

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: P635729

Luminaire Tested: GWS-SA3E-735-U-SLL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635729  
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-SA3E-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**

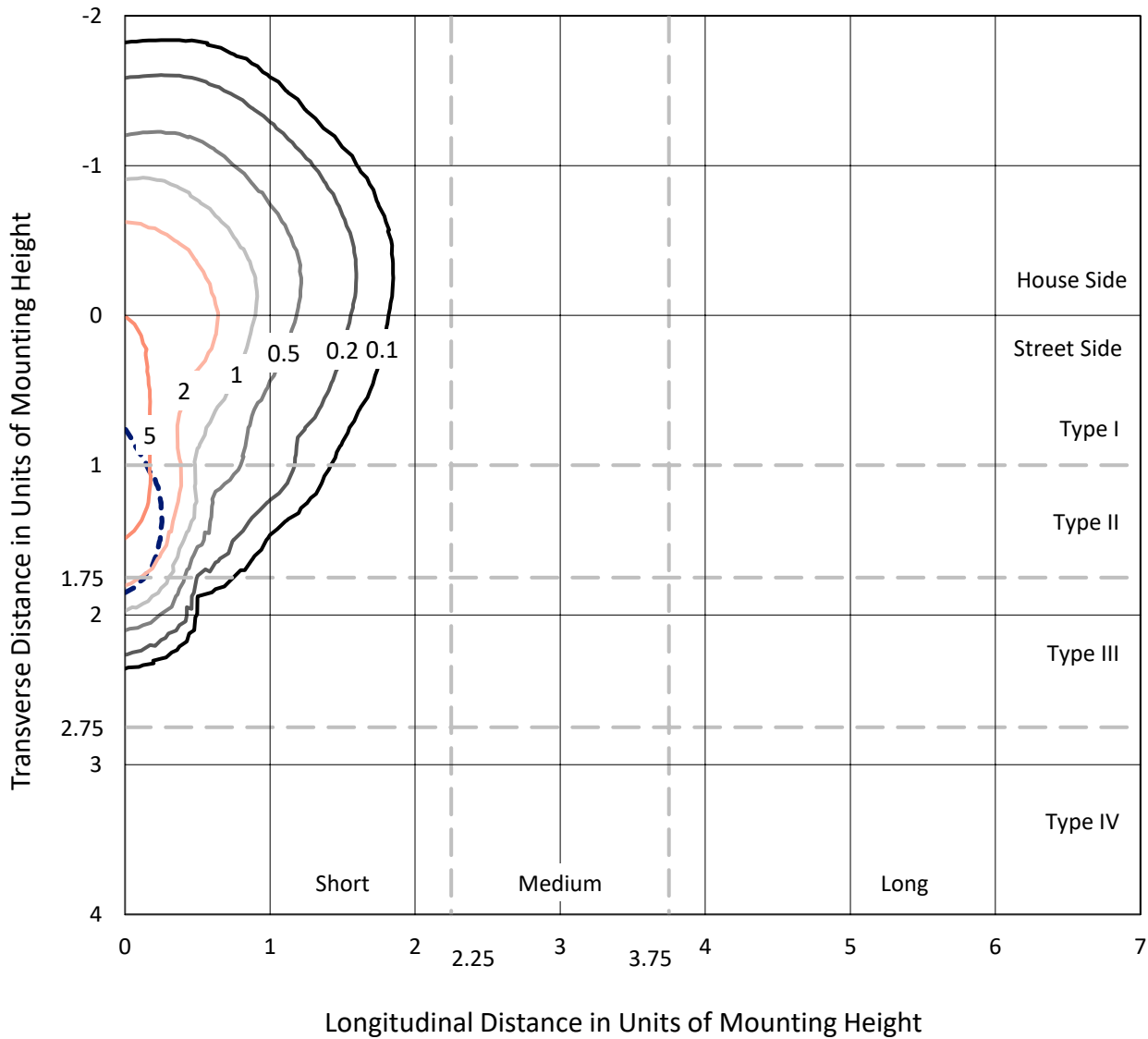
Lumens per Lamp: N/A  
Luminaire Lumens: 11630.7 lumens  
Efficiency: N/A  
Efficacy: 73.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 159.2  
Input Voltage (V): 120  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

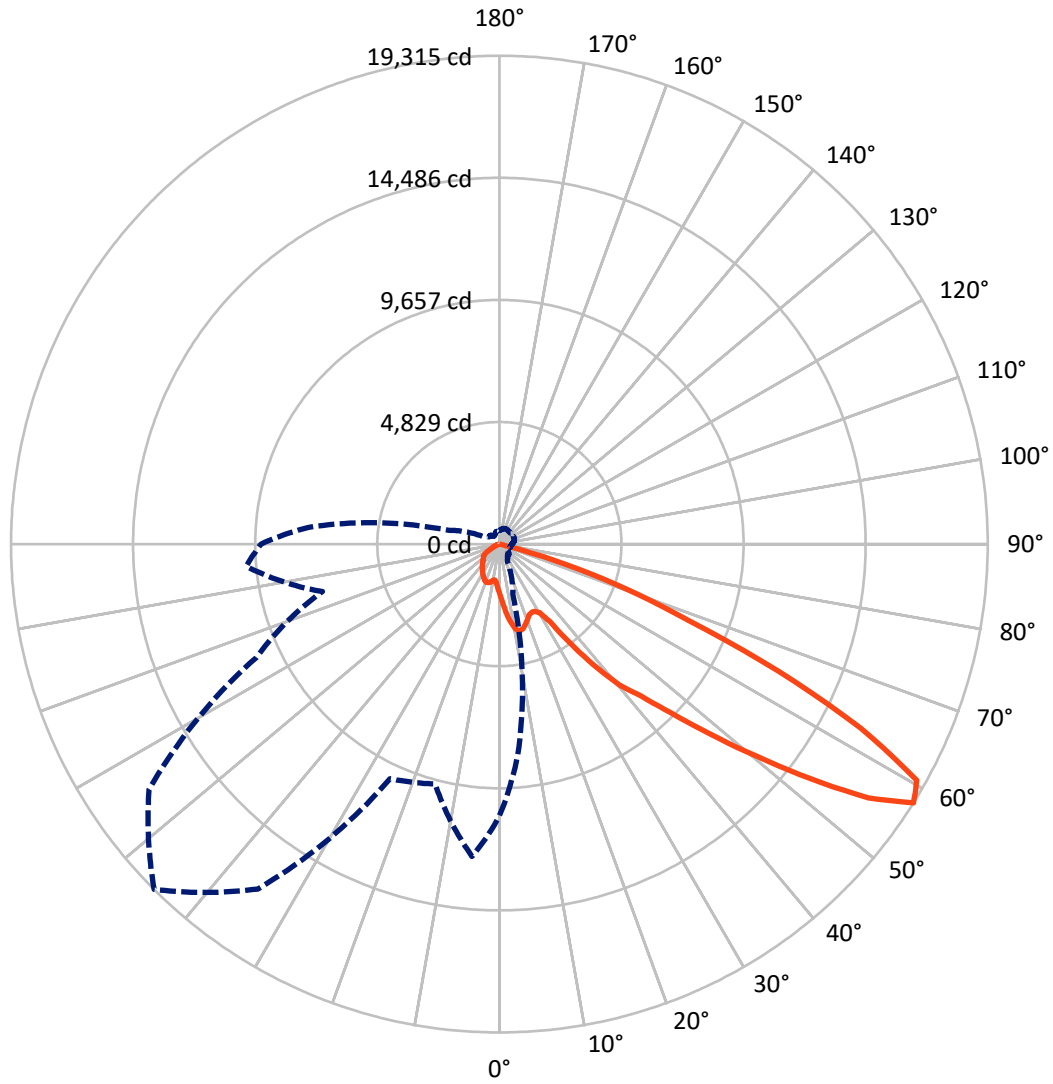
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.8 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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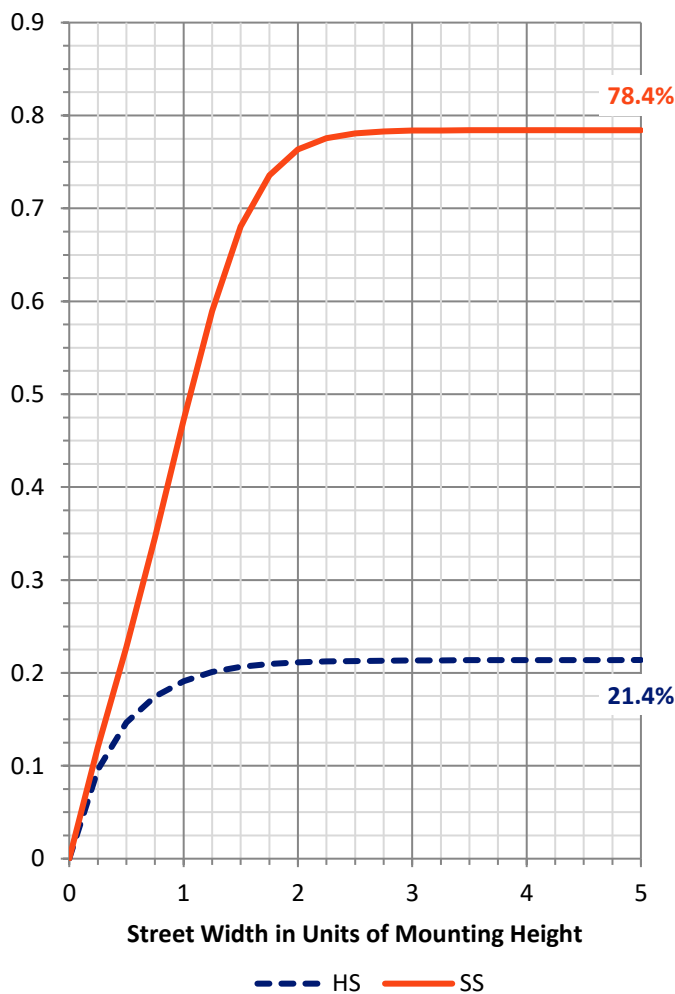
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2505.6	0.0	2505.6
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	9125.1	0.0	9125.1
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	11630.7	0.0	11630.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.3	1.7
10°-20°	642.7	5.5
20°-30°	1043.1	9.0
30°-40°	1600.9	13.8
40°-50°	2556.7	22.0
50°-60°	3579.8	30.8
60°-70°	1835.5	15.8
70°-80°	176.7	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°	11630.7	100.0
0°-180°	11630.7	100.0

**Coefficient of Utilization**



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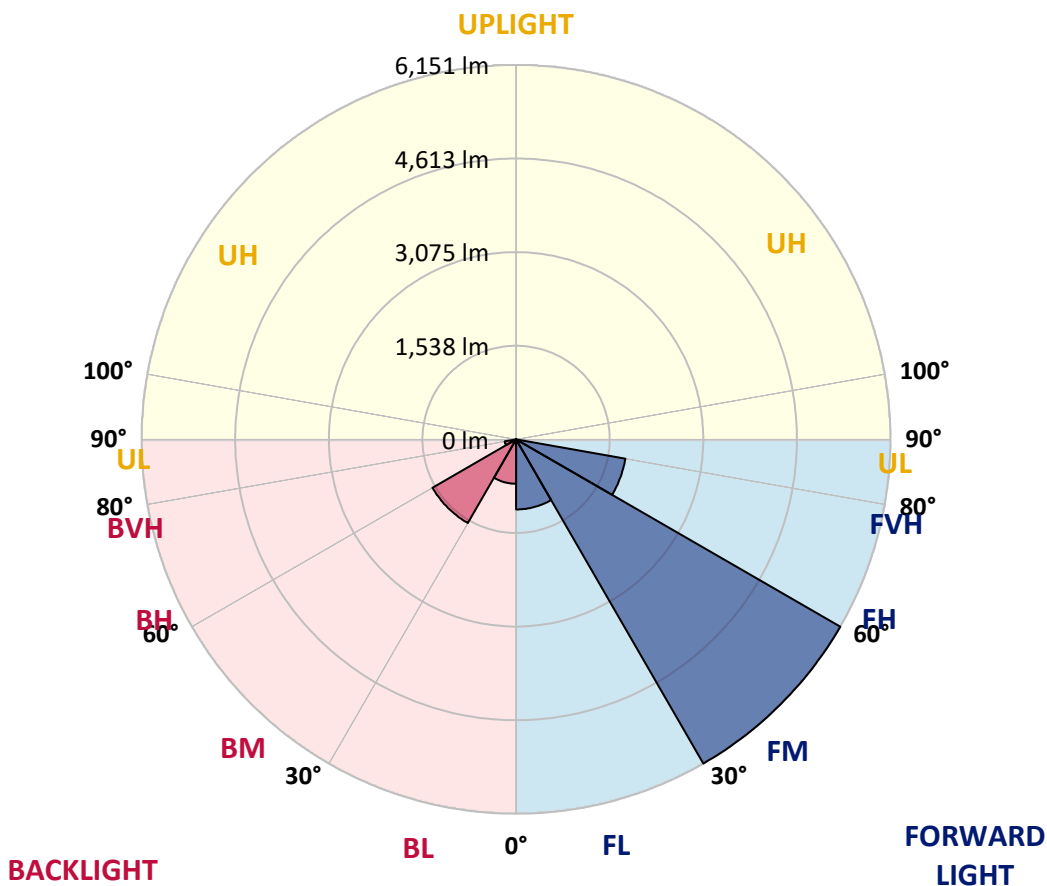
CATALOG NUMBER: GWS-SA3E-735-U-SLL-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1151.5	9.9			
FM (30°-60°)	6150.6	52.9			
FH (60°-80°)	1823.0	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	729.6	6.3	B2/1000		
BM (30°-60°)	1586.8	13.6	B2/2500		
BH (60°-80°)	189.2	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°	1976.2	1976.2	1976.2	1976.2	1976.2	1976.2	1976.2	1976.2	1976.2	1976.2	1976.2
2.5°	2195.5	2190.8	2175.3	2122.4	2089.7	2038.4	2001.1	1952.9	1900.0	1867.4	1834.7
5°	2428.7	2416.3	2374.3	2253.0	2159.7	2058.6	1977.8	1889.2	1794.3	1732.1	1674.6
7.5°	2652.6	2633.9	2578.0	2372.7	2231.2	2086.6	1971.6	1842.5	1708.8	1615.5	1544.0
10°	2871.8	2829.8	2741.2	2489.3	2298.1	2123.9	1988.7	1841.0	1683.9	1565.7	1486.4
12.5°	3052.2	3021.1	2899.8	2599.7	2354.1	2131.7	1965.3	1828.5	1722.8	1643.5	1570.4
15°	3207.7	3173.5	3058.4	2699.2	2402.3	2100.6	1867.4	1747.7	1764.8	1795.9	1733.7
17.5°	3350.7	3315.0	3190.6	2781.6	2420.9	2024.4	1730.6	1673.0	1767.9	1884.5	1861.2
20°	3498.4	3458.0	3305.6	2848.5	2414.7	1904.7	1592.2	1609.3	1743.0	1876.7	1889.2
22.5°	3671.0	3629.0	3451.8	2934.0	2410.0	1761.7	1472.5	1553.3	1696.4	1809.9	1831.6
25°	3899.6	3849.8	3655.5	3060.0	2422.5	1631.0	1386.9	1498.9	1617.1	1719.7	1732.1
27.5°	4201.2	4137.5	3890.3	3215.5	2448.9	1528.4	1349.6	1424.3	1516.0	1607.7	1618.6
30°	4594.6	4513.8	4159.3	3350.7	2436.5	1456.9	1324.7	1349.6	1404.0	1478.7	1480.2
32.5°	5054.9	4944.5	4460.9	3467.3	2329.2	1404.0	1290.5	1273.4	1285.9	1343.4	1354.3
35°	5595.9	5452.9	4793.6	3577.7	2133.3	1301.4	1228.3	1170.8	1166.1	1194.1	1220.6
37.5°	6216.3	6045.3	5213.4	3719.2	1901.6	1194.1	1136.6	1079.1	1054.2	1068.2	1108.6
40°	6788.5	6598.8	5651.9	3890.3	1665.3	1097.7	1029.3	970.2	940.7	945.4	995.1
42.5°	7460.2	7264.3	6188.3	4114.2	1469.3	1032.4	917.4	856.7	817.9	839.6	897.2
45°	8480.2	8257.9	6970.4	4308.5	1313.9	1016.9	819.4	733.9	715.2	752.6	821.0
47.5°	9873.4	9601.3	8044.9	4426.7	1181.7	1030.9	751.0	634.4	639.0	681.0	749.4
50°	11255.6	10961.8	9287.2	4271.2	1072.9	1002.9	716.8	556.6	586.2	623.5	685.7
52.5°	12205.7	11823.2	9892.0	3821.8	973.3	897.2	713.7	483.6	539.5	552.0	604.8
55°	12243.0	11771.9	9582.6	3013.3	838.1	757.2	681.0	422.9	488.2	492.9	538.0
57.5°	10731.7	10305.6	8374.5	2069.5	744.8	555.1	542.6	370.1	401.2	440.0	468.0
60°	8164.6	7802.3	6263.0	948.5	566.0	353.0	371.6	318.7	300.1	357.6	385.6
62.5°	5000.4	4768.8	3756.5	419.8	360.7	188.1	225.5	253.4	225.5	247.2	270.5
65°	1985.6	1882.9	1425.8	178.8	147.7	94.8	102.6	147.7	158.6	174.1	195.9
67.5°	345.2	326.5	239.4	79.3	60.6	57.5	49.8	68.4	96.4	107.3	124.4
70°	45.1	43.5	38.9	32.7	31.1	28.0	21.8	43.5	65.3	68.4	79.3
72.5°	10.9	9.3	9.3	7.8	9.3	3.1	3.1	23.3	46.6	48.2	56.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	29.5	32.7	38.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
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°	1976.2	1976.2	1976.2	1976.2	1976.2	1976.2	1976.2	1976.2	1976.2	1976.2	1976.2
2.5°	1808.3	1777.2	1766.3	1750.8	1730.6	1736.8	1708.8	1699.5	1713.5	1732.1	1727.5
5°	1643.5	1609.3	1586.0	1550.2	1544.0	1530.0	1520.7	1508.2	1523.8	1545.5	1550.2
7.5°	1512.9	1483.3	1460.0	1449.1	1441.4	1435.1	1416.5	1407.1	1407.1	1416.5	1424.3
10°	1456.9	1435.1	1430.5	1433.6	1446.0	1444.5	1427.4	1414.9	1399.4	1391.6	1400.9
12.5°	1534.6	1498.9	1492.7	1494.2	1509.8	1508.2	1489.6	1474.0	1470.9	1474.0	1503.6
15°	1666.8	1612.4	1572.0	1564.2	1572.0	1568.9	1554.9	1545.5	1550.2	1595.3	1645.0
17.5°	1785.0	1701.0	1627.9	1600.0	1598.4	1593.7	1579.7	1576.6	1600.0	1683.9	1757.0
20°	1819.2	1736.8	1632.6	1596.8	1589.1	1584.4	1568.9	1573.5	1603.1	1704.1	1766.3
22.5°	1774.1	1694.8	1586.0	1550.2	1544.0	1542.4	1526.9	1533.1	1558.0	1646.6	1697.9
25°	1688.6	1621.7	1508.2	1477.1	1477.1	1474.0	1460.0	1463.1	1478.7	1556.4	1606.2
27.5°	1584.4	1520.7	1425.8	1394.7	1399.4	1404.0	1386.9	1382.3	1394.7	1467.8	1497.3
30°	1464.7	1419.6	1345.0	1317.0	1315.4	1334.1	1310.7	1304.5	1321.6	1379.2	1385.4
32.5°	1348.1	1326.3	1273.4	1251.7	1253.2	1256.3	1243.9	1243.9	1259.4	1290.5	1289.0
35°	1234.6	1220.6	1211.2	1195.7	1194.1	1187.9	1187.9	1191.0	1208.1	1219.0	1198.8
37.5°	1125.7	1139.7	1150.6	1135.0	1122.6	1122.6	1122.6	1136.6	1152.2	1147.5	1113.3
40°	1029.3	1058.9	1093.1	1076.0	1046.4	1044.9	1051.1	1074.4	1097.7	1069.7	1038.6
42.5°	946.9	984.2	1032.4	1023.1	990.4	985.8	990.4	1020.0	1038.6	1002.9	968.7
45°	866.1	912.7	970.2	970.2	934.5	929.8	931.4	970.2	981.1	939.1	895.6
47.5°	797.6	849.0	909.6	909.6	880.1	870.7	878.5	918.9	926.7	867.6	827.2
50°	732.3	788.3	855.2	850.5	830.3	822.5	836.5	880.1	870.7	805.4	763.4
52.5°	649.9	709.0	800.8	805.4	794.5	796.1	813.2	841.2	814.7	735.4	699.7
55°	575.3	635.9	727.7	752.6	752.6	751.0	758.8	780.5	758.8	663.9	620.4
57.5°	494.4	545.8	621.9	628.2	632.8	615.7	626.6	656.2	645.3	564.4	539.5
60°	405.8	449.4	492.9	497.6	477.3	441.6	461.8	496.0	503.8	443.1	415.1
62.5°	287.6	329.6	380.9	380.9	360.7	325.0	351.4	380.9	370.1	307.9	290.8
65°	214.6	253.4	292.3	309.4	292.3	267.4	287.6	309.4	292.3	241.0	216.1
67.5°	138.4	164.8	188.1	202.1	205.2	202.1	211.5	205.2	185.0	150.8	136.8
70°	84.0	98.0	110.4	122.8	132.2	136.8	141.5	127.5	107.3	88.6	84.0
72.5°	60.6	73.1	84.0	93.3	104.2	107.3	107.3	98.0	79.3	62.2	57.5
75°	42.0	52.9	62.2	68.4	77.7	80.9	80.9	73.1	59.1	45.1	40.4
77.5°	1.6	10.9	10.9	9.3	12.4	15.5	15.5	18.7	17.1	12.4	10.9
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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CATALOG NUMBER: GWS-SA3E-735-U-SLL-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1976.2	1976.2	1976.2	1976.2	1976.2	1976.2	1976.2	1976.2	1976.2	1976.2	1976.2
2.5°	1736.8	1792.8	1808.3	1865.8	1917.1	1968.5	2030.6	2068.0	2123.9	2162.8	2184.6
5°	1565.7	1612.4	1668.4	1753.9	1842.5	1940.5	2058.6	2161.3	2290.3	2385.2	2416.3
7.5°	1441.4	1502.0	1567.3	1674.6	1795.9	1926.5	2092.8	2260.8	2458.2	2587.3	2669.7
10°	1418.0	1480.2	1567.3	1673.0	1800.5	1949.8	2153.5	2371.2	2618.4	2775.4	2868.7
12.5°	1530.0	1596.8	1634.2	1682.4	1778.8	1945.1	2206.3	2483.1	2773.9	2944.9	3044.4
15°	1694.8	1753.9	1693.2	1632.6	1694.8	1895.4	2235.9	2576.4	2910.7	3108.2	3210.8
17.5°	1808.3	1813.0	1680.8	1551.8	1568.9	1805.2	2246.8	2669.7	3056.9	3263.7	3370.9
20°	1797.4	1760.1	1626.4	1483.3	1430.5	1688.6	2234.3	2752.1	3204.6	3420.7	3526.4
22.5°	1713.5	1669.9	1556.4	1416.5	1313.9	1550.2	2212.6	2826.7	3339.8	3585.5	3685.0
25°	1612.4	1565.7	1472.5	1349.6	1239.2	1416.5	2195.5	2929.4	3510.9	3800.1	3877.8
27.5°	1494.2	1453.8	1374.5	1285.9	1208.1	1315.4	2190.8	3064.6	3717.7	4061.3	4115.7
30°	1379.2	1341.8	1279.7	1228.3	1195.7	1256.3	2175.3	3209.2	3964.9	4361.4	4420.5
32.5°	1268.8	1231.4	1192.6	1184.8	1186.4	1234.6	2122.4	3352.3	4258.8	4796.7	4840.3
35°	1173.9	1130.4	1114.8	1133.5	1167.7	1197.2	1973.1	3470.4	4574.4	5271.0	5306.7
37.5°	1083.7	1040.2	1038.6	1083.7	1121.1	1139.7	1797.4	3587.1	5000.4	5753.0	5798.1
40°	1001.3	957.8	973.3	1027.8	1057.3	1066.6	1584.4	3764.3	5451.3	6261.4	6236.5
42.5°	931.4	886.3	895.6	965.6	992.0	1016.9	1388.5	3912.0	5885.1	6743.4	6735.7
45°	862.9	828.7	822.5	898.7	922.0	1021.5	1245.4	4025.5	6443.3	7357.6	7370.0
47.5°	796.1	769.7	771.2	803.9	861.4	1044.9	1124.2	4100.2	7253.4	8330.9	8114.8
50°	735.4	715.2	732.3	695.0	822.5	1015.3	1020.0	4084.6	8158.4	9263.9	8830.1
52.5°	668.6	663.9	671.7	581.5	760.3	895.6	922.0	3877.8	8582.8	9901.4	9654.1
55°	600.2	598.6	536.4	464.9	635.9	715.2	789.9	3235.7	8568.8	10240.3	10540.4
57.5°	519.3	506.9	407.4	379.4	494.4	497.6	719.9	2119.3	7593.9	9428.7	10050.6
60°	393.4	384.1	298.5	307.9	345.2	318.7	573.7	1055.8	5675.2	7345.2	8046.4
62.5°	272.1	259.7	222.3	237.9	222.3	181.9	351.4	522.4	3437.8	4638.2	5274.1
65°	199.0	185.0	152.4	130.6	104.2	104.2	133.7	200.6	1331.0	1971.6	2377.4
67.5°	122.8	116.6	90.2	65.3	63.7	68.4	70.0	99.5	214.6	342.1	418.3
70°	79.3	73.1	60.6	42.0	38.9	40.4	42.0	46.6	54.4	59.1	71.5
72.5°	54.4	51.3	43.5	23.3	18.7	20.2	21.8	21.8	26.4	24.9	29.5
75°	38.9	35.8	31.1	10.9	6.2	7.8	9.3	7.8	9.3	6.2	7.8
77.5°	10.9	10.9	7.8	1.6	0.0	1.6	3.1	3.1	1.6	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	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: P635729

CATALOG NUMBER: GWS-SA3E-735-U-SLL-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1976.2	1976.2	1976.2	1976.2	1976.2	1976.2	1976.2	1976.2	1976.2	1976.2
2.5°	2240.6	2276.3	2290.3	2270.1	2287.2	2259.2	2248.3	2206.3	2203.2	2195.5
5°	2542.2	2623.1	2671.3	2700.8	2666.6	2629.3	2573.3	2476.9	2447.4	2428.7
7.5°	2839.2	2965.1	3047.5	3086.4	3077.1	3000.9	2899.8	2738.1	2680.6	2652.6
10°	3097.3	3251.2	3350.7	3398.9	3378.7	3311.9	3167.3	2965.1	2888.9	2871.8
12.5°	3277.6	3419.1	3487.6	3529.5	3531.1	3504.7	3367.8	3164.1	3074.0	3052.2
15°	3391.2	3451.8	3453.3	3478.2	3521.8	3580.8	3517.1	3336.7	3240.3	3207.7
17.5°	3462.7	3395.8	3327.4	3333.6	3405.1	3562.2	3627.5	3489.1	3386.5	3350.7
20°	3514.0	3302.5	3175.0	3176.6	3249.7	3487.6	3703.7	3636.8	3531.1	3498.4
22.5°	3546.6	3220.1	3038.2	3033.5	3111.3	3398.9	3773.6	3812.5	3708.3	3671.0
25°	3613.5	3181.2	2955.8	2982.2	3050.6	3370.9	3868.5	4045.7	3949.3	3899.6
27.5°	3733.2	3220.1	2948.0	3008.7	3086.4	3453.3	4033.3	4356.7	4257.2	4201.2
30°	3940.0	3366.3	3067.7	3151.7	3245.0	3669.5	4310.1	4790.5	4647.5	4594.6
32.5°	4272.8	3669.5	3437.8	3618.2	3708.3	4024.0	4725.2	5277.2	5160.6	5054.9
35°	4731.4	4361.4	4335.0	4754.8	4733.0	4695.7	5235.2	5874.3	5698.6	5595.9
37.5°	5362.7	5474.7	5670.6	6087.3	6073.3	5788.7	5905.4	6438.7	6348.5	6216.3
40°	6151.0	6388.9	6721.7	7318.7	7132.1	6774.5	6727.9	7017.1	6944.0	6788.5
42.5°	6615.9	7026.4	7660.8	8197.2	8048.0	7422.9	7370.0	7789.9	7629.7	7460.2
45°	6832.1	7545.7	8789.6	9515.7	9063.3	7853.6	7833.4	8797.4	8707.2	8480.2
47.5°	6931.6	8069.7	10111.3	11210.5	10364.7	8231.4	8158.4	10259.0	10140.8	9873.4
50°	7042.0	8792.7	11703.4	13174.3	11936.7	8659.0	8711.9	11621.0	11571.3	11255.6
52.5°	7284.5	9557.7	13664.1	15419.6	13842.9	9329.2	9661.9	12905.3	12569.5	12205.7
55°	7648.4	10391.1	15704.1	17713.0	15788.1	10229.4	10689.7	13587.9	12645.7	12243.0
57.5°	7245.7	10599.5	16912.2	19314.5	16651.0	10232.5	9820.5	12404.7	11121.9	10731.7
60°	5749.9	9860.9	16447.3	18967.7	15915.6	9086.6	7519.3	9685.2	8425.8	8164.6
62.5°	3887.2	8270.3	14478.9	16041.5	13622.1	7147.7	4886.9	6298.7	5216.6	5000.4
65°	2130.2	6169.7	11698.8	12135.7	10661.7	4992.7	2514.2	2733.4	2082.0	1985.6
67.5°	587.7	4294.5	8607.7	8051.1	7480.4	3251.2	649.9	488.2	348.3	345.2
70°	147.7	2840.7	5157.5	5316.1	4586.8	2082.0	124.4	59.1	46.6	45.1
72.5°	62.2	1222.1	2447.4	2812.7	2347.8	964.0	45.1	17.1	14.0	10.9
75°	7.8	98.0	208.4	315.6	216.1	104.2	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)