

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: P637709

Luminaire Tested: GWS-SA4D-735-U-SLL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637709  
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-SA4D-735-U-SLL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

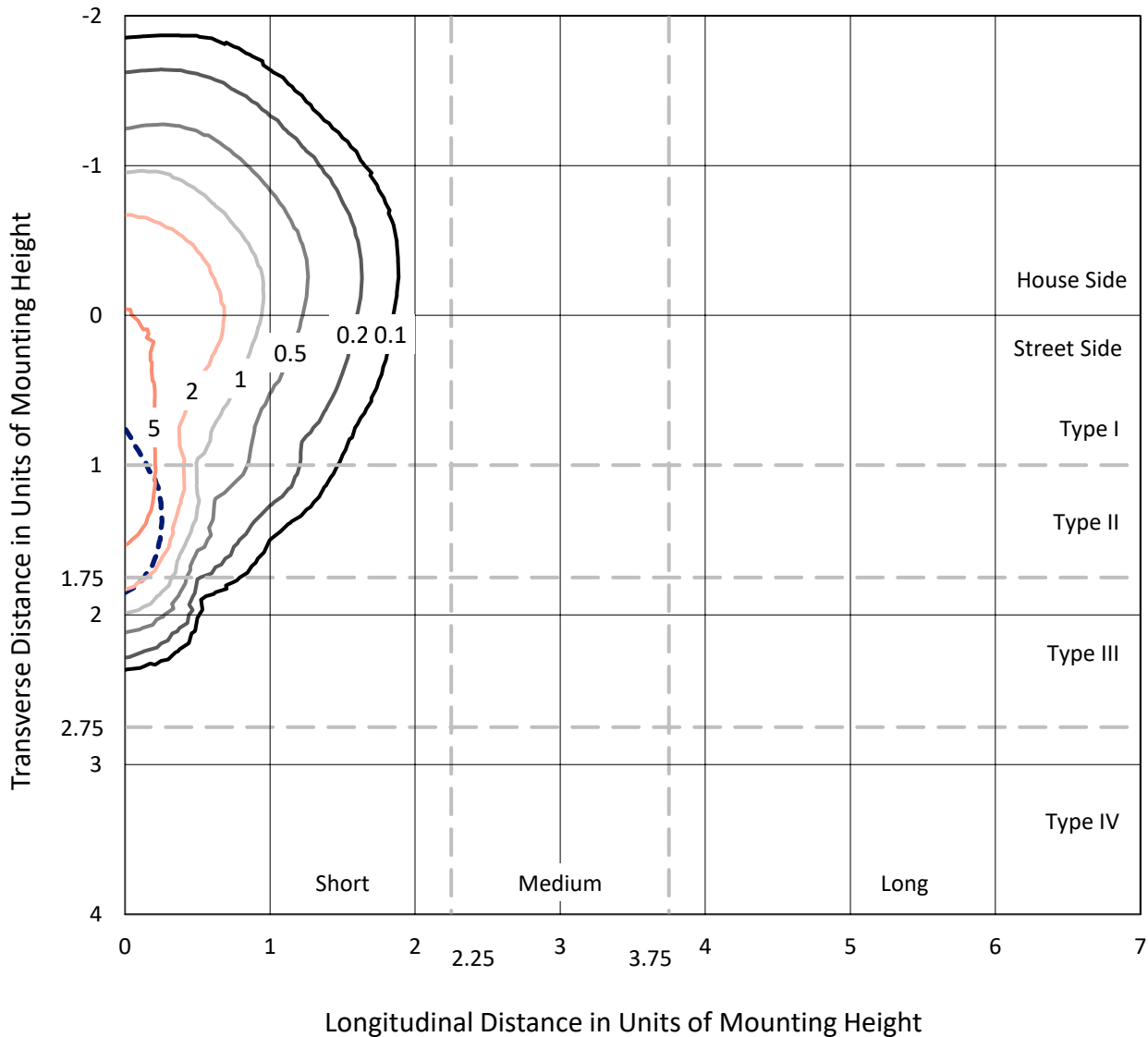
Lumens per Lamp: N/A  
Luminaire Lumens: 12951.5 lumens  
Efficiency: N/A  
Efficacy: 79.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

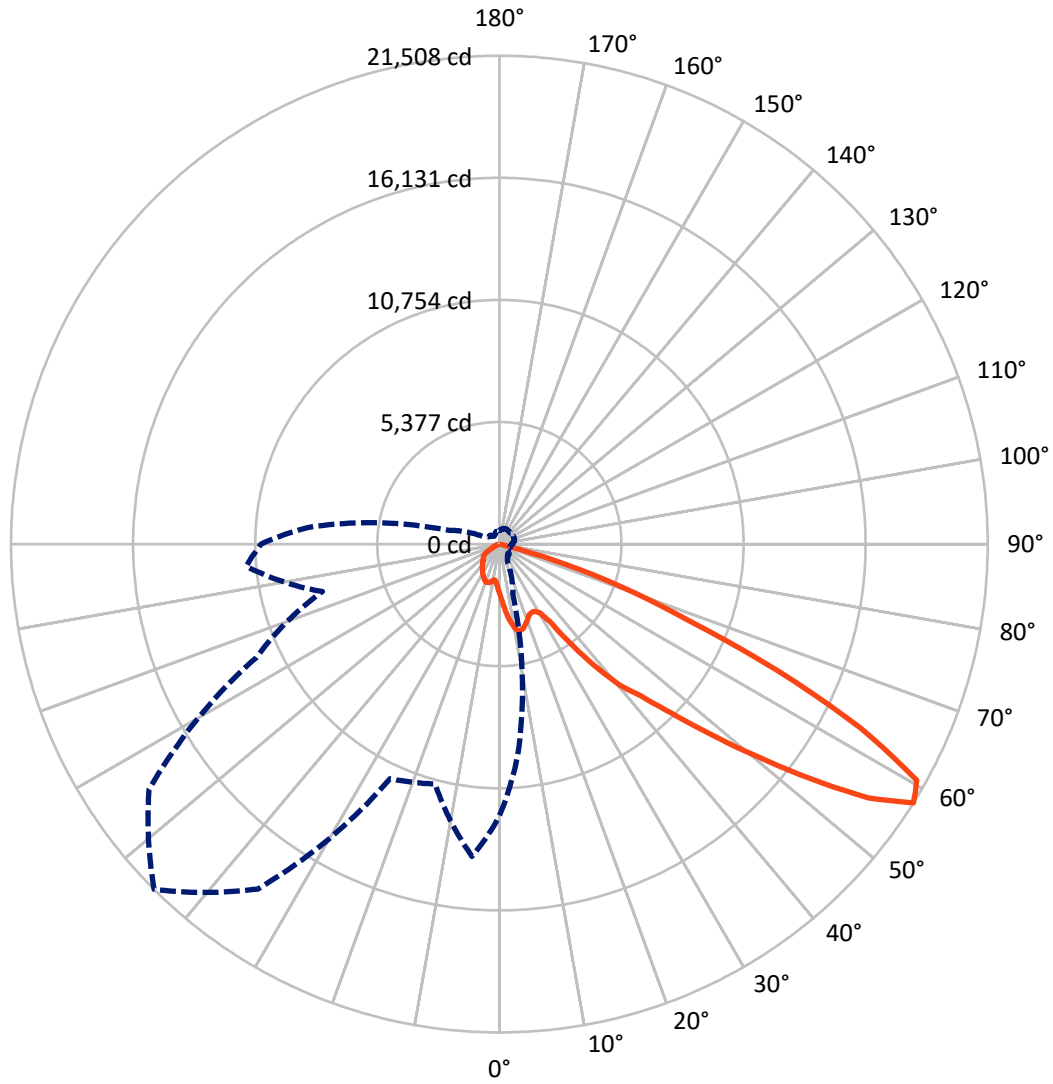
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.6 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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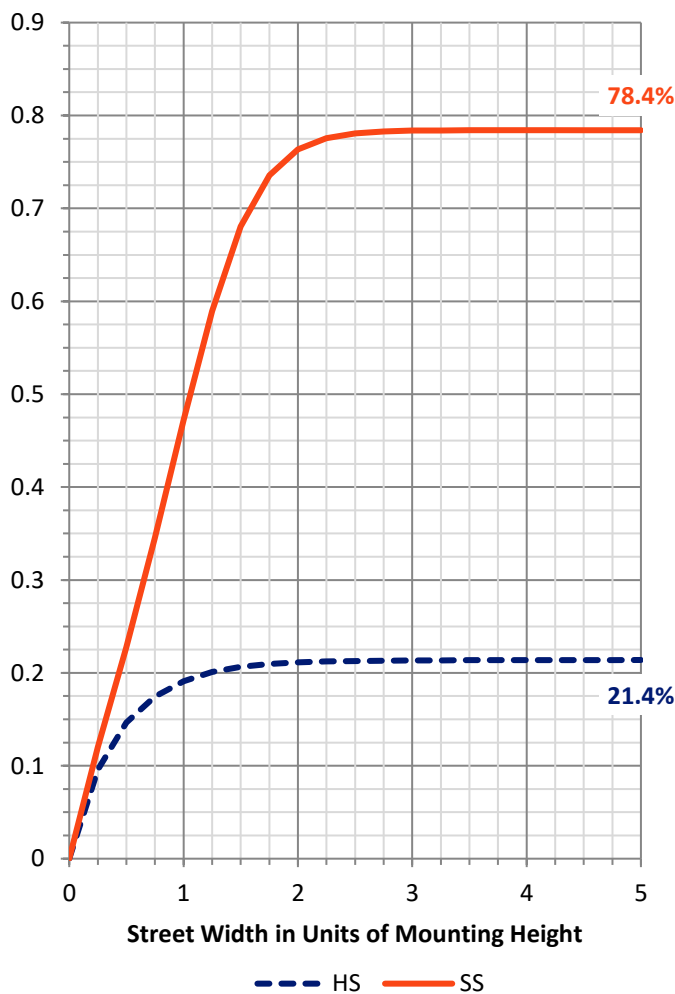
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2790.2	0.0	2790.2
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	10161.3	0.0	10161.3
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	12951.5	0.0	12951.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.5	1.7
10°-20°	715.7	5.5
20°-30°	1161.5	9.0
30°-40°	1782.7	13.8
40°-50°	2847.0	22.0
50°-60°	3986.4	30.8
60°-70°	2043.9	15.8
70°-80°	196.8	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°	12951.5	100.0
0°-180°	12951.5	100.0

**Coefficient of Utilization**



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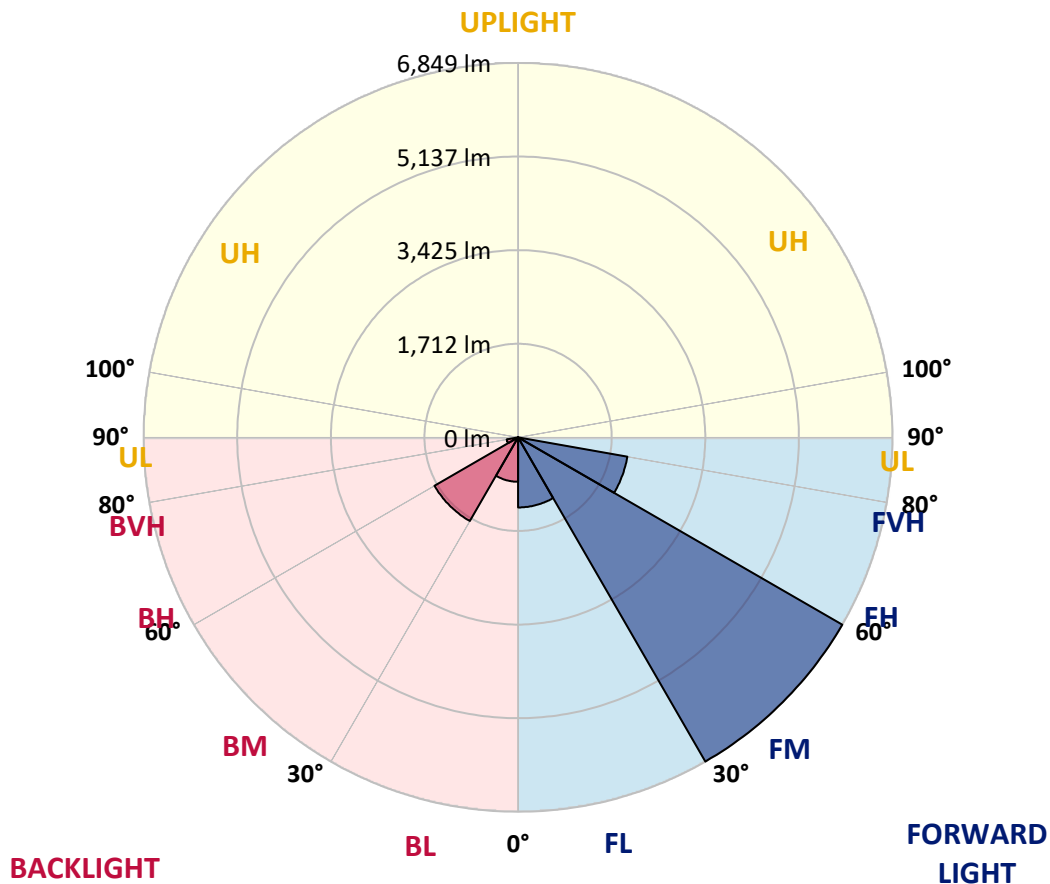
CATALOG NUMBER: GWS-SA4D-735-U-SLL-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1282.3	9.9			
FM (30°-60°)	6849.1	52.9			
FH (60°-80°)	2030.0	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	812.5	6.3	B2/1000		
BM (30°-60°)	1767.0	13.6	B2/2500		
BH (60°-80°)	210.7	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°	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7
2.5°	2444.8	2439.6	2422.3	2363.4	2327.0	2269.9	2228.4	2174.7	2115.8	2079.5	2043.1
5°	2704.5	2690.6	2643.9	2508.8	2405.0	2292.4	2202.4	2103.7	1998.1	1928.8	1864.8
7.5°	2953.8	2933.0	2870.7	2642.2	2484.6	2323.6	2195.5	2051.7	1902.8	1799.0	1719.3
10°	3198.0	3151.2	3052.5	2772.0	2559.1	2365.1	2214.5	2050.0	1875.1	1743.6	1655.3
12.5°	3398.8	3364.2	3229.1	2895.0	2621.4	2373.8	2188.5	2036.2	1918.4	1830.1	1748.7
15°	3571.9	3533.9	3405.7	3005.8	2675.1	2339.2	2079.5	1946.1	1965.2	1999.8	1930.5
17.5°	3731.2	3691.4	3552.9	3097.5	2695.8	2254.3	1927.1	1863.0	1968.6	2098.5	2072.5
20°	3895.7	3850.7	3681.0	3172.0	2688.9	2121.0	1773.0	1792.0	1940.9	2089.8	2103.7
22.5°	4087.9	4041.2	3843.8	3267.2	2683.7	1961.7	1639.7	1729.7	1889.0	2015.4	2039.6
25°	4342.4	4287.0	4070.6	3407.5	2697.6	1816.3	1544.4	1669.1	1800.7	1915.0	1928.8
27.5°	4678.3	4607.3	4332.0	3580.6	2727.0	1702.0	1502.9	1586.0	1688.1	1790.3	1802.4
30°	5116.4	5026.4	4631.6	3731.2	2713.2	1622.4	1475.2	1502.9	1563.5	1646.6	1648.3
32.5°	5628.9	5506.0	4967.5	3861.1	2593.7	1563.5	1437.1	1418.0	1431.9	1496.0	1508.1
35°	6231.4	6072.1	5338.0	3984.0	2375.5	1449.2	1367.8	1303.8	1298.6	1329.7	1359.2
37.5°	6922.3	6731.8	5805.5	4141.6	2117.5	1329.7	1265.7	1201.6	1173.9	1189.5	1234.5
40°	7559.4	7348.2	6293.8	4332.0	1854.4	1222.4	1146.2	1080.4	1047.5	1052.7	1108.1
42.5°	8307.4	8089.3	6891.1	4581.4	1636.2	1149.7	1021.5	954.0	910.7	935.0	999.0
45°	9443.2	9195.6	7762.0	4797.8	1463.1	1132.4	912.5	817.2	796.5	838.0	914.2
47.5°	10994.6	10691.6	8958.4	4929.4	1315.9	1147.9	836.3	706.4	711.6	758.4	834.6
50°	12533.8	12206.6	10341.9	4756.2	1194.7	1116.8	798.2	619.9	652.8	694.3	763.6
52.5°	13591.8	13165.8	11015.4	4255.9	1083.9	999.0	794.7	538.5	600.8	614.7	673.5
55°	13633.3	13108.7	10670.8	3355.5	933.2	843.2	758.4	470.9	543.7	548.9	599.1
57.5°	11950.4	11475.9	9325.5	2304.5	829.4	618.1	604.3	412.1	446.7	490.0	521.2
60°	9091.8	8688.3	6974.2	1056.2	630.2	393.0	413.8	354.9	334.2	398.2	429.4
62.5°	5568.3	5310.3	4183.1	467.5	401.7	209.5	251.1	282.2	251.1	275.3	301.3
65°	2211.0	2096.8	1587.7	199.1	164.5	105.6	114.3	164.5	176.6	193.9	218.2
67.5°	384.4	363.6	266.6	88.3	67.5	64.1	55.4	76.2	107.3	119.5	138.5
70°	50.2	48.5	43.3	36.4	34.6	31.2	24.2	48.5	72.7	76.2	88.3
72.5°	12.1	10.4	10.4	8.7	10.4	3.5	3.5	26.0	51.9	53.7	62.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	32.9	36.4	43.3
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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7
2.5°	2013.7	1979.0	1966.9	1949.6	1927.1	1934.0	1902.8	1892.5	1908.0	1928.8	1923.6
5°	1830.1	1792.0	1766.1	1726.2	1719.3	1703.7	1693.3	1679.5	1696.8	1721.0	1726.2
7.5°	1684.7	1651.8	1625.8	1613.7	1605.0	1598.1	1577.3	1566.9	1566.9	1577.3	1586.0
10°	1622.4	1598.1	1592.9	1596.4	1610.2	1608.5	1589.5	1575.6	1558.3	1549.6	1560.0
12.5°	1708.9	1669.1	1662.2	1663.9	1681.2	1679.5	1658.7	1641.4	1637.9	1641.4	1674.3
15°	1856.1	1795.5	1750.5	1741.8	1750.5	1747.0	1731.4	1721.0	1726.2	1776.5	1831.9
17.5°	1987.7	1894.2	1812.8	1781.6	1779.9	1774.7	1759.1	1755.7	1781.6	1875.1	1956.5
20°	2025.8	1934.0	1818.0	1778.2	1769.5	1764.3	1747.0	1752.2	1785.1	1897.7	1966.9
22.5°	1975.6	1887.3	1766.1	1726.2	1719.3	1717.6	1700.3	1707.2	1734.9	1833.6	1890.7
25°	1880.3	1805.9	1679.5	1644.9	1644.9	1641.4	1625.8	1629.3	1646.6	1733.2	1788.6
27.5°	1764.3	1693.3	1587.7	1553.1	1558.3	1563.5	1544.4	1539.2	1553.1	1634.5	1667.4
30°	1631.0	1580.8	1497.7	1466.5	1464.8	1485.6	1459.6	1452.7	1471.7	1535.8	1542.7
32.5°	1501.2	1476.9	1418.0	1393.8	1395.5	1399.0	1385.1	1385.1	1402.5	1437.1	1435.4
35°	1374.8	1359.2	1348.8	1331.5	1329.7	1322.8	1322.8	1326.3	1345.3	1357.4	1334.9
37.5°	1253.6	1269.1	1281.3	1263.9	1250.1	1250.1	1250.1	1265.7	1283.0	1277.8	1239.7
40°	1146.2	1179.1	1217.2	1198.2	1165.3	1163.5	1170.4	1196.4	1222.4	1191.2	1156.6
42.5°	1054.4	1096.0	1149.7	1139.3	1102.9	1097.7	1102.9	1135.8	1156.6	1116.8	1078.7
45°	964.4	1016.4	1080.4	1080.4	1040.6	1035.4	1037.1	1080.4	1092.5	1045.8	997.3
47.5°	888.2	945.4	1012.9	1012.9	980.0	969.6	978.3	1023.3	1031.9	966.1	921.1
50°	815.5	877.8	952.3	947.1	924.6	915.9	931.5	980.0	969.6	896.9	850.1
52.5°	723.7	789.5	891.7	896.9	884.8	886.5	905.5	936.7	907.3	819.0	779.1
55°	640.6	708.2	810.3	838.0	838.0	836.3	844.9	869.2	844.9	739.3	690.8
57.5°	550.6	607.7	692.6	699.5	704.7	685.6	697.8	730.7	718.5	628.5	600.8
60°	451.9	500.4	548.9	554.1	531.6	491.7	514.2	552.3	561.0	493.5	462.3
62.5°	320.3	367.1	424.2	424.2	401.7	361.9	391.3	424.2	412.1	342.8	323.8
65°	238.9	282.2	325.5	344.6	325.5	297.8	320.3	344.6	325.5	268.4	240.7
67.5°	154.1	183.5	209.5	225.1	228.5	225.1	235.5	228.5	206.0	167.9	152.4
70°	93.5	109.1	122.9	136.8	147.2	152.4	157.6	142.0	119.5	98.7	93.5
72.5°	67.5	81.4	93.5	103.9	116.0	119.5	119.5	109.1	88.3	69.3	64.1
75°	46.7	58.9	69.3	76.2	86.6	90.0	90.0	81.4	65.8	50.2	45.0
77.5°	1.7	12.1	12.1	10.4	13.9	17.3	17.3	20.8	19.0	13.9	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°	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7
2.5°	1934.0	1996.3	2013.7	2077.7	2134.9	2192.0	2261.3	2302.8	2365.1	2408.4	2432.7
5°	1743.6	1795.5	1857.8	1953.1	2051.7	2160.8	2292.4	2406.7	2550.4	2656.0	2690.6
7.5°	1605.0	1672.6	1745.3	1864.8	1999.8	2145.2	2330.5	2517.5	2737.4	2881.1	2972.9
10°	1579.1	1648.3	1745.3	1863.0	2005.0	2171.2	2398.0	2640.4	2915.7	3090.6	3194.5
12.5°	1703.7	1778.2	1819.7	1873.4	1980.8	2166.0	2456.9	2765.1	3088.9	3279.3	3390.1
15°	1887.3	1953.1	1885.5	1818.0	1887.3	2110.6	2489.8	2869.0	3241.2	3461.1	3575.4
17.5°	2013.7	2018.9	1871.7	1728.0	1747.0	2010.2	2501.9	2972.9	3404.0	3634.3	3753.7
20°	2001.5	1960.0	1811.1	1651.8	1592.9	1880.3	2488.1	3064.6	3568.5	3809.2	3926.9
22.5°	1908.0	1859.6	1733.2	1577.3	1463.1	1726.2	2463.8	3147.7	3719.1	3992.7	4103.5
25°	1795.5	1743.6	1639.7	1502.9	1380.0	1577.3	2444.8	3262.0	3909.6	4231.6	4318.2
27.5°	1663.9	1618.9	1530.6	1431.9	1345.3	1464.8	2439.6	3412.7	4139.9	4522.5	4583.1
30°	1535.8	1494.2	1425.0	1367.8	1331.5	1399.0	2422.3	3573.7	4415.2	4856.7	4922.5
32.5°	1412.8	1371.3	1328.0	1319.4	1321.1	1374.8	2363.4	3733.0	4742.4	5341.5	5390.0
35°	1307.2	1258.8	1241.4	1262.2	1300.3	1333.2	2197.2	3864.6	5093.9	5869.6	5909.4
37.5°	1206.8	1158.3	1156.6	1206.8	1248.4	1269.1	2001.5	3994.4	5568.3	6406.3	6456.5
40°	1115.0	1066.6	1083.9	1144.5	1177.4	1187.8	1764.3	4191.8	6070.4	6972.5	6944.8
42.5°	1037.1	986.9	997.3	1075.2	1104.7	1132.4	1546.2	4356.3	6553.5	7509.2	7500.6
45°	960.9	922.9	915.9	1000.8	1026.7	1137.6	1386.9	4482.7	7175.1	8193.1	8207.0
47.5°	886.5	857.1	858.8	895.2	959.2	1163.5	1251.8	4565.8	8077.1	9277.0	9036.4
50°	819.0	796.5	815.5	774.0	915.9	1130.6	1135.8	4548.5	9084.8	10315.9	9832.8
52.5°	744.5	739.3	748.0	647.6	846.7	997.3	1026.7	4318.2	9557.5	11025.8	10750.5
55°	668.3	666.6	597.3	517.7	708.2	796.5	879.6	3603.1	9541.9	11403.2	11737.4
57.5°	578.3	564.4	453.6	422.5	550.6	554.1	801.7	2359.9	8456.3	10499.4	11192.0
60°	438.1	427.7	332.4	342.8	384.4	354.9	638.9	1175.6	6319.7	8179.3	8960.2
62.5°	303.0	289.1	247.6	264.9	247.6	202.6	391.3	581.8	3828.2	5164.9	5873.0
65°	221.6	206.0	169.7	145.4	116.0	116.0	148.9	223.4	1482.1	2195.5	2647.4
67.5°	136.8	129.9	100.4	72.7	71.0	76.2	77.9	110.8	238.9	380.9	465.8
70°	88.3	81.4	67.5	46.7	43.3	45.0	46.7	51.9	60.6	65.8	79.6
72.5°	60.6	57.1	48.5	26.0	20.8	22.5	24.2	24.2	29.4	27.7	32.9
75°	43.3	39.8	34.6	12.1	6.9	8.7	10.4	8.7	10.4	6.9	8.7
77.5°	12.1	12.1	8.7	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: P637709

CATALOG NUMBER: GWS-SA4D-735-U-SLL-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7
2.5°	2495.0	2534.8	2550.4	2527.9	2546.9	2515.8	2503.7	2456.9	2453.4	2444.8
5°	2830.9	2920.9	2974.6	3007.5	2969.4	2927.9	2865.5	2758.2	2725.3	2704.5
7.5°	3161.6	3301.8	3393.6	3436.9	3426.5	3341.7	3229.1	3049.1	2985.0	2953.8
10°	3449.0	3620.4	3731.2	3784.9	3762.4	3688.0	3526.9	3301.8	3217.0	3198.0
12.5°	3649.9	3807.4	3883.6	3930.4	3932.1	3902.7	3750.3	3523.5	3423.0	3398.8
15°	3776.3	3843.8	3845.5	3873.2	3921.7	3987.5	3916.5	3715.7	3608.3	3571.9
17.5°	3855.9	3781.5	3705.3	3712.2	3791.8	3966.7	4039.4	3885.3	3771.1	3731.2
20°	3913.0	3677.6	3535.6	3537.3	3618.7	3883.6	4124.3	4049.8	3932.1	3895.7
22.5°	3949.4	3585.8	3383.2	3378.0	3464.6	3784.9	4202.2	4245.5	4129.5	4087.9
25°	4023.9	3542.5	3291.5	3320.9	3397.1	3753.7	4307.8	4505.2	4397.8	4342.4
27.5°	4157.2	3585.8	3282.8	3350.3	3436.9	3845.5	4491.3	4851.5	4740.7	4678.3
30°	4387.5	3748.6	3416.1	3509.6	3613.5	4086.2	4799.5	5334.5	5175.3	5116.4
32.5°	4758.0	4086.2	3828.2	4029.0	4129.5	4480.9	5261.8	5876.5	5746.6	5628.9
35°	5268.8	4856.7	4827.2	5294.7	5270.5	5228.9	5829.7	6541.4	6345.7	6231.4
37.5°	5971.7	6096.4	6314.5	6778.6	6763.0	6446.1	6576.0	7169.9	7069.4	6922.3
40°	6849.6	7114.5	7485.0	8149.9	7942.1	7543.9	7491.9	7814.0	7732.6	7559.4
42.5°	7367.2	7824.3	8530.8	9128.1	8961.9	8265.9	8207.0	8674.5	8496.1	8307.4
45°	7607.9	8402.6	9787.8	10596.4	10092.5	8745.5	8723.0	9796.4	9696.0	9443.2
47.5°	7718.7	8986.1	11259.5	12483.6	11541.7	9166.2	9084.8	11424.0	11292.4	10994.6
50°	7841.7	9791.3	13032.5	14670.4	13292.2	9642.4	9701.2	12940.7	12885.3	12533.8
52.5°	8111.8	10643.1	15215.8	17170.6	15415.0	10388.6	10759.1	14370.9	13996.9	13591.8
55°	8516.9	11571.2	17487.5	19724.5	17581.0	11391.1	11903.6	15131.0	14081.7	13633.3
57.5°	8068.5	11803.2	18832.8	21507.9	18541.9	11394.6	10935.7	13813.4	12384.9	11950.4
60°	6402.8	10980.8	18315.1	21121.8	17723.0	10118.5	8373.2	10785.1	9382.6	9091.8
62.5°	4328.6	9209.5	16123.1	17863.2	15169.1	7959.4	5441.9	7014.0	5809.0	5568.3
65°	2372.1	6870.3	13027.3	13513.8	11872.4	5559.6	2799.7	3043.9	2318.4	2211.0
67.5°	654.5	4782.2	9585.2	8965.4	8329.9	3620.4	723.7	543.7	387.8	384.4
70°	164.5	3163.3	5743.2	5919.8	5107.7	2318.4	138.5	65.8	51.9	50.2
72.5°	69.3	1360.9	2725.3	3132.2	2614.5	1073.5	50.2	19.0	15.6	12.1
75°	8.7	109.1	232.0	351.5	240.7	116.0	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)