

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: P634011

Luminaire Tested: GWS-SA2F-830-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P634011
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-830-U-RW-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8352.4 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

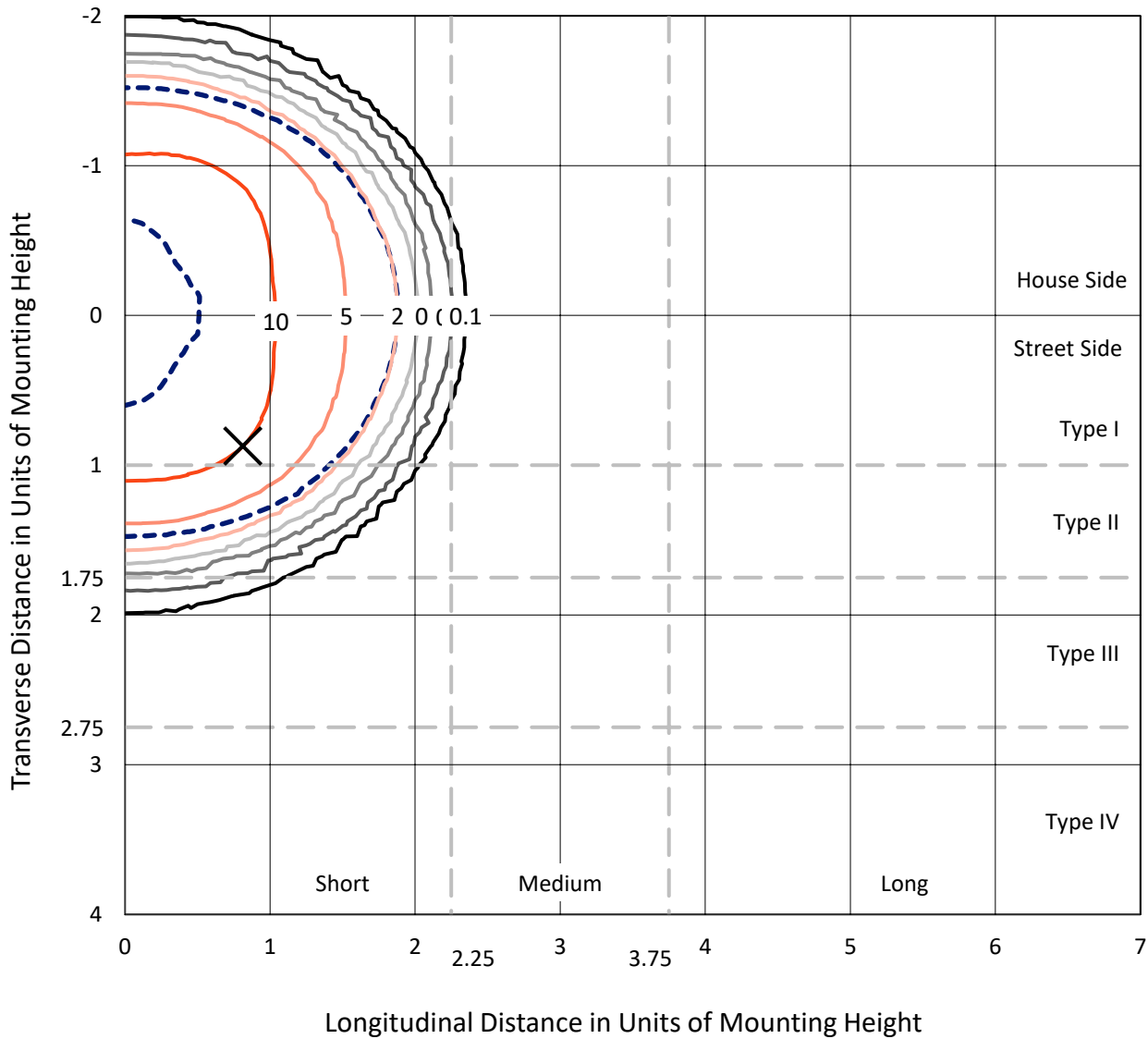
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

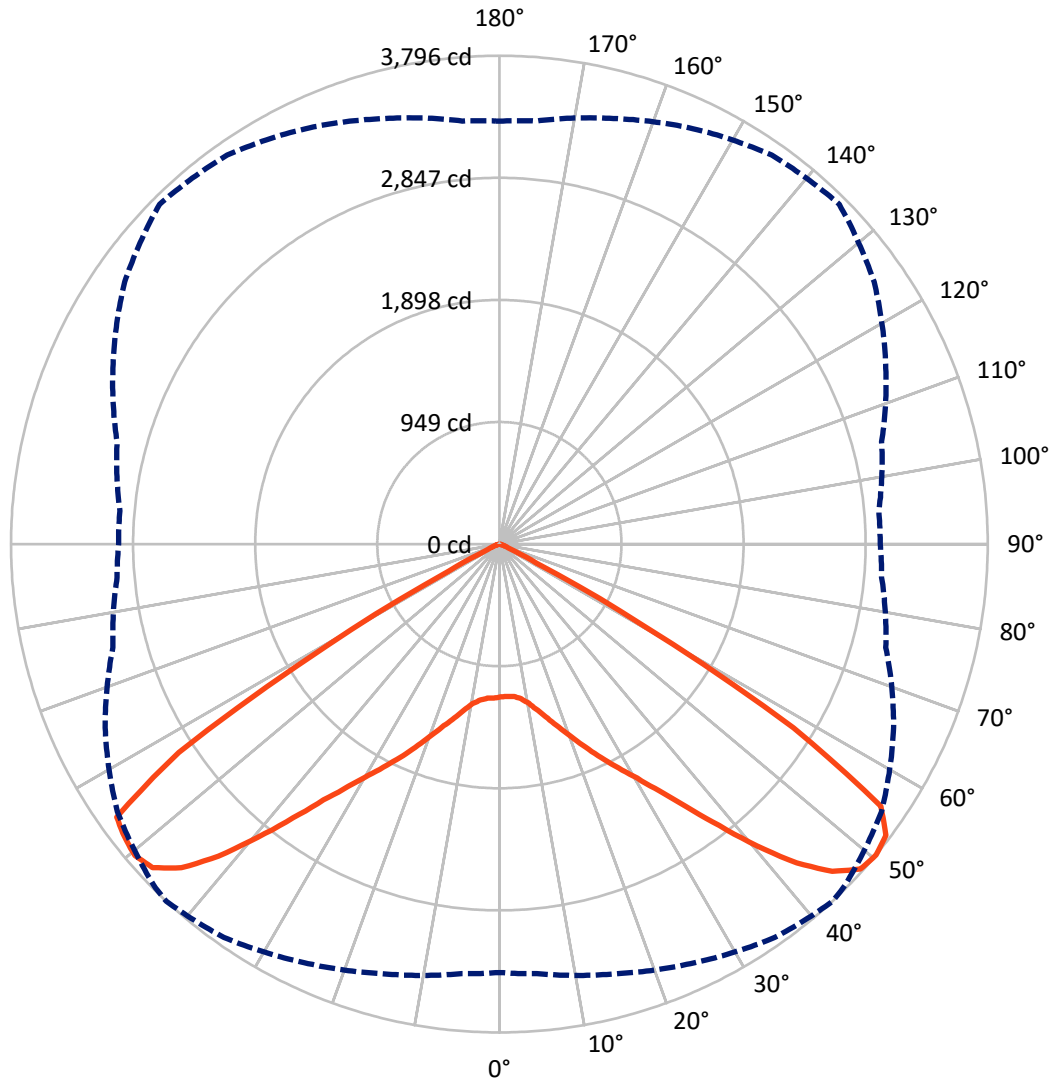
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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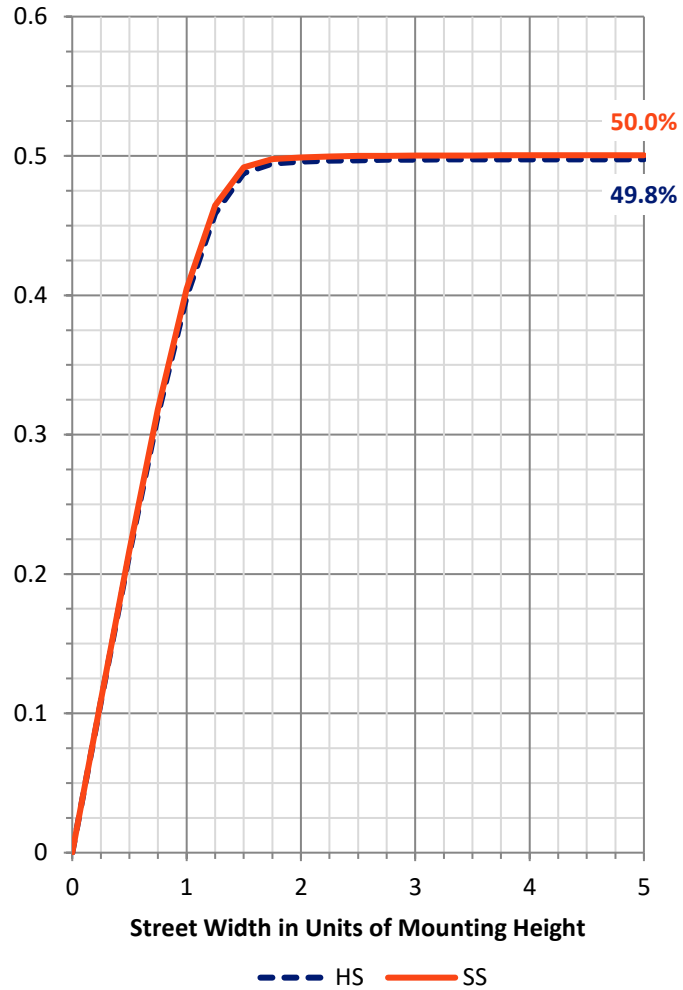
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4176.1 | 0.0 | 4176.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4176.3 | 0.0 | 4176.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 8352.4 | 0.0 | 8352.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 117.0 | 1.4 |
| 10°-20° | 402.6 | 4.8 |
| 20°-30° | 814.5 | 9.8 |
| 30°-40° | 1511.2 | 18.1 |
| 40°-50° | 2508.5 | 30.0 |
| 50°-60° | 2560.1 | 30.7 |
| 60°-70° | 419.8 | 5.0 |
| 70°-80° | 18.4 | 0.2 |
| 80°-90° | 0.2 | 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° | 8352.4 | 100.0 |
| 0°-180° | 8352.4 | 100.0 |

Coefficient of Utilization



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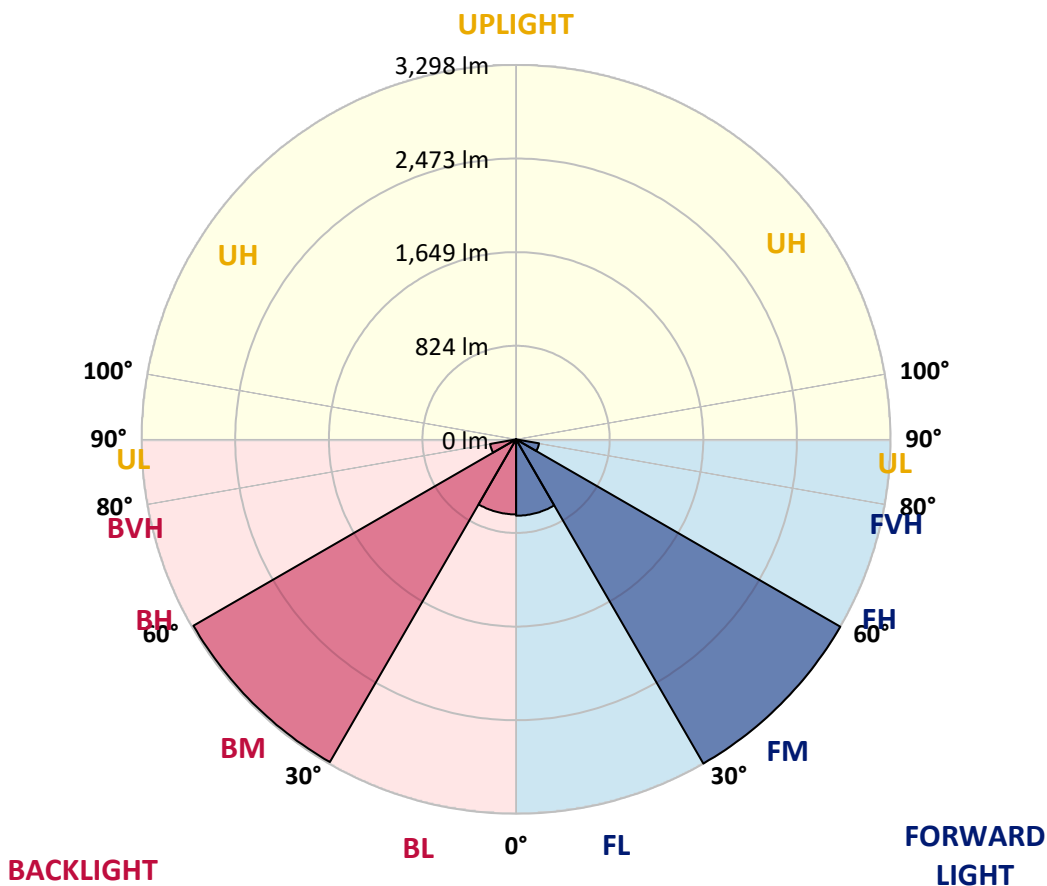
CATALOG NUMBER: GWS-SA2F-830-U-RW-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 672.9 | 8.1 | | | |
| FM (30°-60°) | 3297.9 | 39.5 | | | |
| FH (60°-80°) | 205.4 | 2.5 | | | G0/660 |
| FVH (80°-90°) | 0.1 | 0.0 | | | G0/10 |
| BL (0°-30°) | 661.2 | 7.9 | B2/1000 | | |
| BM (30°-60°) | 3281.9 | 39.3 | B3/5000 | | |
| BH (60°-80°) | 232.8 | 2.8 | B1/500 | | G0/660 |
| BVH (80°-90°) | 0.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 43° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1188.0 | 1188.0 | 1188.0 | 1188.0 | 1188.0 | 1188.0 | 1188.0 | 1188.0 | 1188.0 | 1188.0 | 1188.0 |
| 2.5° | 1165.8 | 1168.6 | 1172.3 | 1176.0 | 1180.6 | 1185.2 | 1188.0 | 1196.3 | 1194.5 | 1201.9 | 1201.9 |
| 5° | 1152.9 | 1155.7 | 1160.3 | 1168.6 | 1178.8 | 1188.9 | 1196.3 | 1212.9 | 1222.2 | 1237.0 | 1242.5 |
| 7.5° | 1159.4 | 1163.1 | 1168.6 | 1181.5 | 1197.2 | 1212.9 | 1221.3 | 1248.0 | 1266.5 | 1294.2 | 1309.9 |
| 10° | 1180.6 | 1184.3 | 1193.5 | 1215.7 | 1236.0 | 1258.2 | 1268.4 | 1302.5 | 1332.1 | 1370.0 | 1392.2 |
| 12.5° | 1204.6 | 1209.2 | 1227.7 | 1261.0 | 1296.1 | 1325.6 | 1339.5 | 1377.4 | 1407.9 | 1450.4 | 1485.5 |
| 15° | 1229.6 | 1237.0 | 1265.6 | 1314.6 | 1364.4 | 1404.2 | 1418.9 | 1459.6 | 1490.1 | 1535.3 | 1575.1 |
| 17.5° | 1287.8 | 1296.1 | 1328.4 | 1381.1 | 1449.4 | 1495.6 | 1508.6 | 1551.0 | 1574.1 | 1604.6 | 1646.2 |
| 20° | 1360.7 | 1376.5 | 1416.2 | 1479.9 | 1554.7 | 1599.1 | 1608.3 | 1649.9 | 1648.0 | 1661.0 | 1697.0 |
| 22.5° | 1451.3 | 1462.4 | 1505.8 | 1581.5 | 1665.6 | 1714.6 | 1735.8 | 1753.4 | 1730.3 | 1719.2 | 1742.3 |
| 25° | 1545.5 | 1558.4 | 1605.6 | 1688.7 | 1782.9 | 1839.3 | 1856.8 | 1870.7 | 1833.7 | 1792.2 | 1794.9 |
| 27.5° | 1667.4 | 1676.7 | 1722.9 | 1811.6 | 1905.8 | 1969.5 | 1985.2 | 2009.2 | 1960.3 | 1893.8 | 1875.3 |
| 30° | 1812.5 | 1821.7 | 1870.7 | 1964.0 | 2057.3 | 2111.8 | 2135.8 | 2165.4 | 2111.8 | 2028.6 | 2007.4 |
| 32.5° | 1982.5 | 1991.7 | 2054.5 | 2150.6 | 2227.3 | 2286.4 | 2309.5 | 2340.9 | 2298.4 | 2205.1 | 2181.1 |
| 35° | 2185.7 | 2191.2 | 2265.1 | 2369.5 | 2450.8 | 2508.1 | 2523.8 | 2560.8 | 2513.6 | 2420.3 | 2407.4 |
| 37.5° | 2421.3 | 2427.7 | 2508.1 | 2629.1 | 2712.3 | 2776.0 | 2800.9 | 2811.1 | 2753.8 | 2649.4 | 2639.3 |
| 40° | 2679.9 | 2701.2 | 2779.7 | 2909.9 | 3003.2 | 3083.6 | 3105.8 | 3071.6 | 2991.2 | 2849.0 | 2830.5 |
| 42.5° | 2949.7 | 2968.1 | 3055.9 | 3197.2 | 3305.3 | 3387.5 | 3388.5 | 3314.6 | 3177.8 | 2981.1 | 2953.4 |
| 45° | 3174.2 | 3181.5 | 3295.2 | 3437.4 | 3570.5 | 3628.7 | 3634.2 | 3500.2 | 3294.2 | 3057.8 | 2998.6 |
| 47.5° | 3328.4 | 3340.4 | 3439.3 | 3576.0 | 3722.9 | 3775.5 | 3764.5 | 3597.2 | 3349.7 | 3107.6 | 3009.7 |
| 50° | 3330.3 | 3350.6 | 3457.8 | 3589.9 | 3732.1 | 3795.9 | 3780.2 | 3625.0 | 3381.1 | 3109.5 | 2982.9 |
| 52.5° | 3035.6 | 3068.8 | 3243.4 | 3434.7 | 3652.7 | 3761.7 | 3765.4 | 3661.0 | 3369.1 | 3079.9 | 2958.9 |
| 55° | 2290.1 | 2326.1 | 2546.0 | 2872.1 | 3293.3 | 3597.2 | 3649.9 | 3618.5 | 3355.2 | 3092.9 | 3001.4 |
| 57.5° | 1212.0 | 1184.3 | 1306.2 | 1629.6 | 2158.9 | 2696.5 | 2850.8 | 3102.1 | 3200.9 | 3108.6 | 3079.9 |
| 60° | 264.2 | 281.8 | 375.1 | 505.3 | 842.5 | 1268.4 | 1418.9 | 1849.4 | 2361.2 | 2588.5 | 2752.9 |
| 62.5° | 113.6 | 111.8 | 116.4 | 132.1 | 193.1 | 321.5 | 392.6 | 641.1 | 1011.6 | 1389.4 | 1645.3 |
| 65° | 93.3 | 94.2 | 97.9 | 97.9 | 91.5 | 92.4 | 97.0 | 146.9 | 236.5 | 331.6 | 445.3 |
| 67.5° | 70.2 | 71.1 | 77.6 | 79.4 | 74.8 | 66.5 | 65.6 | 55.4 | 58.2 | 73.0 | 75.8 |
| 70° | 44.3 | 44.3 | 48.0 | 49.9 | 49.9 | 46.2 | 45.3 | 39.7 | 38.8 | 44.3 | 49.9 |
| 72.5° | 24.0 | 24.0 | 25.9 | 26.8 | 25.9 | 24.9 | 24.9 | 24.0 | 23.1 | 26.8 | 34.2 |
| 75° | 10.2 | 10.2 | 11.1 | 11.1 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 12.0 | 18.5 |
| 77.5° | 1.8 | 2.8 | 3.7 | 2.8 | 1.8 | 1.8 | 1.8 | 2.8 | 2.8 | 3.7 | 5.5 |
| 80° | 0.9 | 0.9 | 1.8 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 0.9 | 0.9 |
| 82.5° | 0.9 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 |
| 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-SA2F-830-U-RW-W-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1188.0 | 1188.0 | 1188.0 | 1188.0 | 1188.0 | 1188.0 | 1188.0 | 1188.0 | 1188.0 | 1188.0 | 1188.0 |
| 2.5° | 1208.3 | 1198.2 | 1201.9 | 1203.7 | 1200.9 | 1199.1 | 1188.9 | 1186.1 | 1181.5 | 1174.1 | 1172.3 |
| 5° | 1249.0 | 1240.7 | 1239.7 | 1234.2 | 1221.3 | 1205.5 | 1186.1 | 1177.8 | 1168.6 | 1159.4 | 1157.5 |
| 7.5° | 1317.3 | 1307.2 | 1300.7 | 1282.2 | 1252.7 | 1227.7 | 1195.4 | 1177.8 | 1165.8 | 1153.8 | 1151.0 |
| 10° | 1405.1 | 1393.1 | 1374.6 | 1340.4 | 1300.7 | 1264.7 | 1226.8 | 1203.7 | 1185.2 | 1168.6 | 1167.7 |
| 12.5° | 1498.4 | 1485.5 | 1452.2 | 1408.8 | 1360.7 | 1327.5 | 1279.5 | 1247.1 | 1219.4 | 1194.5 | 1191.7 |
| 15° | 1596.3 | 1580.6 | 1535.3 | 1483.6 | 1439.3 | 1405.1 | 1352.4 | 1300.7 | 1258.2 | 1222.2 | 1218.5 |
| 17.5° | 1671.1 | 1651.7 | 1598.2 | 1559.4 | 1523.3 | 1488.2 | 1429.1 | 1360.7 | 1304.4 | 1261.0 | 1250.8 |
| 20° | 1718.3 | 1699.8 | 1649.0 | 1627.7 | 1611.1 | 1586.2 | 1515.9 | 1444.8 | 1382.0 | 1328.4 | 1319.2 |
| 22.5° | 1763.5 | 1741.3 | 1697.0 | 1697.0 | 1709.9 | 1699.8 | 1624.0 | 1542.7 | 1468.8 | 1406.9 | 1393.1 |
| 25° | 1814.3 | 1796.8 | 1765.4 | 1791.2 | 1823.6 | 1822.6 | 1745.0 | 1643.4 | 1558.4 | 1489.2 | 1475.3 |
| 27.5° | 1888.2 | 1870.7 | 1859.6 | 1908.6 | 1949.2 | 1946.4 | 1861.4 | 1751.5 | 1661.9 | 1593.5 | 1580.6 |
| 30° | 2018.5 | 2001.9 | 1989.8 | 2049.0 | 2100.7 | 2081.3 | 1988.0 | 1881.8 | 1791.2 | 1713.6 | 1704.4 |
| 32.5° | 2192.2 | 2174.6 | 2158.9 | 2218.0 | 2264.2 | 2239.3 | 2150.6 | 2050.8 | 1946.4 | 1870.7 | 1852.2 |
| 35° | 2420.3 | 2383.4 | 2367.7 | 2437.9 | 2457.3 | 2429.6 | 2344.6 | 2256.8 | 2146.0 | 2059.1 | 2047.1 |
| 37.5° | 2655.9 | 2612.5 | 2601.4 | 2662.4 | 2693.8 | 2683.6 | 2583.8 | 2492.4 | 2372.3 | 2276.2 | 2262.4 |
| 40° | 2857.3 | 2817.6 | 2798.2 | 2893.3 | 2964.4 | 2970.9 | 2881.3 | 2769.5 | 2628.2 | 2528.4 | 2503.5 |
| 42.5° | 2975.5 | 2941.4 | 2936.7 | 3084.5 | 3200.9 | 3284.1 | 3176.9 | 3061.4 | 2912.7 | 2800.0 | 2779.7 |
| 45° | 3002.3 | 2980.2 | 3019.0 | 3212.9 | 3394.0 | 3545.5 | 3454.1 | 3332.1 | 3171.4 | 3052.2 | 3032.8 |
| 47.5° | 2999.6 | 2992.2 | 3061.4 | 3279.5 | 3508.6 | 3695.2 | 3649.9 | 3512.3 | 3357.1 | 3232.3 | 3213.9 |
| 50° | 2959.8 | 2960.8 | 3076.2 | 3312.7 | 3554.8 | 3735.8 | 3690.5 | 3563.1 | 3424.5 | 3301.6 | 3286.9 |
| 52.5° | 2944.1 | 2938.6 | 3048.5 | 3302.6 | 3601.9 | 3717.3 | 3615.7 | 3472.5 | 3318.3 | 3166.8 | 3144.6 |
| 55° | 2999.6 | 2985.7 | 3052.2 | 3294.2 | 3607.4 | 3707.2 | 3439.3 | 3128.9 | 2812.9 | 2633.7 | 2619.0 |
| 57.5° | 3082.7 | 3067.9 | 3099.3 | 3233.3 | 3318.3 | 3082.7 | 2531.2 | 2030.5 | 1705.3 | 1567.7 | 1507.6 |
| 60° | 2752.9 | 2742.7 | 2718.7 | 2557.1 | 2193.1 | 1654.5 | 1127.0 | 718.7 | 516.4 | 417.6 | 417.6 |
| 62.5° | 1708.1 | 1694.2 | 1564.0 | 1162.1 | 844.3 | 488.7 | 268.8 | 168.1 | 127.5 | 119.2 | 118.2 |
| 65° | 479.4 | 476.7 | 394.5 | 279.0 | 177.4 | 109.9 | 97.0 | 98.8 | 97.0 | 94.2 | 93.3 |
| 67.5° | 72.1 | 79.4 | 79.4 | 64.7 | 61.9 | 69.3 | 81.3 | 86.8 | 82.2 | 77.6 | 75.8 |
| 70° | 46.2 | 49.9 | 48.0 | 41.6 | 44.3 | 51.7 | 58.2 | 59.1 | 56.4 | 51.7 | 50.8 |
| 72.5° | 32.3 | 36.0 | 29.6 | 26.8 | 27.7 | 30.5 | 33.3 | 33.3 | 32.3 | 30.5 | 28.6 |
| 75° | 19.4 | 19.4 | 13.9 | 12.9 | 12.9 | 13.9 | 13.9 | 15.7 | 15.7 | 14.8 | 13.9 |
| 77.5° | 6.5 | 7.4 | 4.6 | 3.7 | 3.7 | 3.7 | 4.6 | 5.5 | 5.5 | 4.6 | 3.7 |
| 80° | 0.9 | 1.8 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.8 | 1.8 | 0.9 |
| 82.5° | 0.9 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 0.9 | 0.9 | 0.9 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 0.9 |
| 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 |

(END OF REPORT)