

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: P636894

Luminaire Tested: GWS-SA4B-760-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636894
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-760-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12174.9 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

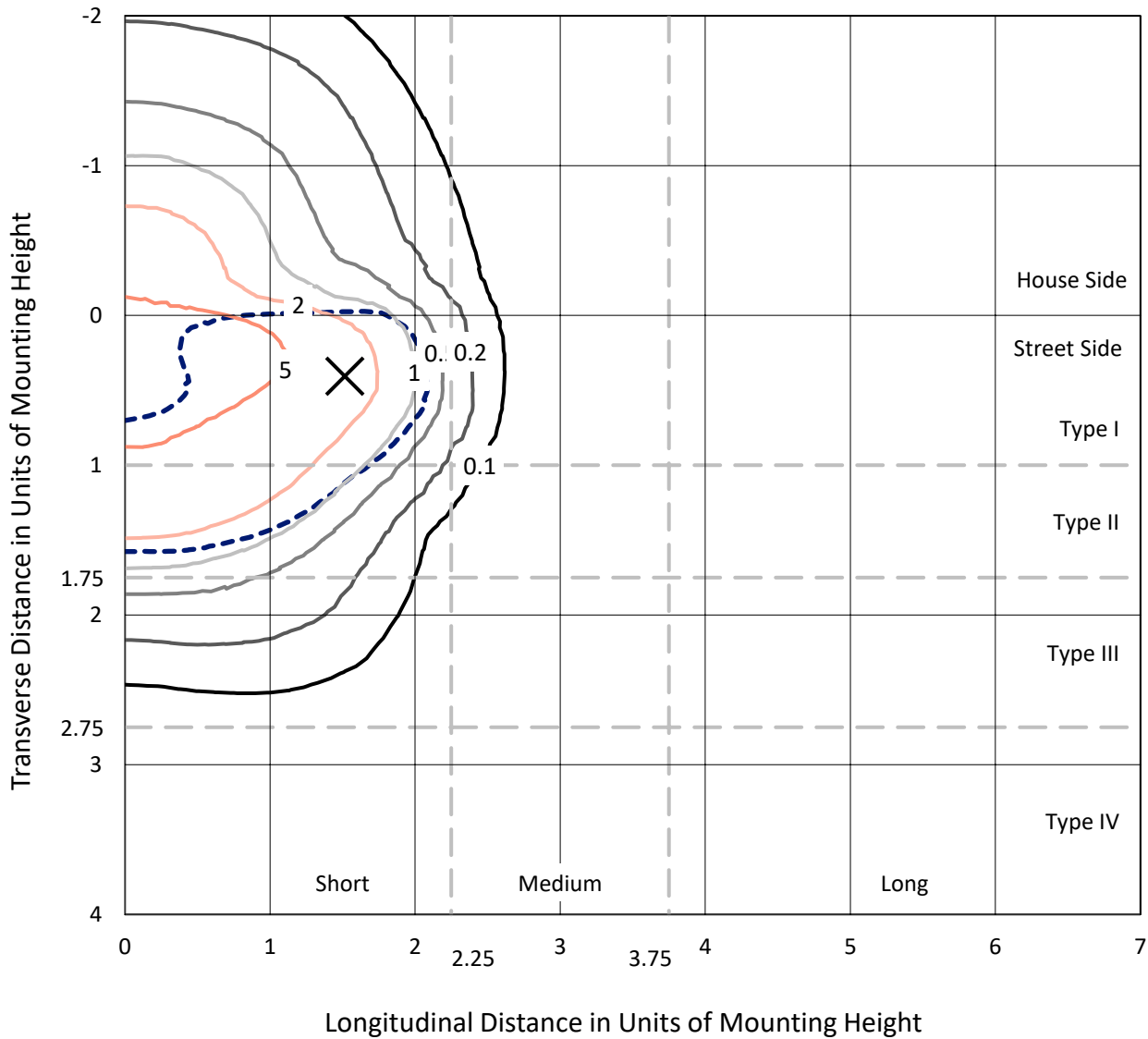
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

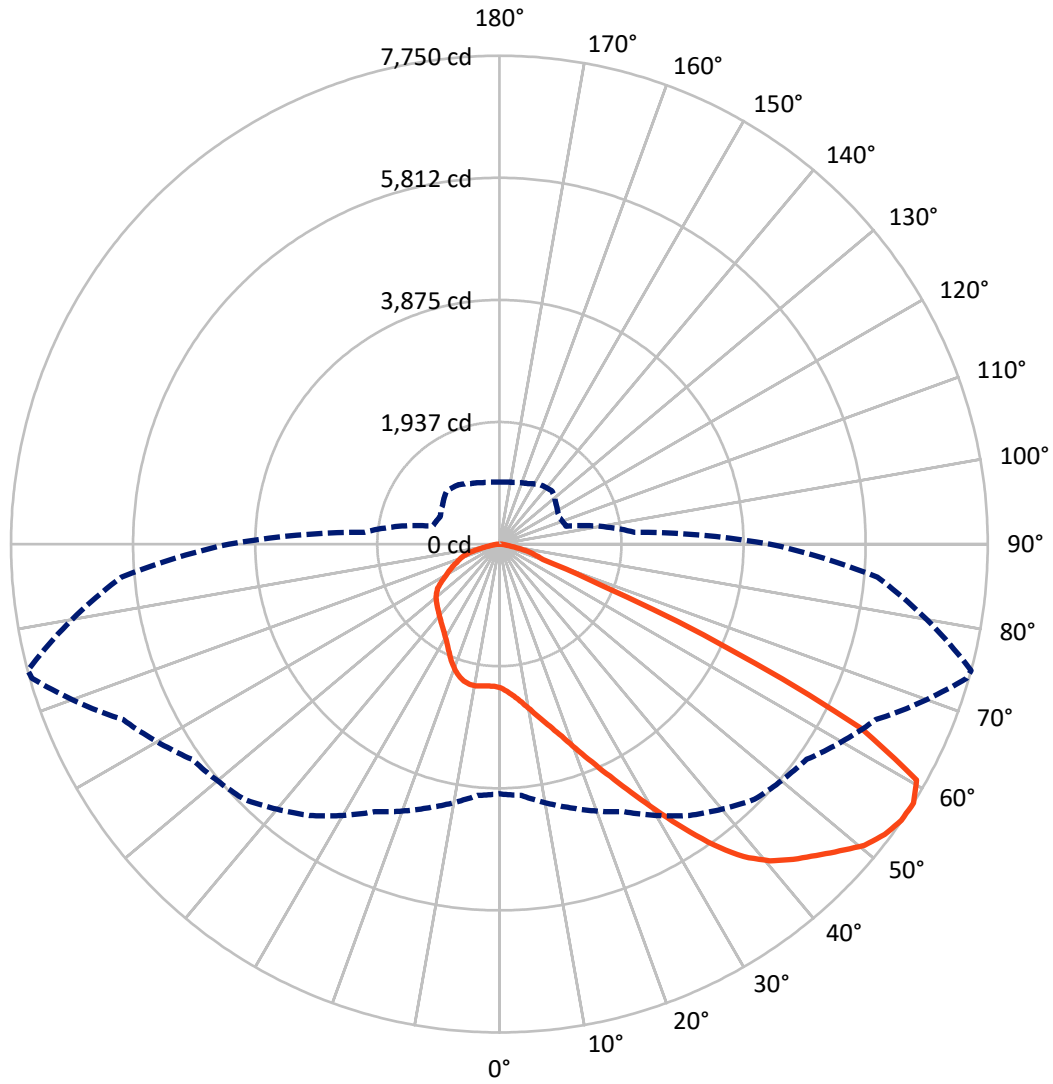
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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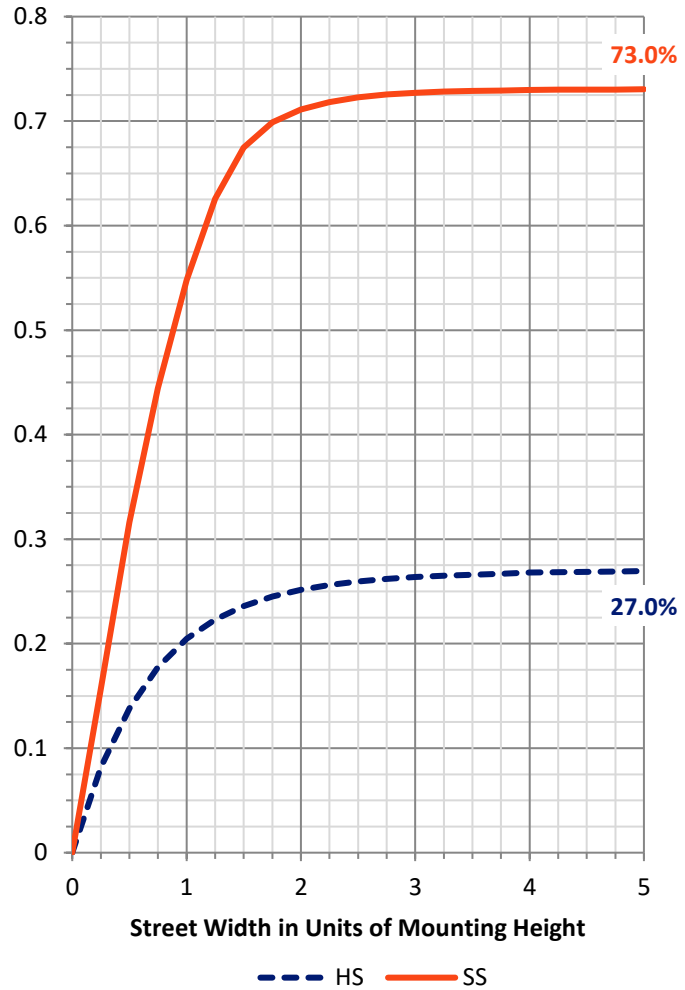
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3293.6 | 0.0 | 3293.6 |
| | % Fixture | 27.1 | 0.0 | 27.1 |
| Street Side | Lumens | 8881.3 | 0.0 | 8881.3 |
| | % Fixture | 72.9 | 0.0 | 72.9 |
| Total | Lumens | 12174.9 | 0.0 | 12174.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 228.2 | 1.9 |
| 10°-20° | 726.4 | 6.0 |
| 20°-30° | 1288.3 | 10.6 |
| 30°-40° | 1972.2 | 16.2 |
| 40°-50° | 2746.1 | 22.6 |
| 50°-60° | 3146.5 | 25.8 |
| 60°-70° | 1616.7 | 13.3 |
| 70°-80° | 407.0 | 3.3 |
| 80°-90° | 43.5 | 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° | 12174.9 | 100.0 |
| 0°-180° | 12174.9 | 100.0 |

Coefficient of Utilization



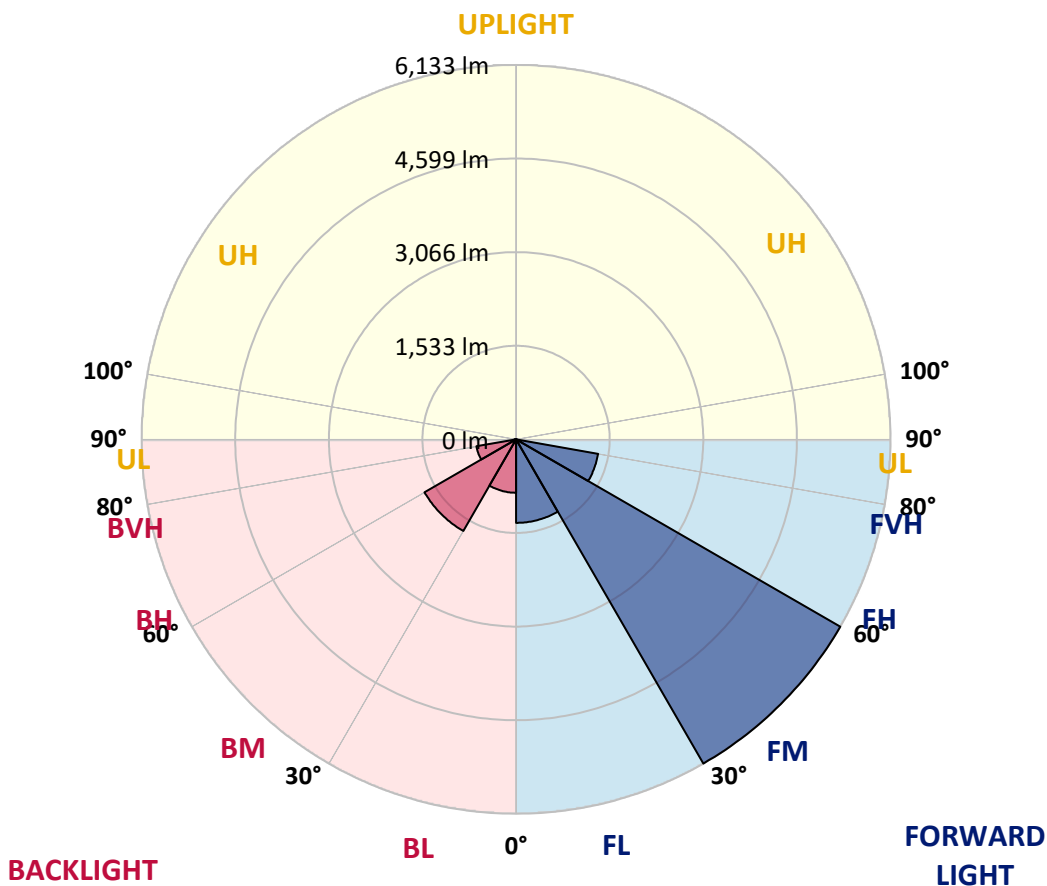
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1367.9 | 11.2 | | | |
| FM (30°-60°) | 6132.6 | 50.4 | | | |
| FH (60°-80°) | 1364.7 | 11.2 | | | G1/1800 |
| FVH (80°-90°) | 16.1 | 0.1 | | | G1/100 |
| BL (0°-30°) | 875.0 | 7.2 | B2/1000 | | |
| BM (30°-60°) | 1732.1 | 14.2 | B2/2500 | | |
| BH (60°-80°) | 659.1 | 5.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 27.4 | 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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 74° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2280.1 | 2280.1 | 2280.1 | 2280.1 | 2280.1 | 2280.1 | 2280.1 | 2280.1 | 2280.1 | 2280.1 | 2280.1 |
| 2.5° | 2449.7 | 2455.9 | 2449.7 | 2460.1 | 2439.2 | 2429.8 | 2406.7 | 2372.2 | 2345.0 | 2340.8 | 2310.4 |
| 5° | 2640.2 | 2653.8 | 2645.4 | 2641.2 | 2613.0 | 2592.0 | 2557.5 | 2488.4 | 2431.9 | 2423.5 | 2363.8 |
| 7.5° | 2762.7 | 2772.1 | 2772.1 | 2775.2 | 2764.8 | 2740.7 | 2704.0 | 2622.4 | 2542.8 | 2530.3 | 2440.2 |
| 10° | 2803.5 | 2810.8 | 2824.4 | 2850.6 | 2871.5 | 2878.9 | 2854.8 | 2776.3 | 2678.9 | 2666.4 | 2540.7 |
| 12.5° | 2812.9 | 2821.3 | 2842.2 | 2890.4 | 2948.0 | 3000.3 | 3004.5 | 2946.9 | 2838.0 | 2824.4 | 2656.9 |
| 15° | 2830.7 | 2839.1 | 2867.4 | 2927.0 | 3011.8 | 3112.3 | 3174.1 | 3134.3 | 3013.9 | 2999.3 | 2788.8 |
| 17.5° | 2828.6 | 2838.0 | 2879.9 | 2959.5 | 3073.6 | 3219.1 | 3338.4 | 3355.2 | 3230.6 | 3205.5 | 2938.5 |
| 20° | 2823.4 | 2831.8 | 2876.8 | 2974.1 | 3115.5 | 3315.4 | 3531.1 | 3618.0 | 3484.0 | 3460.9 | 3113.4 |
| 22.5° | 2865.3 | 2874.7 | 2909.2 | 2989.8 | 3137.4 | 3389.7 | 3709.0 | 3918.4 | 3784.4 | 3752.0 | 3314.4 |
| 25° | 2959.5 | 2973.1 | 2994.0 | 3049.5 | 3177.2 | 3455.7 | 3891.2 | 4258.6 | 4121.5 | 4082.8 | 3533.2 |
| 27.5° | 3105.0 | 3121.7 | 3151.1 | 3177.2 | 3266.2 | 3539.4 | 4072.3 | 4639.7 | 4502.6 | 4461.7 | 3764.5 |
| 30° | 3283.0 | 3304.9 | 3342.6 | 3360.4 | 3421.1 | 3663.0 | 4269.1 | 5032.3 | 4952.7 | 4896.2 | 4025.2 |
| 32.5° | 3529.0 | 3559.3 | 3594.9 | 3600.2 | 3636.8 | 3850.4 | 4463.8 | 5421.7 | 5420.7 | 5380.9 | 4321.4 |
| 35° | 3849.3 | 3881.8 | 3889.1 | 3896.4 | 3914.2 | 4107.9 | 4699.4 | 5776.6 | 5913.7 | 5867.7 | 4643.9 |
| 37.5° | 4199.0 | 4246.1 | 4257.6 | 4225.1 | 4250.3 | 4417.8 | 4964.2 | 6061.3 | 6342.9 | 6293.7 | 4955.8 |
| 40° | 4572.7 | 4591.5 | 4622.9 | 4571.6 | 4603.1 | 4772.6 | 5223.8 | 6243.5 | 6663.3 | 6610.9 | 5201.9 |
| 42.5° | 4840.7 | 4875.2 | 4922.3 | 4903.5 | 4921.3 | 5076.2 | 5406.0 | 6331.4 | 6891.5 | 6839.2 | 5378.8 |
| 45° | 5131.7 | 5142.2 | 5172.5 | 5168.4 | 5178.8 | 5323.3 | 5536.9 | 6370.2 | 7095.6 | 7048.5 | 5529.5 |
| 47.5° | 5385.1 | 5400.8 | 5420.7 | 5397.6 | 5374.6 | 5468.8 | 5643.6 | 6403.7 | 7331.2 | 7274.6 | 5687.6 |
| 50° | 5629.0 | 5642.6 | 5666.7 | 5599.7 | 5513.8 | 5537.9 | 5696.0 | 6449.7 | 7552.1 | 7512.3 | 5812.2 |
| 52.5° | 5674.0 | 5688.7 | 5801.7 | 5815.3 | 5705.4 | 5620.6 | 5788.1 | 6551.3 | 7681.9 | 7656.8 | 5857.2 |
| 55° | 5107.6 | 5133.8 | 5358.9 | 5617.5 | 5888.6 | 5861.4 | 5935.7 | 6604.7 | 7733.2 | 7739.5 | 5937.8 |
| 57.5° | 3964.5 | 4002.2 | 4330.9 | 4685.8 | 5256.3 | 5728.4 | 5954.6 | 6591.0 | 7715.4 | 7749.9 | 6020.5 |
| 60° | 2600.4 | 2622.4 | 3011.8 | 3409.6 | 4001.1 | 4654.4 | 5329.6 | 6346.1 | 7557.3 | 7606.5 | 5999.6 |
| 62.5° | 1570.3 | 1595.4 | 1908.4 | 2209.9 | 2558.5 | 2995.1 | 3614.8 | 5100.3 | 6334.6 | 6444.5 | 4805.1 |
| 65° | 1096.1 | 1129.6 | 1403.8 | 1651.9 | 1772.3 | 1682.3 | 1831.0 | 2848.5 | 3946.7 | 3992.7 | 2936.4 |
| 67.5° | 794.6 | 817.6 | 1042.7 | 1337.9 | 1470.8 | 1188.2 | 905.5 | 1261.5 | 1718.9 | 1735.7 | 1211.2 |
| 70° | 520.3 | 546.5 | 750.6 | 1018.6 | 1200.8 | 963.1 | 677.3 | 682.6 | 723.4 | 731.8 | 703.5 |
| 72.5° | 285.8 | 301.5 | 463.8 | 676.3 | 709.8 | 575.8 | 528.7 | 567.4 | 595.7 | 595.7 | 603.0 |
| 75° | 147.6 | 161.2 | 189.5 | 223.0 | 269.0 | 315.1 | 381.1 | 438.6 | 469.0 | 471.1 | 467.9 |
| 77.5° | 75.4 | 80.6 | 101.5 | 109.9 | 120.4 | 140.3 | 182.2 | 233.5 | 260.7 | 271.1 | 269.0 |
| 80° | 35.6 | 37.7 | 42.9 | 50.2 | 61.8 | 78.5 | 98.4 | 117.2 | 134.0 | 136.1 | 147.6 |
| 82.5° | 18.8 | 20.9 | 23.0 | 27.2 | 33.5 | 41.9 | 57.6 | 69.1 | 79.6 | 81.7 | 91.1 |
| 85° | 7.3 | 8.4 | 9.4 | 10.5 | 14.7 | 17.8 | 24.1 | 32.5 | 39.8 | 39.8 | 47.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 2.1 | 4.2 | 5.2 | 7.3 | 7.3 | 12.6 |
| 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-SA4B-760-U-T2-W-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2280.1 | 2280.1 | 2280.1 | 2280.1 | 2280.1 | 2280.1 | 2280.1 | 2280.1 | 2280.1 | 2280.1 | 2280.1 |
| 2.5° | 2303.1 | 2272.7 | 2259.1 | 2237.1 | 2219.3 | 2199.5 | 2183.8 | 2172.2 | 2164.9 | 2160.7 | 2156.5 |
| 5° | 2340.8 | 2294.7 | 2258.1 | 2214.1 | 2183.8 | 2154.4 | 2130.4 | 2113.6 | 2105.2 | 2099.0 | 2094.8 |
| 7.5° | 2399.4 | 2337.6 | 2268.6 | 2200.5 | 2147.1 | 2100.0 | 2069.6 | 2051.9 | 2040.3 | 2036.1 | 2033.0 |
| 10° | 2480.0 | 2394.2 | 2280.1 | 2172.2 | 2092.7 | 2041.4 | 2020.4 | 2012.1 | 2013.1 | 2011.0 | 2010.0 |
| 12.5° | 2571.1 | 2453.8 | 2276.9 | 2122.0 | 2034.1 | 2003.7 | 2004.7 | 2018.4 | 2034.1 | 2038.2 | 2039.3 |
| 15° | 2669.5 | 2512.5 | 2246.6 | 2057.1 | 1988.0 | 1991.1 | 2018.4 | 2050.8 | 2080.1 | 2091.6 | 2093.7 |
| 17.5° | 2776.3 | 2561.7 | 2191.1 | 1985.9 | 1950.3 | 1983.8 | 2034.1 | 2087.4 | 2130.4 | 2149.2 | 2154.4 |
| 20° | 2895.6 | 2603.5 | 2112.6 | 1915.8 | 1914.7 | 1970.2 | 2043.5 | 2113.6 | 2168.1 | 2193.2 | 2197.4 |
| 22.5° | 3022.3 | 2629.7 | 2016.3 | 1850.9 | 1878.1 | 1952.4 | 2036.1 | 2109.4 | 2167.0 | 2192.1 | 2197.4 |
| 25° | 3150.0 | 2638.1 | 1910.5 | 1791.2 | 1840.4 | 1924.1 | 2000.6 | 2059.2 | 2113.6 | 2135.6 | 2139.8 |
| 27.5° | 3269.4 | 2614.0 | 1810.0 | 1739.9 | 1805.8 | 1882.3 | 1933.6 | 1965.0 | 2002.6 | 2019.4 | 2022.5 |
| 30° | 3390.8 | 2565.9 | 1725.2 | 1699.1 | 1767.1 | 1824.7 | 1847.7 | 1849.8 | 1864.5 | 1864.5 | 1866.6 |
| 32.5° | 3513.3 | 2494.7 | 1650.9 | 1659.3 | 1718.9 | 1756.6 | 1759.8 | 1735.7 | 1717.9 | 1688.6 | 1687.5 |
| 35° | 3654.6 | 2422.4 | 1590.2 | 1614.3 | 1662.4 | 1685.4 | 1676.0 | 1630.0 | 1587.0 | 1538.9 | 1536.8 |
| 37.5° | 3785.5 | 2348.1 | 1538.9 | 1568.2 | 1598.6 | 1615.3 | 1593.3 | 1537.8 | 1502.2 | 1453.0 | 1445.7 |
| 40° | 3893.3 | 2281.1 | 1489.7 | 1520.0 | 1534.7 | 1549.4 | 1513.8 | 1468.7 | 1474.0 | 1446.8 | 1445.7 |
| 42.5° | 3956.1 | 2216.2 | 1443.6 | 1466.7 | 1476.1 | 1486.5 | 1455.1 | 1421.6 | 1449.9 | 1429.0 | 1430.0 |
| 45° | 4002.2 | 2159.7 | 1401.7 | 1410.1 | 1433.2 | 1448.9 | 1419.5 | 1381.9 | 1388.1 | 1307.5 | 1288.7 |
| 47.5° | 4054.5 | 2128.3 | 1362.0 | 1353.6 | 1394.4 | 1421.6 | 1376.6 | 1322.2 | 1284.5 | 1204.9 | 1197.6 |
| 50° | 4110.0 | 2116.8 | 1320.1 | 1297.1 | 1346.3 | 1372.4 | 1320.1 | 1252.0 | 1202.8 | 1159.9 | 1155.7 |
| 52.5° | 4128.8 | 2115.7 | 1267.8 | 1229.0 | 1278.2 | 1314.9 | 1270.9 | 1201.8 | 1143.2 | 1101.3 | 1099.2 |
| 55° | 4203.2 | 2146.1 | 1200.8 | 1135.8 | 1181.9 | 1257.3 | 1224.8 | 1125.4 | 1078.3 | 1059.4 | 1057.3 |
| 57.5° | 4290.0 | 2151.3 | 1095.0 | 1034.3 | 1098.2 | 1187.1 | 1146.3 | 1060.5 | 1009.2 | 986.1 | 984.1 |
| 60° | 4254.4 | 2022.5 | 982.0 | 956.8 | 1027.0 | 1121.2 | 1083.5 | 1009.2 | 949.5 | 927.5 | 925.4 |
| 62.5° | 3242.1 | 1427.9 | 899.3 | 889.8 | 950.6 | 1025.9 | 1018.6 | 941.1 | 884.6 | 868.9 | 866.8 |
| 65° | 1950.3 | 1002.9 | 819.7 | 818.6 | 861.6 | 933.8 | 943.2 | 880.4 | 820.7 | 798.8 | 798.8 |
| 67.5° | 964.2 | 767.4 | 729.7 | 724.4 | 751.6 | 802.9 | 842.7 | 791.4 | 741.2 | 720.2 | 717.1 |
| 70° | 681.5 | 676.3 | 663.7 | 649.1 | 654.3 | 675.2 | 692.0 | 649.1 | 595.7 | 574.7 | 570.5 |
| 72.5° | 589.4 | 590.4 | 582.1 | 570.5 | 566.4 | 551.7 | 537.0 | 505.6 | 473.2 | 451.2 | 453.3 |
| 75° | 457.5 | 459.6 | 464.8 | 460.6 | 449.1 | 433.4 | 417.7 | 377.9 | 351.7 | 330.8 | 326.6 |
| 77.5° | 266.9 | 277.4 | 294.2 | 290.0 | 292.1 | 270.1 | 263.8 | 225.1 | 201.0 | 186.3 | 183.2 |
| 80° | 150.7 | 157.0 | 164.4 | 169.6 | 163.3 | 153.9 | 140.3 | 119.3 | 112.0 | 101.5 | 99.5 |
| 82.5° | 91.1 | 97.4 | 100.5 | 104.7 | 102.6 | 90.0 | 79.6 | 66.0 | 59.7 | 54.4 | 53.4 |
| 85° | 46.1 | 50.2 | 53.4 | 55.5 | 49.2 | 40.8 | 36.6 | 29.3 | 25.1 | 22.0 | 22.0 |
| 87.5° | 11.5 | 12.6 | 14.7 | 12.6 | 11.5 | 5.2 | 4.2 | 1.0 | 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)