

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: P634507

Luminaire Tested: GWS-SA3B-830-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P634507
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3B-830-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE 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: 7284 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 68.3
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

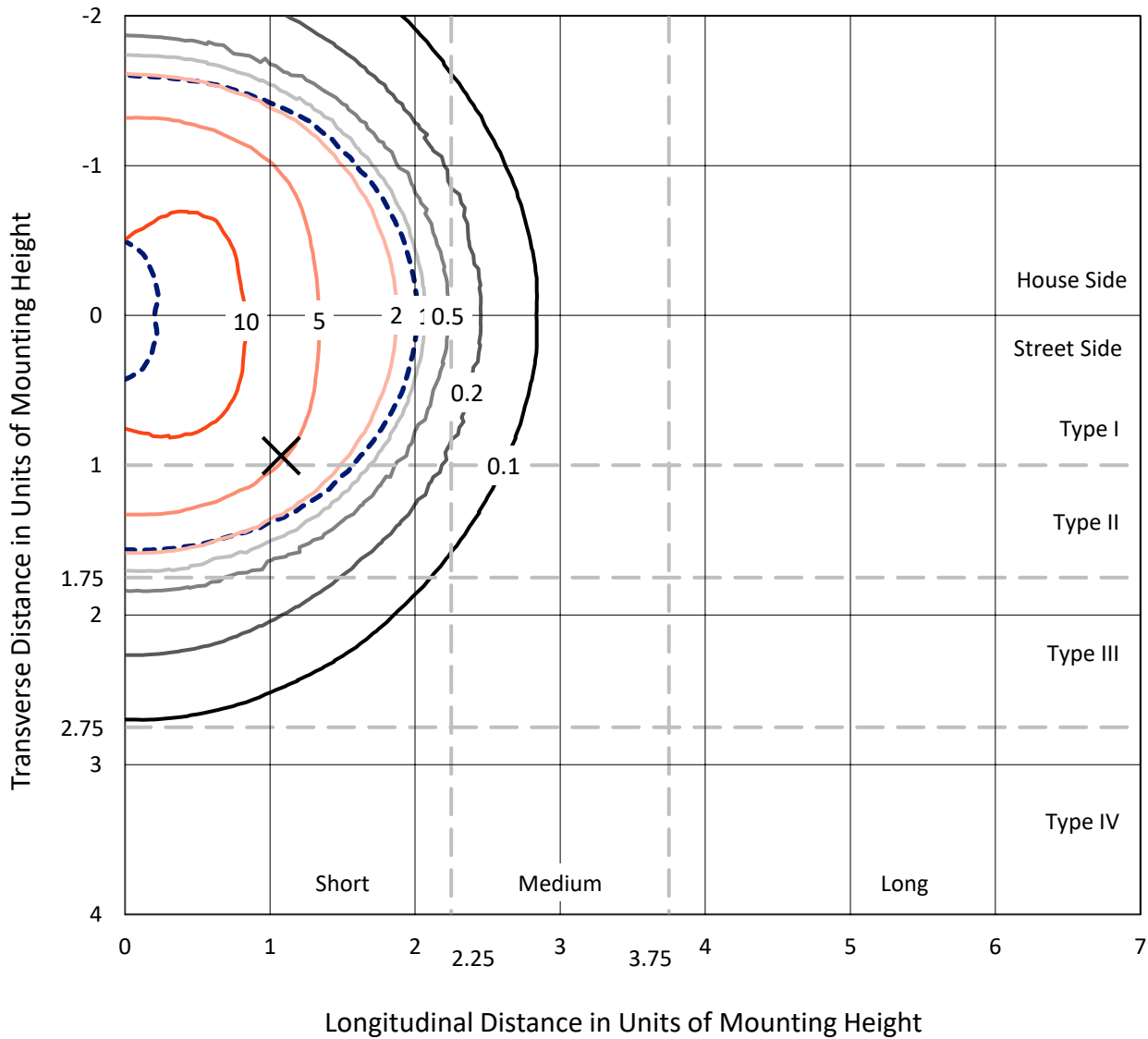


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Iso-Footcandle Lines of Horizontal Illumination

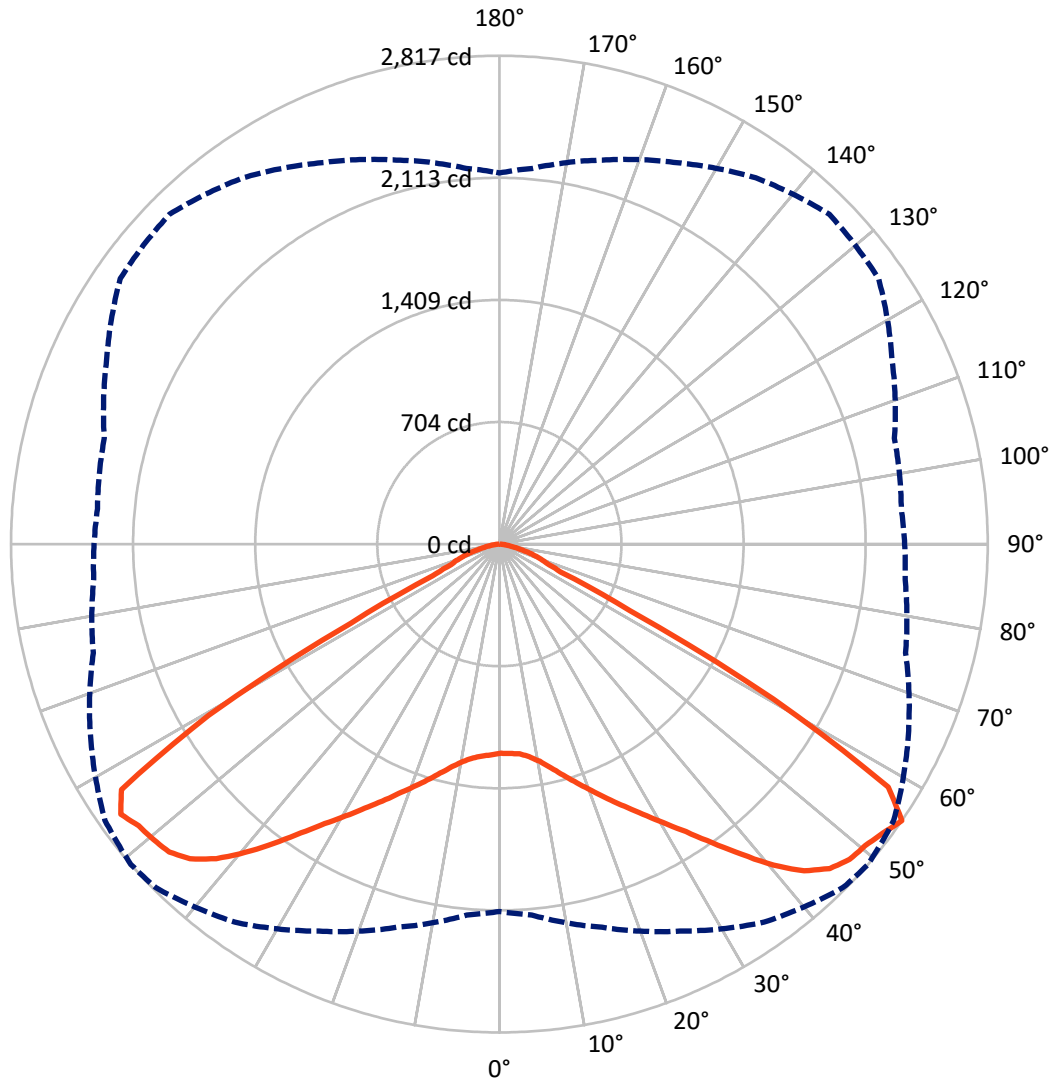
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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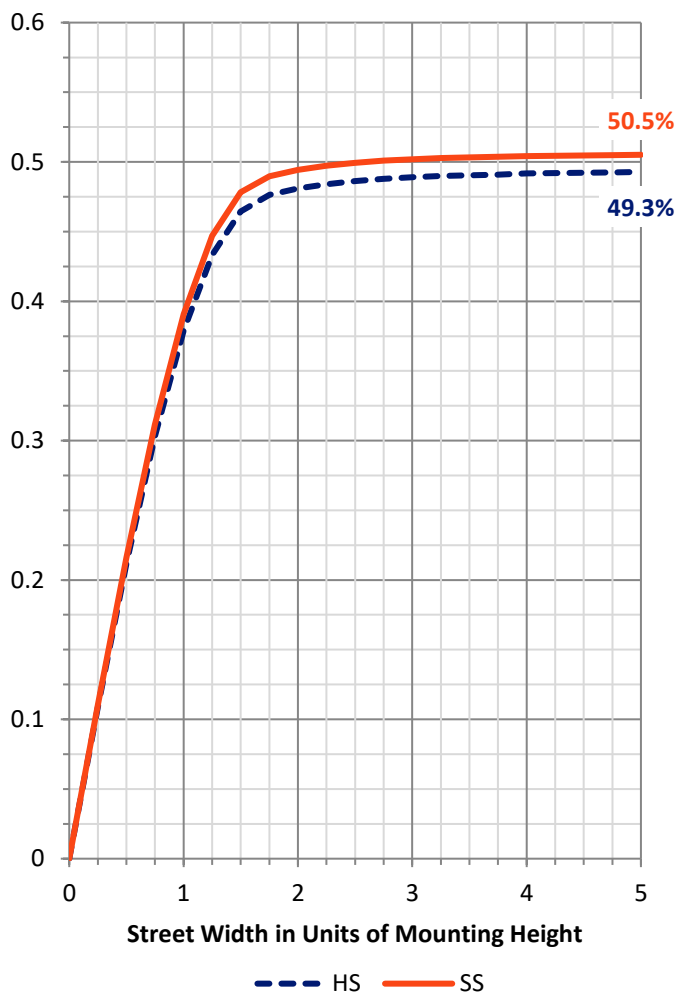
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3606.3 | 0.0 | 3606.3 |
| | % Fixture | 49.5 | 0.0 | 49.5 |
| Street Side | Lumens | 3677.7 | 0.0 | 3677.7 |
| | % Fixture | 50.5 | 0.0 | 50.5 |
| Total | Lumens | 7284.0 | 0.0 | 7284.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 117.7 | 1.6 |
| 10°-20° | 388.3 | 5.3 |
| 20°-30° | 739.5 | 10.2 |
| 30°-40° | 1253.6 | 17.2 |
| 40°-50° | 1886.6 | 25.9 |
| 50°-60° | 2065.1 | 28.4 |
| 60°-70° | 653.0 | 9.0 |
| 70°-80° | 156.7 | 2.2 |
| 80°-90° | 23.5 | 0.3 |
| 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° | 7284.0 | 100.0 |
| 0°-180° | 7284.0 | 100.0 |

Coefficient of Utilization



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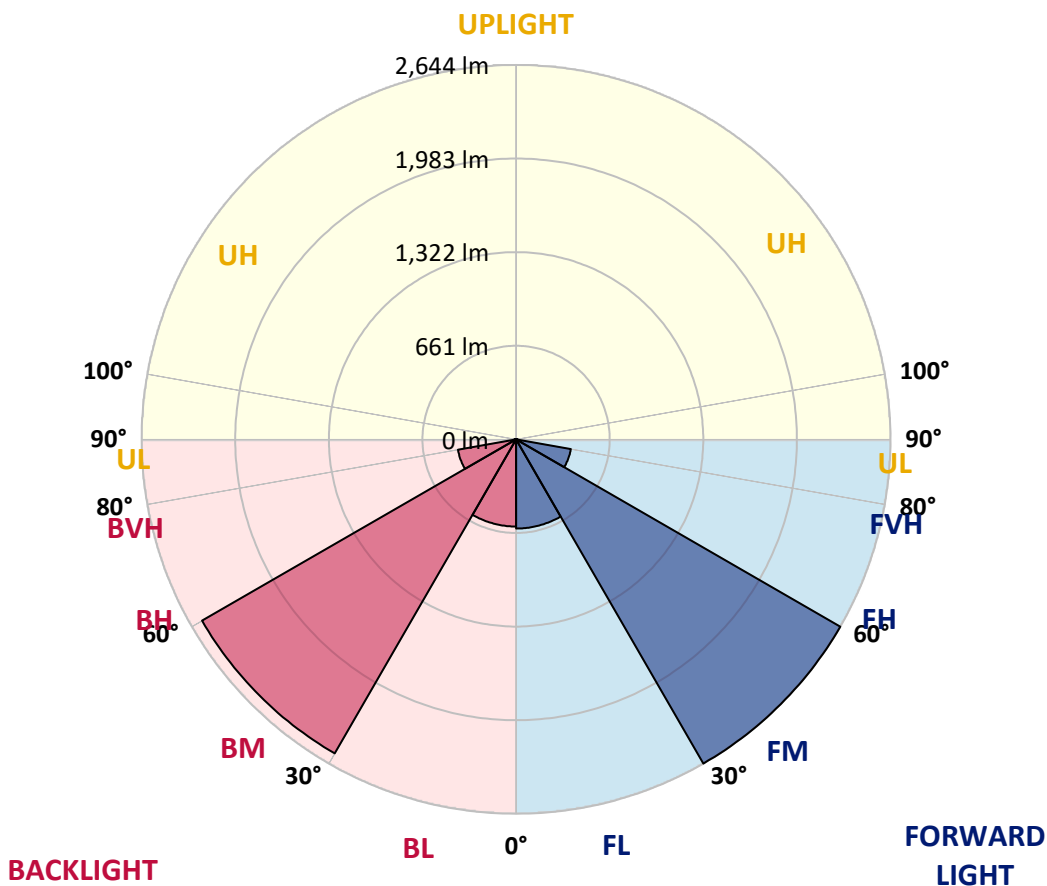
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 629.8 | 8.6 | | | |
| FM (30°-60°) | 2644.3 | 36.3 | | | |
| FH (60°-80°) | 392.8 | 5.4 | | | G0/660 |
| FVH (80°-90°) | 10.9 | 0.1 | | | G1/100 |
| BL (0°-30°) | 615.7 | 8.5 | B2/1000 | | |
| BM (30°-60°) | 2561.0 | 35.2 | B3/5000 | | |
| BH (60°-80°) | 416.9 | 5.7 | B1/500 | | G0/660 |
| BVH (80°-90°) | 12.6 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 49° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1206.6 | 1206.6 | 1206.6 | 1206.6 | 1206.6 | 1206.6 | 1206.6 | 1206.6 | 1206.6 | 1206.6 | 1206.6 |
| 2.5° | 1188.9 | 1190.1 | 1192.4 | 1196.6 | 1200.7 | 1206.6 | 1209.0 | 1212.0 | 1211.4 | 1214.9 | 1214.9 |
| 5° | 1182.9 | 1184.7 | 1188.3 | 1194.2 | 1201.3 | 1212.6 | 1215.5 | 1222.6 | 1229.7 | 1238.6 | 1241.6 |
| 7.5° | 1190.1 | 1192.4 | 1196.6 | 1206.0 | 1216.7 | 1231.5 | 1237.4 | 1249.3 | 1262.9 | 1278.9 | 1285.4 |
| 10° | 1203.7 | 1206.6 | 1213.7 | 1229.1 | 1246.3 | 1268.8 | 1274.2 | 1289.0 | 1310.9 | 1332.8 | 1345.8 |
| 12.5° | 1219.1 | 1223.8 | 1236.8 | 1261.1 | 1286.6 | 1316.2 | 1324.5 | 1342.9 | 1366.6 | 1395.0 | 1412.8 |
| 15° | 1236.8 | 1241.0 | 1261.1 | 1295.5 | 1335.2 | 1374.3 | 1383.8 | 1401.5 | 1428.2 | 1456.0 | 1480.9 |
| 17.5° | 1274.2 | 1281.3 | 1305.0 | 1344.7 | 1390.9 | 1437.1 | 1447.7 | 1467.9 | 1489.2 | 1511.1 | 1534.8 |
| 20° | 1325.1 | 1331.0 | 1361.2 | 1410.4 | 1464.9 | 1507.0 | 1517.6 | 1535.4 | 1545.5 | 1556.7 | 1576.9 |
| 22.5° | 1376.1 | 1384.3 | 1418.7 | 1476.8 | 1540.7 | 1586.3 | 1594.6 | 1611.2 | 1604.1 | 1600.6 | 1613.6 |
| 25° | 1439.4 | 1450.7 | 1484.5 | 1547.8 | 1613.0 | 1669.3 | 1675.8 | 1690.0 | 1678.2 | 1659.8 | 1659.2 |
| 27.5° | 1518.2 | 1528.3 | 1563.2 | 1628.4 | 1693.0 | 1751.6 | 1764.1 | 1783.0 | 1756.9 | 1734.4 | 1718.4 |
| 30° | 1611.8 | 1618.3 | 1656.8 | 1726.1 | 1792.5 | 1848.2 | 1864.2 | 1883.1 | 1863.6 | 1826.2 | 1810.3 |
| 32.5° | 1720.8 | 1729.7 | 1774.1 | 1847.0 | 1906.2 | 1961.9 | 1977.9 | 2001.6 | 1980.3 | 1938.2 | 1918.1 |
| 35° | 1851.7 | 1860.6 | 1907.4 | 1986.8 | 2047.2 | 2104.7 | 2115.9 | 2135.5 | 2108.8 | 2060.2 | 2044.2 |
| 37.5° | 1993.9 | 2005.1 | 2064.4 | 2139.6 | 2203.0 | 2269.9 | 2270.5 | 2276.4 | 2238.5 | 2178.1 | 2160.3 |
| 40° | 2153.8 | 2168.6 | 2227.9 | 2306.1 | 2382.5 | 2437.0 | 2436.4 | 2419.8 | 2355.8 | 2262.2 | 2235.0 |
| 42.5° | 2312.0 | 2323.8 | 2383.7 | 2464.2 | 2540.6 | 2592.2 | 2576.8 | 2536.5 | 2444.1 | 2316.7 | 2280.6 |
| 45° | 2426.3 | 2435.2 | 2498.0 | 2588.6 | 2666.2 | 2698.2 | 2670.4 | 2621.8 | 2496.8 | 2351.1 | 2297.8 |
| 47.5° | 2480.2 | 2492.1 | 2555.4 | 2645.5 | 2733.2 | 2751.5 | 2718.3 | 2672.7 | 2527.6 | 2383.1 | 2311.4 |
| 50° | 2451.2 | 2466.6 | 2538.3 | 2621.8 | 2720.7 | 2758.6 | 2734.9 | 2689.3 | 2560.2 | 2414.5 | 2335.7 |
| 52.5° | 2376.0 | 2390.8 | 2481.4 | 2582.7 | 2694.6 | 2769.9 | 2769.3 | 2732.0 | 2597.5 | 2423.3 | 2336.9 |
| 55° | 2118.9 | 2147.9 | 2288.9 | 2463.6 | 2662.7 | 2803.1 | 2817.3 | 2777.6 | 2603.4 | 2425.7 | 2349.3 |
| 57.5° | 1379.0 | 1430.0 | 1563.8 | 1791.3 | 2190.5 | 2549.5 | 2645.5 | 2655.0 | 2560.8 | 2415.6 | 2351.7 |
| 60° | 575.8 | 616.6 | 722.7 | 873.7 | 1203.7 | 1630.8 | 1816.8 | 2003.4 | 2228.5 | 2310.2 | 2329.8 |
| 62.5° | 357.8 | 361.3 | 372.0 | 406.4 | 516.5 | 725.0 | 844.7 | 1019.5 | 1354.1 | 1639.1 | 1770.6 |
| 65° | 322.8 | 324.6 | 327.0 | 324.6 | 329.9 | 355.4 | 387.4 | 448.4 | 584.7 | 726.2 | 894.5 |
| 67.5° | 284.3 | 286.7 | 288.5 | 286.7 | 288.5 | 289.7 | 293.2 | 298.5 | 323.4 | 343.6 | 359.0 |
| 70° | 229.8 | 233.4 | 236.4 | 235.2 | 242.3 | 242.3 | 245.8 | 250.0 | 262.4 | 277.2 | 287.9 |
| 72.5° | 175.3 | 172.4 | 175.9 | 177.1 | 183.6 | 187.2 | 192.5 | 197.3 | 211.5 | 220.4 | 234.0 |
| 75° | 113.7 | 110.8 | 116.1 | 119.1 | 127.9 | 132.7 | 137.4 | 142.2 | 152.2 | 158.2 | 171.2 |
| 77.5° | 61.6 | 61.0 | 66.3 | 70.5 | 80.0 | 85.9 | 89.4 | 93.0 | 101.3 | 103.1 | 111.4 |
| 80° | 35.5 | 35.5 | 39.1 | 42.1 | 48.0 | 54.5 | 58.1 | 61.0 | 66.9 | 68.7 | 72.3 |
| 82.5° | 19.5 | 19.5 | 21.3 | 23.1 | 27.8 | 31.4 | 34.4 | 36.7 | 42.1 | 43.8 | 45.6 |
| 85° | 9.5 | 8.9 | 10.1 | 11.3 | 13.0 | 14.8 | 16.6 | 17.8 | 21.9 | 23.1 | 25.5 |
| 87.5° | 1.2 | 1.2 | 1.2 | 1.8 | 2.4 | 3.6 | 4.1 | 4.1 | 6.5 | 7.7 | 8.9 |
| 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-SA3B-830-U-RW-W-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1206.6 | 1206.6 | 1206.6 | 1206.6 | 1206.6 | 1206.6 | 1206.6 | 1206.6 | 1206.6 | 1206.6 | 1206.6 |
| 2.5° | 1218.5 | 1210.8 | 1215.5 | 1217.3 | 1217.3 | 1215.5 | 1207.8 | 1205.5 | 1201.9 | 1196.6 | 1196.6 |
| 5° | 1245.7 | 1239.8 | 1241.0 | 1238.0 | 1230.9 | 1222.0 | 1207.8 | 1200.7 | 1194.8 | 1188.3 | 1187.7 |
| 7.5° | 1292.5 | 1284.8 | 1283.6 | 1272.4 | 1253.4 | 1234.5 | 1213.2 | 1200.1 | 1191.2 | 1182.9 | 1182.4 |
| 10° | 1353.5 | 1346.4 | 1337.6 | 1315.0 | 1287.2 | 1259.4 | 1230.3 | 1212.6 | 1199.5 | 1187.7 | 1187.1 |
| 12.5° | 1421.7 | 1413.4 | 1396.8 | 1363.6 | 1328.7 | 1301.4 | 1268.2 | 1241.0 | 1221.4 | 1205.5 | 1202.5 |
| 15° | 1495.7 | 1483.9 | 1455.4 | 1416.3 | 1382.0 | 1353.0 | 1317.4 | 1278.3 | 1248.7 | 1223.2 | 1220.3 |
| 17.5° | 1552.6 | 1537.2 | 1506.4 | 1469.6 | 1441.2 | 1412.2 | 1366.0 | 1316.8 | 1274.2 | 1242.2 | 1237.4 |
| 20° | 1591.7 | 1579.2 | 1544.3 | 1517.0 | 1500.4 | 1475.0 | 1421.1 | 1365.4 | 1317.4 | 1277.1 | 1274.8 |
| 22.5° | 1627.8 | 1613.0 | 1578.6 | 1562.6 | 1562.6 | 1545.5 | 1493.9 | 1428.2 | 1371.9 | 1325.1 | 1319.2 |
| 25° | 1668.7 | 1652.7 | 1626.6 | 1624.8 | 1633.1 | 1625.4 | 1563.2 | 1492.7 | 1427.0 | 1374.3 | 1364.8 |
| 27.5° | 1725.5 | 1707.8 | 1692.4 | 1703.0 | 1714.9 | 1706.6 | 1637.3 | 1555.5 | 1486.2 | 1432.9 | 1424.6 |
| 30° | 1816.2 | 1794.3 | 1780.0 | 1793.1 | 1816.2 | 1791.9 | 1716.7 | 1630.2 | 1560.3 | 1501.6 | 1497.5 |
| 32.5° | 1921.6 | 1896.7 | 1881.9 | 1902.7 | 1923.4 | 1885.5 | 1810.8 | 1727.9 | 1654.5 | 1592.9 | 1585.7 |
| 35° | 2048.4 | 2017.0 | 1995.1 | 2022.9 | 2044.2 | 2006.9 | 1932.9 | 1854.1 | 1772.3 | 1708.4 | 1698.9 |
| 37.5° | 2160.9 | 2123.0 | 2108.2 | 2147.3 | 2175.7 | 2151.5 | 2070.9 | 1996.8 | 1907.4 | 1837.5 | 1833.4 |
| 40° | 2242.7 | 2205.4 | 2194.7 | 2259.3 | 2309.0 | 2303.1 | 2230.8 | 2146.1 | 2062.0 | 1981.4 | 1973.7 |
| 42.5° | 2278.2 | 2252.2 | 2254.5 | 2341.6 | 2418.6 | 2456.5 | 2392.0 | 2301.3 | 2220.2 | 2136.6 | 2131.3 |
| 45° | 2285.9 | 2269.9 | 2288.9 | 2397.9 | 2499.2 | 2576.8 | 2521.7 | 2445.9 | 2354.0 | 2273.5 | 2271.1 |
| 47.5° | 2294.2 | 2285.3 | 2314.4 | 2429.9 | 2550.1 | 2640.2 | 2609.3 | 2531.2 | 2438.2 | 2359.4 | 2353.4 |
| 50° | 2313.8 | 2310.2 | 2342.8 | 2452.4 | 2574.4 | 2657.3 | 2622.4 | 2544.8 | 2449.4 | 2371.8 | 2357.6 |
| 52.5° | 2319.7 | 2313.8 | 2360.6 | 2487.3 | 2614.7 | 2656.7 | 2581.5 | 2480.2 | 2384.3 | 2297.8 | 2283.0 |
| 55° | 2338.0 | 2327.4 | 2359.4 | 2500.4 | 2670.4 | 2691.1 | 2579.1 | 2427.5 | 2293.6 | 2175.7 | 2140.8 |
| 57.5° | 2342.8 | 2330.9 | 2351.7 | 2479.0 | 2609.9 | 2591.6 | 2267.0 | 1958.9 | 1706.6 | 1575.7 | 1590.5 |
| 60° | 2317.3 | 2320.9 | 2285.3 | 2271.1 | 2093.4 | 1848.2 | 1387.9 | 1109.5 | 871.4 | 770.7 | 792.6 |
| 62.5° | 1764.1 | 1778.9 | 1657.4 | 1441.2 | 1108.3 | 878.5 | 581.1 | 451.4 | 382.1 | 364.3 | 367.3 |
| 65° | 890.3 | 910.5 | 784.3 | 648.6 | 482.2 | 389.8 | 337.1 | 326.4 | 322.8 | 318.7 | 318.7 |
| 67.5° | 352.5 | 358.4 | 353.6 | 331.1 | 308.0 | 299.7 | 297.4 | 296.2 | 292.0 | 289.7 | 290.3 |
| 70° | 283.1 | 287.9 | 280.8 | 266.6 | 257.1 | 256.5 | 255.3 | 252.9 | 250.0 | 250.0 | 251.8 |
| 72.5° | 231.0 | 235.8 | 225.7 | 216.8 | 209.7 | 204.4 | 201.4 | 199.6 | 195.5 | 195.5 | 197.3 |
| 75° | 170.0 | 173.0 | 164.7 | 163.5 | 155.8 | 150.5 | 145.7 | 143.4 | 138.0 | 135.7 | 137.4 |
| 77.5° | 113.1 | 112.5 | 108.4 | 108.4 | 105.4 | 98.9 | 93.6 | 88.3 | 81.2 | 76.4 | 77.6 |
| 80° | 73.5 | 73.5 | 71.7 | 71.7 | 68.7 | 63.4 | 56.9 | 51.5 | 47.4 | 43.8 | 43.8 |
| 82.5° | 46.8 | 46.2 | 45.6 | 45.0 | 43.8 | 38.5 | 33.8 | 30.2 | 27.2 | 24.9 | 25.5 |
| 85° | 26.1 | 26.1 | 24.9 | 24.9 | 22.5 | 19.5 | 17.2 | 14.8 | 13.0 | 12.4 | 12.4 |
| 87.5° | 8.9 | 8.9 | 8.3 | 8.3 | 7.1 | 5.3 | 4.1 | 3.6 | 3.0 | 2.4 | 3.0 |
| 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)