

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: P633582

Luminaire Tested: GWS-SA2F-722-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-722-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9415.2 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

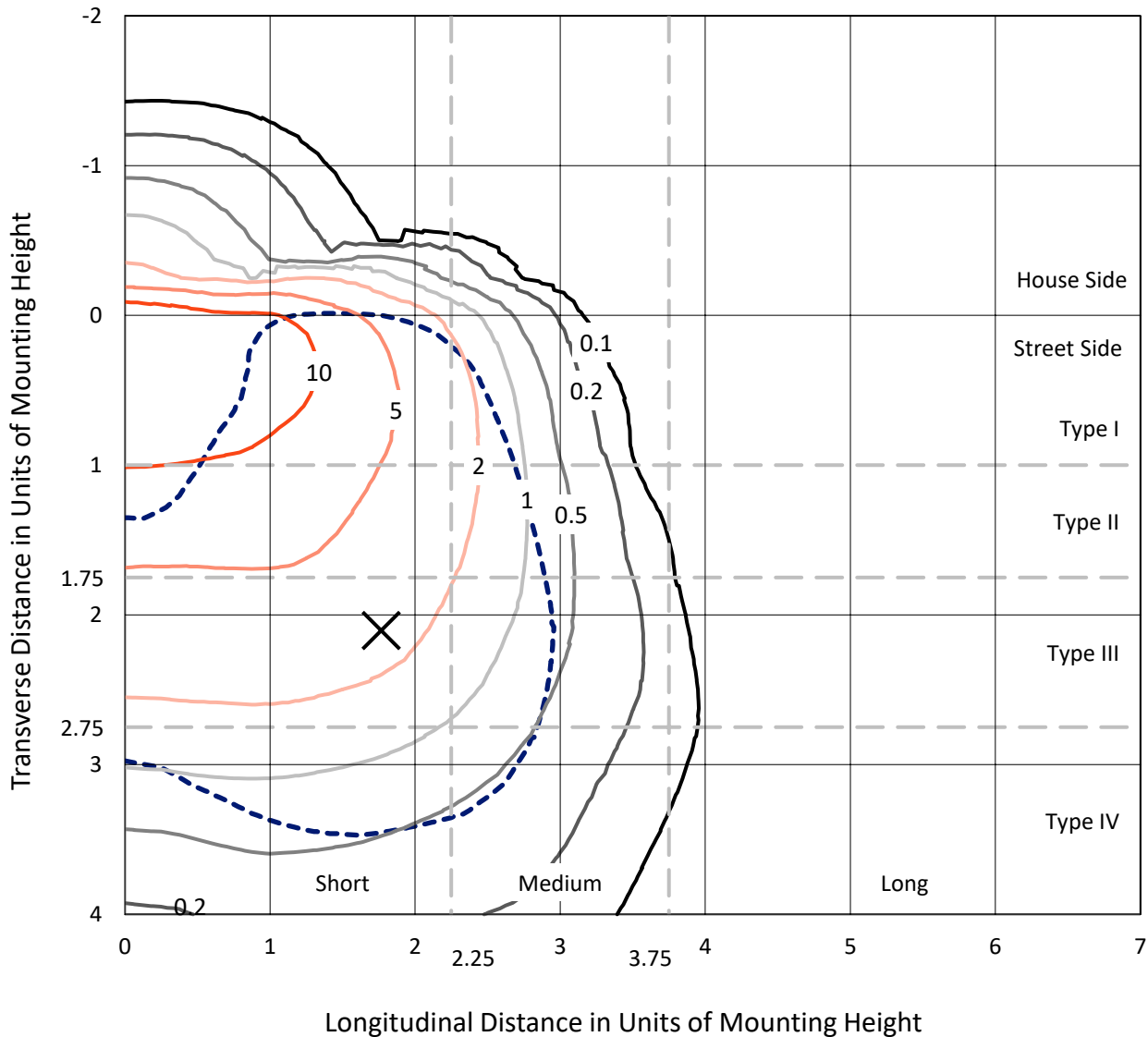
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P633582
 CATALOG NUMBER: GWS-SA2F-722-U-SL4-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

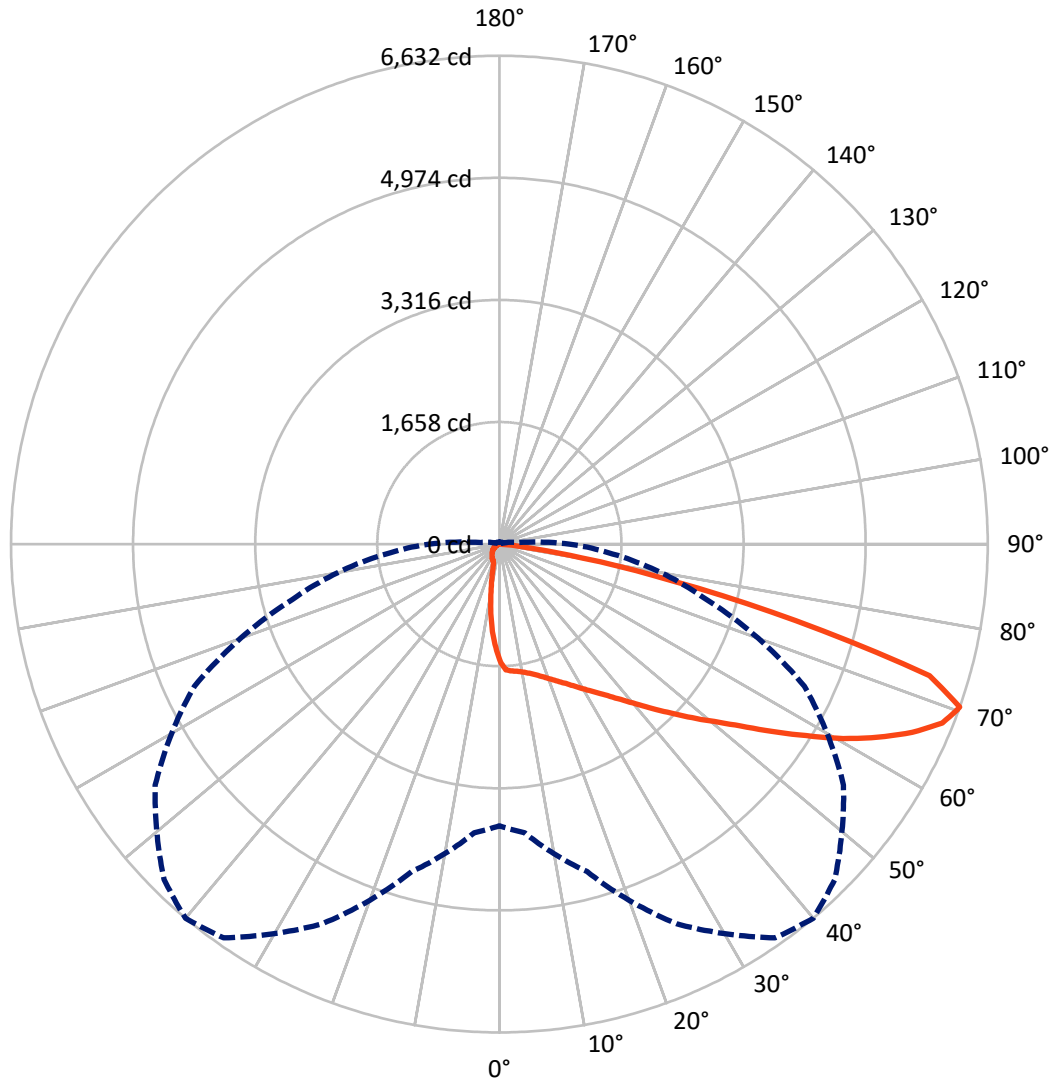
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P633582
CATALOG NUMBER: GWS-SA2F-722-U-SL4-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P633582

CATALOG NUMBER: GWS-SA2F-722-U-SL4-W-HSS

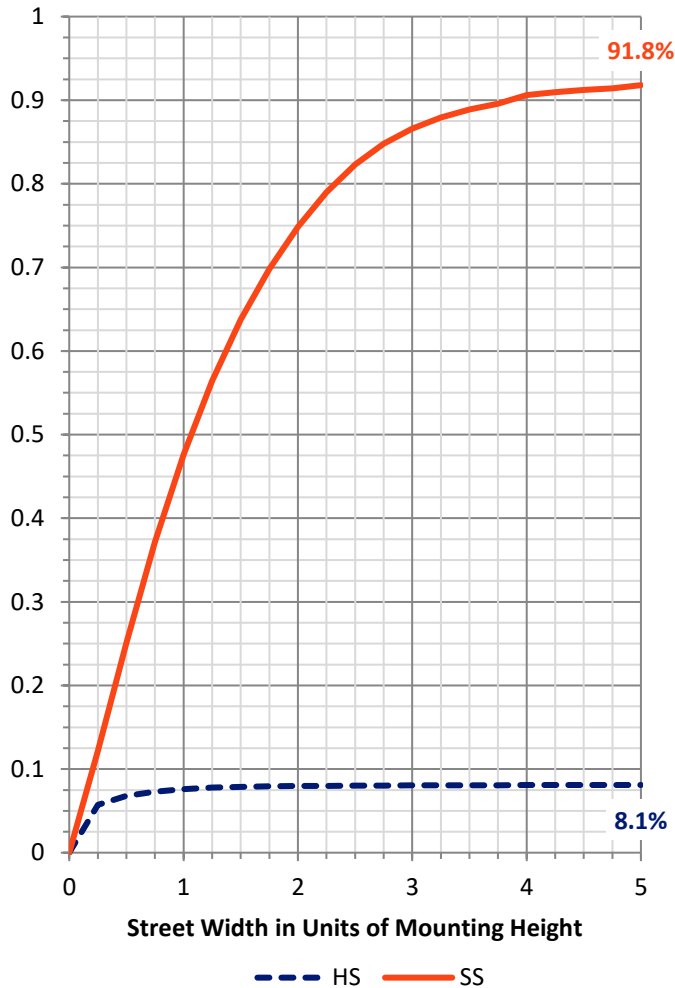
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 769.9 | 0.0 | 769.9 |
| | % Fixture | 8.2 | 0.0 | 8.2 |
| Street Side | Lumens | 8645.3 | 0.0 | 8645.3 |
| | % Fixture | 91.8 | 0.0 | 91.8 |
| Total | Lumens | 9415.2 | 0.0 | 9415.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 135.0 | 1.4 |
| 10°-20° | 342.5 | 3.6 |
| 20°-30° | 573.2 | 6.1 |
| 30°-40° | 900.3 | 9.6 |
| 40°-50° | 1424.0 | 15.1 |
| 50°-60° | 2077.3 | 22.1 |
| 60°-70° | 2575.1 | 27.4 |
| 70°-80° | 1302.8 | 13.8 |
| 80°-90° | 85.1 | 0.9 |
| 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° | 9415.2 | 100.0 |
| 0°-180° | 9415.2 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P633582

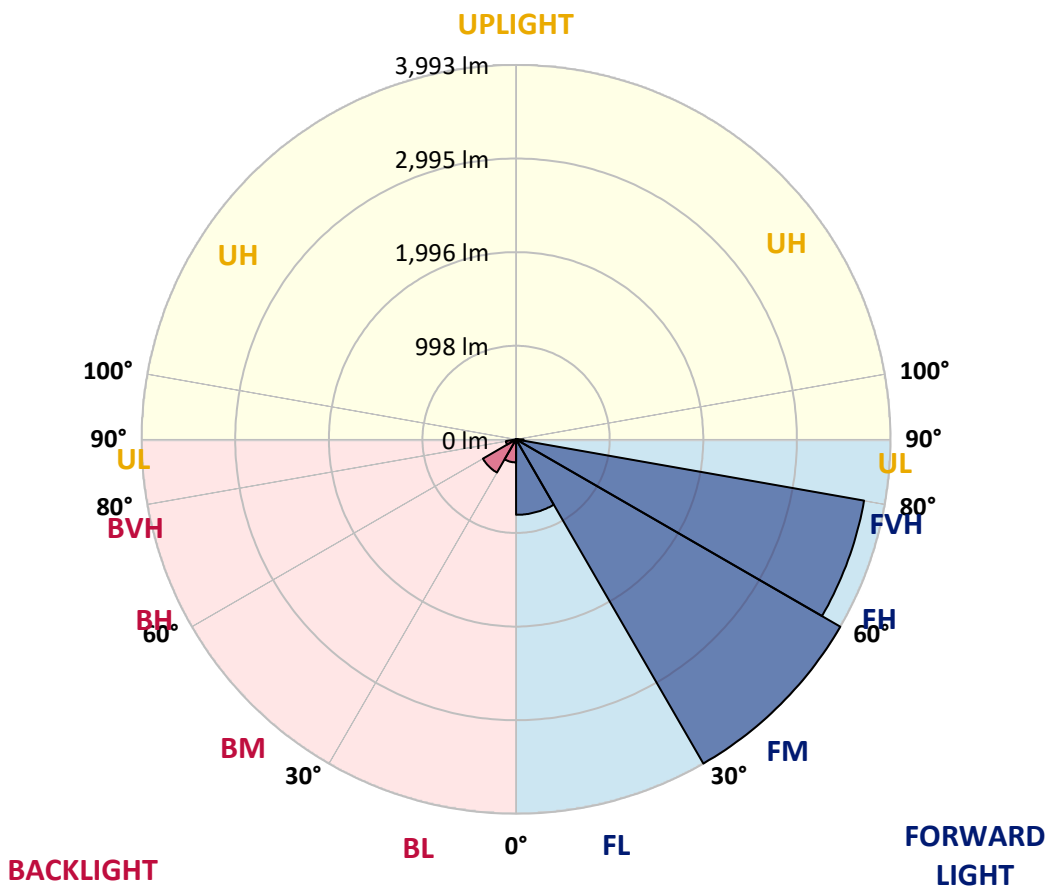
CATALOG NUMBER: GWS-SA2F-722-U-SL4-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 804.8 | 8.5 | | | |
| FM (30°-60°) | 3992.9 | 42.4 | | | |
| FH (60°-80°) | 3768.1 | 40.0 | | | G2/5000 |
| FVH (80°-90°) | 79.4 | 0.8 | | | G1/100 |
| BL (0°-30°) | 245.9 | 2.6 | B1/500 | | |
| BM (30°-60°) | 408.7 | 4.3 | B1/1000 | | |
| BH (60°-80°) | 109.8 | 1.2 | B0/110 | | G0/110 |
| BVH (80°-90°) | 5.6 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P633582

CATALOG NUMBER: GWS-SA2F-722-U-SL4-W-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1597.6 | 1597.6 | 1597.6 | 1597.6 | 1597.6 | 1597.6 | 1597.6 | 1597.6 | 1597.6 | 1597.6 | 1597.6 |
| 2.5° | 1717.6 | 1723.6 | 1722.7 | 1725.3 | 1719.3 | 1709.9 | 1708.2 | 1695.3 | 1672.2 | 1643.0 | 1610.5 |
| 5° | 1752.7 | 1759.6 | 1754.4 | 1751.8 | 1740.7 | 1730.4 | 1727.9 | 1714.2 | 1687.6 | 1648.2 | 1591.7 |
| 7.5° | 1782.7 | 1784.4 | 1781.0 | 1775.0 | 1758.7 | 1745.0 | 1735.6 | 1716.7 | 1685.0 | 1645.6 | 1580.5 |
| 10° | 1787.8 | 1787.0 | 1788.7 | 1789.5 | 1779.3 | 1767.3 | 1759.6 | 1733.9 | 1693.6 | 1651.6 | 1581.4 |
| 12.5° | 1781.8 | 1781.8 | 1793.0 | 1805.8 | 1805.8 | 1799.8 | 1792.1 | 1769.0 | 1721.9 | 1672.2 | 1598.5 |
| 15° | 1789.5 | 1792.1 | 1813.5 | 1837.5 | 1845.2 | 1839.2 | 1835.8 | 1811.8 | 1763.0 | 1708.2 | 1629.3 |
| 17.5° | 1816.9 | 1819.5 | 1853.8 | 1889.8 | 1899.2 | 1892.3 | 1885.5 | 1861.5 | 1809.2 | 1749.3 | 1664.5 |
| 20° | 1857.2 | 1864.1 | 1907.8 | 1954.0 | 1962.6 | 1954.0 | 1940.3 | 1906.9 | 1854.6 | 1793.8 | 1697.9 |
| 22.5° | 1930.9 | 1935.2 | 1982.3 | 2031.1 | 2035.4 | 2021.7 | 2001.1 | 1954.9 | 1900.0 | 1840.9 | 1735.6 |
| 25° | 2028.5 | 2034.5 | 2081.7 | 2128.8 | 2117.6 | 2097.1 | 2068.8 | 2016.5 | 1954.0 | 1896.6 | 1783.5 |
| 27.5° | 2145.0 | 2151.9 | 2198.2 | 2239.3 | 2210.1 | 2186.2 | 2154.5 | 2089.4 | 2026.0 | 1973.7 | 1845.2 |
| 30° | 2271.0 | 2277.0 | 2318.1 | 2354.9 | 2316.4 | 2288.1 | 2250.4 | 2183.6 | 2119.3 | 2079.9 | 1932.6 |
| 32.5° | 2392.6 | 2391.8 | 2431.2 | 2461.1 | 2421.7 | 2399.5 | 2365.2 | 2297.5 | 2246.1 | 2229.0 | 2062.8 |
| 35° | 2505.7 | 2505.7 | 2538.2 | 2568.2 | 2540.0 | 2528.0 | 2496.3 | 2442.3 | 2413.2 | 2433.7 | 2236.7 |
| 37.5° | 2619.6 | 2613.6 | 2644.5 | 2677.9 | 2675.3 | 2676.2 | 2658.2 | 2632.5 | 2634.2 | 2707.0 | 2475.7 |
| 40° | 2713.9 | 2711.3 | 2747.3 | 2791.0 | 2825.2 | 2852.6 | 2841.5 | 2850.9 | 2904.9 | 3041.1 | 2781.5 |
| 42.5° | 2789.2 | 2795.2 | 2841.5 | 2910.9 | 2997.4 | 3053.1 | 3060.8 | 3099.3 | 3238.1 | 3448.9 | 3126.8 |
| 45° | 2875.8 | 2876.6 | 2940.9 | 3047.1 | 3185.0 | 3273.2 | 3304.1 | 3403.5 | 3600.5 | 3872.0 | 3505.4 |
| 47.5° | 2982.0 | 2971.7 | 3043.7 | 3192.7 | 3392.3 | 3522.5 | 3577.4 | 3701.6 | 4006.5 | 4284.9 | 3813.8 |
| 50° | 3099.3 | 3080.5 | 3161.9 | 3364.9 | 3624.5 | 3787.2 | 3898.6 | 4080.2 | 4409.2 | 4624.2 | 4043.4 |
| 52.5° | 3235.6 | 3217.6 | 3310.1 | 3562.8 | 3902.9 | 4100.8 | 4243.8 | 4427.2 | 4754.4 | 4882.9 | 4180.4 |
| 55° | 3408.6 | 3390.6 | 3488.3 | 3800.1 | 4231.8 | 4488.8 | 4638.7 | 4792.9 | 5075.6 | 5073.9 | 4279.8 |
| 57.5° | 3600.5 | 3575.6 | 3711.0 | 4099.9 | 4642.2 | 4909.4 | 5061.9 | 5137.3 | 5319.8 | 5222.1 | 4346.6 |
| 60° | 3820.6 | 3798.4 | 3986.0 | 4457.1 | 5115.9 | 5363.5 | 5459.4 | 5428.6 | 5520.2 | 5309.5 | 4323.5 |
| 62.5° | 4019.4 | 4009.1 | 4242.1 | 4835.8 | 5567.3 | 5776.4 | 5802.9 | 5668.4 | 5667.6 | 5311.2 | 4167.6 |
| 65° | 4225.8 | 4245.5 | 4591.6 | 5271.8 | 6021.4 | 6161.9 | 6116.5 | 5906.6 | 5726.7 | 5101.3 | 3706.7 |
| 67.5° | 4302.9 | 4360.3 | 4822.1 | 5665.9 | 6379.4 | 6489.1 | 6409.4 | 6025.7 | 5480.8 | 4395.5 | 2822.7 |
| 70° | 3826.6 | 3934.6 | 4604.5 | 5688.1 | 6527.6 | 6632.2 | 6441.1 | 5705.3 | 4569.4 | 2911.7 | 1546.2 |
| 72.5° | 2910.0 | 3036.0 | 3836.9 | 4657.6 | 5870.6 | 6108.7 | 5782.4 | 4648.2 | 2945.2 | 1275.5 | 519.1 |
| 75° | 1628.5 | 1764.7 | 2857.8 | 3507.1 | 3941.4 | 4159.0 | 4039.1 | 2982.0 | 1304.7 | 333.2 | 155.1 |
| 77.5° | 550.8 | 596.2 | 1329.5 | 2169.9 | 2601.6 | 2406.3 | 2037.1 | 1481.1 | 479.7 | 126.8 | 82.2 |
| 80° | 326.4 | 343.5 | 495.1 | 1080.2 | 1368.9 | 1135.1 | 896.1 | 547.4 | 244.1 | 67.7 | 57.4 |
| 82.5° | 97.7 | 115.6 | 273.3 | 400.9 | 536.3 | 334.1 | 282.7 | 312.7 | 126.8 | 36.8 | 48.0 |
| 85° | 0.0 | 0.0 | 58.3 | 124.2 | 140.5 | 54.8 | 54.8 | 177.3 | 23.1 | 15.4 | 35.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 4.3 | 2.6 | 3.4 | 7.7 |
| 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: P633582

CATALOG NUMBER: GWS-SA2F-722-U-SL4-W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1597.6 | 1597.6 | 1597.6 | 1597.6 | 1597.6 | 1597.6 | 1597.6 | 1597.6 | 1597.6 | 1597.6 | 1597.6 |
| 2.5° | 1587.4 | 1557.4 | 1522.3 | 1488.9 | 1457.2 | 1416.0 | 1396.3 | 1372.3 | 1351.8 | 1340.7 | 1346.6 |
| 5° | 1555.7 | 1508.6 | 1436.6 | 1363.8 | 1290.1 | 1220.7 | 1158.2 | 1116.2 | 1078.5 | 1058.8 | 1063.1 |
| 7.5° | 1528.3 | 1464.9 | 1352.6 | 1233.6 | 1115.4 | 996.3 | 899.5 | 824.1 | 765.8 | 741.9 | 737.6 |
| 10° | 1516.3 | 1436.6 | 1278.1 | 1106.8 | 925.2 | 765.0 | 627.9 | 544.8 | 485.7 | 456.6 | 461.7 |
| 12.5° | 1522.3 | 1422.0 | 1214.7 | 982.6 | 747.0 | 560.2 | 429.2 | 351.2 | 309.2 | 292.1 | 287.8 |
| 15° | 1539.4 | 1418.6 | 1158.2 | 855.8 | 576.5 | 391.5 | 296.4 | 264.7 | 256.1 | 254.4 | 254.4 |
| 17.5° | 1559.1 | 1419.5 | 1099.9 | 727.3 | 437.7 | 290.4 | 253.6 | 247.6 | 245.0 | 243.3 | 244.1 |
| 20° | 1578.8 | 1419.5 | 1033.1 | 597.1 | 329.0 | 251.0 | 241.6 | 237.3 | 234.7 | 233.9 | 233.9 |
| 22.5° | 1602.8 | 1419.5 | 958.6 | 476.3 | 263.8 | 238.1 | 230.4 | 227.9 | 225.3 | 224.4 | 223.6 |
| 25° | 1631.9 | 1420.3 | 876.3 | 372.6 | 239.9 | 227.0 | 221.0 | 218.4 | 215.9 | 214.2 | 214.2 |
| 27.5° | 1673.9 | 1427.2 | 785.5 | 290.4 | 226.2 | 216.7 | 211.6 | 209.0 | 206.5 | 203.9 | 203.9 |
| 30° | 1734.7 | 1444.3 | 683.6 | 239.9 | 213.3 | 205.6 | 200.5 | 198.7 | 196.2 | 193.6 | 192.7 |
| 32.5° | 1825.5 | 1474.3 | 578.2 | 215.0 | 201.3 | 193.6 | 187.6 | 185.9 | 183.3 | 180.8 | 179.9 |
| 35° | 1952.3 | 1529.1 | 475.4 | 199.6 | 185.9 | 178.2 | 174.8 | 173.9 | 170.5 | 167.9 | 167.9 |
| 37.5° | 2138.2 | 1618.2 | 376.9 | 184.2 | 173.0 | 167.0 | 162.8 | 161.0 | 157.6 | 155.1 | 154.2 |
| 40° | 2365.2 | 1733.9 | 293.0 | 172.2 | 161.0 | 155.1 | 150.8 | 148.2 | 143.9 | 140.5 | 138.8 |
| 42.5° | 2654.7 | 1875.2 | 231.3 | 159.3 | 149.9 | 143.9 | 140.5 | 135.4 | 129.4 | 124.2 | 123.4 |
| 45° | 2956.3 | 2020.8 | 191.0 | 147.3 | 139.6 | 134.5 | 130.2 | 123.4 | 114.8 | 108.8 | 107.1 |
| 47.5° | 3187.6 | 2111.6 | 167.0 | 134.5 | 128.5 | 124.2 | 119.1 | 110.5 | 100.2 | 93.4 | 91.7 |
| 50° | 3352.9 | 2125.3 | 149.1 | 122.5 | 119.1 | 114.8 | 107.1 | 96.8 | 85.7 | 78.8 | 77.1 |
| 52.5° | 3434.3 | 2063.7 | 134.5 | 111.4 | 108.8 | 104.5 | 95.1 | 84.0 | 72.0 | 65.1 | 63.4 |
| 55° | 3471.1 | 1947.2 | 120.8 | 101.9 | 98.5 | 93.4 | 83.1 | 71.1 | 59.1 | 53.1 | 51.4 |
| 57.5° | 3456.6 | 1775.0 | 108.8 | 92.5 | 88.2 | 82.2 | 71.1 | 58.3 | 48.8 | 42.8 | 42.0 |
| 60° | 3348.6 | 1533.4 | 96.8 | 83.1 | 78.0 | 71.1 | 60.0 | 48.0 | 39.4 | 35.1 | 34.3 |
| 62.5° | 3115.6 | 1233.6 | 84.8 | 72.0 | 68.5 | 61.7 | 51.4 | 39.4 | 32.6 | 30.0 | 29.1 |
| 65° | 2638.5 | 872.1 | 72.8 | 60.8 | 59.1 | 52.3 | 42.8 | 32.6 | 28.3 | 26.6 | 25.7 |
| 67.5° | 1896.6 | 530.3 | 61.7 | 52.3 | 50.5 | 44.5 | 36.0 | 28.3 | 25.7 | 24.8 | 24.8 |
| 70° | 953.4 | 251.0 | 48.8 | 42.8 | 42.8 | 36.8 | 30.8 | 25.7 | 24.8 | 24.0 | 24.0 |
| 72.5° | 323.8 | 107.1 | 36.8 | 33.4 | 35.1 | 31.7 | 26.6 | 24.0 | 24.0 | 24.0 | 24.0 |
| 75° | 110.5 | 56.5 | 25.7 | 24.0 | 25.7 | 25.7 | 23.1 | 23.1 | 24.0 | 24.0 | 24.0 |
| 77.5° | 72.0 | 37.7 | 18.0 | 16.3 | 19.7 | 19.7 | 19.7 | 21.4 | 23.1 | 23.1 | 23.1 |
| 80° | 59.1 | 20.6 | 12.0 | 11.1 | 14.6 | 14.6 | 16.3 | 19.7 | 21.4 | 21.4 | 21.4 |
| 82.5° | 50.5 | 12.8 | 6.9 | 7.7 | 10.3 | 11.1 | 13.7 | 16.3 | 18.8 | 19.7 | 19.7 |
| 85° | 34.3 | 6.9 | 5.1 | 6.0 | 6.9 | 8.6 | 11.1 | 13.7 | 15.4 | 17.1 | 17.1 |
| 87.5° | 9.4 | 2.6 | 3.4 | 4.3 | 4.3 | 6.0 | 8.6 | 10.3 | 12.0 | 12.8 | 12.8 |
| 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)