

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: P633056

Luminaire Tested: GWS-SA2D-830-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633056
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-830-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8132 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

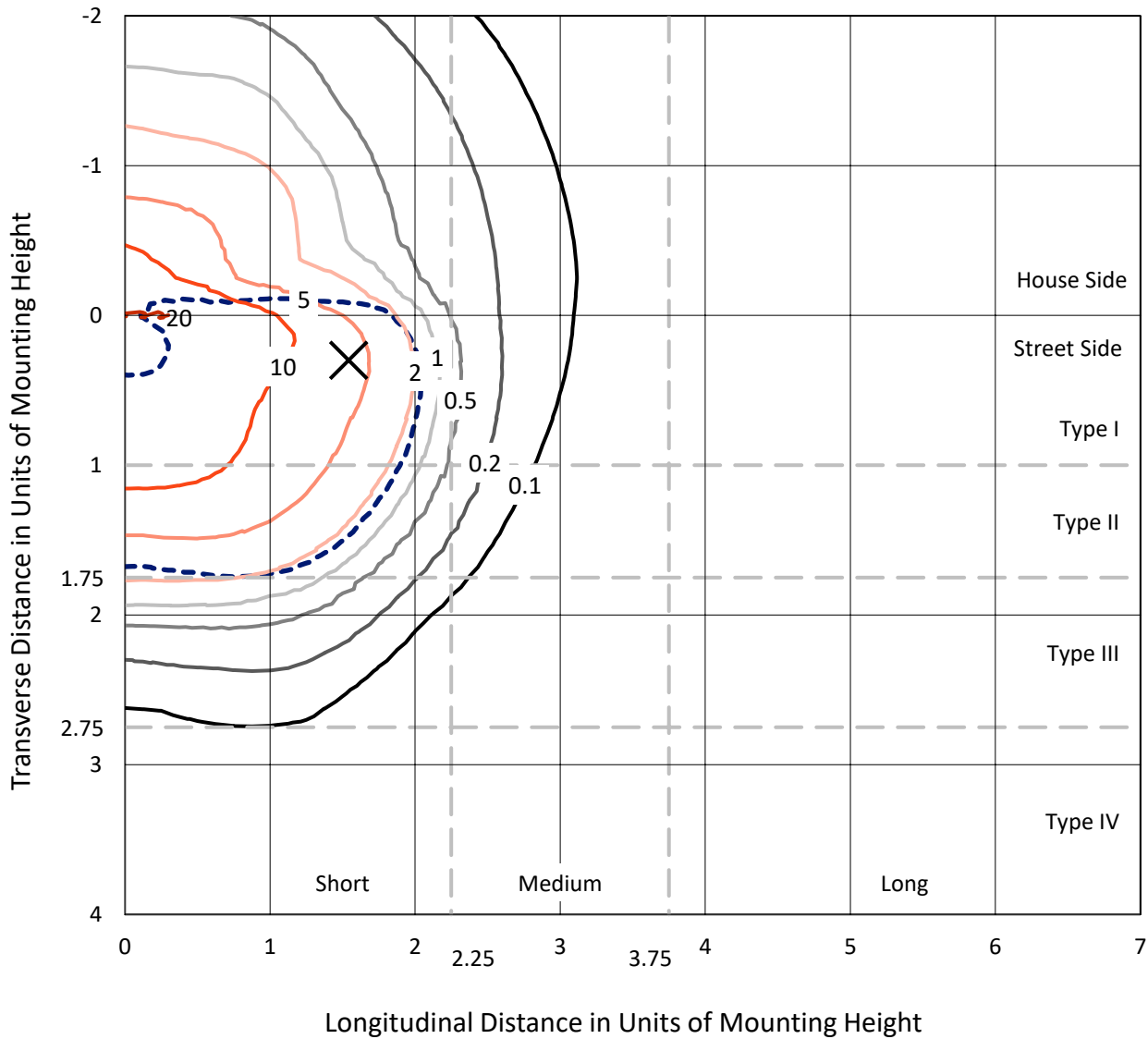
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P633056
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Iso-Footcandle Lines of Horizontal Illumination

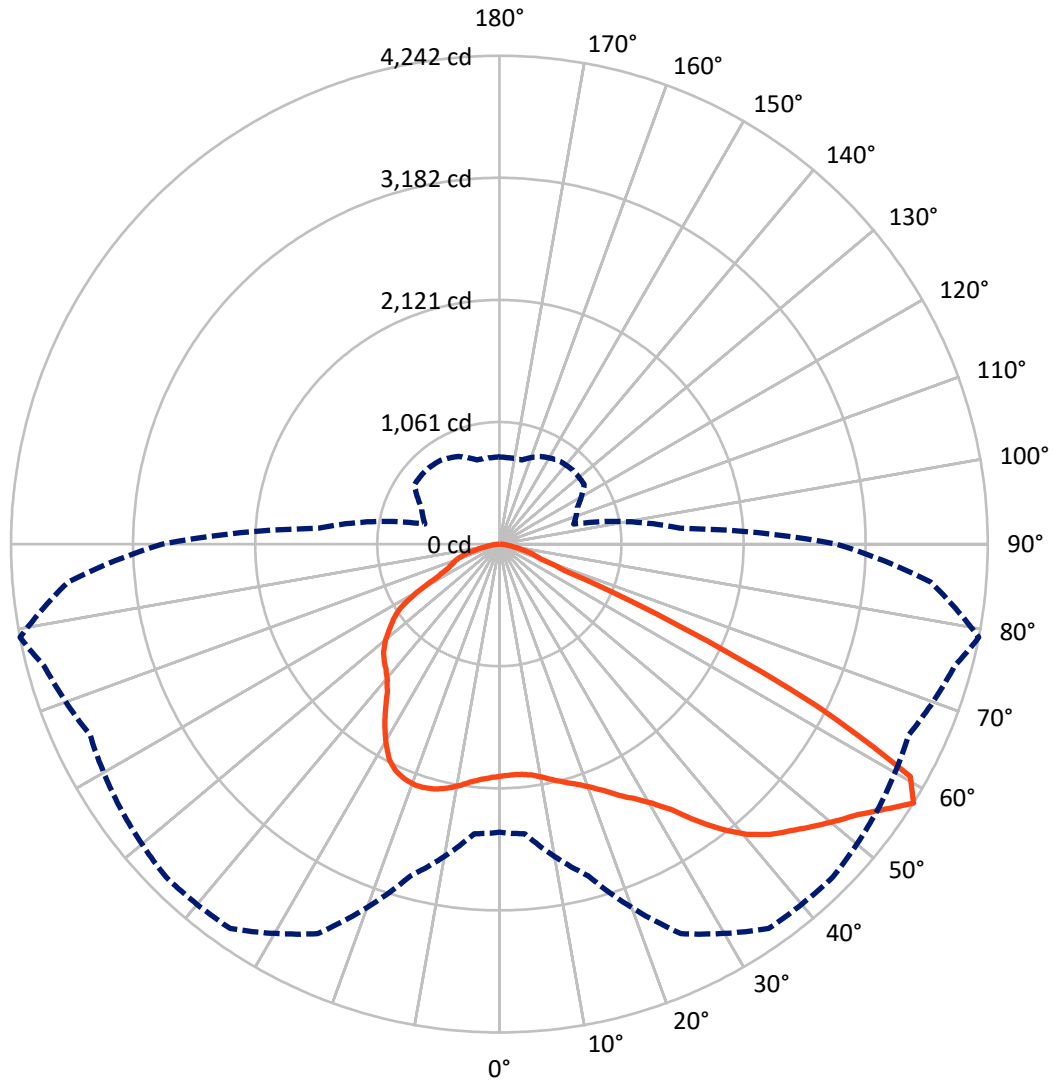
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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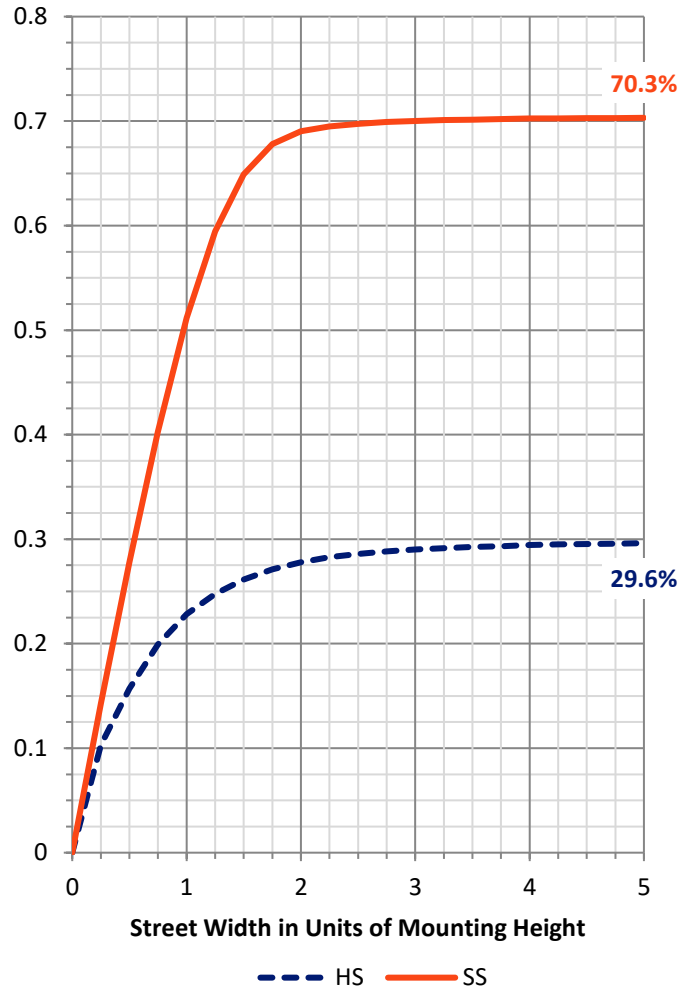
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2417.3 | 0.0 | 2417.3 |
| | % Fixture | 29.7 | 0.0 | 29.7 |
| Street Side | Lumens | 5714.7 | 0.0 | 5714.7 |
| | % Fixture | 70.3 | 0.0 | 70.3 |
| Total | Lumens | 8132.0 | 0.0 | 8132.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 186.6 | 2.3 |
| 10°-20° | 518.7 | 6.4 |
| 20°-30° | 879.1 | 10.8 |
| 30°-40° | 1345.6 | 16.5 |
| 40°-50° | 1794.3 | 22.1 |
| 50°-60° | 2072.3 | 25.5 |
| 60°-70° | 1076.8 | 13.2 |
| 70°-80° | 228.9 | 2.8 |
| 80°-90° | 29.6 | 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° | 8132.0 | 100.0 |
| 0°-180° | 8132.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P633056

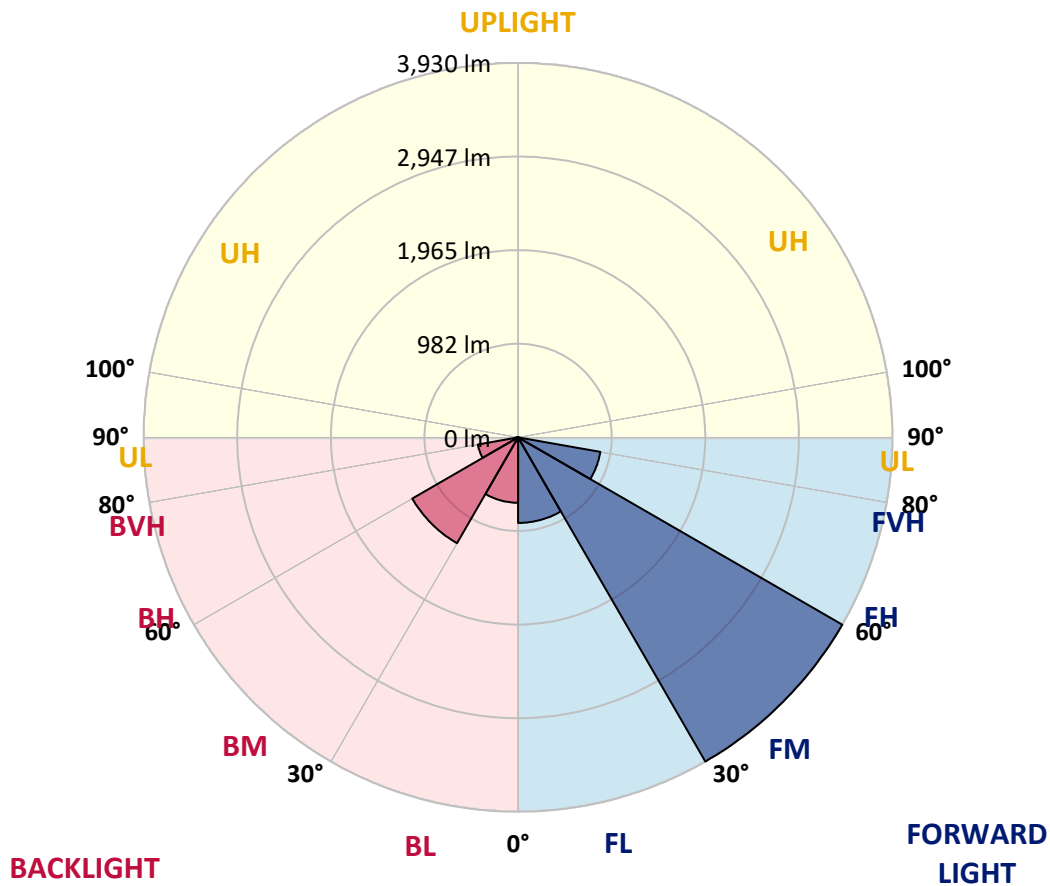
CATALOG NUMBER: GWS-SA2D-830-U-T3R-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 898.0 | 11.0 | | | |
| FM (30°-60°) | 3929.6 | 48.3 | | | |
| FH (60°-80°) | 876.8 | 10.8 | | | G1/1800 |
| FVH (80°-90°) | 10.3 | 0.1 | | | G1/100 |
| BL (0°-30°) | 686.5 | 8.4 | B2/1000 | | |
| BM (30°-60°) | 1282.6 | 15.8 | B2/2500 | | |
| BH (60°-80°) | 428.9 | 5.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 19.3 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1

Type II Short





REPORT NUMBER: P633056

CATALOG NUMBER: GWS-SA2D-830-U-T3R-W-GRSWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2015.3 | 2015.3 | 2015.3 | 2015.3 | 2015.3 | 2015.3 | 2015.3 | 2015.3 | 2015.3 | 2015.3 | 2015.3 |
| 2.5° | 1923.5 | 1919.6 | 1920.9 | 1926.2 | 1946.1 | 1960.8 | 1976.1 | 1990.0 | 2003.3 | 2007.3 | 2010.6 |
| 5° | 1855.1 | 1847.7 | 1849.7 | 1858.4 | 1881.7 | 1906.3 | 1933.5 | 1966.8 | 1998.7 | 2009.3 | 2023.3 |
| 7.5° | 1806.5 | 1805.2 | 1808.5 | 1821.8 | 1846.4 | 1869.7 | 1904.9 | 1952.1 | 2007.3 | 2025.3 | 2049.9 |
| 10° | 1742.0 | 1739.4 | 1752.7 | 1779.9 | 1820.5 | 1857.7 | 1899.6 | 1955.5 | 2032.6 | 2059.2 | 2097.1 |
| 12.5° | 1690.8 | 1689.5 | 1703.5 | 1741.4 | 1793.2 | 1852.4 | 1910.2 | 1972.7 | 2066.5 | 2103.1 | 2149.6 |
| 15° | 1720.7 | 1714.8 | 1715.4 | 1742.0 | 1788.6 | 1858.4 | 1936.8 | 2004.0 | 2100.4 | 2146.9 | 2206.8 |
| 17.5° | 1807.9 | 1797.2 | 1789.2 | 1793.9 | 1820.5 | 1893.0 | 1977.4 | 2045.9 | 2139.6 | 2194.2 | 2267.3 |
| 20° | 1928.2 | 1922.2 | 1900.3 | 1885.6 | 1891.6 | 1955.5 | 2041.2 | 2105.1 | 2190.8 | 2252.0 | 2330.5 |
| 22.5° | 2089.8 | 2075.1 | 2045.2 | 2021.9 | 2004.0 | 2053.9 | 2133.0 | 2188.2 | 2262.0 | 2325.8 | 2407.6 |
| 25° | 2289.9 | 2268.6 | 2221.4 | 2184.8 | 2146.3 | 2197.5 | 2268.0 | 2309.8 | 2359.7 | 2418.9 | 2496.7 |
| 27.5° | 2494.0 | 2476.1 | 2423.5 | 2374.3 | 2326.5 | 2358.4 | 2442.2 | 2466.1 | 2460.8 | 2504.0 | 2570.5 |
| 30° | 2711.4 | 2688.8 | 2639.0 | 2585.8 | 2523.9 | 2544.6 | 2619.7 | 2631.7 | 2575.1 | 2611.0 | 2656.3 |
| 32.5° | 2940.8 | 2918.9 | 2875.7 | 2813.8 | 2744.0 | 2752.0 | 2772.6 | 2783.9 | 2730.1 | 2750.7 | 2785.2 |
| 35° | 3174.2 | 3153.6 | 3109.7 | 3048.5 | 2997.3 | 2948.8 | 2896.9 | 2942.2 | 2910.9 | 2950.8 | 2948.1 |
| 37.5° | 3387.6 | 3367.0 | 3339.8 | 3292.6 | 3204.8 | 3109.1 | 2989.4 | 3045.2 | 3093.8 | 3144.3 | 3135.6 |
| 40° | 3531.9 | 3518.0 | 3524.6 | 3517.3 | 3404.3 | 3214.8 | 3034.6 | 3095.8 | 3228.1 | 3314.5 | 3309.8 |
| 42.5° | 3656.3 | 3642.3 | 3680.9 | 3708.8 | 3575.8 | 3312.5 | 3056.5 | 3115.0 | 3313.8 | 3448.8 | 3442.2 |
| 45° | 3711.4 | 3707.5 | 3771.3 | 3859.7 | 3732.7 | 3416.2 | 3113.0 | 3154.9 | 3379.0 | 3551.9 | 3526.6 |
| 47.5° | 3645.6 | 3659.6 | 3785.2 | 3934.9 | 3863.0 | 3539.2 | 3228.7 | 3239.4 | 3464.1 | 3663.6 | 3592.4 |
| 50° | 3514.6 | 3545.2 | 3714.8 | 3936.8 | 3958.1 | 3678.2 | 3389.0 | 3362.4 | 3578.5 | 3782.6 | 3627.0 |
| 52.5° | 3323.8 | 3355.7 | 3632.3 | 3921.6 | 4012.6 | 3839.1 | 3602.4 | 3564.5 | 3722.7 | 3901.6 | 3633.0 |
| 55° | 2885.6 | 2928.9 | 3443.5 | 3887.0 | 4065.8 | 3985.4 | 3843.1 | 3766.0 | 3908.9 | 4065.2 | 3692.2 |
| 57.5° | 2503.3 | 2525.9 | 2983.4 | 3733.4 | 4076.5 | 4093.1 | 4014.6 | 3922.9 | 4093.8 | 4242.0 | 3758.7 |
| 60° | 1837.1 | 1842.4 | 2254.0 | 3089.1 | 3750.0 | 4030.6 | 4000.7 | 3864.4 | 4006.0 | 4100.4 | 3454.1 |
| 62.5° | 1037.9 | 1038.6 | 1367.0 | 2061.8 | 2801.2 | 3285.2 | 3303.9 | 3183.5 | 3064.5 | 3092.4 | 2404.3 |
| 65° | 389.6 | 426.2 | 624.3 | 1013.3 | 1615.0 | 1939.5 | 2016.6 | 2044.6 | 1846.4 | 1723.4 | 1289.2 |
| 67.5° | 260.6 | 269.3 | 364.4 | 521.3 | 718.8 | 829.8 | 928.2 | 930.9 | 680.9 | 607.0 | 508.0 |
| 70° | 198.8 | 207.4 | 286.6 | 373.0 | 364.4 | 336.4 | 363.7 | 353.7 | 365.7 | 375.7 | 386.3 |
| 72.5° | 148.3 | 156.9 | 222.1 | 263.3 | 218.8 | 215.4 | 244.0 | 271.3 | 296.5 | 307.2 | 323.8 |
| 75° | 98.4 | 105.1 | 149.6 | 141.0 | 121.0 | 143.0 | 178.2 | 205.5 | 220.1 | 232.7 | 245.3 |
| 77.5° | 62.5 | 67.2 | 79.8 | 64.5 | 67.2 | 83.8 | 103.7 | 128.3 | 142.3 | 154.9 | 161.6 |
| 80° | 28.6 | 27.9 | 27.3 | 30.6 | 37.9 | 49.2 | 62.5 | 77.1 | 87.8 | 93.1 | 97.1 |
| 82.5° | 11.3 | 12.6 | 14.0 | 16.6 | 20.6 | 26.6 | 35.2 | 45.2 | 53.9 | 55.2 | 58.5 |
| 85° | 4.7 | 5.3 | 6.0 | 7.3 | 9.3 | 12.0 | 14.6 | 20.6 | 25.9 | 27.9 | 29.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 1.3 | 2.0 | 3.3 | 6.0 | 6.6 | 7.3 |
| 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: P633056

CATALOG NUMBER: GWS-SA2D-830-U-T3R-W-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2015.3 | 2015.3 | 2015.3 | 2015.3 | 2015.3 | 2015.3 | 2015.3 | 2015.3 | 2015.3 | 2015.3 | 2015.3 |
| 2.5° | 2028.6 | 2020.0 | 2034.6 | 2044.6 | 2053.9 | 2043.9 | 2040.6 | 2031.9 | 2030.6 | 2030.6 | 2035.2 |
| 5° | 2047.2 | 2041.2 | 2056.5 | 2062.5 | 2061.8 | 2039.9 | 2026.6 | 2009.3 | 2000.7 | 2000.7 | 2002.0 |
| 7.5° | 2080.5 | 2077.1 | 2085.8 | 2076.5 | 2055.2 | 2010.6 | 1966.8 | 1930.2 | 1905.6 | 1893.0 | 1896.9 |
| 10° | 2135.6 | 2131.7 | 2124.3 | 2089.8 | 2028.6 | 1936.2 | 1846.4 | 1779.9 | 1740.0 | 1717.4 | 1718.8 |
| 12.5° | 2189.5 | 2182.9 | 2156.9 | 2080.5 | 1954.8 | 1807.9 | 1690.2 | 1615.7 | 1571.8 | 1545.2 | 1539.2 |
| 15° | 2248.7 | 2231.4 | 2175.5 | 2032.6 | 1834.4 | 1650.9 | 1527.9 | 1447.5 | 1400.3 | 1384.3 | 1383.6 |
| 17.5° | 2305.2 | 2274.6 | 2173.5 | 1947.5 | 1690.2 | 1486.7 | 1363.0 | 1313.2 | 1305.2 | 1312.5 | 1314.5 |
| 20° | 2362.4 | 2313.2 | 2151.6 | 1829.8 | 1518.6 | 1323.1 | 1259.3 | 1279.9 | 1309.8 | 1329.8 | 1334.4 |
| 22.5° | 2421.5 | 2345.1 | 2101.7 | 1678.2 | 1337.8 | 1212.8 | 1239.4 | 1284.6 | 1321.8 | 1348.4 | 1351.1 |
| 25° | 2488.0 | 2375.0 | 2027.3 | 1492.7 | 1192.8 | 1182.2 | 1234.7 | 1282.6 | 1322.5 | 1353.1 | 1358.4 |
| 27.5° | 2525.9 | 2375.7 | 1922.9 | 1301.9 | 1126.3 | 1170.2 | 1223.4 | 1268.6 | 1308.5 | 1341.8 | 1347.7 |
| 30° | 2563.2 | 2357.7 | 1757.3 | 1146.9 | 1107.1 | 1156.3 | 1204.1 | 1246.0 | 1283.9 | 1316.5 | 1323.8 |
| 32.5° | 2615.7 | 2341.1 | 1566.5 | 1057.8 | 1095.7 | 1143.0 | 1182.2 | 1219.4 | 1248.7 | 1263.3 | 1267.3 |
| 35° | 2680.9 | 2319.8 | 1363.7 | 1019.3 | 1088.4 | 1132.3 | 1166.9 | 1186.8 | 1148.9 | 1141.0 | 1149.6 |
| 37.5° | 2771.9 | 2299.9 | 1161.6 | 1002.7 | 1083.8 | 1128.3 | 1158.9 | 1107.7 | 1061.2 | 1042.6 | 1049.2 |
| 40° | 2870.4 | 2288.6 | 1024.6 | 989.4 | 1085.8 | 1132.3 | 1125.7 | 1049.9 | 982.7 | 943.5 | 942.2 |
| 42.5° | 2954.1 | 2271.3 | 936.8 | 980.7 | 1091.1 | 1147.6 | 1080.5 | 998.7 | 898.9 | 875.7 | 876.3 |
| 45° | 3010.6 | 2227.4 | 890.3 | 971.4 | 1095.7 | 1150.9 | 1059.2 | 928.2 | 857.1 | 842.4 | 841.8 |
| 47.5° | 3033.9 | 2147.6 | 860.4 | 956.8 | 1095.1 | 1123.7 | 1016.0 | 898.9 | 827.8 | 823.8 | 826.5 |
| 50° | 3018.6 | 2016.6 | 829.8 | 928.2 | 1079.1 | 1095.1 | 966.1 | 873.0 | 807.8 | 829.8 | 845.7 |
| 52.5° | 2962.1 | 1847.1 | 793.2 | 889.0 | 1050.5 | 1062.5 | 940.8 | 857.1 | 793.2 | 822.5 | 835.1 |
| 55° | 2947.5 | 1709.4 | 746.7 | 837.8 | 1008.0 | 1004.7 | 914.2 | 849.1 | 783.2 | 771.9 | 773.9 |
| 57.5° | 2928.2 | 1575.1 | 669.5 | 746.0 | 900.3 | 905.6 | 889.0 | 839.8 | 757.3 | 754.0 | 757.3 |
| 60° | 2543.9 | 1207.4 | 597.1 | 643.6 | 739.4 | 768.0 | 860.4 | 822.5 | 715.4 | 701.5 | 700.8 |
| 62.5° | 1661.6 | 731.4 | 531.3 | 561.2 | 602.4 | 635.6 | 784.6 | 772.6 | 669.5 | 660.9 | 666.9 |
| 65° | 893.6 | 521.3 | 483.4 | 501.3 | 523.9 | 549.2 | 650.3 | 688.2 | 605.1 | 574.5 | 575.1 |
| 67.5° | 456.8 | 443.5 | 447.5 | 460.1 | 477.4 | 490.0 | 524.6 | 557.8 | 516.0 | 490.0 | 489.4 |
| 70° | 391.0 | 401.6 | 407.6 | 414.9 | 426.2 | 424.2 | 427.5 | 433.5 | 430.2 | 417.6 | 416.9 |
| 72.5° | 333.1 | 349.7 | 351.1 | 352.4 | 356.4 | 347.1 | 341.1 | 331.1 | 331.8 | 333.8 | 334.4 |
| 75° | 253.3 | 269.3 | 273.3 | 271.3 | 275.3 | 263.3 | 255.3 | 245.3 | 233.4 | 231.4 | 232.7 |
| 77.5° | 164.9 | 177.5 | 183.5 | 182.2 | 184.2 | 174.9 | 170.9 | 160.2 | 146.3 | 141.0 | 141.0 |
| 80° | 99.7 | 107.0 | 111.7 | 113.0 | 115.0 | 108.4 | 101.7 | 92.4 | 86.4 | 80.5 | 80.5 |
| 82.5° | 60.5 | 65.2 | 68.5 | 68.5 | 70.5 | 63.2 | 57.8 | 51.2 | 48.5 | 43.2 | 43.2 |
| 85° | 30.6 | 33.9 | 35.2 | 34.6 | 33.2 | 27.3 | 25.3 | 21.9 | 20.6 | 18.0 | 18.0 |
| 87.5° | 7.3 | 9.3 | 9.3 | 6.6 | 6.6 | 3.3 | 2.0 | 0.7 | 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)