

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: P640129

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640129
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-730-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) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14668.7 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

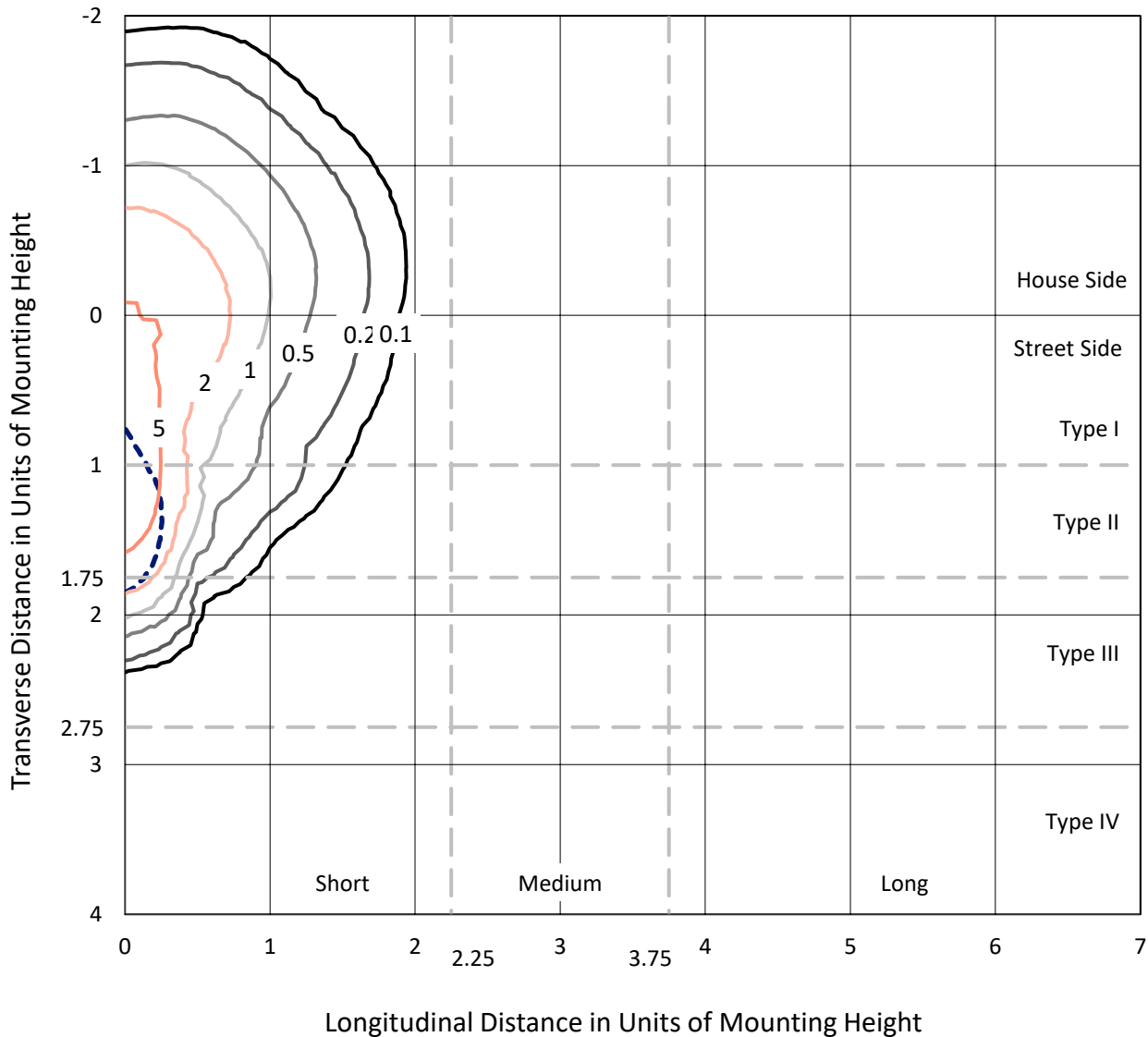
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

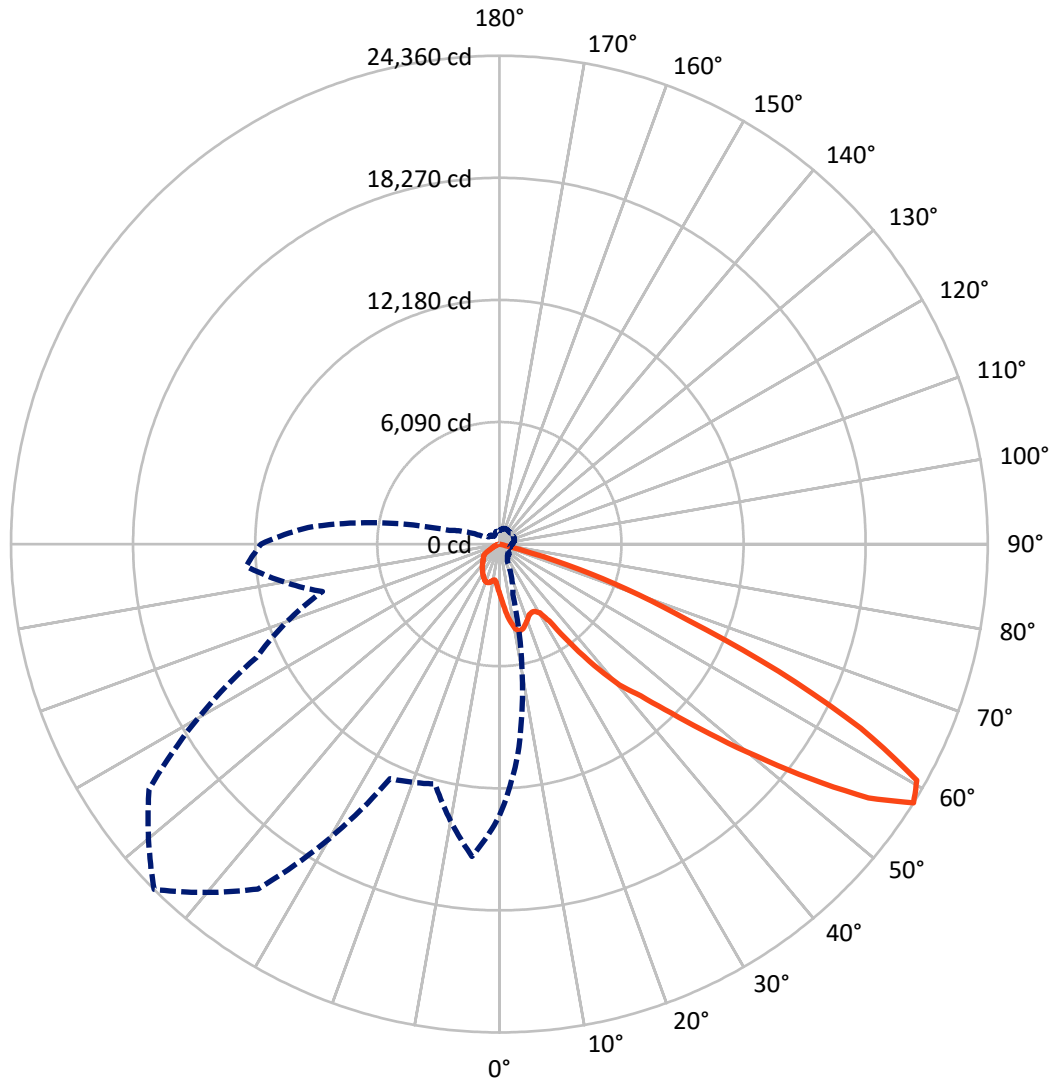
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.8 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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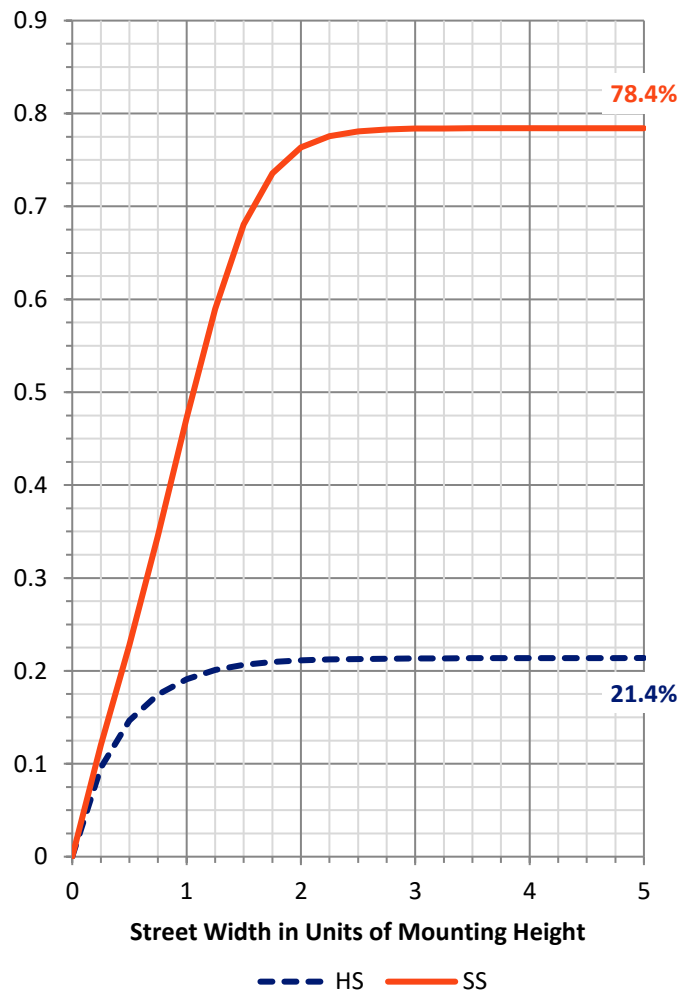
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3160.1	0.0	3160.1
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	11508.6	0.0	11508.6
	% Fixture	78.5	0.0	78.5
Total	Lumens	14668.7	0.0	14668.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.3	1.7
10°-20°	810.6	5.5
20°-30°	1315.5	9.0
30°-40°	2019.0	13.8
40°-50°	3224.5	22.0
50°-60°	4514.9	30.8
60°-70°	2314.9	15.8
70°-80°	222.9	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°	14668.7	100.0
0°-180°	14668.7	100.0

Coefficient of Utilization



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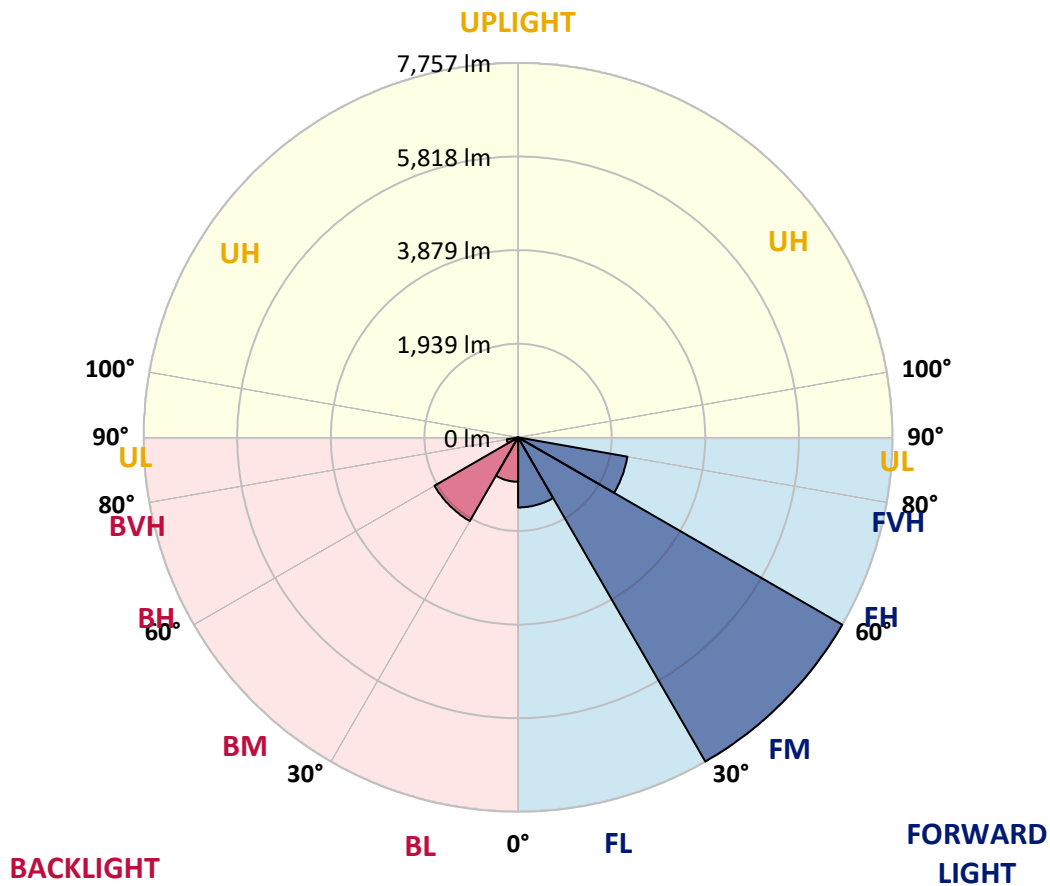
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1452.3	9.9			
FM (30°-60°)	7757.2	52.9			
FH (60°-80°)	2299.1	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	920.2	6.3	B2/1000		
BM (30°-60°)	2001.3	13.6	B2/2500		
BH (60°-80°)	238.7	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: 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°	2492.4	2492.4	2492.4	2492.4	2492.4	2492.4	2492.4	2492.4	2492.4	2492.4	2492.4
2.5°	2768.9	2763.0	2743.4	2676.8	2635.6	2570.9	2523.8	2463.0	2396.3	2355.2	2314.0
5°	3063.1	3047.4	2994.4	2841.5	2723.8	2596.4	2494.4	2382.6	2263.0	2184.6	2112.0
7.5°	3345.5	3321.9	3251.3	2992.5	2814.0	2631.7	2486.5	2323.8	2155.1	2037.5	1947.3
10°	3622.0	3569.0	3457.2	3139.6	2898.4	2678.7	2508.1	2321.8	2123.8	1974.7	1874.7
12.5°	3849.4	3810.2	3657.3	3278.8	2969.0	2688.5	2478.7	2306.1	2172.8	2072.8	1980.6
15°	4045.5	4002.4	3857.3	3404.3	3029.7	2649.3	2355.2	2204.2	2225.7	2265.0	2186.5
17.5°	4226.0	4180.8	4024.0	3508.2	3053.3	2553.2	2182.6	2110.0	2229.7	2376.7	2347.3
20°	4412.2	4361.3	4169.1	3592.5	3045.4	2402.2	2008.1	2029.6	2198.3	2366.9	2382.6
22.5°	4629.9	4577.0	4353.4	3700.4	3039.5	2221.8	1857.1	1959.0	2139.4	2282.6	2310.1
25°	4918.2	4855.4	4610.3	3859.2	3055.2	2057.1	1749.2	1890.4	2039.4	2168.9	2184.6
27.5°	5298.6	5218.2	4906.4	4055.3	3088.6	1927.7	1702.1	1796.3	1912.0	2027.7	2041.4
30°	5794.8	5692.8	5245.7	4226.0	3072.9	1837.5	1670.8	1702.1	1770.8	1864.9	1866.9
32.5°	6375.2	6236.0	5626.1	4373.0	2937.6	1770.8	1627.6	1606.1	1621.7	1694.3	1708.0
35°	7057.6	6877.2	6045.8	4512.3	2690.5	1641.4	1549.2	1476.6	1470.7	1506.0	1539.4
37.5°	7840.1	7624.4	6575.2	4690.7	2398.3	1506.0	1433.5	1360.9	1329.6	1347.2	1398.2
40°	8561.7	8322.5	7128.2	4906.4	2100.2	1384.5	1298.2	1223.7	1186.4	1192.3	1255.0
42.5°	9408.9	9161.8	7804.8	5188.8	1853.1	1302.1	1157.0	1080.5	1031.5	1058.9	1131.5
45°	10695.3	10414.9	8791.2	5433.9	1657.0	1282.5	1033.4	925.6	902.1	949.1	1035.4
47.5°	12452.3	12109.2	10146.2	5583.0	1490.4	1300.1	947.2	800.1	806.0	858.9	945.2
50°	14195.7	13825.0	11713.0	5386.9	1353.1	1264.8	904.0	702.0	739.3	786.4	864.8
52.5°	15393.8	14911.4	12475.9	4820.1	1227.6	1131.5	900.1	609.9	680.5	696.2	762.8
55°	15440.9	14846.7	12085.6	3800.4	1057.0	955.0	858.9	533.4	615.8	621.6	678.5
57.5°	13534.8	12997.5	10561.9	2610.1	939.3	700.1	684.4	466.7	505.9	555.0	590.3
60°	10297.2	9840.3	7898.9	1196.2	713.8	445.1	468.7	402.0	378.5	451.0	486.3
62.5°	6306.6	6014.4	4737.8	529.5	455.0	237.3	284.3	319.6	284.3	311.8	341.2
65°	2504.2	2374.8	1798.2	225.5	186.3	119.6	129.4	186.3	200.0	219.6	247.1
67.5°	435.3	411.8	302.0	100.0	76.5	72.6	62.8	86.3	121.6	135.3	156.9
70°	56.9	54.9	49.0	41.2	39.2	35.3	27.5	54.9	82.4	86.3	100.0
72.5°	13.7	11.8	11.8	9.8	11.8	3.9	3.9	29.4	58.8	60.8	70.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.8	37.3	41.2	49.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
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°	2492.4	2492.4	2492.4	2492.4	2492.4	2492.4	2492.4	2492.4	2492.4	2492.4	2492.4
2.5°	2280.6	2241.4	2227.7	2208.1	2182.6	2190.4	2155.1	2143.4	2161.0	2184.6	2178.7
5°	2072.8	2029.6	2000.2	1955.1	1947.3	1929.6	1917.9	1902.2	1921.8	1949.2	1955.1
7.5°	1908.1	1870.8	1841.4	1827.7	1817.8	1810.0	1786.5	1774.7	1774.7	1786.5	1796.3
10°	1837.5	1810.0	1804.1	1808.0	1823.7	1821.8	1800.2	1784.5	1764.9	1755.1	1766.9
12.5°	1935.5	1890.4	1882.6	1884.5	1904.1	1902.2	1878.6	1859.0	1855.1	1859.0	1896.3
15°	2102.2	2033.6	1982.6	1972.8	1982.6	1978.6	1961.0	1949.2	1955.1	2012.0	2074.7
17.5°	2251.2	2145.3	2053.2	2017.9	2015.9	2010.0	1992.4	1988.5	2017.9	2123.8	2215.9
20°	2294.4	2190.4	2059.0	2013.9	2004.1	1998.3	1978.6	1984.5	2021.8	2149.3	2227.7
22.5°	2237.5	2137.5	2000.2	1955.1	1947.3	1945.3	1925.7	1933.5	1964.9	2076.7	2141.4
25°	2129.6	2045.3	1902.2	1862.9	1862.9	1859.0	1841.4	1845.3	1864.9	1963.0	2025.7
27.5°	1998.3	1917.9	1798.2	1759.0	1764.9	1770.8	1749.2	1743.3	1759.0	1851.2	1888.4
30°	1847.3	1790.4	1696.3	1661.0	1659.0	1682.5	1653.1	1645.3	1666.8	1739.4	1747.2
32.5°	1700.2	1672.7	1606.1	1578.6	1580.6	1584.5	1568.8	1568.8	1588.4	1627.6	1625.7
35°	1557.0	1539.4	1527.6	1508.0	1506.0	1498.2	1498.2	1502.1	1523.7	1537.4	1511.9
37.5°	1419.8	1437.4	1451.1	1431.5	1415.8	1415.8	1415.8	1433.5	1453.1	1447.2	1404.1
40°	1298.2	1335.4	1378.6	1357.0	1319.8	1317.8	1325.6	1355.1	1384.5	1349.2	1309.9
42.5°	1194.2	1241.3	1302.1	1290.3	1249.2	1243.3	1249.2	1286.4	1309.9	1264.8	1221.7
45°	1092.3	1151.1	1223.7	1223.7	1178.6	1172.7	1174.6	1223.7	1237.4	1184.4	1129.5
47.5°	1006.0	1070.7	1147.2	1147.2	1109.9	1098.2	1108.0	1159.0	1168.8	1094.2	1043.3
50°	923.6	994.2	1078.5	1072.7	1047.2	1037.4	1055.0	1109.9	1098.2	1015.8	962.9
52.5°	819.7	894.2	1009.9	1015.8	1002.1	1004.0	1025.6	1060.9	1027.6	927.6	882.4
55°	725.6	802.0	917.7	949.1	949.1	947.2	957.0	984.4	957.0	837.3	782.4
57.5°	623.6	688.3	784.4	792.2	798.1	776.6	790.3	827.5	813.8	711.8	680.5
60°	511.8	566.7	621.6	627.5	602.0	556.9	582.4	625.6	635.4	558.9	523.6
62.5°	362.8	415.7	480.4	480.4	455.0	409.8	443.2	480.4	466.7	388.3	366.7
65°	270.6	319.6	368.7	390.2	368.7	337.3	362.8	390.2	368.7	304.0	272.6
67.5°	174.5	207.9	237.3	254.9	258.9	254.9	266.7	258.9	233.4	190.2	172.6
70°	105.9	123.5	139.2	154.9	166.7	172.6	178.5	160.8	135.3	111.8	105.9
72.5°	76.5	92.2	105.9	117.7	131.4	135.3	135.3	123.5	100.0	78.4	72.6
75°	52.9	66.7	78.4	86.3	98.0	102.0	102.0	92.2	74.5	56.9	51.0
77.5°	2.0	13.7	13.7	11.8	15.7	19.6	19.6	23.5	21.6	15.7	13.7
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°	2492.4	2492.4	2492.4	2492.4	2492.4	2492.4	2492.4	2492.4	2492.4	2492.4	2492.4
2.5°	2190.4	2261.0	2280.6	2353.2	2417.9	2482.6	2561.1	2608.1	2678.7	2727.7	2755.2
5°	1974.7	2033.6	2104.2	2212.0	2323.8	2447.3	2596.4	2725.8	2888.6	3008.2	3047.4
7.5°	1817.8	1894.3	1976.7	2112.0	2265.0	2429.7	2639.5	2851.3	3100.3	3263.1	3367.0
10°	1788.4	1866.9	1976.7	2110.0	2270.8	2459.1	2716.0	2990.5	3302.3	3500.4	3618.0
12.5°	1929.6	2013.9	2061.0	2121.8	2243.4	2453.2	2782.7	3131.7	3498.4	3714.1	3839.6
15°	2137.5	2212.0	2135.5	2059.0	2137.5	2390.5	2819.9	3249.4	3671.0	3920.0	4049.5
17.5°	2280.6	2286.5	2119.8	1957.1	1978.6	2276.7	2833.6	3367.0	3855.3	4116.1	4251.4
20°	2266.9	2219.9	2051.2	1870.8	1804.1	2129.6	2818.0	3471.0	4041.6	4314.2	4447.5
22.5°	2161.0	2106.1	1963.0	1786.5	1657.0	1955.1	2790.5	3565.1	4212.2	4522.1	4647.6
25°	2033.6	1974.7	1857.1	1702.1	1562.9	1786.5	2768.9	3694.5	4427.9	4792.7	4890.7
27.5°	1884.5	1833.5	1733.5	1621.7	1523.7	1659.0	2763.0	3865.1	4688.7	5122.1	5190.8
30°	1739.4	1692.3	1613.9	1549.2	1508.0	1584.5	2743.4	4047.5	5000.5	5500.6	5575.1
32.5°	1600.2	1553.1	1504.1	1494.3	1496.2	1557.0	2676.8	4227.9	5371.2	6049.7	6104.6
35°	1480.6	1425.6	1406.0	1429.6	1472.7	1510.0	2488.5	4376.9	5769.3	6647.8	6692.9
37.5°	1366.8	1311.9	1309.9	1366.8	1413.9	1437.4	2266.9	4524.0	6306.6	7255.7	7312.6
40°	1262.9	1208.0	1227.6	1296.2	1333.5	1345.2	1998.3	4747.6	6875.3	7896.9	7865.6
42.5°	1174.6	1117.8	1129.5	1217.8	1251.1	1282.5	1751.2	4933.9	7422.4	8504.9	8495.0
45°	1088.4	1045.2	1037.4	1133.5	1162.9	1288.4	1570.8	5077.0	8126.4	9279.4	9295.1
47.5°	1004.0	970.7	972.7	1013.8	1086.4	1317.8	1417.8	5171.2	9148.1	10507.0	10234.5
50°	927.6	902.1	923.6	876.6	1037.4	1280.5	1286.4	5151.5	10289.4	11683.6	11136.5
52.5°	843.2	837.3	847.2	733.4	958.9	1129.5	1162.9	4890.7	10824.7	12487.6	12175.8
55°	756.9	755.0	676.5	586.3	802.0	902.1	996.2	4080.8	10807.1	12915.1	13293.6
57.5°	655.0	639.3	513.8	478.5	623.6	627.5	907.9	2672.8	9577.5	11891.5	12675.9
60°	496.1	484.4	376.5	388.3	435.3	402.0	723.6	1331.5	7157.6	9263.8	10148.2
62.5°	343.2	327.5	280.4	300.0	280.4	229.4	443.2	658.9	4335.8	5849.7	6651.7
65°	251.0	233.4	192.2	164.7	131.4	131.4	168.6	253.0	1678.6	2486.5	2998.4
67.5°	154.9	147.1	113.7	82.4	80.4	86.3	88.2	125.5	270.6	431.4	527.5
70°	100.0	92.2	76.5	52.9	49.0	51.0	52.9	58.8	68.6	74.5	90.2
72.5°	68.6	64.7	54.9	29.4	23.5	25.5	27.5	27.5	33.3	31.4	37.3
75°	49.0	45.1	39.2	13.7	7.8	9.8	11.8	9.8	11.8	7.8	9.8
77.5°	13.7	13.7	9.8	2.0	0.0	2.0	3.9	3.9	2.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	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: P640129

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2492.4	2492.4	2492.4	2492.4	2492.4	2492.4	2492.4	2492.4	2492.4	2492.4
2.5°	2825.8	2870.9	2888.6	2863.1	2884.6	2849.3	2835.6	2782.7	2778.7	2768.9
5°	3206.2	3308.2	3369.0	3406.3	3363.1	3316.0	3245.5	3123.9	3086.6	3063.1
7.5°	3580.8	3739.6	3843.6	3892.6	3880.8	3784.7	3657.3	3453.3	3380.8	3345.5
10°	3906.3	4100.4	4226.0	4286.7	4261.3	4176.9	3994.6	3739.6	3643.5	3622.0
12.5°	4133.8	4312.2	4398.5	4451.5	4453.4	4420.1	4247.5	3990.6	3876.9	3849.4
15°	4276.9	4353.4	4355.4	4386.8	4441.7	4516.2	4435.8	4208.3	4086.7	4045.5
17.5°	4367.1	4282.8	4196.5	4204.4	4294.6	4492.6	4575.0	4400.5	4271.1	4226.0
20°	4431.9	4165.2	4004.4	4006.3	4098.5	4398.5	4671.1	4586.8	4453.4	4412.2
22.5°	4473.0	4061.2	3831.8	3825.9	3924.0	4286.7	4759.3	4808.4	4677.0	4629.9
25°	4557.4	4012.2	3727.9	3761.2	3847.5	4251.4	4879.0	5102.5	4980.9	4918.2
27.5°	4708.4	4061.2	3718.1	3794.5	3892.6	4355.4	5086.8	5494.7	5369.2	5298.6
30°	4969.2	4245.6	3869.1	3974.9	4092.6	4628.0	5435.9	6041.8	5861.4	5794.8
32.5°	5388.8	4628.0	4335.8	4563.2	4677.0	5075.1	5959.5	6655.6	6508.6	6375.2
35°	5967.3	5500.6	5467.3	5996.7	5969.3	5922.2	6602.7	7408.7	7187.1	7057.6
37.5°	6763.5	6904.7	7151.8	7677.3	7659.7	7300.8	7447.9	8120.5	8006.8	7840.1
40°	7757.7	8057.7	8477.4	9230.4	8995.1	8544.1	8485.2	8850.0	8757.8	8561.7
42.5°	8344.0	8861.8	9661.8	10338.4	10150.1	9361.8	9295.1	9824.6	9622.6	9408.9
45°	8616.6	9516.7	11085.5	12001.3	11430.7	9905.0	9879.5	11095.3	10981.6	10695.3
47.5°	8742.1	10177.6	12752.4	14138.8	13072.0	10381.5	10289.4	12938.7	12789.6	12452.3
50°	8881.4	11089.4	14760.4	16615.5	15054.6	10920.8	10987.5	14656.5	14593.8	14195.7
52.5°	9187.3	12054.3	17233.3	19447.2	17458.8	11766.0	12185.6	16276.3	15852.7	15393.8
55°	9646.2	13105.4	19806.1	22339.7	19912.0	12901.4	13481.9	17137.2	15948.8	15440.9
57.5°	9138.3	13368.1	21329.8	24359.5	21000.3	12905.3	12385.7	15644.8	14027.0	13534.8
60°	7251.8	12436.7	20743.4	23922.2	20072.8	11460.1	9483.4	12215.1	10626.7	10297.2
62.5°	4902.5	10430.6	18260.8	20231.6	17180.3	9014.7	6163.4	7944.0	6579.2	6306.6
65°	2686.6	7781.2	14754.6	15305.6	13446.6	6296.8	3170.9	3447.4	2625.8	2504.2
67.5°	741.3	5416.3	10856.1	10154.1	9434.4	4100.4	819.7	615.8	439.3	435.3
70°	186.3	3582.7	6504.6	6704.7	5784.9	2625.8	156.9	74.5	58.8	56.9
72.5°	78.4	1541.3	3086.6	3547.4	2961.1	1215.8	56.9	21.6	17.6	13.7
75°	9.8	123.5	262.8	398.1	272.6	131.4	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)