

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: P640184

Luminaire Tested: GWS-SA5D-735-U-SLL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640184  
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-735-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) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

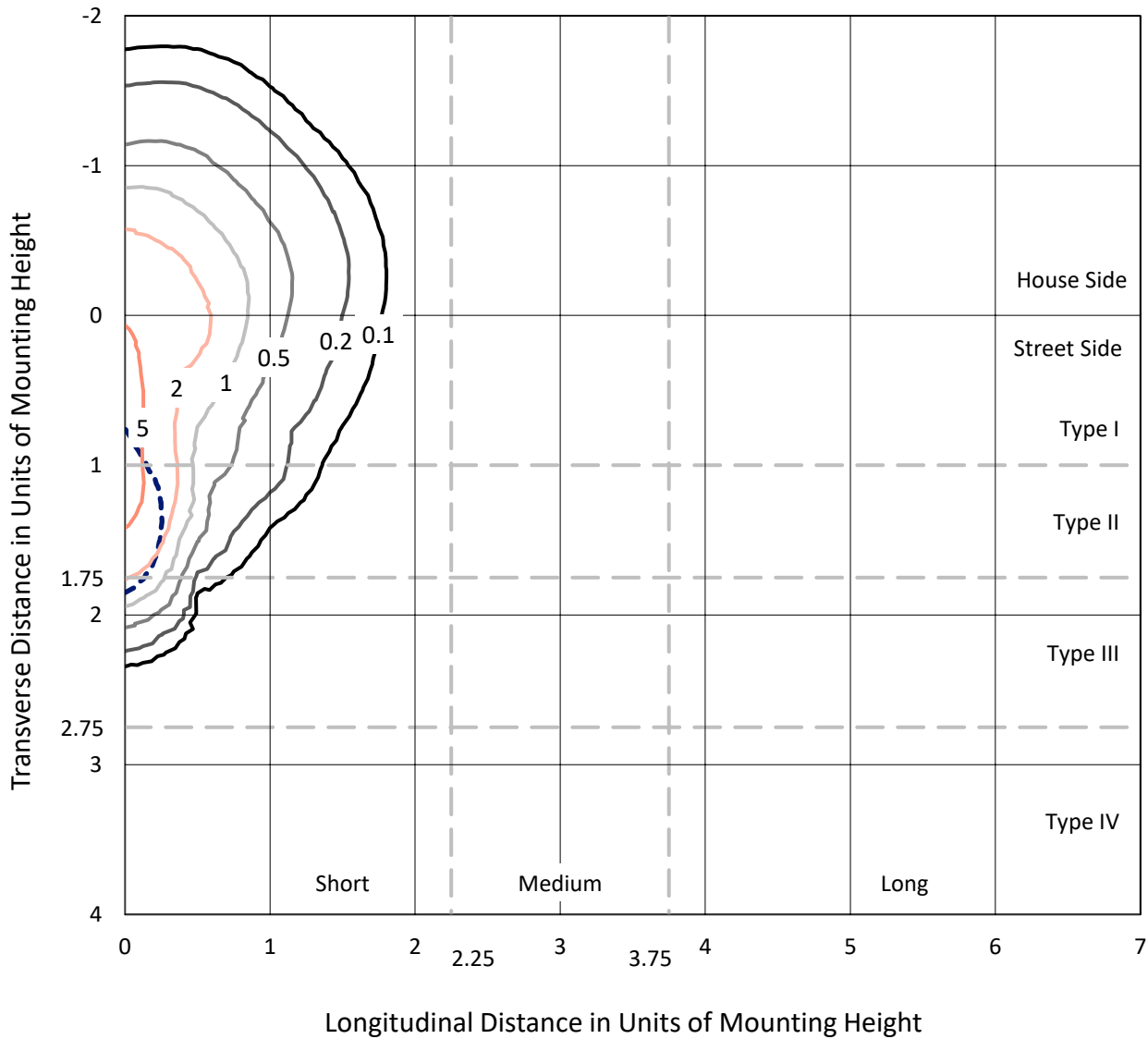
Lumens per Lamp: N/A  
Luminaire Lumens: 15887.8 lumens  
Efficiency: N/A  
Efficacy: 77.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

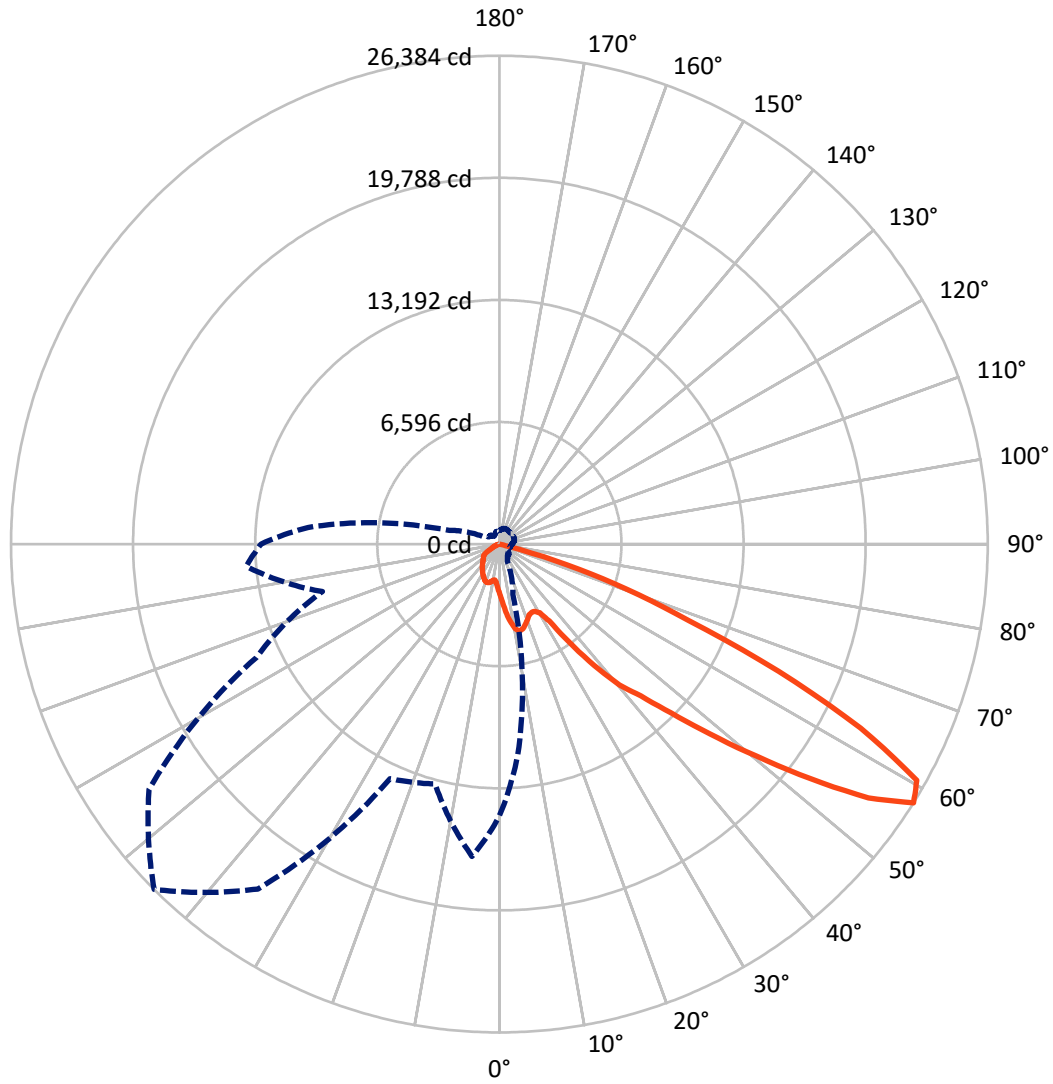
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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
<b>House Side</b>	Lumens	3422.8	0.0	3422.8
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	12465.0	0.0	12465.0
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	15887.8	0.0	15887.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.8	1.7
10°-20°	878.0	5.5
20°-30°	1424.9	9.0
30°-40°	2186.8	13.8
40°-50°	3492.5	22.0
50°-60°	4890.1	30.8
60°-70°	2507.3	15.8
70°-80°	241.4	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°	15887.8	100.0
0°-180°	15887.8	100.0

**Coefficient of Utilization**



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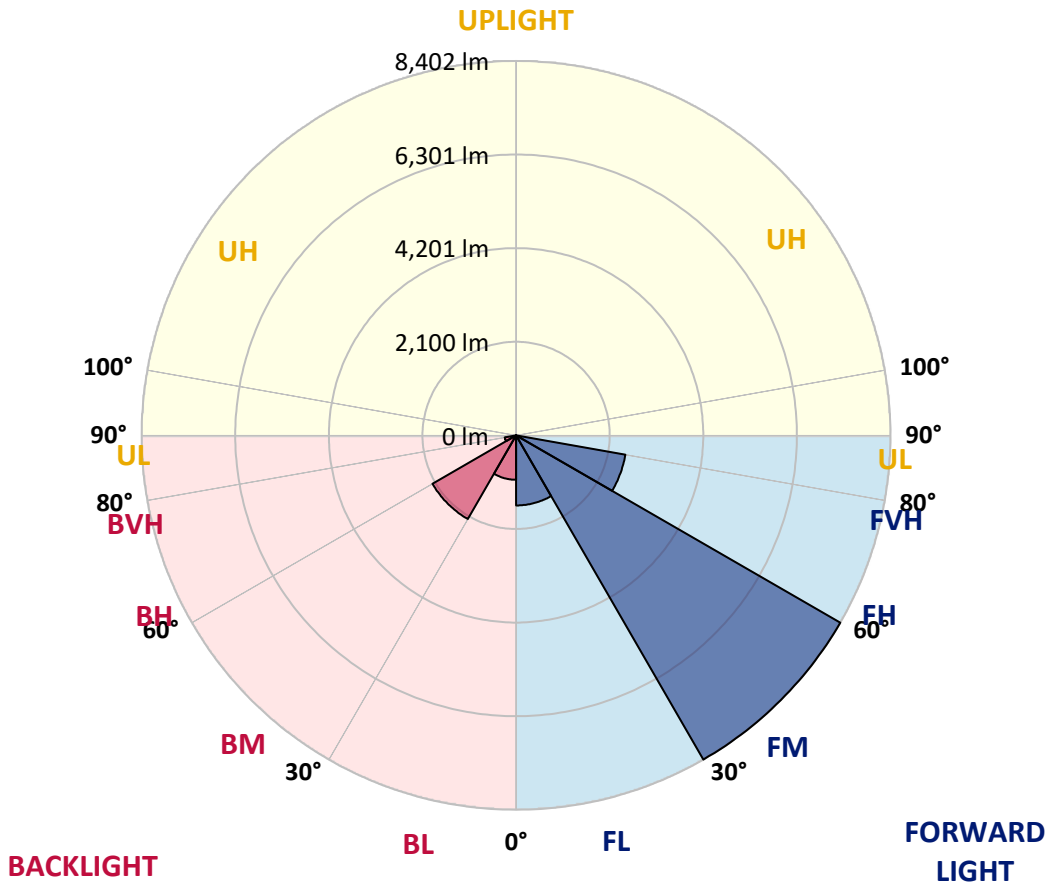
CATALOG NUMBER: GWS-SA5D-735-U-SLL-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1573.0	9.9			
FM (30°-60°)	8401.8	52.9			
FH (60°-80°)	2490.2	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	996.6	6.3	B2/1000		
BM (30°-60°)	2167.6	13.6	B2/2500		
BH (60°-80°)	258.5	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°	2699.6	2699.6	2699.6	2699.6	2699.6	2699.6	2699.6	2699.6	2699.6	2699.6	2699.6
2.5°	2999.1	2992.7	2971.4	2899.2	2854.6	2784.5	2733.6	2667.7	2595.5	2550.9	2506.3
5°	3317.6	3300.7	3243.3	3077.6	2950.2	2812.1	2701.7	2580.6	2451.1	2366.1	2287.5
7.5°	3623.5	3598.0	3521.6	3241.2	3047.9	2850.4	2693.2	2516.9	2334.2	2206.8	2109.1
10°	3923.0	3865.6	3744.6	3400.5	3139.2	2901.4	2716.6	2514.8	2300.3	2138.8	2030.5
12.5°	4169.4	4126.9	3961.2	3551.3	3215.7	2912.0	2684.7	2497.8	2353.4	2245.0	2145.2
15°	4381.8	4335.0	4177.9	3687.2	3281.5	2869.5	2550.9	2387.3	2410.7	2453.2	2368.2
17.5°	4577.2	4528.3	4358.4	3799.8	3307.0	2765.4	2364.0	2285.4	2415.0	2574.3	2542.4
20°	4778.9	4723.7	4515.6	3891.1	3298.5	2601.9	2175.0	2198.3	2381.0	2563.6	2580.6
22.5°	5014.7	4957.4	4715.2	4007.9	3292.2	2406.5	2011.4	2121.9	2317.3	2472.3	2502.0
25°	5326.9	5259.0	4993.5	4180.0	3309.2	2228.1	1894.6	2047.5	2208.9	2349.1	2366.1
27.5°	5739.0	5651.9	5314.2	4392.4	3345.3	2087.9	1843.6	1945.6	2070.9	2196.2	2211.1
30°	6276.3	6165.9	5681.6	4577.2	3328.3	1990.2	1809.6	1843.6	1917.9	2019.9	2022.0
32.5°	6905.0	6754.2	6093.7	4736.5	3181.7	1917.9	1762.9	1739.5	1756.5	1835.1	1850.0
35°	7644.2	7448.8	6548.2	4887.3	2914.1	1777.8	1677.9	1599.4	1593.0	1631.2	1667.3
37.5°	8491.7	8258.0	7121.7	5080.5	2597.6	1631.2	1552.6	1474.0	1440.1	1459.2	1514.4
40°	9273.3	9014.2	7720.7	5314.2	2274.8	1499.5	1406.1	1325.4	1285.0	1291.4	1359.3
42.5°	10190.8	9923.2	8453.4	5620.0	2007.2	1410.3	1253.1	1170.3	1117.2	1146.9	1225.5
45°	11584.2	11280.4	9521.8	5885.5	1794.8	1389.1	1119.3	1002.5	977.0	1028.0	1121.5
47.5°	13487.2	13115.5	10989.4	6047.0	1614.2	1408.2	1025.9	866.6	873.0	930.3	1023.8
50°	15375.5	14974.0	12686.5	5834.6	1465.5	1370.0	979.2	760.4	800.7	851.7	936.7
52.5°	16673.2	16150.7	13512.7	5220.7	1329.6	1225.5	974.9	660.6	737.0	754.0	826.2
55°	16724.2	16080.6	13090.1	4116.3	1144.8	1034.4	930.3	577.7	666.9	673.3	734.9
57.5°	14659.7	14077.7	11439.7	2827.0	1017.4	758.3	741.3	505.5	548.0	601.1	639.3
60°	11153.0	10658.1	8555.4	1295.6	773.1	482.1	507.6	435.4	409.9	488.5	526.7
62.5°	6830.7	6514.2	5131.5	573.5	492.8	257.0	308.0	346.2	308.0	337.7	369.6
65°	2712.3	2572.1	1947.7	244.3	201.8	129.6	140.2	201.8	216.6	237.9	267.6
67.5°	471.5	446.0	327.1	108.3	82.8	78.6	68.0	93.5	131.7	146.6	169.9
70°	61.6	59.5	53.1	44.6	42.5	38.2	29.7	59.5	89.2	93.5	108.3
72.5°	14.9	12.7	12.7	10.6	12.7	4.2	4.2	31.9	63.7	65.8	76.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6	40.4	44.6	53.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
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°	2699.6	2699.6	2699.6	2699.6	2699.6	2699.6	2699.6	2699.6	2699.6	2699.6	2699.6
2.5°	2470.2	2427.7	2412.8	2391.6	2364.0	2372.5	2334.2	2321.5	2340.6	2366.1	2359.7
5°	2245.0	2198.3	2166.5	2117.6	2109.1	2090.0	2077.2	2060.3	2081.5	2111.2	2117.6
7.5°	2066.6	2026.3	1994.4	1979.5	1968.9	1960.4	1934.9	1922.2	1922.2	1934.9	1945.6
10°	1990.2	1960.4	1954.1	1958.3	1975.3	1973.2	1949.8	1932.8	1911.6	1901.0	1913.7
12.5°	2096.4	2047.5	2039.0	2041.1	2062.4	2060.3	2034.8	2013.5	2009.3	2013.5	2053.9
15°	2276.9	2202.6	2147.3	2136.7	2147.3	2143.1	2124.0	2111.2	2117.6	2179.2	2247.2
17.5°	2438.3	2323.6	2223.8	2185.6	2183.4	2177.1	2158.0	2153.7	2185.6	2300.3	2400.1
20°	2485.1	2372.5	2230.2	2181.3	2170.7	2164.3	2143.1	2149.5	2189.8	2327.9	2412.8
22.5°	2423.5	2315.1	2166.5	2117.6	2109.1	2107.0	2085.7	2094.2	2128.2	2249.3	2319.4
25°	2306.6	2215.3	2060.3	2017.8	2017.8	2013.5	1994.4	1998.7	2019.9	2126.1	2194.1
27.5°	2164.3	2077.2	1947.7	1905.2	1911.6	1917.9	1894.6	1888.2	1905.2	2005.0	2045.4
30°	2000.8	1939.2	1837.2	1799.0	1796.9	1822.4	1790.5	1782.0	1805.4	1884.0	1892.5
32.5°	1841.5	1811.8	1739.5	1709.8	1711.9	1716.2	1699.2	1699.2	1720.4	1762.9	1760.8
35°	1686.4	1667.3	1654.6	1633.3	1631.2	1622.7	1622.7	1627.0	1650.3	1665.2	1637.6
37.5°	1537.8	1556.9	1571.7	1550.5	1533.5	1533.5	1533.5	1552.6	1573.9	1567.5	1520.8
40°	1406.1	1446.4	1493.2	1469.8	1429.4	1427.3	1435.8	1467.7	1499.5	1461.3	1418.8
42.5°	1293.5	1344.5	1410.3	1397.6	1353.0	1346.6	1353.0	1393.3	1418.8	1370.0	1323.2
45°	1183.1	1246.8	1325.4	1325.4	1276.5	1270.1	1272.3	1325.4	1340.2	1282.9	1223.4
47.5°	1089.6	1159.7	1242.5	1242.5	1202.2	1189.4	1200.0	1255.3	1265.9	1185.2	1130.0
50°	1000.4	1076.9	1168.2	1161.8	1134.2	1123.6	1142.7	1202.2	1189.4	1100.2	1042.9
52.5°	887.8	968.5	1093.8	1100.2	1085.4	1087.5	1110.8	1149.1	1113.0	1004.6	955.8
55°	785.9	868.7	994.0	1028.0	1028.0	1025.9	1036.5	1066.2	1036.5	906.9	847.5
57.5°	675.4	745.5	849.6	858.1	864.5	841.1	856.0	896.3	881.4	771.0	737.0
60°	554.4	613.8	673.3	679.7	652.1	603.2	630.8	677.5	688.2	605.3	567.1
62.5°	392.9	450.3	520.4	520.4	492.8	443.9	480.0	520.4	505.5	420.5	397.2
65°	293.1	346.2	399.3	422.7	399.3	365.3	392.9	422.7	399.3	329.2	295.2
67.5°	189.0	225.1	257.0	276.1	280.4	276.1	288.9	280.4	252.8	206.0	186.9
70°	114.7	133.8	150.8	167.8	180.5	186.9	193.3	174.2	146.6	121.1	114.7
72.5°	82.8	99.8	114.7	127.4	142.3	146.6	146.6	133.8	108.3	85.0	78.6
75°	57.3	72.2	85.0	93.5	106.2	110.4	110.4	99.8	80.7	61.6	55.2
77.5°	2.1	14.9	14.9	12.7	17.0	21.2	21.2	25.5	23.4	17.0	14.9
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°	2699.6	2699.6	2699.6	2699.6	2699.6	2699.6	2699.6	2699.6	2699.6	2699.6	2699.6
2.5°	2372.5	2448.9	2470.2	2548.8	2618.9	2689.0	2773.9	2824.9	2901.4	2954.4	2984.2
5°	2138.8	2202.6	2279.0	2395.8	2516.9	2650.7	2812.1	2952.3	3128.6	3258.2	3300.7
7.5°	1968.9	2051.8	2141.0	2287.5	2453.2	2631.6	2858.9	3088.3	3358.0	3534.3	3646.9
10°	1937.1	2022.0	2141.0	2285.4	2459.6	2663.5	2941.7	3239.1	3576.8	3791.3	3918.7
12.5°	2090.0	2181.3	2232.3	2298.1	2429.8	2657.1	3013.9	3392.0	3789.2	4022.8	4158.7
15°	2315.1	2395.8	2313.0	2230.2	2315.1	2589.1	3054.3	3519.4	3976.1	4245.8	4386.0
17.5°	2470.2	2476.6	2296.0	2119.7	2143.1	2465.9	3069.1	3646.9	4175.7	4458.2	4604.8
20°	2455.3	2404.3	2221.7	2026.3	1954.1	2306.6	3052.2	3759.4	4377.5	4672.7	4817.2
22.5°	2340.6	2281.1	2126.1	1934.9	1794.8	2117.6	3022.4	3861.4	4562.3	4897.9	5033.8
25°	2202.6	2138.8	2011.4	1843.6	1692.8	1934.9	2999.1	4001.6	4795.9	5191.0	5297.2
27.5°	2041.1	1985.9	1877.6	1756.5	1650.3	1796.9	2992.7	4186.4	5078.4	5547.8	5622.2
30°	1884.0	1833.0	1748.0	1677.9	1633.3	1716.2	2971.4	4383.9	5416.1	5957.8	6038.5
32.5°	1733.2	1682.2	1629.1	1618.5	1620.6	1686.4	2899.2	4579.3	5817.6	6552.5	6611.9
35°	1603.6	1544.1	1522.9	1548.4	1595.1	1635.5	2695.3	4740.7	6248.7	7200.3	7249.1
37.5°	1480.4	1420.9	1418.8	1480.4	1531.4	1556.9	2455.3	4900.0	6830.7	7858.7	7920.3
40°	1367.8	1308.4	1329.6	1403.9	1444.3	1457.0	2164.3	5142.1	7446.7	8553.2	8519.3
42.5°	1272.3	1210.7	1223.4	1319.0	1355.1	1389.1	1896.7	5343.9	8039.2	9211.7	9201.1
45°	1178.8	1132.1	1123.6	1227.7	1259.5	1395.5	1701.3	5499.0	8801.8	10050.7	10067.6
47.5°	1087.5	1051.4	1053.5	1098.1	1176.7	1427.3	1535.6	5600.9	9908.3	11380.3	11085.0
50°	1004.6	977.0	1000.4	949.4	1123.6	1387.0	1393.3	5579.7	11144.5	12654.6	12062.1
52.5°	913.3	906.9	917.6	794.4	1038.6	1223.4	1259.5	5297.2	11724.3	13525.5	13187.8
55°	819.9	817.7	732.8	635.1	868.7	977.0	1079.0	4420.0	11705.2	13988.5	14398.4
57.5°	709.4	692.4	556.5	518.2	675.4	679.7	983.4	2895.0	10373.5	12879.8	13729.4
60°	537.4	524.6	407.8	420.5	471.5	435.4	783.7	1442.2	7752.5	10033.7	10991.6
62.5°	371.7	354.7	303.7	325.0	303.7	248.5	480.0	713.7	4696.1	6335.8	7204.5
65°	271.9	252.8	208.1	178.4	142.3	142.3	182.7	274.0	1818.1	2693.2	3247.6
67.5°	167.8	159.3	123.2	89.2	87.1	93.5	95.6	135.9	293.1	467.3	571.3
70°	108.3	99.8	82.8	57.3	53.1	55.2	57.3	63.7	74.3	80.7	97.7
72.5°	74.3	70.1	59.5	31.9	25.5	27.6	29.7	29.7	36.1	34.0	40.4
75°	53.1	48.9	42.5	14.9	8.5	10.6	12.7	10.6	12.7	8.5	10.6
77.5°	14.9	14.9	10.6	2.1	0.0	2.1	4.2	4.2	2.1	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	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: P640184

CATALOG NUMBER: GWS-SA5D-735-U-SLL-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2699.6	2699.6	2699.6	2699.6	2699.6	2699.6	2699.6	2699.6	2699.6	2699.6
2.5°	3060.6	3109.5	3128.6	3101.0	3124.4	3086.1	3071.3	3013.9	3009.7	2999.1
5°	3472.7	3583.1	3649.0	3689.3	3642.6	3591.6	3515.2	3383.5	3343.1	3317.6
7.5°	3878.4	4050.4	4163.0	4216.1	4203.3	4099.3	3961.2	3740.3	3661.7	3623.5
10°	4231.0	4441.2	4577.2	4643.0	4615.4	4524.1	4326.5	4050.4	3946.3	3923.0
12.5°	4477.3	4670.6	4764.1	4821.4	4823.5	4787.4	4600.5	4322.3	4199.1	4169.4
15°	4632.4	4715.2	4717.3	4751.3	4810.8	4891.5	4804.4	4558.1	4426.4	4381.8
17.5°	4730.1	4638.8	4545.3	4553.8	4651.5	4866.0	4955.2	4766.2	4626.0	4577.2
20°	4800.2	4511.3	4337.2	4339.3	4439.1	4764.1	5059.3	4968.0	4823.5	4778.9
22.5°	4844.8	4398.8	4150.2	4143.9	4250.1	4643.0	5154.9	5208.0	5065.7	5014.7
25°	4936.1	4345.7	4037.7	4073.8	4167.2	4604.8	5284.5	5526.6	5394.9	5326.9
27.5°	5099.7	4398.8	4027.1	4109.9	4216.1	4717.3	5509.6	5951.4	5815.4	5739.0
30°	5382.2	4598.4	4190.6	4305.3	4432.7	5012.6	5887.7	6544.0	6348.6	6276.3
32.5°	5836.7	5012.6	4696.1	4942.5	5065.7	5496.8	6454.8	7208.8	7049.5	6905.0
35°	6463.3	5957.8	5921.6	6495.1	6465.4	6414.4	7151.4	8024.4	7784.4	7644.2
37.5°	7325.6	7478.5	7746.1	8315.4	8296.2	7907.6	8066.9	8795.4	8672.2	8491.7
40°	8402.4	8727.4	9181.9	9997.6	9742.7	9254.2	9190.4	9585.5	9485.7	9273.3
42.5°	9037.5	9598.2	10464.8	11197.6	10993.7	10139.9	10067.6	10641.1	10422.3	10190.8
45°	9332.7	10307.7	12006.8	12998.7	12380.7	10728.2	10700.6	12017.5	11894.3	11584.2
47.5°	9468.7	11023.4	13812.2	15313.9	14158.4	11244.3	11144.5	14014.0	13852.6	13487.2
50°	9619.5	12011.1	15987.2	17996.4	16305.8	11828.4	11900.6	15874.6	15806.6	15375.5
52.5°	9950.8	13056.1	18665.5	21063.5	18909.8	12743.9	13198.4	17629.0	17170.2	16673.2
55°	10447.8	14194.5	21452.2	24196.3	21566.8	13973.6	14602.3	18561.4	17274.3	16724.2
57.5°	9897.7	14479.1	23102.5	26384.0	22745.7	13977.9	13415.0	16945.1	15192.8	14659.7
60°	7854.5	13470.3	22467.4	25910.4	21741.0	12412.5	10271.5	13230.2	11509.8	11153.0
62.5°	5309.9	11297.4	19778.5	21913.1	18608.1	9763.9	6675.7	8604.2	7125.9	6830.7
65°	2909.8	8427.9	15980.8	16577.6	14564.1	6820.1	3434.5	3733.9	2844.0	2712.3
67.5°	802.9	5866.4	11758.3	10997.9	10218.4	4441.2	887.8	666.9	475.8	471.5
70°	201.8	3880.5	7045.2	7261.9	6265.7	2844.0	169.9	80.7	63.7	61.6
72.5°	85.0	1669.4	3343.1	3842.3	3207.2	1316.9	61.6	23.4	19.1	14.9
75°	10.6	133.8	284.6	431.2	295.2	142.3	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)