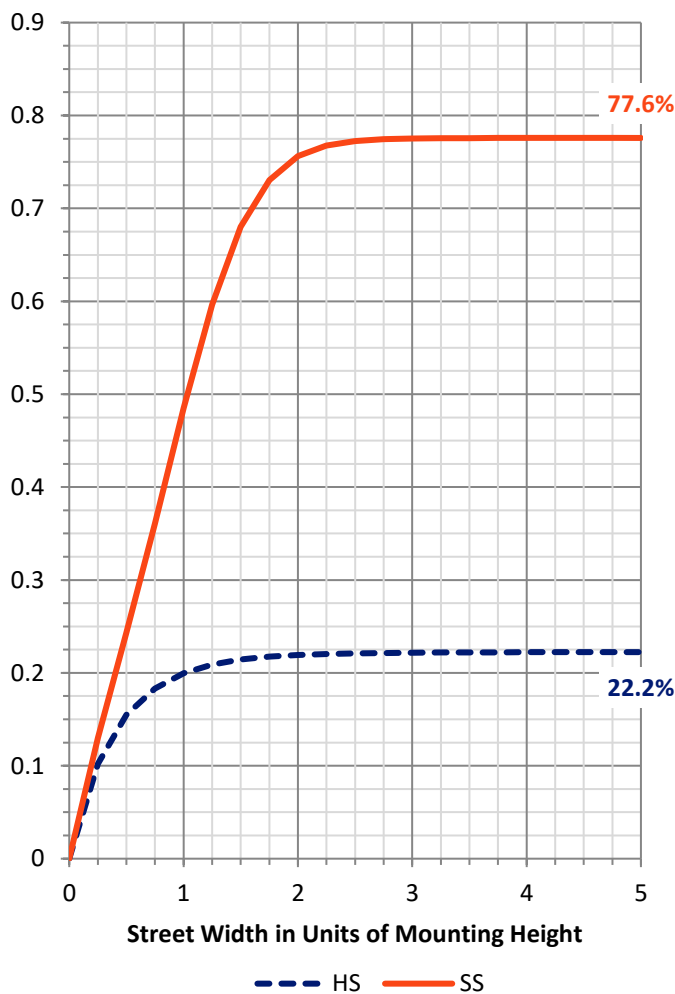
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3268.0	0.0	3268.0
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	11326.2	0.0	11326.2
	% Fixture	77.6	0.0	77.6
Total	Lumens	14594.2	0.0	14594.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.3	1.7
10°-20°	816.3	5.6
20°-30°	1326.1	9.1
30°-40°	2049.0	14.0
40°-50°	3285.5	22.5
50°-60°	4490.4	30.8
60°-70°	2174.8	14.9
70°-80°	199.1	1.4
80°-90°	0.6	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°	14594.2	100.0
0°-180°	14594.2	100.0

Coefficient of Utilization

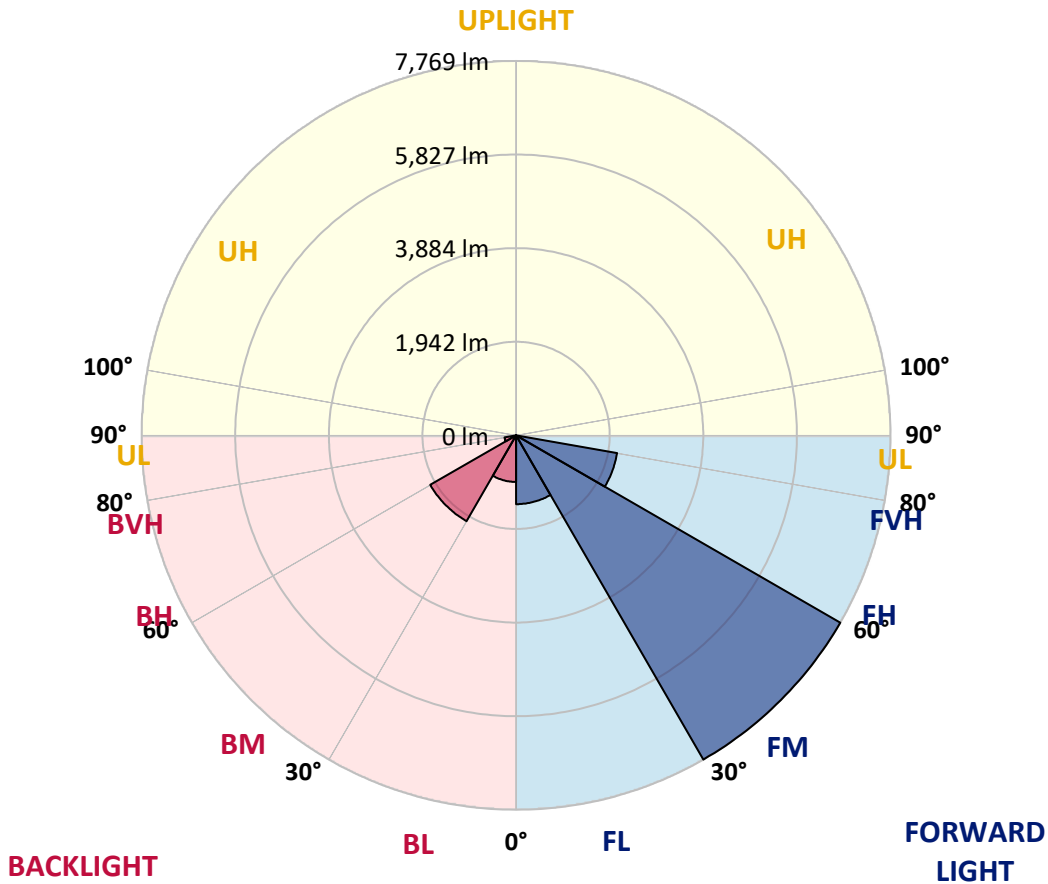


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1427.8	9.8			
FM (30°-60°)	7768.8	53.2			
FH (60°-80°)	2129.0	14.6			G2/5000
FVH (80°-90°)	0.6	0.0			G0/10
BL (0°-30°)	967.0	6.6	B2/1000		
BM (30°-60°)	2056.1	14.1	B2/2500		
BH (60°-80°)	244.9	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°	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1
2.5°	2778.8	2796.5	2825.9	2888.7	2941.6	2976.9	2992.6	2988.7	2967.1	2951.4	2920.0
5°	3076.9	3076.9	3133.8	3277.0	3386.8	3455.4	3490.7	3469.1	3426.0	3357.4	3251.5
7.5°	3337.8	3347.6	3443.6	3647.6	3814.3	3912.3	3969.2	3957.5	3881.0	3749.6	3537.8
10°	3541.7	3553.5	3680.9	3930.0	4126.1	4226.1	4310.4	4318.3	4234.0	4059.4	3816.3
12.5°	3739.8	3751.5	3884.9	4124.1	4296.7	4337.9	4412.4	4441.8	4420.3	4296.7	4043.7
15°	3953.5	3981.0	4094.7	4273.2	4345.7	4296.7	4345.7	4398.7	4471.3	4459.5	4232.0
17.5°	4163.4	4183.0	4298.7	4361.4	4281.0	4153.6	4177.1	4239.8	4404.6	4565.4	4418.3
20°	4357.5	4385.0	4481.1	4398.7	4155.5	3957.5	3959.4	4041.8	4292.8	4630.1	4608.5
22.5°	4561.5	4602.6	4671.3	4439.9	4039.8	3802.5	3812.3	3886.9	4204.5	4690.9	4824.2
25°	4828.2	4867.4	4912.5	4541.9	4002.6	3726.0	3763.3	3831.9	4204.5	4794.8	5091.0
27.5°	5189.0	5216.5	5218.4	4732.1	4067.3	3737.8	3816.3	3894.7	4330.1	5002.7	5447.9
30°	5642.0	5685.2	5628.3	5028.2	4269.3	3894.7	4010.4	4108.5	4600.7	5353.7	5973.4
32.5°	6193.1	6253.9	6177.4	5467.5	4690.9	4436.0	4645.8	4702.7	5032.1	5861.7	6569.6
35°	6840.2	6891.2	6808.9	6075.4	5675.4	5722.4	6102.9	6030.3	5898.9	6487.2	7265.8
37.5°	7550.1	7597.2	7438.4	6997.1	7130.5	7334.4	7942.4	7693.3	7269.7	7293.2	8020.8
40°	8201.2	8252.2	8003.2	7999.2	8273.8	8646.4	9379.8	9036.6	8460.1	8348.3	8728.7
42.5°	8875.8	8911.1	8685.6	8532.6	9156.3	9923.0	10699.6	10236.8	9248.4	9126.8	9615.2
45°	9838.7	9913.2	9511.2	8795.4	9950.5	11391.9	12474.4	11570.3	9785.8	9687.7	10972.2
47.5°	11254.6	11309.5	10489.8	8960.2	10689.8	13221.6	14692.4	13300.0	10258.4	10034.8	12827.4
50°	12425.4	12462.6	11389.9	9140.6	11476.2	15194.4	17220.2	15351.3	10789.8	10609.4	14559.0
52.5°	13288.3	13429.4	12572.5	9511.2	12509.7	17514.4	20018.7	17781.1	11619.4	11719.4	15994.5
55°	13466.7	13658.9	13380.4	9738.7	13419.6	19877.5	22603.4	19955.9	12446.9	12560.7	16477.0
57.5°	11835.1	11988.1	12219.5	8820.9	13398.1	20960.0	24103.6	20677.6	12070.4	11264.4	14670.8
60°	8866.0	8971.9	9391.6	6742.2	12321.4	20003.0	22934.8	19450.0	10554.5	8595.4	11178.1
62.5°	5257.6	5304.7	5836.2	4367.3	10227.0	17226.1	19020.5	16782.9	8340.5	5781.3	6846.1
65°	2017.9	1998.3	2404.3	2155.2	7520.7	13721.6	14147.2	12794.1	5722.4	2649.4	2610.2
67.5°	311.8	298.1	402.0	637.3	5424.3	9509.3	9334.7	9221.0	3584.8	617.7	539.3
70°	70.6	70.6	86.3	188.3	3314.2	5587.1	5979.3	5700.8	2294.5	131.4	70.6
72.5°	33.3	33.3	41.2	80.4	1200.2	2302.3	2682.8	2641.6	745.2	43.1	25.5
75°	11.8	13.7	13.7	17.6	72.6	119.6	274.6	196.1	47.1	0.0	0.0
77.5°	3.9	3.9	3.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.0	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°	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1
2.5°	2851.4	2837.7	2786.7	2718.1	2651.4	2592.5	2531.7	2459.2	2406.2	2345.4	2325.8
5°	3169.1	3082.8	2943.6	2798.5	2665.1	2551.4	2441.5	2323.9	2237.6	2151.3	2121.9
7.5°	3437.8	3310.3	3084.8	2867.1	2684.7	2523.9	2365.1	2204.2	2078.7	1976.8	1945.4
10°	3679.0	3531.9	3229.9	2961.2	2731.8	2545.5	2353.3	2151.3	1988.5	1866.9	1837.5
12.5°	3886.9	3716.2	3353.4	3031.8	2751.4	2537.6	2351.3	2190.5	2043.4	1904.2	1866.9
15°	4061.4	3873.1	3457.4	3078.9	2722.0	2439.6	2276.8	2251.3	2239.5	2086.6	2014.0
17.5°	4232.0	4020.2	3541.7	3100.5	2639.6	2267.0	2149.3	2265.0	2388.6	2288.6	2196.4
20°	4410.5	4169.2	3628.0	3104.4	2502.3	2072.9	2053.2	2235.6	2392.5	2361.1	2274.8
22.5°	4620.3	4355.5	3735.8	3102.4	2329.8	1908.1	1982.6	2178.8	2306.2	2304.3	2235.6
25°	4924.3	4590.9	3881.0	3114.2	2141.5	1780.7	1904.2	2082.7	2186.6	2182.7	2125.8
27.5°	5249.8	4871.3	4069.2	3143.6	1980.7	1706.1	1812.0	1951.3	2041.5	2037.6	1988.5
30°	5706.7	5194.9	4249.7	3145.6	1865.0	1666.9	1710.1	1806.2	1892.4	1882.6	1845.4
32.5°	6261.7	5559.7	4400.7	3033.8	1792.4	1629.7	1604.2	1653.2	1719.9	1706.1	1696.3
35°	6932.4	5993.0	4530.1	2788.6	1680.6	1555.1	1486.5	1496.3	1543.4	1551.2	1547.3
37.5°	7697.2	6508.8	4690.9	2465.1	1529.6	1447.3	1355.1	1347.3	1374.7	1400.2	1419.8
40°	8452.2	7089.3	4908.6	2137.6	1392.4	1310.0	1221.8	1202.1	1213.9	1259.0	1300.2
42.5°	9301.4	7761.9	5143.9	1857.1	1298.2	1159.0	1074.7	1037.4	1070.7	1143.3	1192.3
45°	10525.1	8705.2	5373.3	1633.6	1259.0	1025.6	911.9	908.0	945.2	1039.4	1094.3
47.5°	12243.0	9925.0	5524.4	1459.0	1257.0	921.7	786.4	809.9	853.1	945.2	1008.0
50°	13917.8	11452.7	5357.7	1325.7	1215.9	853.1	692.3	739.3	782.5	862.9	927.6
52.5°	14927.7	12274.4	4708.5	1200.2	1088.4	821.7	600.1	682.5	690.3	762.9	831.5
55°	14821.8	11742.9	3606.4	1006.0	900.1	776.6	504.0	615.8	619.7	674.6	733.4
57.5°	12864.7	10081.9	2476.8	815.8	676.6	641.3	415.7	519.7	556.9	590.3	633.4
60°	9587.7	7356.0	1104.1	662.8	429.5	433.4	355.0	392.2	449.1	488.3	525.6
62.5°	5649.9	4232.0	449.1	398.1	237.3	272.6	286.3	286.3	321.6	351.0	374.6
65°	2135.6	1480.6	182.4	200.0	123.5	127.5	168.7	207.9	235.3	260.8	292.2
67.5°	374.6	258.9	94.1	74.5	72.6	64.7	86.3	135.3	151.0	170.6	184.3
70°	62.8	52.9	39.2	37.3	33.3	35.3	56.9	96.1	105.9	111.8	117.7
72.5°	17.6	15.7	11.8	9.8	7.8	9.8	35.3	74.5	78.4	82.4	88.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	13.7	52.9	56.9	58.8	64.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.8	15.7	19.6	15.7
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°	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1
2.5°	2314.1	2274.8	2253.3	2241.5	2241.5	2225.8	2208.2	2202.3	2227.8	2227.8	2270.9
5°	2084.6	2053.2	2017.9	1996.4	1963.0	1968.9	1949.3	1947.3	1972.8	1984.6	2029.7
7.5°	1925.8	1886.6	1865.0	1851.3	1833.6	1825.8	1808.1	1802.2	1816.0	1835.6	1878.7
10°	1819.9	1814.0	1812.0	1821.8	1821.8	1812.0	1796.3	1786.5	1790.5	1827.7	1876.7
12.5°	1847.3	1859.1	1863.0	1878.7	1886.6	1878.7	1866.9	1870.9	1896.4	1965.0	2037.6
15°	1967.0	1957.2	1953.2	1961.1	1967.0	1959.1	1955.2	1984.6	2072.9	2170.9	2253.3
17.5°	2094.4	2031.7	2004.2	2004.2	2008.1	2004.2	2008.1	2065.0	2208.2	2306.2	2367.0
20°	2159.1	2043.4	2000.3	1990.5	1998.3	2000.3	2014.0	2078.7	2235.6	2304.3	2318.0
22.5°	2139.5	1994.4	1945.4	1937.5	1945.4	1953.2	1967.0	2021.9	2168.9	2204.2	2198.4
25°	2041.5	1898.3	1859.1	1859.1	1876.7	1874.8	1880.7	1919.9	2041.5	2063.1	2053.2
27.5°	1917.9	1782.6	1749.3	1768.9	1784.6	1780.7	1782.6	1816.0	1906.2	1912.0	1902.2
30°	1792.4	1674.8	1643.4	1666.9	1688.5	1684.6	1686.5	1719.9	1776.7	1770.9	1757.1
32.5°	1665.0	1578.7	1555.1	1568.9	1602.2	1598.3	1606.1	1641.4	1663.0	1637.5	1621.8
35°	1547.3	1502.2	1484.5	1492.4	1517.9	1523.8	1537.5	1561.0	1561.0	1529.6	1502.2
37.5°	1437.5	1431.6	1419.8	1410.0	1433.5	1451.2	1470.8	1498.3	1459.0	1413.9	1388.4
40°	1335.5	1361.0	1345.3	1319.8	1333.5	1359.0	1398.2	1419.8	1372.8	1327.6	1284.5
42.5°	1241.4	1284.5	1278.6	1247.2	1259.0	1282.5	1327.6	1345.3	1290.4	1239.4	1198.2
45°	1151.2	1211.9	1215.9	1176.6	1188.4	1211.9	1264.9	1270.8	1200.2	1145.3	1115.9
47.5°	1072.7	1139.4	1141.3	1111.9	1115.9	1149.2	1198.2	1200.2	1119.8	1068.8	1031.5
50°	998.2	1074.7	1080.6	1055.1	1059.0	1098.2	1139.4	1131.5	1045.3	992.3	959.0
52.5°	908.0	1011.9	1025.6	1013.9	1029.6	1060.9	1086.4	1059.0	959.0	906.0	876.6
55°	809.9	945.2	974.7	966.8	984.5	1010.0	1015.8	998.2	872.7	819.7	792.3
57.5°	696.2	778.5	829.5	813.8	827.6	853.1	870.7	857.0	762.9	721.7	698.1
60°	576.6	631.5	643.2	617.7	606.0	651.1	692.3	674.6	594.2	568.7	541.3
62.5°	421.6	484.4	492.2	458.9	445.2	494.2	529.5	511.8	423.6	396.1	374.6
65°	337.3	396.1	411.8	380.4	372.6	409.9	431.4	388.3	325.5	296.1	272.6
67.5°	221.6	268.7	309.8	307.9	292.2	304.0	288.3	253.0	207.9	192.2	176.5
70°	137.3	164.7	190.2	200.0	198.1	194.1	172.6	147.1	133.4	127.5	119.6
72.5°	105.9	133.4	153.0	158.8	160.8	154.9	137.3	113.7	100.0	92.2	86.3
75°	78.4	100.0	115.7	123.5	127.5	123.5	105.9	90.2	76.5	70.6	64.7
77.5°	27.5	33.3	41.2	45.1	43.1	41.2	37.3	37.3	29.4	27.5	23.5
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: P640133

CATALOG NUMBER: GWS-SA5D-730-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1
2.5°	2320.0	2355.3	2420.0	2478.8	2541.6	2606.3	2676.9	2749.4	2782.8	2778.8
5°	2098.4	2174.8	2280.7	2396.4	2525.9	2665.1	2820.0	2978.9	3047.5	3076.9
7.5°	1959.1	2067.0	2206.2	2353.3	2523.9	2722.0	2955.3	3204.4	3304.4	3337.8
10°	1976.8	2102.3	2218.0	2361.1	2543.5	2800.4	3090.7	3386.8	3504.4	3541.7
12.5°	2119.9	2147.4	2178.8	2296.4	2525.9	2859.2	3214.2	3567.2	3702.5	3739.8
15°	2249.4	2121.9	2063.1	2170.9	2463.1	2900.4	3339.7	3761.3	3910.4	3953.5
17.5°	2255.2	2063.1	1931.7	2016.0	2361.1	2918.1	3463.3	3959.4	4122.2	4163.4
20°	2182.7	1998.3	1829.7	1831.6	2221.9	2914.2	3565.2	4137.9	4320.3	4357.5
22.5°	2076.8	1921.9	1747.3	1686.5	2072.9	2906.3	3677.0	4328.1	4526.2	4561.5
25°	1959.1	1823.8	1668.9	1576.7	1923.8	2914.2	3833.9	4577.2	4794.8	4828.2
27.5°	1831.6	1715.9	1608.1	1533.6	1798.3	2943.6	4022.2	4894.8	5153.7	5189.0
30°	1698.3	1612.0	1568.9	1523.8	1719.9	2951.4	4226.1	5265.5	5593.0	5642.0
32.5°	1566.9	1519.8	1521.8	1529.6	1645.3	2896.5	4412.4	5677.3	6114.6	6193.1
35°	1445.3	1431.6	1470.8	1510.0	1537.5	2755.3	4575.2	6163.7	6759.8	6840.2
37.5°	1341.4	1353.1	1402.2	1441.4	1419.8	2555.3	4790.9	6771.6	7481.5	7550.1
40°	1241.4	1270.8	1327.6	1345.3	1329.6	2321.9	5049.8	7358.0	8107.1	8201.2
42.5°	1149.2	1170.8	1251.2	1255.1	1304.1	2084.6	5298.8	7989.4	8826.8	8875.8
45°	1074.7	1070.7	1153.1	1178.6	1337.5	1821.8	5542.0	8830.7	9768.1	9838.7
47.5°	1002.1	998.2	1017.8	1133.5	1351.2	1578.7	5783.2	10062.3	11133.0	11254.6
50°	933.5	939.4	878.6	1111.9	1276.7	1392.4	5893.0	11201.7	12374.4	12425.4
52.5°	872.7	851.1	745.2	1041.3	1117.8	1215.9	5581.2	11719.4	13143.1	13288.3
55°	786.4	666.8	613.8	845.2	882.5	1060.9	4571.3	11419.3	13209.8	13466.7
57.5°	672.6	523.6	521.6	623.6	623.6	984.5	2927.9	9756.4	11384.0	11835.1
60°	517.7	405.9	431.4	433.4	400.1	717.8	1643.4	7067.7	8416.9	8866.0
62.5°	368.7	309.8	325.5	258.9	229.4	358.9	788.4	4069.2	5194.9	5257.6
65°	247.1	209.8	170.6	143.2	141.2	153.0	325.5	1470.8	1788.5	2017.9
67.5°	162.8	127.5	90.2	90.2	102.0	102.0	123.5	243.2	341.2	311.8
70°	105.9	88.2	56.9	54.9	66.7	66.7	62.8	66.7	70.6	70.6
72.5°	78.4	66.7	33.3	29.4	37.3	39.2	35.3	33.3	33.3	33.3
75°	58.8	47.1	19.6	13.7	17.6	23.5	19.6	13.7	13.7	11.8
77.5°	23.5	17.6	7.8	5.9	9.8	13.7	11.8	5.9	3.9	3.9
80°	2.0	3.9	3.9	3.9	5.9	7.8	9.8	3.9	2.0	2.0
82.5°	0.0	2.0	2.0	2.0	3.9	5.9	7.8	3.9	2.0	2.0
85°	0.0	0.0	0.0	0.0	3.9	5.9	3.9	2.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	2.0	5.9	3.9	2.0	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)