

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: P633810

Luminaire Tested: GWS-SA2F-740-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633810
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-740-U-SLR-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10067.7 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

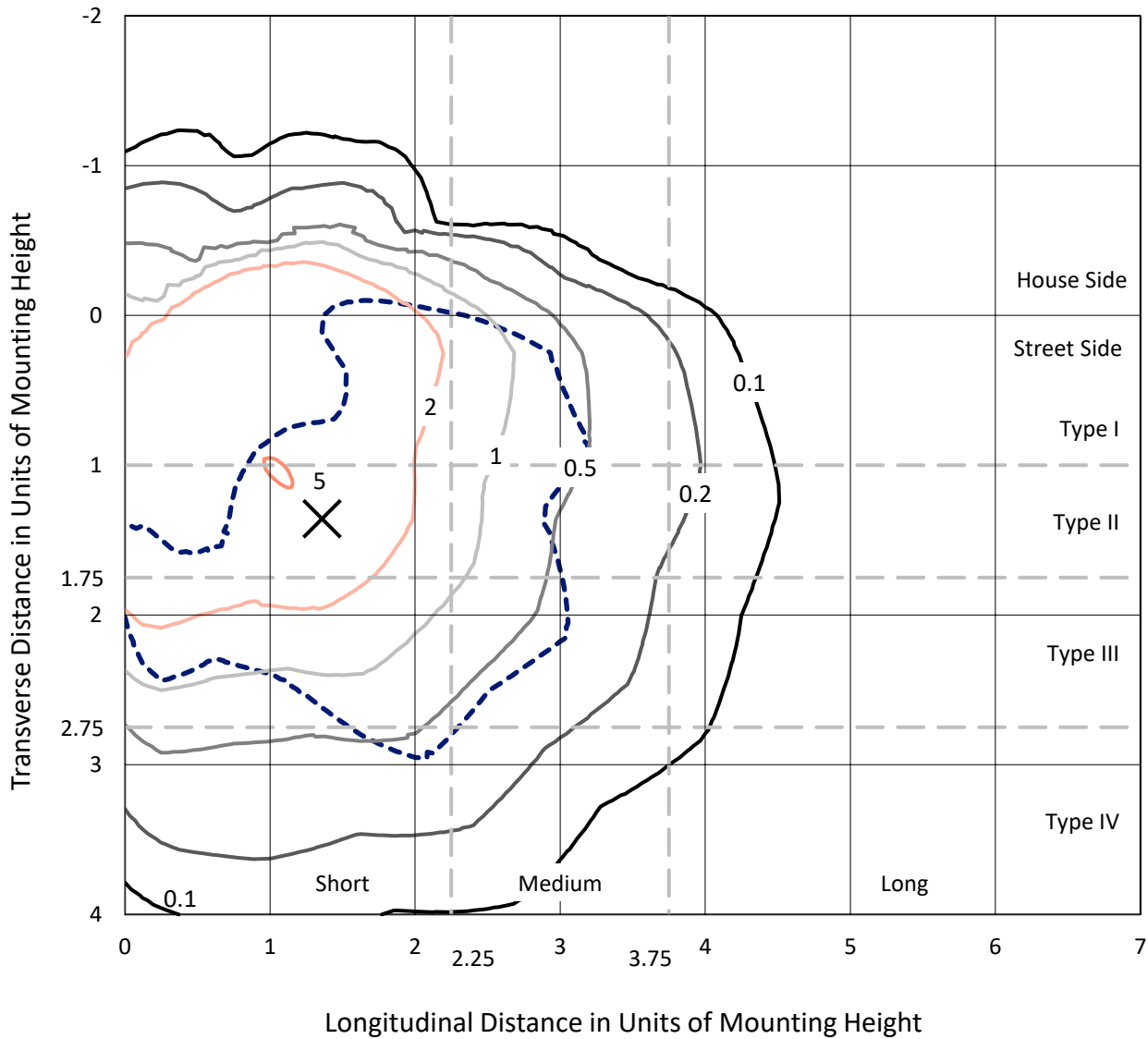
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P633810
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Iso-Footcandle Lines of Horizontal Illumination

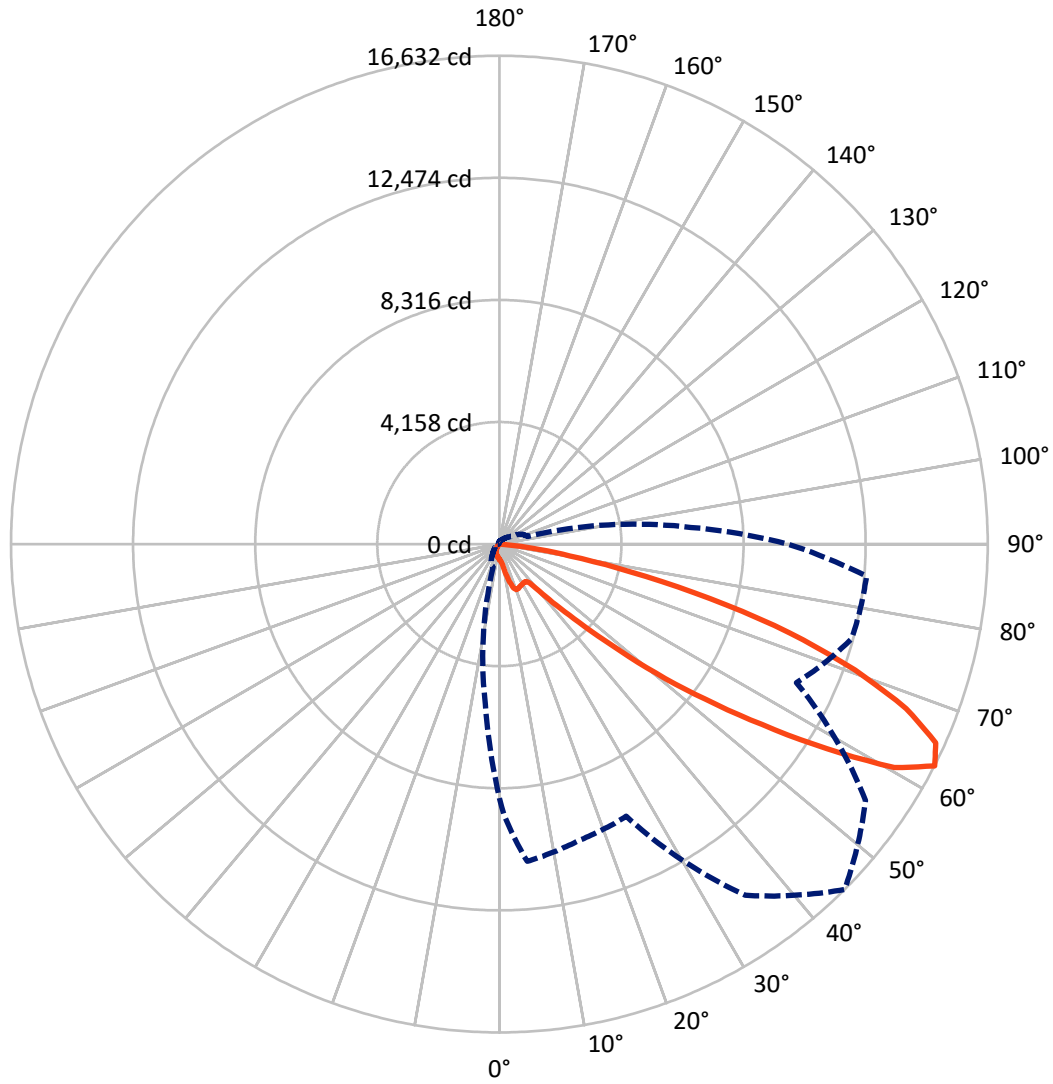
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - 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 | 1242.3 | 0.0 | 1242.3 |
| | % Fixture | 12.3 | 0.0 | 12.3 |
| Street Side | Lumens | 8825.4 | 0.0 | 8825.4 |
| | % Fixture | 87.7 | 0.0 | 87.7 |
| Total | Lumens | 10067.7 | 0.0 | 10067.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 46.4 | 0.5 |
| 10°-20° | 175.5 | 1.7 |
| 20°-30° | 381.6 | 3.8 |
| 30°-40° | 626.3 | 6.2 |
| 40°-50° | 1151.3 | 11.4 |
| 50°-60° | 2472.5 | 24.6 |
| 60°-70° | 3320.9 | 33.0 |
| 70°-80° | 1729.2 | 17.2 |
| 80°-90° | 164.0 | 1.6 |
| 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° | 10067.7 | 100.0 |
| 0°-180° | 10067.7 | 100.0 |

Coefficient of Utilization



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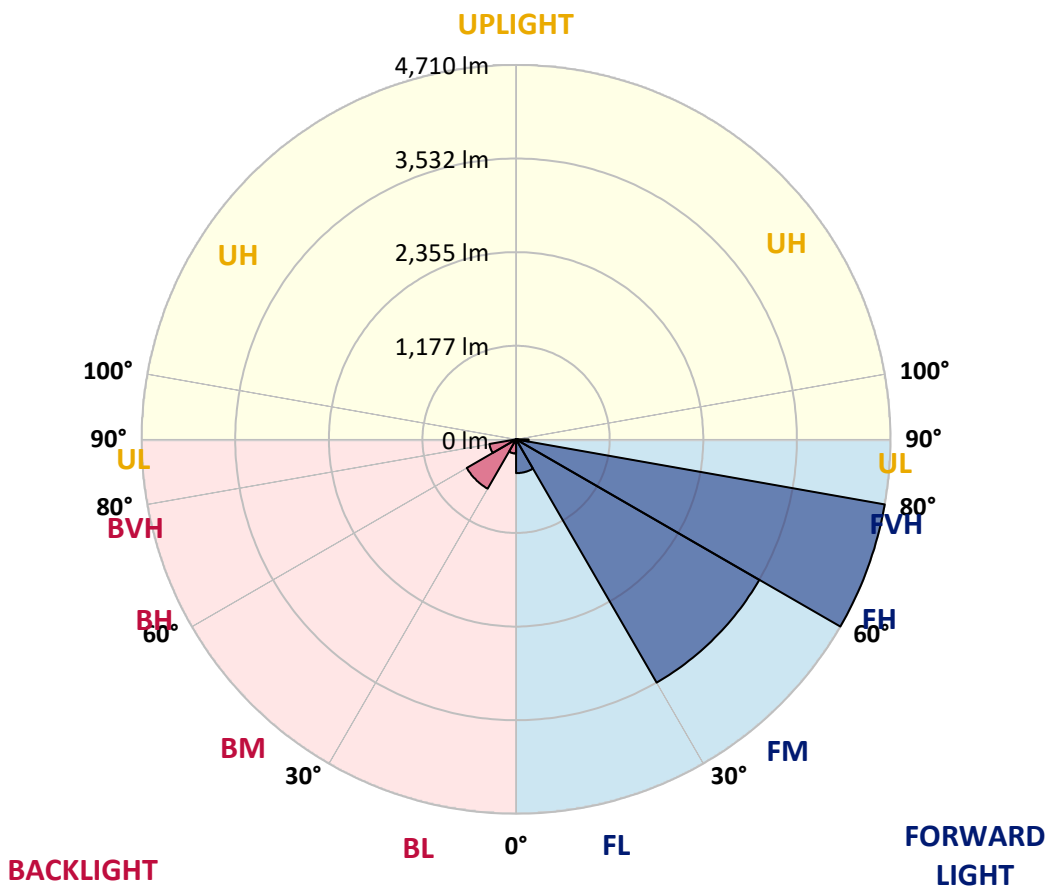
CATALOG NUMBER: GWS-SA2F-740-U-SLR-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 425.3 | 4.2 | | | |
| FM (30°-60°) | 3533.6 | 35.1 | | | |
| FH (60°-80°) | 4709.8 | 46.8 | | | G2/5000 |
| FVH (80°-90°) | 156.7 | 1.6 | | | G2/225 |
| BL (0°-30°) | 178.2 | 1.8 | B1/500 | | |
| BM (30°-60°) | 716.4 | 7.1 | B1/1000 | | |
| BH (60°-80°) | 340.4 | 3.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 7.3 | 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 523.3 | 523.3 | 523.3 | 523.3 | 523.3 | 523.3 | 523.3 | 523.3 | 523.3 | 523.3 | 523.3 |
| 2.5° | 533.8 | 536.1 | 538.4 | 546.6 | 552.4 | 557.0 | 558.2 | 554.7 | 546.6 | 538.4 | 526.8 |
| 5° | 517.5 | 519.8 | 528.0 | 550.1 | 572.2 | 589.6 | 595.4 | 591.9 | 572.2 | 546.6 | 519.8 |
| 7.5° | 516.3 | 521.0 | 540.8 | 587.3 | 634.9 | 671.0 | 680.3 | 672.2 | 634.9 | 583.8 | 529.1 |
| 10° | 558.2 | 566.3 | 595.4 | 679.1 | 766.4 | 830.3 | 855.9 | 821.0 | 761.7 | 668.7 | 579.1 |
| 12.5° | 667.5 | 681.5 | 737.3 | 859.4 | 994.3 | 1079.2 | 1114.1 | 1071.0 | 978.0 | 843.1 | 701.2 |
| 15° | 839.6 | 860.6 | 944.3 | 1126.9 | 1286.2 | 1361.8 | 1373.4 | 1349.0 | 1240.8 | 1092.0 | 901.3 |
| 17.5° | 1082.7 | 1112.9 | 1243.2 | 1429.2 | 1544.3 | 1571.1 | 1567.6 | 1542.0 | 1462.9 | 1360.6 | 1180.4 |
| 20° | 1373.4 | 1409.4 | 1537.4 | 1690.9 | 1702.5 | 1671.1 | 1653.7 | 1638.5 | 1611.8 | 1594.4 | 1453.6 |
| 22.5° | 1666.5 | 1710.6 | 1844.4 | 1882.8 | 1778.1 | 1687.4 | 1644.4 | 1656.0 | 1695.5 | 1781.6 | 1724.6 |
| 25° | 1958.3 | 2000.2 | 2125.8 | 2022.3 | 1813.0 | 1661.8 | 1607.1 | 1635.1 | 1729.2 | 1915.3 | 1988.6 |
| 27.5° | 2299.1 | 2330.5 | 2404.9 | 2117.7 | 1818.8 | 1640.9 | 1587.4 | 1630.4 | 1745.5 | 1999.0 | 2278.1 |
| 30° | 2653.8 | 2672.4 | 2636.3 | 2143.2 | 1799.0 | 1609.5 | 1567.6 | 1630.4 | 1773.4 | 2054.9 | 2495.6 |
| 32.5° | 2914.3 | 2917.7 | 2800.3 | 2145.6 | 1788.6 | 1583.9 | 1549.0 | 1623.4 | 1800.2 | 2101.4 | 2706.1 |
| 35° | 3182.9 | 3165.4 | 2957.3 | 2180.5 | 1816.5 | 1593.2 | 1563.0 | 1643.2 | 1842.1 | 2156.0 | 2891.0 |
| 37.5° | 3455.0 | 3423.6 | 3132.9 | 2237.4 | 1888.6 | 1694.4 | 1675.8 | 1744.4 | 1909.5 | 2231.6 | 3094.5 |
| 40° | 3734.1 | 3691.1 | 3315.5 | 2323.5 | 2049.0 | 2038.6 | 2102.5 | 2094.4 | 2094.4 | 2328.1 | 3303.8 |
| 42.5° | 4074.8 | 4024.8 | 3585.3 | 2566.5 | 2423.5 | 2657.3 | 2831.7 | 2723.5 | 2523.5 | 2550.3 | 3575.9 |
| 45° | 4524.9 | 4481.9 | 4052.7 | 3031.7 | 3010.8 | 3548.0 | 3782.9 | 3569.0 | 3071.2 | 3063.1 | 4030.6 |
| 47.5° | 5244.7 | 5236.6 | 4798.2 | 3571.3 | 3729.5 | 4681.9 | 5135.4 | 4723.7 | 3695.7 | 3606.2 | 4891.2 |
| 50° | 6256.5 | 6232.0 | 5727.3 | 4203.9 | 4584.2 | 6086.7 | 6896.1 | 6209.9 | 4450.5 | 4240.0 | 6043.6 |
| 52.5° | 7396.1 | 7421.7 | 7028.6 | 4894.7 | 5492.4 | 7649.6 | 8776.5 | 7912.4 | 5270.3 | 5045.9 | 7493.8 |
| 55° | 8469.5 | 8616.0 | 8512.5 | 5702.9 | 6379.7 | 9375.4 | 10841.8 | 9780.1 | 6285.5 | 6100.6 | 9119.5 |
| 57.5° | 9309.1 | 9721.9 | 10447.6 | 6877.5 | 7422.9 | 11394.2 | 13147.9 | 11804.7 | 7470.5 | 7813.6 | 11332.6 |
| 60° | 9355.6 | 9902.2 | 11587.2 | 9334.7 | 8764.9 | 13125.8 | 15450.4 | 13782.8 | 9333.5 | 10722.0 | 13066.5 |
| 62.5° | 8654.4 | 9240.5 | 10845.3 | 10451.1 | 10226.6 | 14599.2 | 16631.9 | 15224.8 | 11166.3 | 12425.7 | 12552.5 |
| 65° | 7852.0 | 8443.9 | 10017.3 | 9184.7 | 10056.8 | 14536.4 | 16331.9 | 15258.5 | 11332.6 | 11267.4 | 11632.6 |
| 67.5° | 6639.1 | 7170.5 | 8595.1 | 8129.9 | 9269.6 | 13835.1 | 14945.7 | 14296.8 | 10440.6 | 10538.3 | 10701.1 |
| 70° | 4845.8 | 5357.5 | 6679.8 | 6703.0 | 8095.0 | 12571.1 | 12842.0 | 12752.5 | 9614.9 | 9718.4 | 9253.3 |
| 72.5° | 3500.4 | 3931.8 | 5072.6 | 5497.1 | 6462.3 | 10541.8 | 10354.6 | 10699.9 | 8249.7 | 8655.5 | 7432.2 |
| 75° | 2516.5 | 2839.8 | 3721.3 | 4781.9 | 5122.6 | 7828.7 | 7412.4 | 8286.9 | 6619.3 | 7453.1 | 5587.8 |
| 77.5° | 1021.0 | 1135.0 | 1464.1 | 3221.3 | 3366.6 | 5266.8 | 4537.7 | 6019.2 | 4719.1 | 4897.0 | 2708.4 |
| 80° | 41.9 | 46.5 | 60.5 | 1663.0 | 2308.4 | 2963.1 | 2428.2 | 3217.8 | 3116.6 | 1972.3 | 639.6 |
| 82.5° | 4.7 | 4.7 | 10.5 | 479.1 | 1010.6 | 1635.1 | 1144.3 | 1853.7 | 1578.1 | 836.1 | 290.7 |
| 85° | 1.2 | 1.2 | 2.3 | 54.7 | 237.2 | 261.7 | 154.7 | 568.7 | 733.8 | 341.9 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.8 | 10.5 | 11.6 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 523.3 | 523.3 | 523.3 | 523.3 | 523.3 | 523.3 | 523.3 | 523.3 | 523.3 | 523.3 | 523.3 |
| 2.5° | 526.8 | 521.0 | 514.0 | 507.0 | 503.5 | 494.2 | 490.7 | 488.4 | 486.1 | 487.3 | 487.3 |
| 5° | 509.4 | 496.6 | 481.4 | 466.3 | 458.2 | 448.9 | 444.2 | 441.9 | 443.1 | 447.7 | 447.7 |
| 7.5° | 507.0 | 482.6 | 450.0 | 430.3 | 421.0 | 414.0 | 409.3 | 407.0 | 408.2 | 414.0 | 416.3 |
| 10° | 545.4 | 502.4 | 444.2 | 410.5 | 400.0 | 393.1 | 388.4 | 384.9 | 382.6 | 387.2 | 388.4 |
| 12.5° | 628.0 | 568.7 | 472.1 | 408.2 | 389.6 | 380.3 | 376.8 | 369.8 | 366.3 | 368.6 | 369.8 |
| 15° | 798.9 | 696.6 | 528.0 | 417.5 | 380.3 | 369.8 | 364.0 | 358.2 | 352.4 | 351.2 | 352.4 |
| 17.5° | 1022.2 | 875.7 | 612.9 | 439.6 | 373.3 | 360.5 | 352.4 | 344.2 | 336.1 | 334.9 | 333.8 |
| 20° | 1299.0 | 1095.5 | 731.5 | 474.5 | 367.5 | 352.4 | 340.7 | 329.1 | 318.6 | 315.1 | 315.1 |
| 22.5° | 1551.3 | 1360.6 | 883.8 | 517.5 | 359.3 | 340.7 | 326.8 | 312.8 | 301.2 | 295.4 | 294.2 |
| 25° | 1859.5 | 1642.0 | 1066.4 | 567.5 | 347.7 | 325.6 | 310.5 | 296.5 | 284.9 | 277.9 | 275.6 |
| 27.5° | 2170.0 | 1938.6 | 1273.4 | 632.6 | 333.8 | 310.5 | 296.5 | 283.8 | 271.0 | 262.8 | 260.5 |
| 30° | 2471.2 | 2258.4 | 1506.0 | 714.0 | 323.3 | 295.4 | 283.8 | 271.0 | 259.3 | 246.5 | 243.0 |
| 32.5° | 2794.5 | 2585.1 | 1766.5 | 804.7 | 315.1 | 284.9 | 272.1 | 260.5 | 245.4 | 233.7 | 227.9 |
| 35° | 3106.1 | 2922.4 | 2053.7 | 893.1 | 307.0 | 275.6 | 261.7 | 250.0 | 233.7 | 221.0 | 212.8 |
| 37.5° | 3420.1 | 3265.5 | 2353.7 | 946.6 | 295.4 | 262.8 | 250.0 | 240.7 | 222.1 | 207.0 | 197.7 |
| 40° | 3752.7 | 3620.1 | 2678.2 | 924.5 | 284.9 | 248.9 | 241.9 | 231.4 | 210.5 | 193.0 | 181.4 |
| 42.5° | 4117.9 | 3958.5 | 3008.4 | 839.6 | 275.6 | 237.2 | 230.3 | 219.8 | 200.0 | 179.1 | 164.0 |
| 45° | 4577.2 | 4329.5 | 3279.4 | 711.7 | 280.3 | 225.6 | 211.6 | 209.3 | 190.7 | 164.0 | 145.4 |
| 47.5° | 5366.8 | 4899.3 | 3489.9 | 629.1 | 311.7 | 212.8 | 196.5 | 202.3 | 182.6 | 148.9 | 127.9 |
| 50° | 6575.1 | 5843.6 | 3686.4 | 623.3 | 359.3 | 207.0 | 182.6 | 197.7 | 174.4 | 133.7 | 112.8 |
| 52.5° | 7726.4 | 6803.0 | 3812.0 | 674.5 | 401.2 | 222.1 | 168.6 | 191.9 | 168.6 | 123.3 | 102.3 |
| 55° | 8827.7 | 7356.6 | 3587.6 | 711.7 | 440.7 | 267.5 | 158.2 | 182.6 | 161.6 | 117.5 | 98.8 |
| 57.5° | 10015.0 | 7603.1 | 2824.7 | 787.3 | 468.7 | 305.8 | 160.5 | 168.6 | 152.3 | 114.0 | 97.7 |
| 60° | 10369.7 | 7288.0 | 1704.8 | 886.1 | 453.5 | 317.5 | 177.9 | 150.0 | 139.5 | 107.0 | 94.2 |
| 62.5° | 9818.5 | 6540.2 | 1005.9 | 807.1 | 440.7 | 300.0 | 203.5 | 138.4 | 126.8 | 97.7 | 87.2 |
| 65° | 8993.9 | 5525.0 | 655.9 | 681.5 | 467.5 | 267.5 | 216.3 | 132.6 | 115.1 | 88.4 | 76.8 |
| 67.5° | 8052.0 | 4450.5 | 459.3 | 402.4 | 431.4 | 240.7 | 182.6 | 131.4 | 103.5 | 74.4 | 62.8 |
| 70° | 6782.1 | 3332.9 | 323.3 | 266.3 | 359.3 | 214.0 | 141.9 | 127.9 | 90.7 | 60.5 | 48.8 |
| 72.5° | 5240.1 | 2086.3 | 240.7 | 172.1 | 255.8 | 174.4 | 112.8 | 108.2 | 73.3 | 50.0 | 37.2 |
| 75° | 3864.4 | 1189.7 | 169.8 | 124.4 | 168.6 | 132.6 | 83.7 | 76.8 | 62.8 | 47.7 | 33.7 |
| 77.5° | 2017.6 | 595.4 | 105.8 | 95.4 | 96.5 | 82.6 | 60.5 | 55.8 | 58.1 | 47.7 | 31.4 |
| 80° | 387.2 | 118.6 | 64.0 | 69.8 | 52.3 | 52.3 | 44.2 | 46.5 | 51.2 | 38.4 | 26.7 |
| 82.5° | 161.6 | 25.6 | 34.9 | 39.5 | 32.6 | 36.1 | 36.1 | 37.2 | 36.1 | 27.9 | 19.8 |
| 85° | 0.0 | 0.0 | 15.1 | 16.3 | 22.1 | 22.1 | 18.6 | 18.6 | 18.6 | 16.3 | 11.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 3.5 | 7.0 | 8.1 | 9.3 | 7.0 | 4.7 |
| 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-SA2F-740-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 523.3 | 523.3 | 523.3 | 523.3 | 523.3 | 523.3 | 523.3 | 523.3 | 523.3 | 523.3 | 523.3 |
| 2.5° | 486.1 | 483.8 | 487.3 | 489.6 | 491.9 | 491.9 | 489.6 | 487.3 | 483.8 | 487.3 | 483.8 |
| 5° | 448.9 | 452.4 | 458.2 | 460.5 | 462.8 | 458.2 | 455.9 | 448.9 | 443.1 | 444.2 | 441.9 |
| 7.5° | 419.8 | 423.3 | 430.3 | 434.9 | 434.9 | 432.6 | 425.6 | 418.6 | 409.3 | 409.3 | 408.2 |
| 10° | 393.1 | 397.7 | 405.9 | 411.7 | 414.0 | 411.7 | 404.7 | 395.4 | 387.2 | 387.2 | 383.8 |
| 12.5° | 371.0 | 376.8 | 386.1 | 394.2 | 396.6 | 394.2 | 387.2 | 377.9 | 368.6 | 368.6 | 366.3 |
| 15° | 352.4 | 359.3 | 369.8 | 379.1 | 382.6 | 379.1 | 371.0 | 359.3 | 350.0 | 351.2 | 347.7 |
| 17.5° | 334.9 | 340.7 | 354.7 | 365.2 | 368.6 | 365.2 | 354.7 | 339.6 | 330.3 | 332.6 | 330.3 |
| 20° | 315.1 | 322.1 | 336.1 | 347.7 | 351.2 | 347.7 | 336.1 | 319.8 | 310.5 | 310.5 | 311.7 |
| 22.5° | 294.2 | 301.2 | 315.1 | 323.3 | 327.9 | 324.5 | 312.8 | 297.7 | 288.4 | 288.4 | 289.6 |
| 25° | 275.6 | 279.1 | 289.6 | 297.7 | 298.9 | 295.4 | 286.1 | 274.4 | 267.5 | 271.0 | 272.1 |
| 27.5° | 258.2 | 258.2 | 262.8 | 267.5 | 266.3 | 262.8 | 259.3 | 250.0 | 248.9 | 252.4 | 255.8 |
| 30° | 239.6 | 233.7 | 231.4 | 227.9 | 226.8 | 225.6 | 229.1 | 229.1 | 231.4 | 236.1 | 239.6 |
| 32.5° | 223.3 | 211.6 | 201.2 | 190.7 | 184.9 | 189.6 | 198.9 | 207.0 | 215.1 | 222.1 | 225.6 |
| 35° | 204.7 | 186.1 | 168.6 | 154.7 | 145.4 | 152.3 | 167.5 | 182.6 | 196.5 | 205.8 | 211.6 |
| 37.5° | 186.1 | 159.3 | 138.4 | 120.9 | 114.0 | 119.8 | 136.1 | 157.0 | 177.9 | 189.6 | 197.7 |
| 40° | 166.3 | 132.6 | 108.2 | 94.2 | 87.2 | 93.0 | 109.3 | 130.2 | 158.2 | 173.3 | 183.7 |
| 42.5° | 146.5 | 109.3 | 87.2 | 73.3 | 69.8 | 73.3 | 86.1 | 107.0 | 137.2 | 155.8 | 169.8 |
| 45° | 126.8 | 90.7 | 69.8 | 59.3 | 55.8 | 59.3 | 69.8 | 87.2 | 117.5 | 138.4 | 154.7 |
| 47.5° | 109.3 | 76.8 | 58.1 | 48.8 | 46.5 | 50.0 | 58.1 | 73.3 | 98.8 | 119.8 | 138.4 |
| 50° | 95.4 | 67.4 | 50.0 | 41.9 | 39.5 | 43.0 | 50.0 | 61.6 | 83.7 | 102.3 | 122.1 |
| 52.5° | 86.1 | 62.8 | 44.2 | 36.1 | 34.9 | 37.2 | 43.0 | 52.3 | 70.9 | 87.2 | 105.8 |
| 55° | 83.7 | 62.8 | 40.7 | 32.6 | 31.4 | 33.7 | 38.4 | 45.4 | 61.6 | 75.6 | 91.9 |
| 57.5° | 86.1 | 67.4 | 38.4 | 27.9 | 26.7 | 29.1 | 33.7 | 39.5 | 53.5 | 65.1 | 80.2 |
| 60° | 86.1 | 68.6 | 33.7 | 22.1 | 20.9 | 23.3 | 27.9 | 34.9 | 47.7 | 57.0 | 69.8 |
| 62.5° | 77.9 | 62.8 | 27.9 | 17.4 | 15.1 | 17.4 | 23.3 | 29.1 | 41.9 | 51.2 | 61.6 |
| 65° | 67.4 | 53.5 | 23.3 | 12.8 | 10.5 | 12.8 | 18.6 | 24.4 | 36.1 | 44.2 | 55.8 |
| 67.5° | 54.7 | 40.7 | 17.4 | 9.3 | 7.0 | 9.3 | 14.0 | 19.8 | 30.2 | 38.4 | 50.0 |
| 70° | 40.7 | 29.1 | 14.0 | 8.1 | 7.0 | 8.1 | 12.8 | 18.6 | 26.7 | 34.9 | 46.5 |
| 72.5° | 30.2 | 19.8 | 11.6 | 8.1 | 5.8 | 8.1 | 11.6 | 17.4 | 25.6 | 33.7 | 44.2 |
| 75° | 25.6 | 16.3 | 10.5 | 7.0 | 5.8 | 7.0 | 10.5 | 16.3 | 23.3 | 31.4 | 41.9 |
| 77.5° | 24.4 | 15.1 | 9.3 | 5.8 | 4.7 | 5.8 | 9.3 | 14.0 | 20.9 | 29.1 | 40.7 |
| 80° | 20.9 | 12.8 | 8.1 | 4.7 | 3.5 | 4.7 | 8.1 | 11.6 | 16.3 | 22.1 | 31.4 |
| 82.5° | 16.3 | 10.5 | 5.8 | 2.3 | 1.2 | 2.3 | 5.8 | 7.0 | 10.5 | 12.8 | 18.6 |
| 85° | 10.5 | 5.8 | 2.3 | 0.0 | 0.0 | 0.0 | 2.3 | 4.7 | 4.7 | 5.8 | 9.3 |
| 87.5° | 4.7 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 2.3 | 3.5 |
| 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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|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 0° | 523.3 | 523.3 | 523.3 | 523.3 | 523.3 | 523.3 | 523.3 | 523.3 | 523.3 | 523.3 |
| 2.5° | 490.7 | 491.9 | 494.2 | 497.7 | 505.9 | 512.8 | 519.8 | 529.1 | 533.8 | 533.8 |
| 5° | 444.2 | 445.4 | 446.6 | 451.2 | 462.8 | 472.1 | 487.3 | 505.9 | 515.2 | 517.5 |
| 7.5° | 408.2 | 410.5 | 412.8 | 416.3 | 428.0 | 440.7 | 460.5 | 495.4 | 512.8 | 516.3 |
| 10° | 387.2 | 390.7 | 395.4 | 402.4 | 412.8 | 426.8 | 460.5 | 523.3 | 552.4 | 558.2 |
| 12.5° | 371.0 | 376.8 | 381.4 | 389.6 | 402.4 | 424.5 | 491.9 | 602.4 | 653.6 | 667.5 |
| 15° | 354.7 | 361.7 | 368.6 | 376.8 | 390.7 | 432.6 | 552.4 | 744.3 | 829.2 | 839.6 |
| 17.5° | 338.4 | 346.5 | 355.9 | 365.2 | 382.6 | 452.4 | 647.7 | 940.8 | 1059.4 | 1082.7 |
| 20° | 319.8 | 330.3 | 343.1 | 354.7 | 374.5 | 483.8 | 780.3 | 1174.5 | 1323.4 | 1373.4 |
| 22.5° | 300.0 | 312.8 | 327.9 | 343.1 | 365.2 | 522.1 | 940.8 | 1425.7 | 1633.9 | 1666.5 |
| 25° | 283.8 | 296.5 | 310.5 | 325.6 | 350.0 | 568.7 | 1135.0 | 1737.4 | 1926.9 | 1958.3 |
| 27.5° | 268.6 | 281.4 | 294.2 | 308.2 | 334.9 | 629.1 | 1368.7 | 2068.8 | 2266.5 | 2299.1 |
| 30° | 252.4 | 267.5 | 280.3 | 294.2 | 321.0 | 703.6 | 1638.5 | 2436.3 | 2623.5 | 2653.8 |
| 32.5° | 238.4 | 253.5 | 266.3 | 280.3 | 310.5 | 785.0 | 1922.3 | 2761.9 | 2914.3 | 2914.3 |
| 35° | 226.8 | 243.0 | 252.4 | 271.0 | 302.4 | 837.3 | 2190.9 | 3072.4 | 3187.5 | 3182.9 |
| 37.5° | 214.0 | 233.7 | 240.7 | 253.5 | 291.9 | 843.1 | 2443.3 | 3400.3 | 3485.2 | 3455.0 |
| 40° | 201.2 | 222.1 | 232.6 | 239.6 | 280.3 | 795.4 | 2720.0 | 3701.5 | 3773.6 | 3734.1 |
| 42.5° | 189.6 | 205.8 | 221.0 | 229.1 | 273.3 | 711.7 | 2942.2 | 4023.7 | 4109.7 | 4074.8 |
| 45° | 177.9 | 191.9 | 201.2 | 216.3 | 277.9 | 653.6 | 3132.9 | 4399.3 | 4550.5 | 4524.9 |
| 47.5° | 166.3 | 177.9 | 183.7 | 207.0 | 309.3 | 626.8 | 3249.2 | 4980.7 | 5265.7 | 5244.7 |
| 50° | 153.5 | 167.5 | 167.5 | 204.7 | 355.9 | 636.1 | 3350.3 | 5822.7 | 6263.4 | 6256.5 |
| 52.5° | 140.7 | 155.8 | 153.5 | 222.1 | 391.9 | 679.1 | 3465.5 | 6565.8 | 7332.1 | 7396.1 |
| 55° | 127.9 | 141.9 | 144.2 | 257.0 | 412.8 | 716.4 | 3020.1 | 6878.6 | 8245.0 | 8469.5 |
| 57.5° | 114.0 | 122.1 | 150.0 | 283.8 | 405.9 | 824.5 | 2068.8 | 6935.6 | 8827.7 | 9309.1 |
| 60° | 98.8 | 105.8 | 169.8 | 277.9 | 383.8 | 761.7 | 1302.5 | 6423.9 | 8745.1 | 9355.6 |
| 62.5° | 86.1 | 97.7 | 179.1 | 245.4 | 390.7 | 660.5 | 830.3 | 5475.0 | 7957.8 | 8654.4 |
| 65° | 75.6 | 94.2 | 162.8 | 222.1 | 395.4 | 447.7 | 560.5 | 4453.9 | 7189.1 | 7852.0 |
| 67.5° | 67.4 | 104.7 | 133.7 | 197.7 | 339.6 | 315.1 | 384.9 | 3460.8 | 6044.8 | 6639.1 |
| 70° | 61.6 | 107.0 | 109.3 | 169.8 | 262.8 | 202.3 | 253.5 | 2329.3 | 4166.7 | 4845.8 |
| 72.5° | 55.8 | 79.1 | 82.6 | 136.1 | 169.8 | 123.3 | 164.0 | 1332.7 | 3037.5 | 3500.4 |
| 75° | 53.5 | 53.5 | 57.0 | 88.4 | 94.2 | 89.5 | 105.8 | 795.4 | 2178.1 | 2516.5 |
| 77.5° | 50.0 | 40.7 | 36.1 | 57.0 | 51.2 | 64.0 | 62.8 | 353.5 | 944.3 | 1021.0 |
| 80° | 39.5 | 29.1 | 24.4 | 36.1 | 34.9 | 43.0 | 37.2 | 29.1 | 43.0 | 41.9 |
| 82.5° | 24.4 | 18.6 | 17.4 | 22.1 | 19.8 | 22.1 | 17.4 | 4.7 | 4.7 | 4.7 |
| 85° | 11.6 | 10.5 | 9.3 | 9.3 | 10.5 | 9.3 | 7.0 | 2.3 | 1.2 | 1.2 |
| 87.5° | 5.8 | 5.8 | 4.7 | 3.5 | 4.7 | 4.7 | 3.5 | 1.2 | 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 |

(END OF REPORT)