

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: P632766

Luminaire Tested: GWS-SA2D-735-U-SLR-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632766
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-41)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-735-U-SLR-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10903.9 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

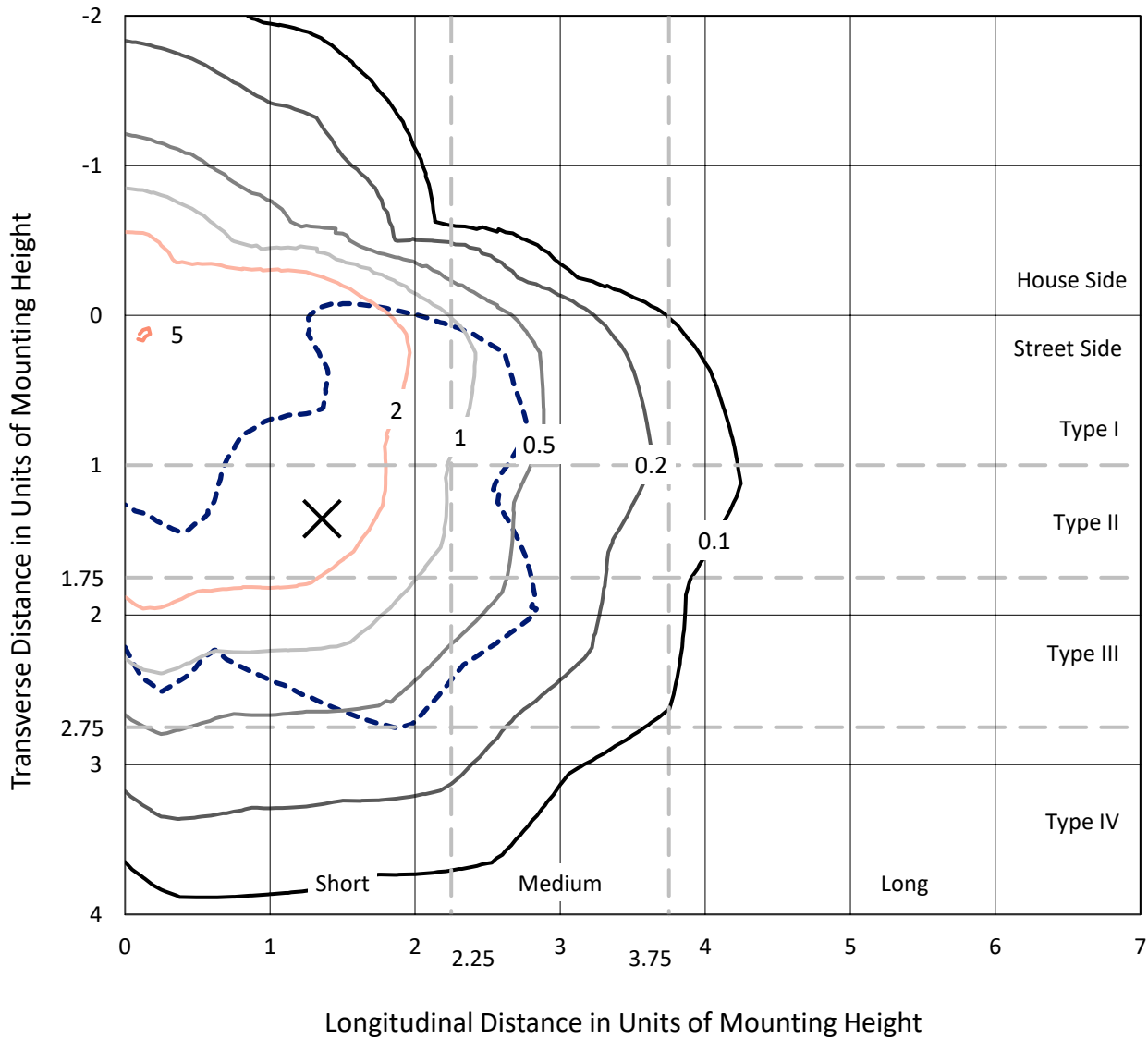
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

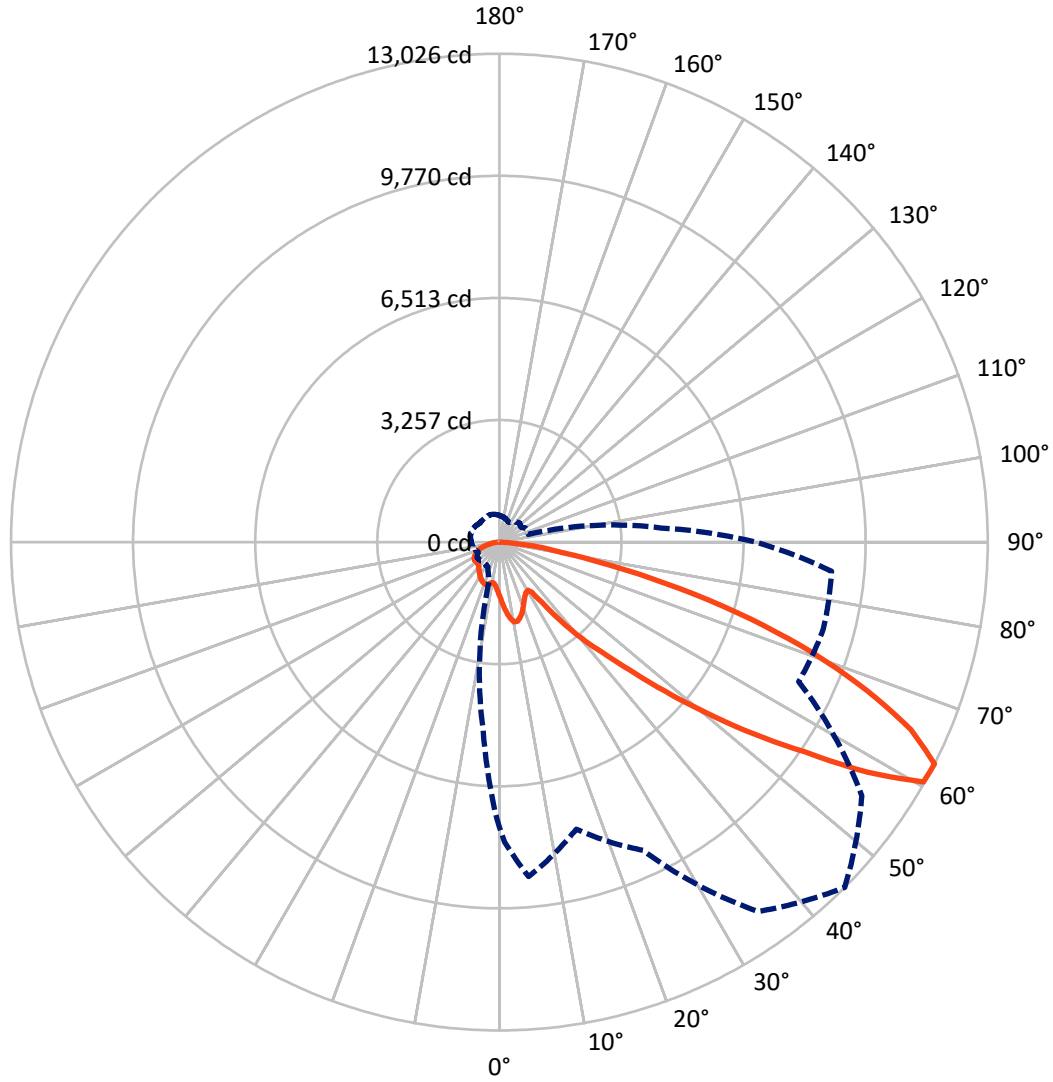
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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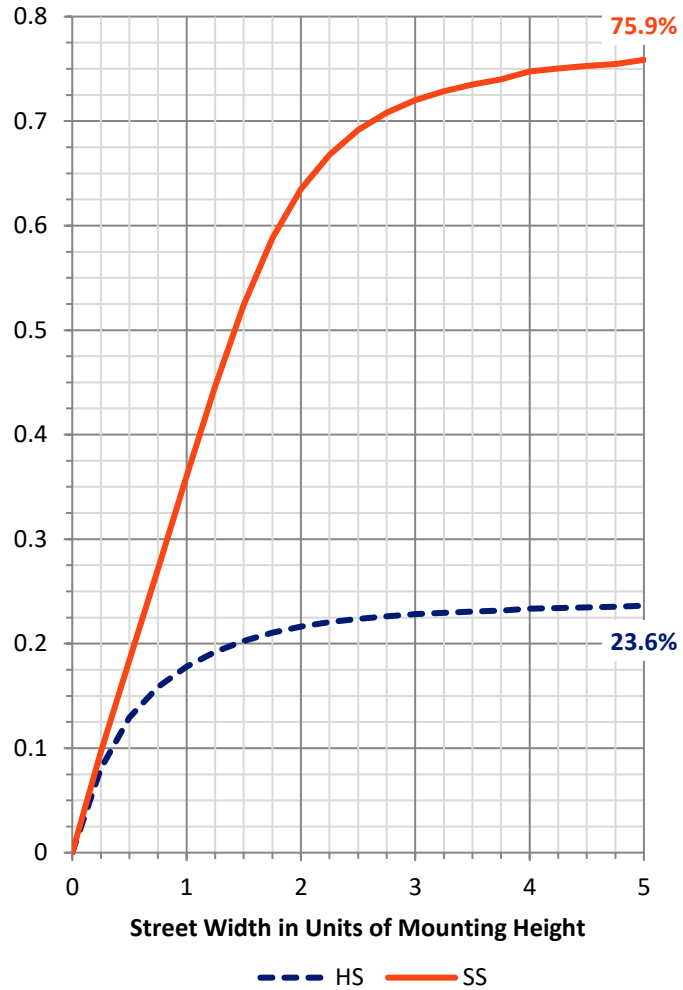
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2601.9 | 0.0 | 2601.9 |
| | % Fixture | 23.9 | 0.0 | 23.9 |
| Street Side | Lumens | 8302.0 | 0.0 | 8302.0 |
| | % Fixture | 76.1 | 0.0 | 76.1 |
| Total | Lumens | 10903.9 | 0.0 | 10903.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 141.3 | 1.3 |
| 10°-20° | 443.1 | 4.1 |
| 20°-30° | 688.2 | 6.3 |
| 30°-40° | 934.4 | 8.6 |
| 40°-50° | 1480.9 | 13.6 |
| 50°-60° | 2612.3 | 24.0 |
| 60°-70° | 2906.5 | 26.7 |
| 70°-80° | 1474.1 | 13.5 |
| 80°-90° | 223.2 | 2.0 |
| 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° | 10903.9 | 100.0 |
| 0°-180° | 10903.9 | 100.0 |

Coefficient of Utilization



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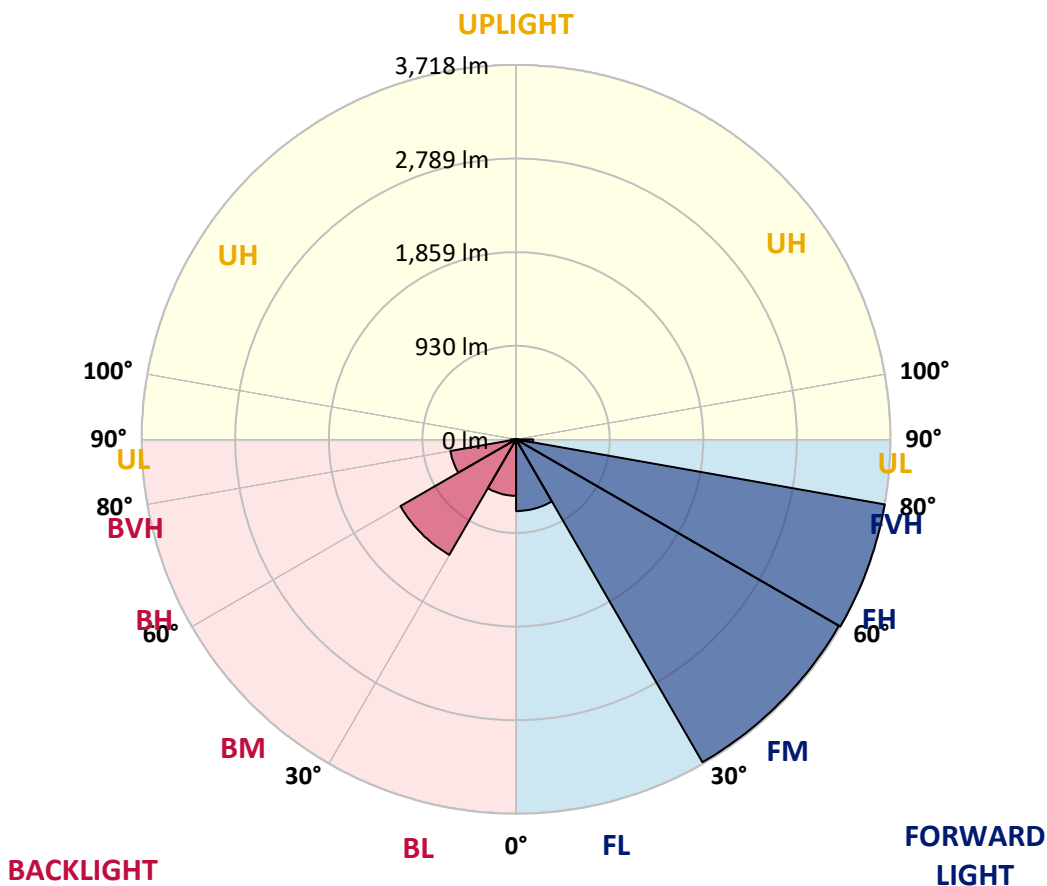
CATALOG NUMBER: GWS-SA2D-735-U-SLR-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 711.9 | 6.5 | | | |
| FM (30°-60°) | 3702.3 | 34.0 | | | |
| FH (60°-80°) | 3718.3 | 34.1 | | | G2/5000 |
| FVH (80°-90°) | 169.4 | 1.6 | | | G2/225 |
| BL (0°-30°) | 560.6 | 5.1 | B2/1000 | | |
| BM (30°-60°) | 1325.1 | 12.2 | B2/2500 | | |
| BH (60°-80°) | 662.3 | 6.1 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 53.8 | 0.5 | | | 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° | 1447.2 | 1447.2 | 1447.2 | 1447.2 | 1447.2 | 1447.2 | 1447.2 | 1447.2 | 1447.2 | 1447.2 | 1447.2 |
| 2.5° | 1555.3 | 1554.5 | 1570.2 | 1594.1 | 1616.4 | 1626.3 | 1642.8 | 1641.2 | 1628.0 | 1610.6 | 1604.8 |
| 5° | 1677.5 | 1680.8 | 1708.0 | 1760.9 | 1819.5 | 1844.3 | 1855.0 | 1850.9 | 1826.9 | 1796.4 | 1742.7 |
| 7.5° | 1788.1 | 1793.9 | 1836.0 | 1915.3 | 1987.9 | 2020.9 | 2047.3 | 2042.4 | 2007.7 | 1950.7 | 1871.5 |
| 10° | 1869.0 | 1875.6 | 1926.0 | 2019.3 | 2100.2 | 2129.1 | 2162.9 | 2164.6 | 2134.0 | 2057.2 | 1976.3 |
| 12.5° | 1949.9 | 1956.5 | 2003.6 | 2088.6 | 2141.4 | 2142.3 | 2162.1 | 2172.8 | 2174.5 | 2139.0 | 2058.1 |
| 15° | 2034.1 | 2039.9 | 2082.8 | 2130.7 | 2128.2 | 2082.0 | 2082.0 | 2102.6 | 2148.1 | 2173.6 | 2117.5 |
| 17.5° | 2106.0 | 2113.4 | 2146.4 | 2130.7 | 2057.2 | 1973.9 | 1964.0 | 1990.4 | 2069.6 | 2167.9 | 2162.1 |
| 20° | 2165.4 | 2171.2 | 2189.3 | 2085.3 | 1951.6 | 1842.6 | 1823.6 | 1854.2 | 1961.5 | 2132.4 | 2195.9 |
| 22.5° | 2222.4 | 2225.7 | 2215.7 | 2025.9 | 1837.7 | 1713.0 | 1689.9 | 1722.1 | 1837.7 | 2069.6 | 2224.8 |
| 25° | 2290.0 | 2286.7 | 2239.7 | 1964.0 | 1733.6 | 1610.6 | 1586.7 | 1623.0 | 1743.5 | 1986.2 | 2256.2 |
| 27.5° | 2368.5 | 2356.1 | 2260.3 | 1897.1 | 1653.6 | 1534.7 | 1518.2 | 1557.0 | 1669.2 | 1909.5 | 2281.0 |
| 30° | 2435.3 | 2411.4 | 2263.6 | 1837.7 | 1612.3 | 1502.5 | 1492.6 | 1528.9 | 1632.9 | 1857.5 | 2312.3 |
| 32.5° | 2509.6 | 2476.6 | 2282.6 | 1822.0 | 1635.4 | 1580.1 | 1593.3 | 1595.8 | 1642.8 | 1842.6 | 2359.4 |
| 35° | 2616.1 | 2573.2 | 2334.6 | 1867.4 | 1873.1 | 1966.4 | 2014.3 | 1949.9 | 1792.2 | 1875.6 | 2448.5 |
| 37.5° | 2777.1 | 2722.6 | 2440.3 | 2063.8 | 2364.3 | 2573.2 | 2688.8 | 2541.8 | 2246.3 | 2000.3 | 2583.1 |
| 40° | 2972.8 | 2903.4 | 2575.7 | 2427.1 | 2823.3 | 3157.7 | 3363.2 | 3147.8 | 2713.5 | 2311.5 | 2772.2 |
| 42.5° | 3246.0 | 3173.4 | 2838.2 | 2783.7 | 3248.5 | 3746.3 | 4014.6 | 3693.5 | 3125.5 | 2713.5 | 3075.1 |
| 45° | 3722.4 | 3652.2 | 3319.5 | 3141.2 | 3746.3 | 4471.1 | 4847.6 | 4400.9 | 3544.0 | 3117.2 | 3641.5 |
| 47.5° | 4602.4 | 4519.8 | 4034.4 | 3537.4 | 4314.3 | 5412.2 | 5938.9 | 5288.4 | 3979.1 | 3579.5 | 4592.5 |
| 50° | 5659.1 | 5579.8 | 4931.8 | 4006.3 | 4941.7 | 6418.6 | 7150.8 | 6331.1 | 4480.2 | 4141.7 | 5729.2 |
| 52.5° | 6930.4 | 6915.5 | 6212.2 | 4599.1 | 5594.7 | 7491.8 | 8495.6 | 7486.0 | 5029.2 | 4898.7 | 7017.1 |
| 55° | 8076.2 | 8221.5 | 7838.5 | 5503.0 | 6438.4 | 8839.9 | 9878.4 | 8745.8 | 5773.8 | 6150.3 | 8525.3 |
| 57.5° | 8693.8 | 9084.2 | 9672.8 | 7347.3 | 7665.1 | 10451.3 | 11584.8 | 10283.7 | 7053.4 | 8233.9 | 9923.8 |
| 60° | 8285.9 | 8728.4 | 9795.0 | 8735.9 | 8882.0 | 11742.5 | 12993.2 | 11576.5 | 8309.9 | 9680.3 | 9844.6 |
| 62.5° | 7607.3 | 8004.4 | 8953.0 | 7925.2 | 9070.2 | 12026.5 | 13026.2 | 11801.9 | 8809.3 | 8946.4 | 8892.7 |
| 65° | 6802.4 | 7202.8 | 8207.5 | 6918.0 | 8471.7 | 11352.0 | 12065.3 | 11139.0 | 7912.0 | 8082.9 | 8102.7 |
| 67.5° | 5733.4 | 6103.2 | 7126.1 | 6151.1 | 7722.1 | 10362.2 | 10590.0 | 10194.6 | 7286.2 | 7558.6 | 7273.8 |
| 70° | 4283.7 | 4617.2 | 5520.4 | 4998.6 | 6509.4 | 9072.7 | 8888.6 | 8947.2 | 6583.7 | 6854.5 | 6076.0 |
| 72.5° | 2927.4 | 3178.3 | 3952.7 | 3927.9 | 4984.6 | 7263.1 | 7006.4 | 7561.9 | 5498.9 | 5858.0 | 4632.1 |
| 75° | 2047.3 | 2243.0 | 2857.2 | 3103.2 | 3767.8 | 5383.3 | 4989.6 | 5659.9 | 4294.5 | 4807.1 | 3379.8 |
| 77.5° | 1256.5 | 1386.1 | 1804.6 | 2299.1 | 2423.8 | 3684.4 | 3099.1 | 4259.0 | 3015.7 | 3506.1 | 2254.5 |
| 80° | 628.2 | 691.0 | 876.7 | 1445.5 | 1607.3 | 2171.2 | 1711.3 | 2472.5 | 2040.7 | 2171.2 | 1247.4 |
| 82.5° | 189.9 | 209.7 | 256.7 | 549.0 | 833.0 | 1249.9 | 1011.3 | 1436.4 | 1114.5 | 1017.9 | 491.2 |
| 85° | 50.4 | 57.0 | 71.0 | 162.6 | 292.2 | 448.3 | 341.8 | 695.9 | 534.1 | 375.6 | 184.9 |
| 87.5° | 4.1 | 4.1 | 3.3 | 3.3 | 1.7 | 0.0 | 0.0 | 49.5 | 99.9 | 57.0 | 32.2 |
| 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-SA2D-735-U-SLR-W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1447.2 | 1447.2 | 1447.2 | 1447.2 | 1447.2 | 1447.2 | 1447.2 | 1447.2 | 1447.2 | 1447.2 | 1447.2 |
| 2.5° | 1576.0 | 1572.7 | 1538.8 | 1514.0 | 1485.1 | 1457.1 | 1428.2 | 1402.6 | 1373.7 | 1344.8 | 1336.5 |
| 5° | 1703.1 | 1680.0 | 1608.2 | 1547.9 | 1488.4 | 1436.4 | 1391.0 | 1344.0 | 1306.0 | 1268.9 | 1254.8 |
| 7.5° | 1815.4 | 1774.9 | 1670.9 | 1579.3 | 1496.7 | 1432.3 | 1365.4 | 1296.9 | 1243.3 | 1190.4 | 1177.2 |
| 10° | 1916.9 | 1863.2 | 1732.0 | 1616.4 | 1524.8 | 1451.3 | 1372.9 | 1281.2 | 1203.6 | 1139.2 | 1121.9 |
| 12.5° | 1992.0 | 1933.4 | 1784.8 | 1651.9 | 1547.9 | 1465.3 | 1387.7 | 1306.8 | 1225.1 | 1141.7 | 1122.7 |
| 15° | 2051.5 | 1990.4 | 1828.6 | 1679.1 | 1548.7 | 1442.2 | 1367.1 | 1339.0 | 1313.4 | 1231.7 | 1197.0 |
| 17.5° | 2099.3 | 2035.0 | 1866.5 | 1695.7 | 1526.4 | 1372.0 | 1306.8 | 1348.1 | 1413.3 | 1362.1 | 1296.9 |
| 20° | 2143.1 | 2077.9 | 1895.4 | 1707.2 | 1476.9 | 1275.5 | 1239.1 | 1326.6 | 1424.9 | 1423.2 | 1364.6 |
| 22.5° | 2191.0 | 2127.4 | 1937.5 | 1713.8 | 1407.5 | 1177.2 | 1198.7 | 1295.3 | 1375.3 | 1399.3 | 1363.0 |
| 25° | 2252.1 | 2195.9 | 1996.2 | 1728.7 | 1329.1 | 1109.5 | 1169.0 | 1254.8 | 1321.7 | 1327.5 | 1306.0 |
| 27.5° | 2323.1 | 2281.0 | 2083.7 | 1763.4 | 1253.2 | 1074.9 | 1134.3 | 1197.9 | 1258.9 | 1261.4 | 1235.8 |
| 30° | 2400.7 | 2372.6 | 2164.6 | 1792.2 | 1196.2 | 1064.1 | 1089.7 | 1140.9 | 1179.7 | 1186.3 | 1164.0 |
| 32.5° | 2499.7 | 2475.0 | 2236.4 | 1773.3 | 1162.4 | 1061.6 | 1048.4 | 1074.9 | 1107.0 | 1107.0 | 1089.7 |
| 35° | 2635.9 | 2601.3 | 2312.3 | 1700.6 | 1121.1 | 1051.7 | 1004.7 | 1012.1 | 1026.1 | 1028.6 | 1018.7 |
| 37.5° | 2829.1 | 2772.2 | 2389.1 | 1557.0 | 1053.4 | 1016.2 | 954.3 | 945.2 | 950.2 | 956.8 | 954.3 |
| 40° | 3068.5 | 2975.2 | 2501.4 | 1384.4 | 972.5 | 947.7 | 902.3 | 885.0 | 880.9 | 894.1 | 899.0 |
| 42.5° | 3369.9 | 3227.0 | 2621.9 | 1223.4 | 899.0 | 869.3 | 841.2 | 826.4 | 819.8 | 842.0 | 855.3 |
| 45° | 3851.1 | 3615.9 | 2737.5 | 1064.1 | 857.7 | 802.4 | 783.4 | 772.7 | 776.0 | 802.4 | 818.9 |
| 47.5° | 4682.5 | 4209.4 | 2847.3 | 963.4 | 854.4 | 754.5 | 731.4 | 733.9 | 743.0 | 771.1 | 790.9 |
| 50° | 5734.2 | 5004.4 | 2920.8 | 921.3 | 864.3 | 725.6 | 695.1 | 708.3 | 722.3 | 749.6 | 772.7 |
| 52.5° | 6804.9 | 5744.9 | 2833.3 | 898.2 | 863.5 | 726.5 | 661.3 | 700.9 | 707.5 | 734.7 | 759.5 |
| 55° | 7541.3 | 5827.5 | 2447.7 | 862.7 | 850.3 | 759.5 | 634.8 | 697.6 | 701.7 | 726.5 | 748.8 |
| 57.5° | 7822.0 | 5545.1 | 1866.5 | 872.6 | 810.7 | 785.1 | 623.3 | 674.5 | 704.2 | 725.6 | 748.8 |
| 60° | 7482.7 | 5012.7 | 1134.3 | 898.2 | 747.1 | 783.4 | 630.7 | 632.4 | 683.5 | 719.9 | 743.0 |
| 62.5° | 6842.9 | 4329.1 | 796.6 | 825.5 | 700.9 | 739.7 | 648.0 | 582.8 | 647.2 | 691.0 | 711.6 |
| 65° | 6109.8 | 3525.1 | 607.6 | 710.8 | 678.6 | 672.0 | 653.8 | 539.1 | 597.7 | 640.6 | 658.8 |
| 67.5° | 5346.2 | 2740.0 | 493.7 | 530.0 | 613.4 | 607.6 | 597.7 | 500.3 | 539.1 | 569.6 | 590.3 |
| 70° | 4384.4 | 1916.9 | 416.9 | 397.9 | 525.9 | 544.9 | 522.6 | 451.6 | 464.0 | 495.3 | 511.8 |
| 72.5° | 3207.2 | 1194.6 | 342.6 | 328.6 | 422.7 | 476.3 | 464.8 | 397.9 | 403.7 | 433.4 | 446.6 |
| 75° | 2306.6 | 683.5 | 274.9 | 270.8 | 322.8 | 407.8 | 384.7 | 342.6 | 349.2 | 371.5 | 380.6 |
| 77.5° | 1466.2 | 380.6 | 212.2 | 217.9 | 231.2 | 304.6 | 328.6 | 293.1 | 293.1 | 306.3 | 313.7 |
| 80° | 785.1 | 217.9 | 155.2 | 157.7 | 161.8 | 232.8 | 259.2 | 227.0 | 227.0 | 217.9 | 227.0 |
| 82.5° | 320.3 | 125.5 | 106.5 | 99.1 | 108.1 | 159.3 | 181.6 | 144.5 | 151.1 | 136.2 | 139.5 |
| 85° | 105.7 | 62.7 | 52.8 | 52.0 | 51.2 | 70.2 | 87.5 | 71.8 | 85.9 | 54.5 | 57.0 |
| 87.5° | 14.0 | 11.6 | 6.6 | 5.0 | 5.8 | 2.5 | 5.0 | 5.8 | 5.8 | 4.1 | 4.1 |
| 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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 CATALOG NUMBER: GWS-SA2D-735-U-SLR-W

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1447.2 | 1447.2 | 1447.2 | 1447.2 | 1447.2 | 1447.2 | 1447.2 | 1447.2 | 1447.2 | 1447.2 | 1447.2 |
| 2.5° | 1330.8 | 1324.2 | 1300.2 | 1306.0 | 1301.9 | 1295.3 | 1301.9 | 1289.5 | 1299.4 | 1302.7 | 1323.3 |
| 5° | 1244.1 | 1228.4 | 1205.3 | 1193.7 | 1191.3 | 1184.6 | 1185.5 | 1179.7 | 1181.3 | 1195.4 | 1218.5 |
| 7.5° | 1166.5 | 1151.6 | 1133.5 | 1125.2 | 1117.8 | 1110.4 | 1109.5 | 1108.7 | 1115.3 | 1127.7 | 1150.0 |
| 10° | 1110.4 | 1102.1 | 1094.7 | 1098.0 | 1094.7 | 1091.4 | 1085.6 | 1085.6 | 1096.3 | 1118.6 | 1145.8 |
| 12.5° | 1110.4 | 1108.7 | 1110.4 | 1120.3 | 1119.4 | 1120.3 | 1112.8 | 1117.0 | 1146.7 | 1184.6 | 1223.4 |
| 15° | 1169.8 | 1156.6 | 1156.6 | 1161.5 | 1159.9 | 1159.9 | 1159.9 | 1177.2 | 1244.9 | 1303.5 | 1344.8 |
| 17.5° | 1242.4 | 1203.6 | 1187.1 | 1184.6 | 1183.8 | 1183.8 | 1187.1 | 1224.3 | 1329.9 | 1391.9 | 1415.8 |
| 20° | 1292.8 | 1219.3 | 1192.1 | 1181.3 | 1182.2 | 1183.8 | 1193.7 | 1244.9 | 1361.3 | 1392.7 | 1386.9 |
| 22.5° | 1301.9 | 1206.9 | 1173.9 | 1158.2 | 1160.7 | 1162.4 | 1177.2 | 1231.7 | 1318.4 | 1323.3 | 1311.8 |
| 25° | 1259.8 | 1172.3 | 1136.8 | 1124.4 | 1127.7 | 1126.9 | 1140.1 | 1179.7 | 1241.6 | 1240.0 | 1233.4 |
| 27.5° | 1197.0 | 1117.0 | 1090.5 | 1082.3 | 1088.1 | 1081.5 | 1085.6 | 1116.1 | 1164.0 | 1162.4 | 1159.9 |
| 30° | 1132.6 | 1063.3 | 1039.4 | 1035.2 | 1042.7 | 1032.7 | 1033.6 | 1059.2 | 1092.2 | 1090.5 | 1089.7 |
| 32.5° | 1068.2 | 1009.6 | 988.2 | 988.2 | 995.6 | 984.9 | 986.5 | 1008.8 | 1031.1 | 1024.5 | 1024.5 |
| 35° | 1007.2 | 965.9 | 948.5 | 945.2 | 951.0 | 943.6 | 946.9 | 967.5 | 975.8 | 966.7 | 960.9 |
| 37.5° | 953.5 | 935.3 | 918.0 | 906.4 | 907.3 | 908.1 | 918.0 | 933.7 | 928.7 | 915.5 | 908.1 |
| 40° | 904.0 | 904.0 | 887.5 | 866.0 | 863.5 | 869.3 | 885.8 | 903.1 | 889.1 | 874.2 | 865.2 |
| 42.5° | 868.5 | 875.9 | 860.2 | 838.7 | 833.8 | 843.7 | 861.9 | 874.2 | 857.7 | 841.2 | 828.8 |
| 45° | 835.4 | 853.6 | 842.9 | 818.9 | 812.3 | 823.9 | 847.0 | 852.0 | 829.7 | 814.0 | 804.9 |
| 47.5° | 812.3 | 837.1 | 829.7 | 806.6 | 796.6 | 813.2 | 837.1 | 836.3 | 808.2 | 791.7 | 784.3 |
| 50° | 795.8 | 827.2 | 826.4 | 806.6 | 795.8 | 816.5 | 837.9 | 827.2 | 796.6 | 779.3 | 771.9 |
| 52.5° | 782.6 | 826.4 | 832.1 | 820.6 | 813.2 | 831.3 | 844.5 | 823.9 | 788.4 | 770.2 | 764.4 |
| 55° | 776.8 | 829.7 | 833.8 | 823.1 | 816.5 | 833.0 | 844.5 | 830.5 | 788.4 | 771.9 | 766.9 |
| 57.5° | 778.5 | 825.5 | 826.4 | 811.5 | 799.9 | 820.6 | 838.7 | 834.6 | 797.5 | 778.5 | 772.7 |
| 60° | 768.6 | 803.2 | 804.9 | 781.8 | 768.6 | 793.3 | 825.5 | 823.1 | 793.3 | 773.5 | 762.8 |
| 62.5° | 735.6 | 766.1 | 766.9 | 745.5 | 726.5 | 762.0 | 797.5 | 796.6 | 769.4 | 749.6 | 737.2 |
| 65° | 680.2 | 712.4 | 720.7 | 700.1 | 685.2 | 723.2 | 760.3 | 758.7 | 731.4 | 713.3 | 700.9 |
| 67.5° | 611.7 | 646.4 | 662.1 | 648.0 | 642.3 | 676.9 | 711.6 | 710.8 | 688.5 | 671.2 | 660.4 |
| 70° | 528.3 | 557.2 | 583.7 | 583.7 | 579.5 | 619.2 | 656.3 | 653.0 | 632.4 | 619.2 | 610.9 |
| 72.5° | 459.0 | 481.3 | 489.5 | 497.8 | 510.2 | 551.5 | 582.8 | 585.3 | 570.4 | 563.8 | 570.4 |
| 75° | 390.5 | 404.5 | 411.9 | 405.3 | 426.8 | 469.7 | 511.0 | 515.1 | 499.5 | 488.7 | 491.2 |
| 77.5° | 321.1 | 336.8 | 344.2 | 329.4 | 327.7 | 382.2 | 432.6 | 441.7 | 428.5 | 411.9 | 416.9 |
| 80° | 232.0 | 252.6 | 265.0 | 255.1 | 251.8 | 275.7 | 345.1 | 355.0 | 342.6 | 329.4 | 336.8 |
| 82.5° | 142.0 | 153.6 | 156.9 | 166.8 | 187.4 | 197.3 | 222.1 | 255.1 | 246.0 | 234.5 | 255.1 |
| 85° | 56.1 | 66.9 | 74.3 | 84.2 | 98.2 | 116.4 | 137.0 | 163.5 | 148.6 | 143.6 | 169.2 |
| 87.5° | 3.3 | 0.8 | 0.0 | 1.7 | 14.0 | 27.2 | 58.6 | 80.9 | 67.7 | 72.6 | 87.5 |
| 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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| 62.5° | 691.8 | 629.9 | 723.2 | 698.4 | 688.5 | 729.8 | 1020.4 | 5007.7 | 7147.5 | 7607.3 |
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| 77.5° | 370.7 | 353.3 | 336.0 | 265.8 | 195.7 | 177.5 | 173.4 | 491.2 | 1131.0 | 1256.5 |
| 80° | 301.3 | 278.2 | 251.0 | 194.8 | 142.8 | 127.1 | 126.3 | 239.4 | 563.8 | 628.2 |
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| 85° | 164.3 | 138.7 | 97.4 | 48.7 | 39.6 | 32.2 | 31.4 | 27.2 | 45.4 | 50.4 |
| 87.5° | 91.6 | 60.3 | 31.4 | 5.8 | 6.6 | 7.4 | 5.8 | 4.1 | 4.1 | 4.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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