

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: P635015

Luminaire Tested: GWS-SA3C-830-U-SLL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635015  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-39)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3C-830-U-SLL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

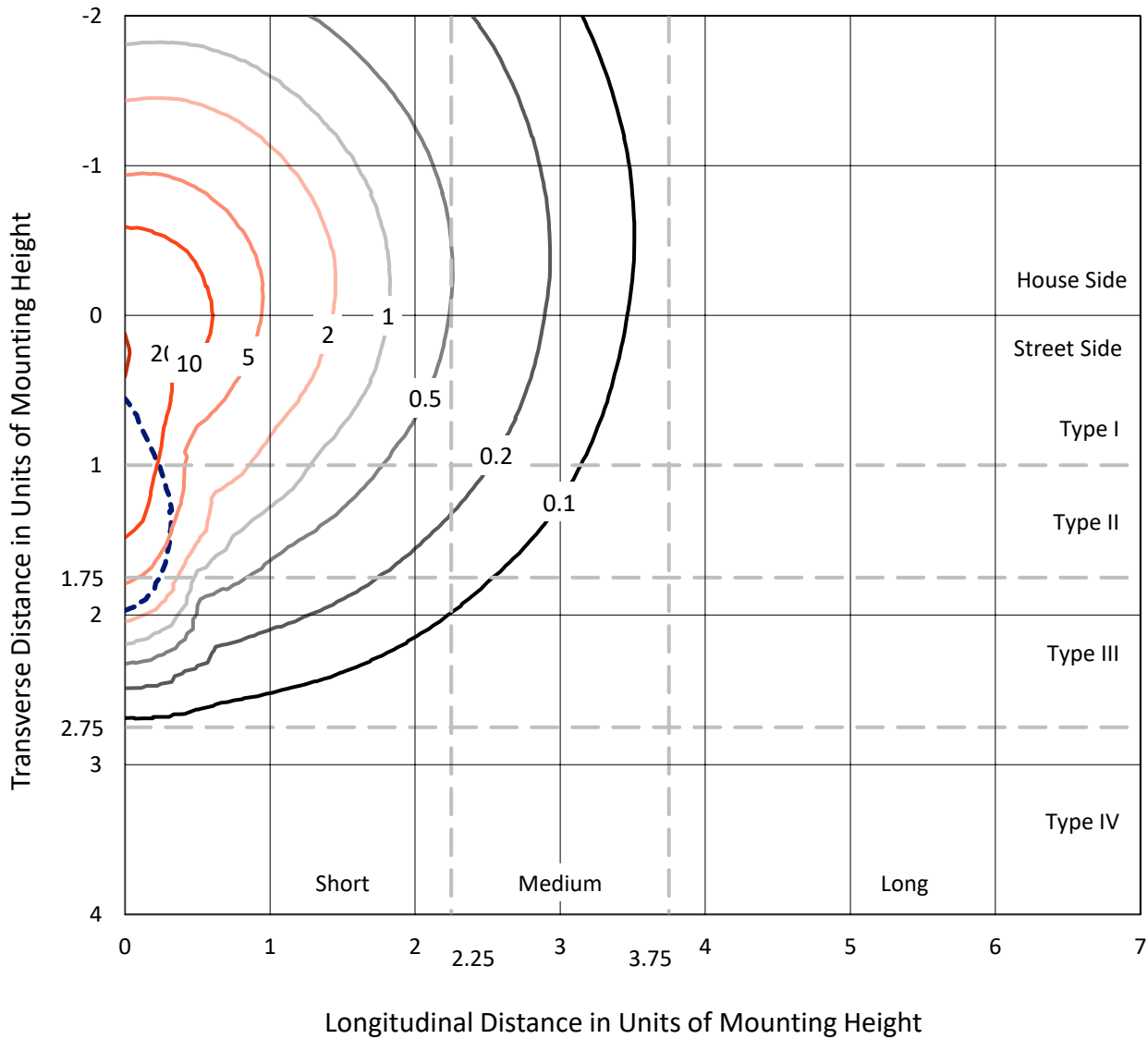
Lumens per Lamp: N/A  
Luminaire Lumens: 8625.5 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 93  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

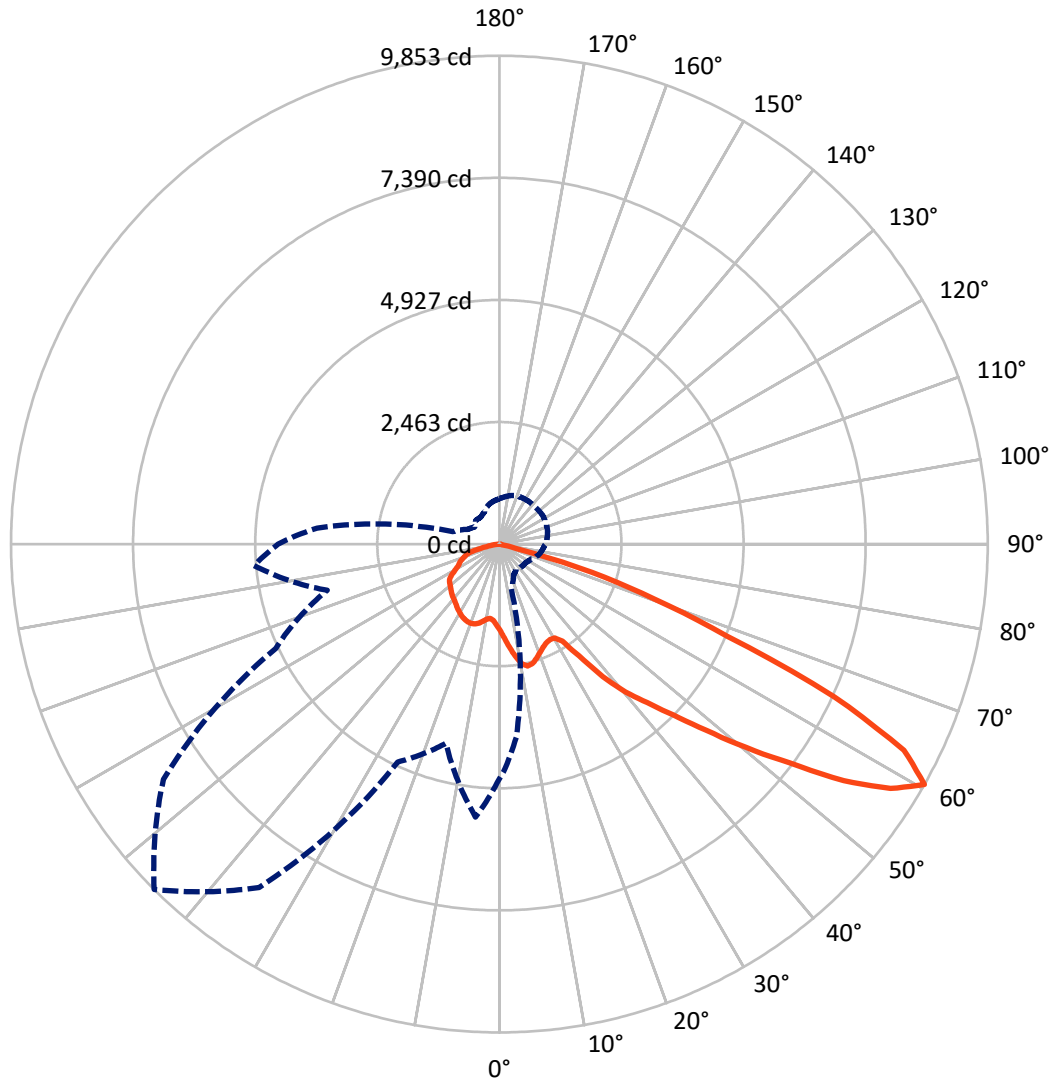
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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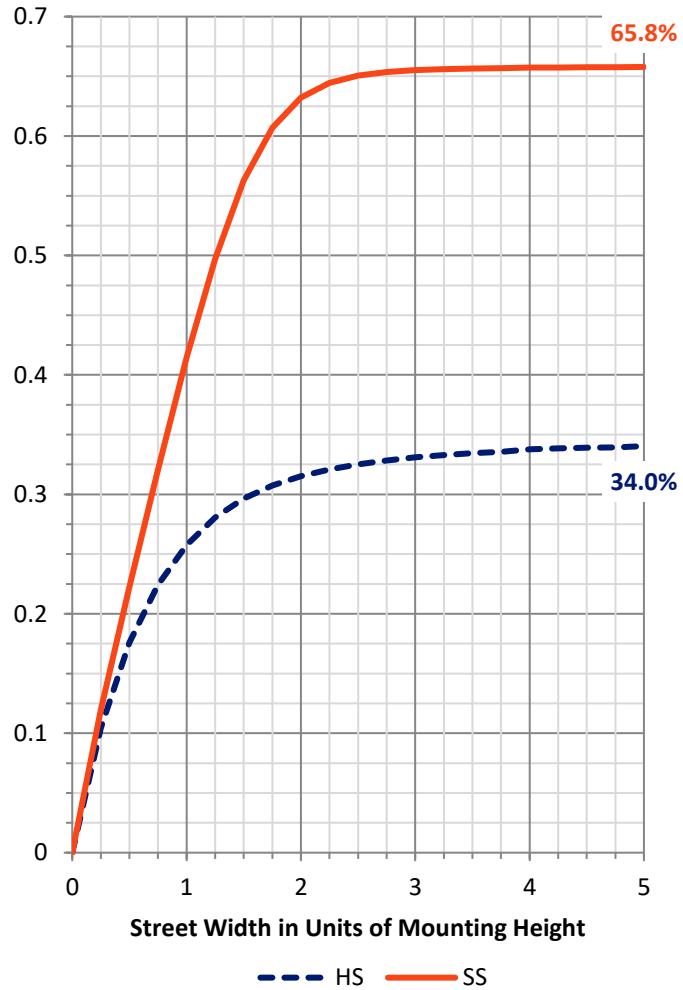
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2950.7	0.0	2950.7
	% Fixture	34.2	0.0	34.2
<b>Street Side</b>	Lumens	5674.8	0.0	5674.8
	% Fixture	65.8	0.0	65.8
<b>Total</b>	Lumens	8625.5	0.0	8625.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.0	2.0
10°-20°	545.2	6.3
20°-30°	887.8	10.3
30°-40°	1247.2	14.5
40°-50°	1706.7	19.8
50°-60°	2189.6	25.4
60°-70°	1474.4	17.1
70°-80°	368.6	4.3
80°-90°	35.9	0.4
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°	8625.5	100.0
0°-180°	8625.5	100.0

**Coefficient of Utilization**



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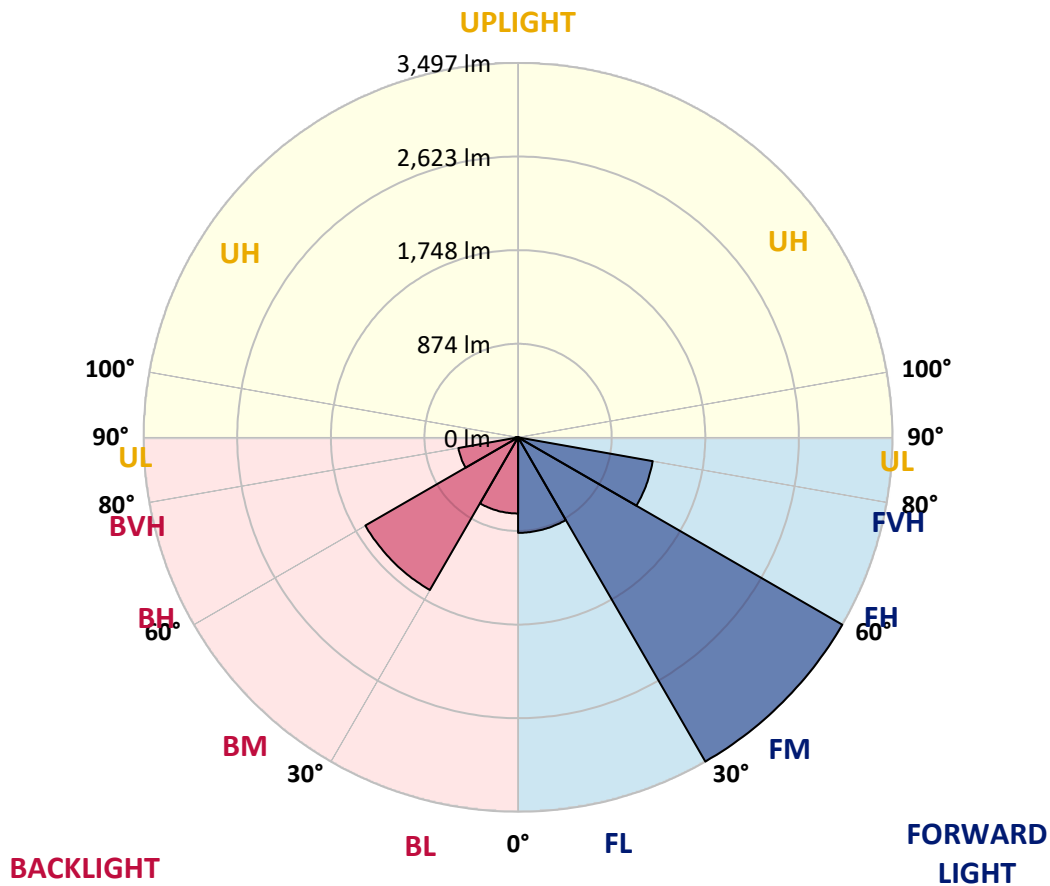
CATALOG NUMBER: GWS-SA3C-830-U-SLL-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	891.7	10.3			
FM (30°-60°)	3496.9	40.5			
FH (60°-80°)	1276.9	14.8			G1/1800
FVH (80°-90°)	9.3	0.1			G0/10
BL (0°-30°)	711.3	8.2	B2/1000		
BM (30°-60°)	1646.7	19.1	B2/2500		
BH (60°-80°)	566.1	6.6	B2/1000		G2/1000
BVH (80°-90°)	26.6	0.3			G1/100
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°	1739.7	1739.7	1739.7	1739.7	1739.7	1739.7	1739.7	1739.7	1739.7	1739.7	1739.7
2.5°	1840.6	1836.6	1832.6	1801.6	1793.7	1771.4	1755.6	1735.7	1707.1	1691.2	1677.7
5°	1955.7	1949.4	1927.9	1864.4	1823.1	1777.8	1740.5	1699.2	1655.5	1626.9	1604.6
7.5°	2064.6	2063.0	2026.4	1921.6	1854.9	1789.7	1738.9	1678.5	1615.7	1572.9	1544.3
10°	2165.5	2153.5	2109.8	1973.2	1885.8	1811.2	1756.4	1689.6	1616.5	1558.6	1520.4
12.5°	2254.4	2239.3	2179.0	2020.9	1912.8	1820.7	1761.1	1706.3	1657.9	1609.4	1565.7
15°	2327.5	2309.2	2248.1	2065.4	1936.7	1815.1	1731.7	1688.8	1705.5	1727.0	1678.5
17.5°	2395.8	2376.8	2302.1	2097.9	1943.8	1781.0	1659.4	1641.2	1725.4	1823.1	1800.8
20°	2453.0	2431.6	2345.0	2113.8	1931.1	1715.8	1565.7	1597.5	1708.7	1825.5	1861.2
22.5°	2515.0	2497.5	2393.4	2136.9	1915.2	1626.1	1487.1	1564.9	1680.1	1782.6	1836.6
25°	2614.3	2592.8	2468.9	2177.4	1907.3	1541.9	1430.7	1533.1	1640.4	1733.3	1775.4
27.5°	2758.1	2718.3	2572.2	2248.1	1916.0	1462.4	1394.9	1494.2	1594.3	1673.7	1707.9
30°	2914.5	2866.9	2686.6	2321.2	1928.7	1414.0	1375.8	1449.7	1523.6	1603.0	1640.4
32.5°	3099.6	3057.5	2808.9	2376.0	1901.7	1391.7	1361.6	1401.3	1460.1	1523.6	1554.6
35°	3320.5	3245.0	2942.3	2420.4	1814.3	1359.2	1348.8	1348.0	1379.0	1441.0	1475.9
37.5°	3558.0	3477.0	3106.8	2468.1	1678.5	1307.5	1318.7	1285.3	1313.9	1363.1	1402.9
40°	3752.6	3667.6	3272.8	2533.2	1508.5	1226.5	1251.9	1216.2	1233.7	1284.5	1329.0
42.5°	3943.3	3852.7	3427.7	2607.1	1344.1	1147.1	1159.8	1146.3	1151.8	1205.1	1267.0
45°	4193.5	4091.8	3618.4	2659.6	1196.3	1084.3	1072.4	1049.4	1078.8	1147.9	1213.8
47.5°	4611.3	4489.8	3930.5	2693.7	1089.1	1048.6	993.8	980.3	1016.8	1093.8	1162.2
50°	5099.9	4995.0	4429.4	2692.1	1008.9	1018.4	917.5	905.6	966.0	1043.8	1116.1
52.5°	5500.2	5393.8	4856.0	2612.7	942.9	954.0	873.0	839.6	922.3	994.6	1066.8
55°	5823.5	5703.6	5052.2	2280.6	859.5	851.6	824.6	763.4	867.5	945.3	1012.8
57.5°	5649.6	5506.6	4814.7	1734.1	773.7	723.7	741.1	695.9	792.8	890.5	955.6
60°	4736.8	4608.1	3911.5	923.1	680.8	604.5	641.1	648.2	711.0	824.6	891.3
62.5°	3253.7	3160.0	2650.8	560.0	537.0	485.4	542.6	594.2	641.1	737.2	795.2
65°	1591.9	1564.1	1325.8	359.1	375.7	392.4	449.6	512.4	581.5	665.7	726.8
67.5°	438.5	441.7	402.0	280.4	296.3	342.4	387.7	437.7	506.8	584.7	646.6
70°	193.0	196.2	202.6	216.1	246.3	288.4	335.2	386.9	450.4	515.5	575.1
72.5°	134.2	137.4	147.0	164.4	191.4	231.2	275.6	324.9	390.8	445.6	494.9
75°	82.6	85.0	93.7	108.8	127.1	157.3	201.0	246.3	304.2	354.3	398.0
77.5°	43.7	42.1	47.7	58.0	73.9	89.8	119.2	147.8	189.1	229.6	266.1
80°	23.8	23.0	26.2	31.8	36.5	49.3	69.1	88.2	112.0	135.0	154.9
82.5°	10.3	9.5	10.3	13.5	16.7	23.8	35.0	48.5	62.0	77.8	90.6
85°	0.0	0.0	0.0	0.8	4.0	6.4	11.9	17.5	25.4	35.0	42.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	7.1
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°	1739.7	1739.7	1739.7	1739.7	1739.7	1739.7	1739.7	1739.7	1739.7	1739.7	1739.7
2.5°	1669.8	1649.9	1648.3	1632.4	1634.0	1634.8	1618.9	1612.6	1618.1	1624.5	1621.3
5°	1596.7	1576.0	1567.3	1552.2	1550.6	1543.5	1537.1	1529.2	1534.7	1540.3	1543.5
7.5°	1533.1	1519.6	1514.1	1510.1	1511.7	1508.5	1495.8	1488.7	1487.9	1490.2	1493.4
10°	1512.5	1501.4	1508.5	1519.6	1527.6	1533.1	1519.6	1507.7	1496.6	1491.8	1491.8
12.5°	1557.0	1542.7	1557.0	1568.9	1584.8	1588.7	1573.6	1560.9	1557.0	1561.7	1571.3
15°	1655.5	1622.1	1621.3	1628.5	1641.2	1647.5	1633.2	1626.9	1626.9	1657.1	1680.9
17.5°	1754.0	1699.2	1676.1	1672.2	1680.1	1682.5	1670.6	1665.0	1679.3	1738.1	1782.6
20°	1823.1	1756.4	1706.3	1696.8	1699.2	1700.0	1690.4	1686.4	1707.1	1778.6	1815.9
22.5°	1815.9	1766.7	1705.5	1693.6	1697.6	1696.0	1687.2	1685.7	1702.3	1764.3	1781.8
25°	1766.7	1728.6	1676.9	1669.0	1675.3	1674.5	1665.8	1661.8	1669.0	1710.3	1711.9
27.5°	1710.3	1676.9	1632.4	1630.0	1640.4	1645.9	1630.8	1618.9	1616.5	1644.3	1638.0
30°	1642.8	1618.1	1582.4	1584.0	1603.0	1606.2	1587.9	1570.5	1565.7	1580.8	1572.1
32.5°	1562.5	1554.6	1535.5	1539.5	1557.8	1564.1	1545.1	1526.8	1521.2	1526.0	1507.7
35°	1494.2	1491.0	1492.6	1499.8	1515.7	1520.4	1504.5	1490.2	1482.3	1465.6	1441.8
37.5°	1423.5	1432.3	1455.3	1468.8	1477.5	1475.9	1467.2	1456.9	1444.2	1413.2	1383.8
40°	1357.6	1379.8	1421.1	1436.2	1439.4	1440.2	1433.8	1425.1	1409.2	1367.9	1334.5
42.5°	1306.7	1331.4	1386.2	1409.2	1410.8	1412.4	1406.0	1398.9	1376.6	1321.8	1289.3
45°	1253.5	1286.1	1350.4	1378.2	1376.6	1375.8	1370.3	1367.1	1340.9	1277.3	1241.6
47.5°	1208.2	1246.4	1315.5	1339.3	1338.5	1337.7	1333.7	1333.7	1307.5	1238.4	1197.9
50°	1163.8	1207.4	1279.7	1299.6	1301.2	1299.6	1298.0	1300.4	1269.4	1195.5	1155.8
52.5°	1115.3	1164.5	1240.0	1258.3	1267.8	1271.8	1271.8	1266.2	1229.7	1152.6	1108.9
55°	1062.1	1108.9	1196.3	1220.9	1228.9	1236.0	1236.0	1224.9	1190.8	1112.9	1066.0
57.5°	996.1	1037.4	1106.6	1131.2	1150.2	1155.0	1155.0	1136.7	1108.9	1034.3	996.1
60°	924.6	960.4	1007.3	1033.5	1047.8	1038.2	1045.4	1040.6	1018.4	949.3	917.5
62.5°	829.3	865.9	917.5	944.5	950.9	941.3	950.9	950.1	919.9	857.9	819.8
65°	761.0	796.8	847.6	882.5	892.9	890.5	896.8	887.3	850.0	791.2	754.7
67.5°	680.0	718.1	776.9	815.8	837.3	839.6	848.4	828.5	790.4	726.1	680.0
70°	602.9	635.5	680.8	717.3	747.5	762.6	764.2	735.6	687.9	634.7	601.3
72.5°	521.9	555.3	610.1	649.8	687.9	705.4	705.4	670.4	618.8	560.0	524.3
75°	423.4	454.4	504.4	547.3	591.0	613.3	612.5	582.3	525.1	469.5	432.1
77.5°	286.8	309.8	341.6	374.1	380.5	398.0	406.7	368.6	336.8	306.6	273.3
80°	166.8	181.1	198.6	216.9	220.8	226.4	212.1	197.8	181.1	161.3	146.2
82.5°	97.7	107.2	116.0	130.3	132.7	134.2	121.5	115.2	101.7	89.8	80.2
85°	47.7	50.8	58.8	65.9	62.8	61.2	55.6	49.3	43.7	38.9	34.2
87.5°	9.5	9.5	14.3	13.5	11.1	9.5	5.6	7.1	1.6	1.6	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°	1739.7	1739.7	1739.7	1739.7	1739.7	1739.7	1739.7	1739.7	1739.7	1739.7	1739.7
2.5°	1631.6	1645.1	1661.8	1684.1	1709.5	1736.5	1762.7	1782.6	1802.4	1831.8	1827.1
5°	1548.2	1571.3	1597.5	1631.6	1672.9	1719.8	1772.2	1824.7	1881.1	1928.7	1949.4
7.5°	1499.8	1525.2	1556.2	1600.7	1653.9	1711.1	1785.0	1869.9	1961.3	2024.1	2063.0
10°	1499.8	1532.3	1572.9	1615.7	1662.6	1721.4	1812.8	1919.2	2036.8	2119.4	2164.7
12.5°	1586.4	1618.9	1627.7	1626.1	1652.3	1717.4	1835.0	1970.8	2111.4	2198.8	2254.4
15°	1721.4	1732.5	1666.6	1606.2	1610.2	1688.8	1845.3	2012.1	2175.8	2280.6	2341.0
17.5°	1812.0	1782.6	1665.0	1559.3	1537.1	1640.4	1845.3	2051.9	2244.1	2362.5	2418.9
20°	1819.1	1746.0	1624.5	1514.1	1456.9	1576.0	1832.6	2082.0	2310.0	2441.1	2501.5
22.5°	1756.4	1684.1	1581.6	1475.1	1390.9	1498.2	1812.0	2105.1	2366.4	2515.0	2589.6
25°	1684.9	1624.5	1537.9	1435.4	1345.7	1419.5	1792.9	2144.0	2445.1	2615.1	2690.5
27.5°	1615.0	1564.1	1485.5	1402.1	1320.2	1351.2	1781.0	2201.2	2538.8	2757.3	2822.4
30°	1546.6	1500.6	1429.1	1370.3	1306.7	1306.7	1770.7	2267.1	2662.7	2916.9	2982.1
32.5°	1477.5	1433.8	1375.8	1339.3	1298.8	1289.3	1742.1	2329.1	2790.6	3091.7	3158.4
35°	1413.2	1369.5	1325.0	1309.9	1294.8	1275.8	1671.4	2377.6	2915.3	3295.8	3353.0
37.5°	1352.8	1310.7	1277.3	1273.4	1275.0	1239.2	1560.1	2418.1	3071.0	3504.8	3534.9
40°	1300.4	1253.5	1227.3	1226.5	1234.5	1180.4	1419.5	2476.1	3249.0	3681.9	3669.2
42.5°	1253.5	1204.3	1172.5	1179.6	1174.9	1121.7	1282.1	2529.3	3403.9	3847.9	3822.5
45°	1207.4	1159.8	1115.3	1125.6	1120.1	1085.1	1165.3	2568.2	3575.5	4047.3	4050.5
47.5°	1163.0	1116.1	1071.6	1058.9	1058.1	1074.0	1075.6	2580.9	3855.1	4368.2	4296.0
50°	1121.7	1074.8	1028.7	985.8	1002.5	1051.7	1008.9	2571.4	4273.7	4722.5	4520.8
52.5°	1078.8	1034.3	983.4	906.4	950.1	998.5	949.3	2537.2	4529.5	5035.5	4914.8
55°	1029.5	987.4	918.3	824.6	877.8	888.1	888.1	2206.8	4638.3	5345.3	5420.0
57.5°	963.6	908.0	798.3	722.9	770.5	730.8	823.0	1544.3	4458.8	5247.6	5537.6
60°	888.9	829.3	713.3	659.3	673.6	603.7	701.4	968.3	3695.4	4465.2	4967.2
62.5°	790.4	735.6	639.5	597.4	568.0	492.5	564.8	612.5	2533.2	3315.7	3658.1
65°	724.5	664.1	578.3	522.7	462.3	396.4	374.9	402.0	1362.3	1855.6	2086.8
67.5°	646.6	587.0	506.0	436.1	387.7	340.0	302.7	293.1	467.1	618.0	668.9
70°	572.7	515.5	448.0	382.9	334.4	287.6	251.0	224.8	216.1	214.5	211.3
72.5°	497.3	444.1	387.7	327.3	274.1	231.2	198.6	168.4	155.7	151.7	147.8
75°	407.5	365.4	309.0	243.9	201.0	161.3	135.8	116.0	104.9	100.9	96.1
77.5°	262.1	243.1	193.8	157.3	121.5	96.1	82.6	69.9	62.8	61.2	57.2
80°	139.8	130.3	107.2	90.6	72.3	58.8	51.6	44.5	40.5	38.9	37.3
82.5°	77.8	70.7	59.6	52.4	42.1	35.7	31.8	28.6	26.2	25.4	24.6
85°	35.0	30.2	23.8	22.2	19.9	18.3	17.5	15.9	15.1	14.3	13.5
87.5°	1.6	3.2	4.0	3.2	3.2	4.8	5.6	5.6	4.8	4.8	4.0
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: P635015

CATALOG NUMBER: GWS-SA3C-830-U-SLL-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1739.7	1739.7	1739.7	1739.7	1739.7	1739.7	1739.7	1739.7	1739.7	1739.7
2.5°	1856.4	1880.3	1882.7	1890.6	1880.3	1877.9	1861.2	1851.7	1842.9	1840.6
5°	2001.0	2048.7	2067.7	2081.3	2068.5	2062.2	2025.6	1987.5	1966.1	1955.7
7.5°	2149.6	2221.1	2258.4	2275.1	2276.7	2248.1	2185.3	2113.8	2078.1	2064.6
10°	2282.2	2370.4	2419.7	2451.4	2440.3	2405.4	2319.6	2222.6	2177.4	2165.5
12.5°	2380.7	2464.9	2503.1	2523.7	2522.9	2503.9	2422.8	2318.0	2266.3	2254.4
15°	2444.3	2494.3	2496.7	2501.5	2515.0	2540.4	2498.3	2401.4	2344.2	2327.5
17.5°	2494.3	2474.5	2437.1	2424.4	2454.6	2525.3	2550.7	2472.1	2410.1	2395.8
20°	2526.1	2426.0	2360.1	2335.4	2370.4	2485.6	2582.5	2535.6	2471.3	2453.0
22.5°	2550.7	2380.7	2274.3	2257.6	2294.1	2442.7	2615.1	2611.1	2540.4	2515.0
25°	2589.6	2350.5	2213.9	2202.0	2236.2	2422.0	2658.8	2713.6	2650.8	2614.3
27.5°	2650.8	2347.4	2182.9	2179.0	2225.8	2440.3	2721.5	2863.7	2785.1	2758.1
30°	2735.8	2377.6	2190.1	2198.0	2255.2	2506.2	2819.2	3035.3	2956.6	2914.5
32.5°	2858.1	2458.6	2298.9	2333.1	2375.2	2611.9	2962.2	3221.2	3161.6	3099.6
35°	3019.4	2681.0	2620.6	2766.0	2726.3	2843.1	3134.6	3446.8	3374.5	3320.5
37.5°	3234.7	3137.0	3192.6	3392.8	3296.6	3280.0	3345.1	3651.7	3612.0	3558.0
40°	3536.5	3556.4	3658.9	3921.8	3782.8	3675.6	3603.3	3805.8	3819.3	3752.6
42.5°	3736.7	3828.1	4075.1	4373.8	4182.4	3925.8	3819.3	4002.8	4003.6	3943.3
45°	3811.4	4050.5	4566.8	4910.8	4590.7	4068.8	3938.5	4270.5	4262.6	4193.5
47.5°	3784.4	4238.0	5077.6	5603.5	5115.0	4170.4	3921.8	4651.8	4716.2	4611.3
50°	3728.0	4426.2	5674.2	6451.9	5758.4	4278.5	3896.4	5074.4	5180.9	5099.9
52.5°	3785.2	4635.9	6379.6	7328.9	6565.5	4450.9	4068.0	5617.0	5597.9	5500.2
55°	3966.3	4883.8	7236.7	8430.7	7452.0	4742.4	4508.8	6134.1	5940.3	5823.5
57.5°	3957.6	5060.9	7988.2	9302.1	8223.3	4981.5	4662.2	6188.9	5797.3	5649.6
60°	3592.1	4979.9	8274.2	9853.4	8456.1	4849.6	4157.7	5528.0	4891.7	4736.8
62.5°	2681.0	4419.1	7719.7	9163.1	7797.5	4188.7	3126.6	3967.9	3515.1	3253.7
65°	1715.0	3457.1	6490.0	7423.4	6427.3	3203.7	1862.0	2127.3	1666.6	1591.9
67.5°	730.0	2440.3	5045.0	4961.6	4808.3	2075.7	718.9	599.0	446.4	438.5
70°	241.5	1660.2	3110.0	3309.3	2871.6	1429.9	237.5	201.0	200.2	193.0
72.5°	158.1	891.3	1750.8	1949.4	1847.7	823.0	143.8	134.2	137.4	134.2
75°	94.5	193.8	294.7	382.9	294.7	138.2	86.6	85.0	86.6	82.6
77.5°	55.6	54.0	52.4	52.4	51.6	47.7	43.7	42.1	42.9	43.7
80°	35.7	34.2	32.6	31.8	27.8	26.2	24.6	23.0	23.0	23.8
82.5°	23.0	21.4	19.9	17.5	14.3	11.9	11.1	9.5	9.5	10.3
85°	11.9	9.5	7.1	5.6	3.2	1.6	0.0	0.0	0.0	0.0
87.5°	2.4	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)