

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: P636224

Luminaire Tested: GWS-SA3F-735-U-SLL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636224  
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-SA3F-735-U-SLL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

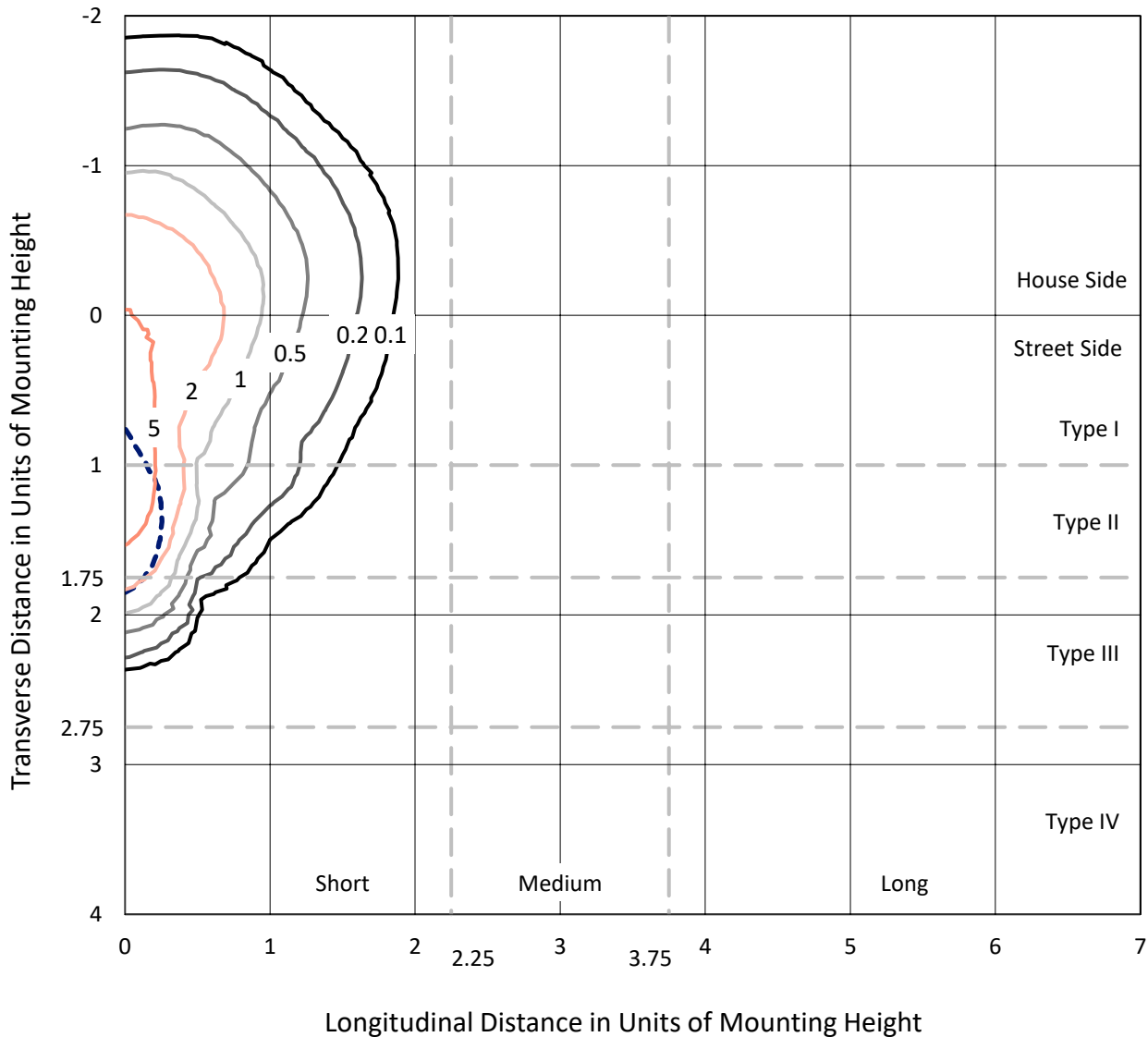
Lumens per Lamp: N/A  
Luminaire Lumens: 12931.2 lumens  
Efficiency: N/A  
Efficacy: 70.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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



REPORT NUMBER: P636224  
 CATALOG NUMBER: GWS-SA3F-735-U-SLL-W-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

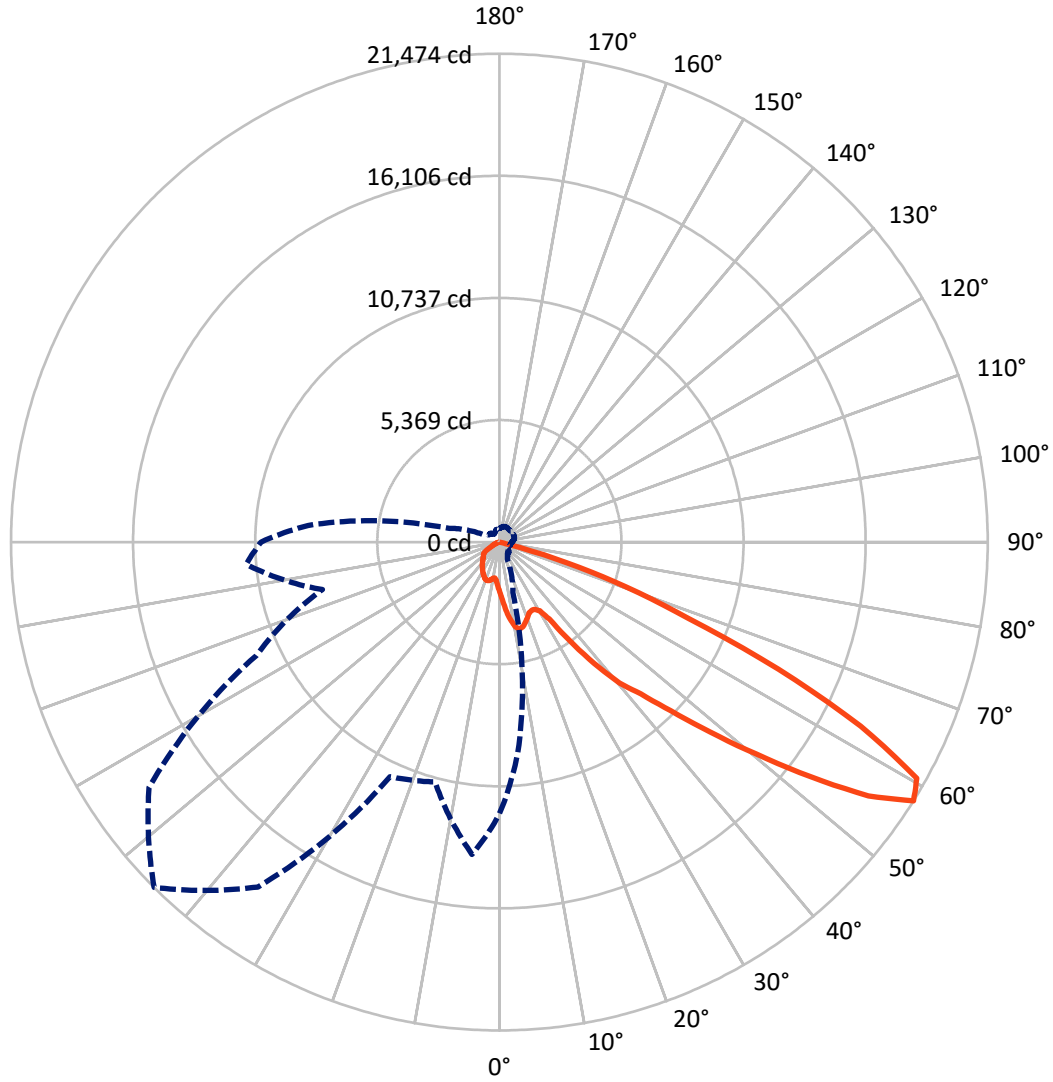
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.6 fc  
 Type III - Short - N/A

REPORT NUMBER: P636224  
CATALOG NUMBER: GWS-SA3F-735-U-SLL-W-GRSBK

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P636224

CATALOG NUMBER: GWS-SA3F-735-U-SLL-W-GRSBK

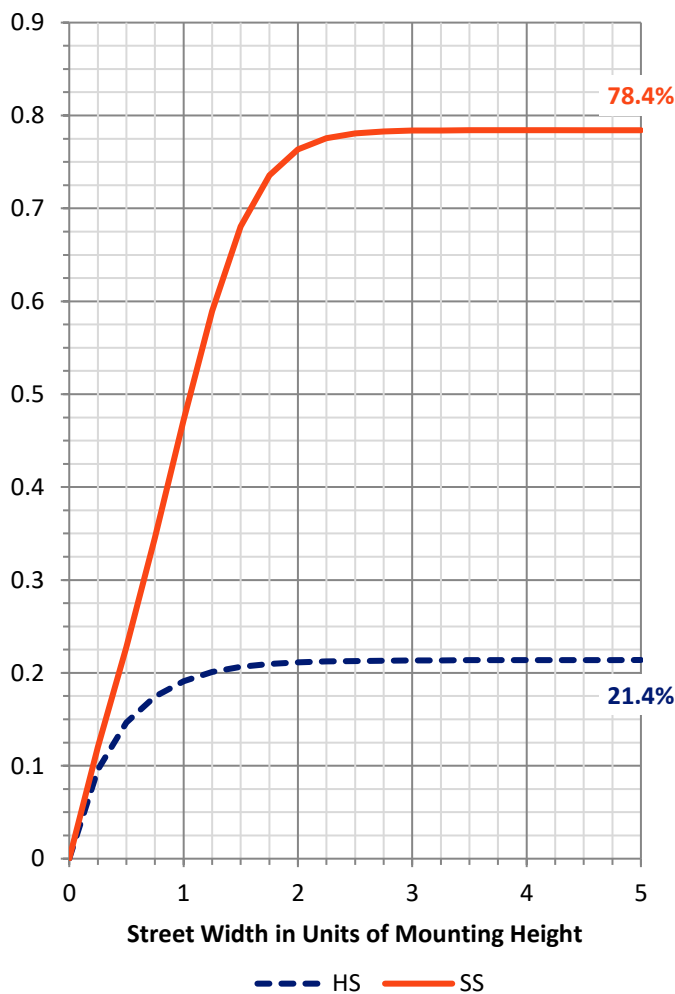
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2785.8	0.0	2785.8
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	10145.4	0.0	10145.4
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	12931.2	0.0	12931.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.2	1.7
10°-20°	714.6	5.5
20°-30°	1159.7	9.0
30°-40°	1779.9	13.8
40°-50°	2842.6	22.0
50°-60°	3980.1	30.8
60°-70°	2040.7	15.8
70°-80°	196.5	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°	12931.2	100.0
0°-180°	12931.2	100.0

**Coefficient of Utilization**



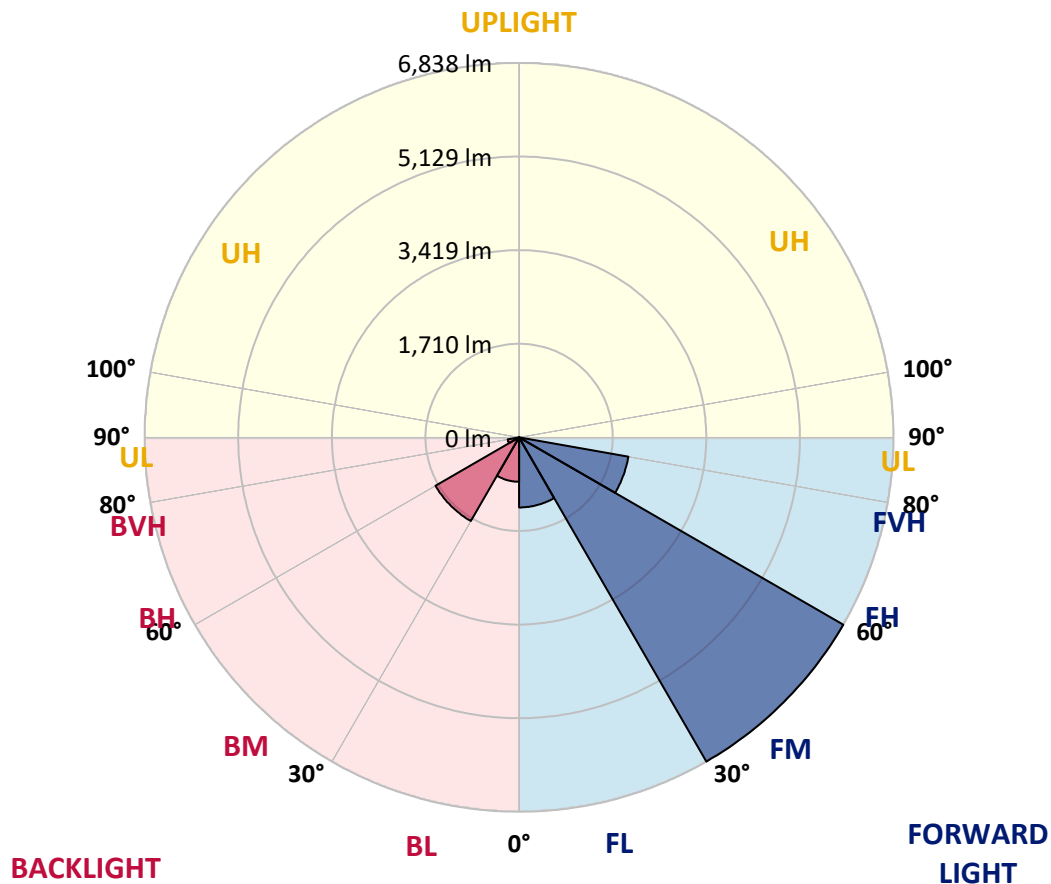
REPORT NUMBER: P636224

CATALOG NUMBER: GWS-SA3F-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°)	1280.3	9.9			
FM (30°-60°)	6838.3	52.9			
FH (60°-80°)	2026.8	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	811.2	6.3	B2/1000		
BM (30°-60°)	1764.2	13.6	B2/2500		
BH (60°-80°)	210.4	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: B2-U0-G2**  
 Type III Short





REPORT NUMBER: P636224

CATALOG NUMBER: GWS-SA3F-735-U-SLL-W-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2
2.5°	2441.0	2435.8	2418.5	2359.7	2323.4	2266.4	2224.9	2171.3	2112.5	2076.2	2039.9
5°	2700.3	2686.4	2639.8	2504.9	2401.2	2288.8	2198.9	2100.4	1994.9	1925.8	1861.8
7.5°	2949.2	2928.5	2866.2	2638.0	2480.7	2319.9	2192.0	2048.5	1899.9	1796.1	1716.6
10°	3192.9	3146.3	3047.7	2767.7	2555.0	2361.4	2211.0	2046.8	1872.2	1740.8	1652.7
12.5°	3393.5	3358.9	3224.1	2890.4	2617.3	2370.1	2185.1	2033.0	1915.4	1827.3	1746.0
15°	3566.3	3528.3	3400.4	3001.1	2670.9	2335.5	2076.2	1943.1	1962.1	1996.7	1927.5
17.5°	3725.4	3685.6	3547.3	3092.7	2691.6	2250.8	1924.1	1860.1	1965.6	2095.2	2069.3
20°	3889.6	3844.7	3675.3	3167.0	2684.7	2117.7	1770.2	1789.2	1937.9	2086.6	2100.4
22.5°	4081.5	4034.8	3837.8	3262.1	2679.5	1958.6	1637.1	1727.0	1886.0	2012.2	2036.4
25°	4335.6	4280.3	4064.2	3402.1	2693.3	1813.4	1542.0	1666.5	1797.9	1912.0	1925.8
27.5°	4671.0	4600.1	4325.3	3575.0	2722.7	1699.3	1500.5	1583.5	1685.5	1787.5	1799.6
30°	5108.4	5018.5	4624.3	3725.4	2708.9	1619.8	1472.9	1500.5	1561.0	1644.0	1645.7
32.5°	5620.1	5497.3	4959.7	3855.0	2589.6	1561.0	1434.8	1415.8	1429.7	1493.6	1505.7
35°	6221.7	6062.6	5329.6	3977.8	2371.8	1446.9	1365.7	1301.7	1296.5	1327.7	1357.0
37.5°	6911.4	6721.3	5796.4	4135.1	2114.2	1327.7	1263.7	1199.7	1172.1	1187.6	1232.6
40°	7547.6	7336.7	6283.9	4325.3	1851.5	1220.5	1144.4	1078.7	1045.9	1051.1	1106.4
42.5°	8294.4	8076.6	6880.3	4574.2	1633.6	1147.9	1019.9	952.5	909.3	933.5	997.5
45°	9428.4	9181.2	7749.8	4790.3	1460.8	1130.6	911.0	816.0	795.2	836.7	912.8
47.5°	10977.4	10674.8	8944.4	4921.7	1313.8	1146.1	835.0	705.3	710.5	757.2	833.2
50°	12514.2	12187.5	10325.6	4748.8	1192.8	1115.0	796.9	618.9	651.7	693.2	762.4
52.5°	13570.4	13145.2	10998.1	4249.2	1082.2	997.5	793.5	537.6	599.9	613.7	672.5
55°	13611.9	13088.1	10654.1	3350.3	931.8	841.9	757.2	470.2	542.8	548.0	598.1
57.5°	11931.6	11458.0	9310.9	2300.9	828.1	617.2	603.3	411.4	446.0	489.2	520.3
60°	9077.5	8674.7	6963.3	1054.5	629.3	392.4	413.2	354.4	333.6	397.6	428.7
62.5°	5559.6	5302.0	4176.6	466.8	401.1	209.2	250.7	281.8	250.7	274.9	300.8
65°	2207.6	2093.5	1585.2	198.8	164.2	105.5	114.1	164.2	176.3	193.6	217.8
67.5°	383.8	363.0	266.2	88.2	67.4	64.0	55.3	76.1	107.2	119.3	138.3
70°	50.1	48.4	43.2	36.3	34.6	31.1	24.2	48.4	72.6	76.1	88.2
72.5°	12.1	10.4	10.4	8.6	10.4	3.5	3.5	25.9	51.9	53.6	62.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	32.8	36.3	43.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
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



REPORT NUMBER: P636224

CATALOG NUMBER: GWS-SA3F-735-U-SLL-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2
2.5°	2010.5	1975.9	1963.8	1946.5	1924.1	1931.0	1899.9	1889.5	1905.0	1925.8	1920.6
5°	1827.3	1789.2	1763.3	1723.5	1716.6	1701.1	1690.7	1676.9	1694.1	1718.3	1723.5
7.5°	1682.0	1649.2	1623.3	1611.2	1602.5	1595.6	1574.9	1564.5	1564.5	1574.9	1583.5
10°	1619.8	1595.6	1590.4	1593.9	1607.7	1606.0	1587.0	1573.1	1555.8	1547.2	1557.6
12.5°	1706.2	1666.5	1659.6	1661.3	1678.6	1676.9	1656.1	1638.8	1635.4	1638.8	1671.7
15°	1853.2	1792.7	1747.7	1739.1	1747.7	1744.3	1728.7	1718.3	1723.5	1773.7	1829.0
17.5°	1984.6	1891.2	1810.0	1778.9	1777.1	1771.9	1756.4	1752.9	1778.9	1872.2	1953.5
20°	2022.6	1931.0	1815.2	1775.4	1766.8	1761.6	1744.3	1749.5	1782.3	1894.7	1963.8
22.5°	1972.5	1884.3	1763.3	1723.5	1716.6	1714.9	1697.6	1704.5	1732.2	1830.7	1887.8
25°	1877.4	1803.1	1676.9	1642.3	1642.3	1638.8	1623.3	1626.7	1644.0	1730.4	1785.8
27.5°	1761.6	1690.7	1585.2	1550.7	1555.8	1561.0	1542.0	1536.8	1550.7	1631.9	1664.8
30°	1628.5	1578.3	1495.3	1464.2	1462.5	1483.2	1457.3	1450.4	1469.4	1533.4	1540.3
32.5°	1498.8	1474.6	1415.8	1391.6	1393.3	1396.8	1383.0	1383.0	1400.3	1434.8	1433.1
35°	1372.6	1357.0	1346.7	1329.4	1327.7	1320.7	1320.7	1324.2	1343.2	1355.3	1332.8
37.5°	1251.6	1267.2	1279.3	1262.0	1248.1	1248.1	1248.1	1263.7	1281.0	1275.8	1237.8
40°	1144.4	1177.3	1215.3	1196.3	1163.4	1161.7	1168.6	1194.5	1220.5	1189.4	1154.8
42.5°	1052.8	1094.3	1147.9	1137.5	1101.2	1096.0	1101.2	1134.0	1154.8	1115.0	1077.0
45°	962.9	1014.8	1078.7	1078.7	1039.0	1033.8	1035.5	1078.7	1090.8	1044.1	995.7
47.5°	886.8	943.9	1011.3	1011.3	978.5	968.1	976.7	1021.7	1030.3	964.6	919.7
50°	814.2	876.5	950.8	945.6	923.1	914.5	930.1	978.5	968.1	895.5	848.8
52.5°	722.6	788.3	890.3	895.5	883.4	885.1	904.1	935.2	905.8	817.7	777.9
55°	639.6	707.0	809.0	836.7	836.7	835.0	843.6	867.8	843.6	738.2	689.8
57.5°	549.7	606.8	691.5	698.4	703.6	684.6	696.7	729.5	717.4	627.5	599.9
60°	451.2	499.6	548.0	553.2	530.7	491.0	513.4	551.5	560.1	492.7	461.6
62.5°	319.8	366.5	423.5	423.5	401.1	361.3	390.7	423.5	411.4	342.3	323.3
65°	238.6	281.8	325.0	344.0	325.0	297.3	319.8	344.0	325.0	268.0	240.3
67.5°	153.9	183.2	209.2	224.7	228.2	224.7	235.1	228.2	205.7	167.7	152.1
70°	93.4	108.9	122.7	136.6	146.9	152.1	157.3	141.8	119.3	98.5	93.4
72.5°	67.4	81.2	93.4	103.7	115.8	119.3	119.3	108.9	88.2	69.1	64.0
75°	46.7	58.8	69.1	76.1	86.4	89.9	89.9	81.2	65.7	50.1	44.9
77.5°	1.7	12.1	12.1	10.4	13.8	17.3	17.3	20.7	19.0	13.8	12.1
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2
2.5°	1931.0	1993.2	2010.5	2074.5	2131.5	2188.6	2257.7	2299.2	2361.4	2404.6	2428.9
5°	1740.8	1792.7	1854.9	1950.0	2048.5	2157.4	2288.8	2402.9	2546.4	2651.9	2686.4
7.5°	1602.5	1669.9	1742.5	1861.8	1996.7	2141.9	2326.9	2513.6	2733.1	2876.6	2968.2
10°	1576.6	1645.7	1742.5	1860.1	2001.9	2167.8	2394.3	2636.3	2911.2	3085.8	3189.5
12.5°	1701.1	1775.4	1816.9	1870.5	1977.7	2162.6	2453.1	2760.8	3084.0	3274.2	3384.8
15°	1884.3	1950.0	1882.6	1815.2	1884.3	2107.3	2485.9	2864.5	3236.2	3455.7	3569.8
17.5°	2010.5	2015.7	1868.7	1725.3	1744.3	2007.0	2498.0	2968.2	3398.7	3628.6	3747.9
20°	1998.4	1956.9	1808.2	1649.2	1590.4	1877.4	2484.2	3059.8	3562.9	3803.2	3920.7
22.5°	1905.0	1856.6	1730.4	1574.9	1460.8	1723.5	2460.0	3142.8	3713.3	3986.4	4097.1
25°	1792.7	1740.8	1637.1	1500.5	1377.8	1574.9	2441.0	3256.9	3903.4	4225.0	4311.4
27.5°	1661.3	1616.4	1528.2	1429.7	1343.2	1462.5	2435.8	3407.3	4133.4	4515.4	4575.9
30°	1533.4	1491.9	1422.7	1365.7	1329.4	1396.8	2418.5	3568.1	4408.2	4849.1	4914.7
32.5°	1410.6	1369.1	1325.9	1317.3	1319.0	1372.6	2359.7	3727.1	4735.0	5333.1	5381.5
35°	1305.2	1256.8	1239.5	1260.2	1298.3	1331.1	2193.7	3858.5	5085.9	5860.4	5900.1
37.5°	1204.9	1156.5	1154.8	1204.9	1246.4	1267.2	1998.4	3988.2	5559.6	6396.3	6446.4
40°	1113.3	1064.9	1082.2	1142.7	1175.5	1185.9	1761.6	4185.2	6060.9	6961.6	6933.9
42.5°	1035.5	985.4	995.7	1073.5	1102.9	1130.6	1543.7	4349.5	6543.2	7497.5	7488.8
45°	959.4	921.4	914.5	999.2	1025.1	1135.8	1384.7	4475.7	7163.8	8180.3	8194.1
47.5°	885.1	855.7	857.4	893.7	957.7	1161.7	1249.9	4558.6	8064.5	9262.5	9022.2
50°	817.7	795.2	814.2	772.7	914.5	1128.9	1134.0	4541.3	9070.6	10299.7	9817.4
52.5°	743.3	738.2	746.8	646.5	845.3	995.7	1025.1	4311.4	9542.5	11008.5	10733.6
55°	667.3	665.6	596.4	516.9	707.0	795.2	878.2	3597.5	9527.0	11385.3	11719.0
57.5°	577.4	563.6	452.9	421.8	549.7	553.2	800.4	2356.2	8443.1	10483.0	11174.4
60°	437.4	427.0	331.9	342.3	383.8	354.4	637.9	1173.8	6309.8	8166.5	8946.1
62.5°	302.5	288.7	247.2	264.5	247.2	202.3	390.7	580.8	3822.2	5156.8	5863.8
65°	221.3	205.7	169.4	145.2	115.8	115.8	148.7	223.0	1479.8	2192.0	2643.2
67.5°	136.6	129.7	100.3	72.6	70.9	76.1	77.8	110.6	238.6	380.3	465.0
70°	88.2	81.2	67.4	46.7	43.2	44.9	46.7	51.9	60.5	65.7	79.5
72.5°	60.5	57.0	48.4	25.9	20.7	22.5	24.2	24.2	29.4	27.7	32.8
75°	43.2	39.8	34.6	12.1	6.9	8.6	10.4	8.6	10.4	6.9	8.6
77.5°	12.1	12.1	8.6	1.7	0.0	1.7	3.5	3.5	1.7	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	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: P636224  
 CATALOG NUMBER: GWS-SA3F-735-U-SLL-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2
2.5°	2491.1	2530.8	2546.4	2523.9	2542.9	2511.8	2499.7	2453.1	2449.6	2441.0
5°	2826.5	2916.3	2969.9	3002.8	2964.8	2923.3	2861.0	2753.9	2721.0	2700.3
7.5°	3156.6	3296.7	3388.3	3431.5	3421.1	3336.4	3224.1	3044.3	2980.3	2949.2
10°	3443.6	3614.8	3725.4	3779.0	3756.5	3682.2	3521.4	3296.7	3212.0	3192.9
12.5°	3644.1	3801.5	3877.5	3924.2	3925.9	3896.5	3744.4	3517.9	3417.7	3393.5
15°	3770.3	3837.8	3839.5	3867.1	3915.5	3981.2	3910.4	3709.8	3602.7	3566.3
17.5°	3849.9	3775.5	3699.5	3706.4	3785.9	3960.5	4033.1	3879.2	3765.2	3725.4
20°	3906.9	3671.8	3530.0	3531.8	3613.0	3877.5	4117.8	4043.5	3925.9	3889.6
22.5°	3943.2	3580.2	3377.9	3372.7	3459.2	3779.0	4195.6	4238.8	4123.0	4081.5
25°	4017.5	3537.0	3286.3	3315.7	3391.7	3747.9	4301.1	4498.1	4390.9	4335.6
27.5°	4150.7	3580.2	3277.7	3345.1	3431.5	3839.5	4484.3	4843.9	4733.2	4671.0
30°	4380.6	3742.7	3410.8	3504.1	3607.8	4079.8	4792.0	5326.2	5167.1	5108.4
32.5°	4750.5	4079.8	3822.2	4022.7	4123.0	4473.9	5253.6	5867.3	5737.6	5620.1
35°	5260.5	4849.1	4819.7	5286.4	5262.2	5220.7	5820.6	6531.1	6335.8	6221.7
37.5°	5962.4	6086.8	6304.6	6767.9	6752.4	6436.0	6565.7	7158.6	7058.4	6911.4
40°	6838.8	7103.3	7473.3	8137.1	7929.6	7532.0	7480.2	7801.7	7720.5	7547.6
42.5°	7355.7	7812.1	8517.4	9113.8	8947.9	8252.9	8194.1	8660.9	8482.8	8294.4
45°	7596.0	8389.5	9772.5	10579.8	10076.7	8731.8	8709.3	9781.1	9680.8	9428.4
47.5°	7706.6	8972.1	11241.9	12464.1	11523.6	9151.8	9070.6	11406.1	11274.7	10977.4
50°	7829.4	9775.9	13012.1	14647.4	13271.4	9627.2	9686.0	12920.4	12865.1	12514.2
52.5°	8099.1	10626.4	15192.0	17143.7	15390.8	10372.3	10742.3	14348.4	13975.0	13570.4
55°	8503.6	11553.0	17460.1	19693.6	17553.4	11373.2	11884.9	15107.3	14059.7	13611.9
57.5°	8055.8	11784.7	18803.3	21474.2	18512.9	11376.7	10918.6	13791.7	12365.5	11931.6
60°	6392.8	10963.5	18286.4	21088.6	17695.2	10102.6	8360.1	10768.2	9367.9	9077.5
62.5°	4321.8	9195.1	16097.8	17835.2	15145.3	7946.9	5433.4	7003.0	5799.9	5559.6
65°	2368.3	6859.6	13006.9	13492.7	11853.8	5550.9	2795.3	3039.1	2314.8	2207.6
67.5°	653.5	4774.7	9570.2	8951.3	8316.9	3614.8	722.6	542.8	387.2	383.8
70°	164.2	3158.4	5734.2	5910.5	5099.7	2314.8	138.3	65.7	51.9	50.1
72.5°	69.1	1358.8	2721.0	3127.3	2610.4	1071.8	50.1	19.0	15.6	12.1
75°	8.6	108.9	231.6	350.9	240.3	115.8	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)