

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: P630950

Luminaire Tested: GWS-SA1E-760-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630950
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-SA1E-760-U-SLR-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4744.5 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

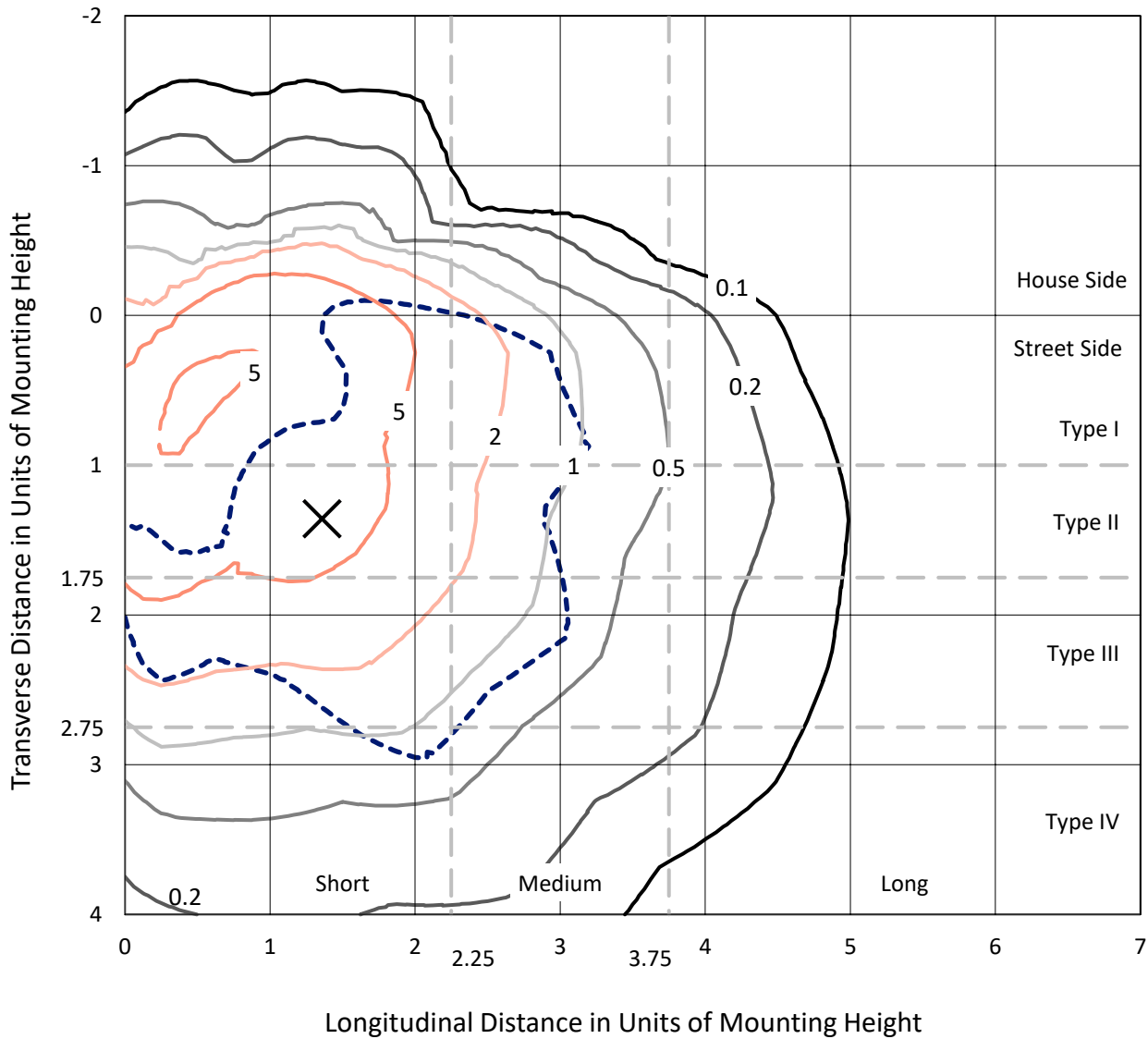
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P630950
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Iso-Footcandle Lines of Horizontal Illumination

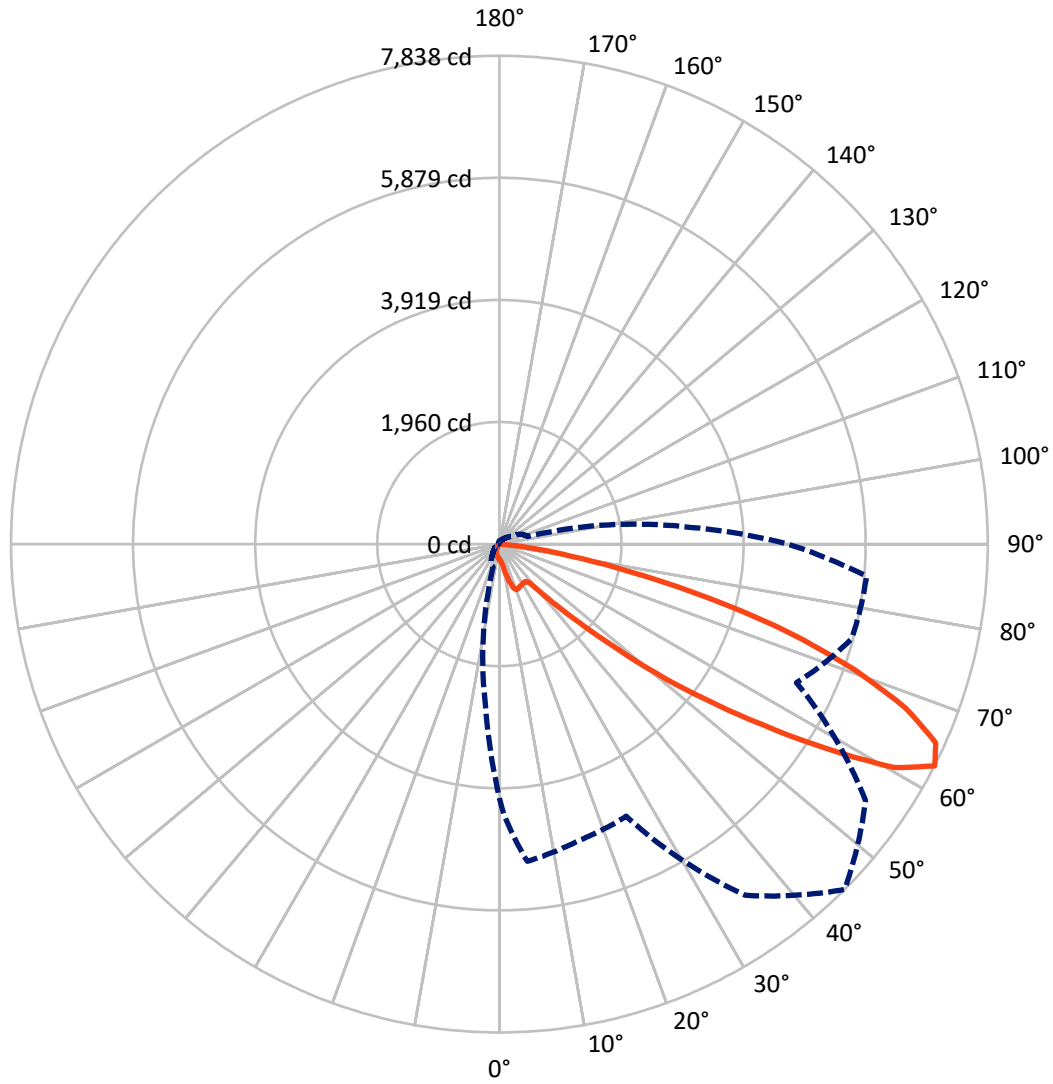
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.6 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 | 585.5 | 0.0 | 585.5 |
| | % Fixture | 12.3 | 0.0 | 12.3 |
| Street Side | Lumens | 4159.0 | 0.0 | 4159.0 |
| | % Fixture | 87.7 | 0.0 | 87.7 |
| Total | Lumens | 4744.5 | 0.0 | 4744.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 21.9 | 0.5 |
| 10°-20° | 82.7 | 1.7 |
| 20°-30° | 179.8 | 3.8 |
| 30°-40° | 295.1 | 6.2 |
| 40°-50° | 542.6 | 11.4 |
| 50°-60° | 1165.2 | 24.6 |
| 60°-70° | 1565.0 | 33.0 |
| 70°-80° | 814.9 | 17.2 |
| 80°-90° | 77.3 | 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° | 4744.5 | 100.0 |
| 0°-180° | 4744.5 | 100.0 |

Coefficient of Utilization



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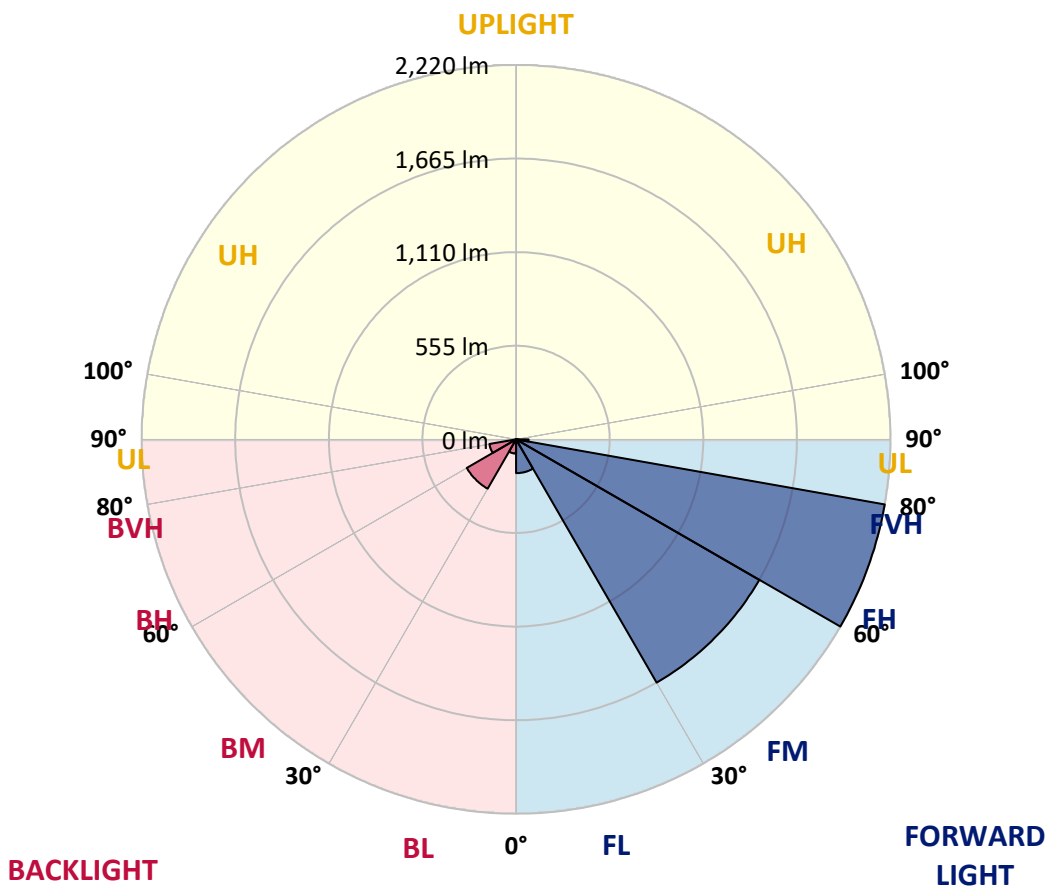
CATALOG NUMBER: GWS-SA1E-760-U-SLR-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 200.4 | 4.2 | | | |
| FM (30°-60°) | 1665.3 | 35.1 | | | |
| FH (60°-80°) | 2219.5 | 46.8 | | | G2/5000 |
| FVH (80°-90°) | 73.8 | 1.6 | | | G1/100 |
| BL (0°-30°) | 84.0 | 1.8 | B0/110 | | |
| BM (30°-60°) | 337.6 | 7.1 | B1/1000 | | |
| BH (60°-80°) | 160.4 | 3.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.4 | 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° | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 |
| 2.5° | 251.5 | 252.6 | 253.7 | 257.6 | 260.3 | 262.5 | 263.1 | 261.4 | 257.6 | 253.7 | 248.3 |
| 5° | 243.9 | 245.0 | 248.8 | 259.2 | 269.6 | 277.9 | 280.6 | 278.9 | 269.6 | 257.6 | 245.0 |
| 7.5° | 243.3 | 245.5 | 254.8 | 276.8 | 299.2 | 316.2 | 320.6 | 316.8 | 299.2 | 275.1 | 249.4 |
| 10° | 263.1 | 266.9 | 280.6 | 320.1 | 361.2 | 391.3 | 403.4 | 386.9 | 359.0 | 315.1 | 272.9 |
| 12.5° | 314.6 | 321.1 | 347.5 | 405.0 | 468.6 | 508.6 | 525.0 | 504.7 | 460.9 | 397.3 | 330.5 |
| 15° | 395.7 | 405.5 | 445.0 | 531.0 | 606.1 | 641.7 | 647.2 | 635.7 | 584.8 | 514.6 | 424.7 |
| 17.5° | 510.2 | 524.5 | 585.8 | 673.5 | 727.8 | 740.4 | 738.7 | 726.7 | 689.4 | 641.2 | 556.3 |
| 20° | 647.2 | 664.2 | 724.5 | 796.8 | 802.3 | 787.5 | 779.3 | 772.2 | 759.6 | 751.4 | 685.0 |
| 22.5° | 785.3 | 806.2 | 869.2 | 887.3 | 837.9 | 795.2 | 774.9 | 780.4 | 799.0 | 839.6 | 812.7 |
| 25° | 922.9 | 942.6 | 1001.8 | 953.0 | 854.4 | 783.1 | 757.4 | 770.5 | 814.9 | 902.6 | 937.1 |
| 27.5° | 1083.5 | 1098.3 | 1133.3 | 998.0 | 857.1 | 773.3 | 748.1 | 768.3 | 822.6 | 942.1 | 1073.6 |
| 30° | 1250.6 | 1259.4 | 1242.4 | 1010.0 | 847.8 | 758.5 | 738.7 | 768.3 | 835.7 | 968.4 | 1176.1 |
| 32.5° | 1373.4 | 1375.0 | 1319.7 | 1011.1 | 842.9 | 746.4 | 730.0 | 765.1 | 848.4 | 990.3 | 1275.3 |
| 35° | 1500.0 | 1491.7 | 1393.6 | 1027.6 | 856.0 | 750.8 | 736.6 | 774.4 | 868.1 | 1016.1 | 1362.4 |
| 37.5° | 1628.2 | 1613.4 | 1476.4 | 1054.4 | 890.0 | 798.5 | 789.7 | 822.0 | 899.9 | 1051.7 | 1458.3 |
| 40° | 1759.7 | 1739.5 | 1562.4 | 1095.0 | 965.6 | 960.7 | 990.8 | 987.0 | 987.0 | 1097.2 | 1557.0 |
| 42.5° | 1920.3 | 1896.7 | 1689.6 | 1209.5 | 1142.1 | 1252.3 | 1334.5 | 1283.5 | 1189.2 | 1201.8 | 1685.2 |
| 45° | 2132.4 | 2112.1 | 1909.9 | 1428.7 | 1418.9 | 1672.0 | 1782.8 | 1681.9 | 1447.4 | 1443.5 | 1899.5 |
| 47.5° | 2471.6 | 2467.8 | 2261.2 | 1683.0 | 1757.5 | 2206.4 | 2420.1 | 2226.1 | 1741.6 | 1699.4 | 2305.0 |
| 50° | 2948.4 | 2936.9 | 2699.1 | 1981.1 | 2160.3 | 2868.4 | 3249.8 | 2926.5 | 2097.3 | 1998.1 | 2848.1 |
| 52.5° | 3485.5 | 3497.5 | 3312.3 | 2306.7 | 2588.4 | 3605.0 | 4136.0 | 3728.8 | 2483.7 | 2377.9 | 3531.5 |
| 55° | 3991.3 | 4060.4 | 4011.6 | 2687.6 | 3006.5 | 4418.2 | 5109.3 | 4609.0 | 2962.1 | 2875.0 | 4297.7 |
| 57.5° | 4387.0 | 4581.6 | 4923.5 | 3241.1 | 3498.1 | 5369.6 | 6196.1 | 5563.1 | 3520.6 | 3682.2 | 5340.6 |
| 60° | 4408.9 | 4666.5 | 5460.6 | 4399.1 | 4130.5 | 6185.6 | 7281.2 | 6495.3 | 4398.5 | 5052.9 | 6157.7 |
| 62.5° | 4078.5 | 4354.7 | 5111.0 | 4925.2 | 4819.4 | 6880.0 | 7838.0 | 7174.8 | 5262.2 | 5855.7 | 5915.5 |
| 65° | 3700.3 | 3979.3 | 4720.8 | 4328.4 | 4739.4 | 6850.4 | 7696.6 | 7190.7 | 5340.6 | 5309.9 | 5482.0 |
| 67.5° | 3128.7 | 3379.2 | 4050.5 | 3831.3 | 4368.4 | 6519.9 | 7043.3 | 6737.5 | 4920.2 | 4966.3 | 5043.0 |
| 70° | 2283.7 | 2524.8 | 3147.9 | 3158.9 | 3814.9 | 5924.2 | 6051.9 | 6009.7 | 4531.1 | 4579.9 | 4360.7 |
| 72.5° | 1649.6 | 1852.9 | 2390.5 | 2590.6 | 3045.4 | 4967.9 | 4879.7 | 5042.4 | 3887.7 | 4079.0 | 3502.5 |
| 75° | 1185.9 | 1338.3 | 1753.7 | 2253.5 | 2414.1 | 3689.4 | 3493.2 | 3905.3 | 3119.4 | 3512.3 | 2633.3 |
| 77.5° | 481.2 | 534.9 | 690.0 | 1518.1 | 1586.6 | 2482.0 | 2138.4 | 2836.6 | 2223.9 | 2307.8 | 1276.4 |
| 80° | 19.7 | 21.9 | 28.5 | 783.7 | 1087.8 | 1396.4 | 1144.3 | 1516.4 | 1468.7 | 929.5 | 301.4 |
| 82.5° | 2.2 | 2.2 | 4.9 | 225.8 | 476.2 | 770.5 | 539.3 | 873.6 | 743.7 | 394.0 | 137.0 |
| 85° | 0.5 | 0.5 | 1.1 | 25.8 | 111.8 | 123.3 | 72.9 | 268.0 | 345.8 | 161.1 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.7 | 4.9 | 5.5 | 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° | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 |
| 2.5° | 248.3 | 245.5 | 242.2 | 238.9 | 237.3 | 232.9 | 231.3 | 230.2 | 229.1 | 229.6 | 229.6 |
| 5° | 240.0 | 234.0 | 226.9 | 219.8 | 215.9 | 211.5 | 209.3 | 208.3 | 208.8 | 211.0 | 211.0 |
| 7.5° | 238.9 | 227.4 | 212.1 | 202.8 | 198.4 | 195.1 | 192.9 | 191.8 | 192.4 | 195.1 | 196.2 |
| 10° | 257.0 | 236.8 | 209.3 | 193.5 | 188.5 | 185.2 | 183.0 | 181.4 | 180.3 | 182.5 | 183.0 |
| 12.5° | 295.9 | 268.0 | 222.5 | 192.4 | 183.6 | 179.2 | 177.6 | 174.3 | 172.6 | 173.7 | 174.3 |
| 15° | 376.5 | 328.3 | 248.8 | 196.7 | 179.2 | 174.3 | 171.5 | 168.8 | 166.1 | 165.5 | 166.1 |
| 17.5° | 481.7 | 412.7 | 288.8 | 207.2 | 175.9 | 169.9 | 166.1 | 162.2 | 158.4 | 157.8 | 157.3 |
| 20° | 612.2 | 516.2 | 344.7 | 223.6 | 173.2 | 166.1 | 160.6 | 155.1 | 150.2 | 148.5 | 148.5 |
| 22.5° | 731.1 | 641.2 | 416.5 | 243.9 | 169.3 | 160.6 | 154.0 | 147.4 | 141.9 | 139.2 | 138.7 |
| 25° | 876.3 | 773.8 | 502.5 | 267.4 | 163.9 | 153.4 | 146.3 | 139.7 | 134.3 | 131.0 | 129.9 |
| 27.5° | 1022.6 | 913.6 | 600.1 | 298.1 | 157.3 | 146.3 | 139.7 | 133.7 | 127.7 | 123.9 | 122.8 |
| 30° | 1164.6 | 1064.3 | 709.7 | 336.5 | 152.4 | 139.2 | 133.7 | 127.7 | 122.2 | 116.2 | 114.5 |
| 32.5° | 1316.9 | 1218.3 | 832.5 | 379.2 | 148.5 | 134.3 | 128.2 | 122.8 | 115.6 | 110.2 | 107.4 |
| 35° | 1463.8 | 1377.2 | 967.8 | 420.9 | 144.7 | 129.9 | 123.3 | 117.8 | 110.2 | 104.1 | 100.3 |
| 37.5° | 1611.8 | 1538.9 | 1109.2 | 446.1 | 139.2 | 123.9 | 117.8 | 113.4 | 104.7 | 97.5 | 93.2 |
| 40° | 1768.5 | 1706.0 | 1262.1 | 435.7 | 134.3 | 117.3 | 114.0 | 109.1 | 99.2 | 91.0 | 85.5 |
| 42.5° | 1940.6 | 1865.5 | 1417.8 | 395.7 | 129.9 | 111.8 | 108.5 | 103.6 | 94.3 | 84.4 | 77.3 |
| 45° | 2157.1 | 2040.3 | 1545.5 | 335.4 | 132.1 | 106.3 | 99.7 | 98.6 | 89.9 | 77.3 | 68.5 |
| 47.5° | 2529.2 | 2308.9 | 1644.6 | 296.5 | 146.9 | 100.3 | 92.6 | 95.4 | 86.0 | 70.1 | 60.3 |
| 50° | 3098.6 | 2753.9 | 1737.3 | 293.7 | 169.3 | 97.5 | 86.0 | 93.2 | 82.2 | 63.0 | 53.2 |
| 52.5° | 3641.1 | 3206.0 | 1796.5 | 317.9 | 189.1 | 104.7 | 79.5 | 90.4 | 79.5 | 58.1 | 48.2 |
| 55° | 4160.1 | 3466.9 | 1690.7 | 335.4 | 207.7 | 126.0 | 74.5 | 86.0 | 76.2 | 55.4 | 46.6 |
| 57.5° | 4719.7 | 3583.0 | 1331.2 | 371.0 | 220.9 | 144.1 | 75.6 | 79.5 | 71.8 | 53.7 | 46.0 |
| 60° | 4886.8 | 3434.5 | 803.4 | 417.6 | 213.7 | 149.6 | 83.8 | 70.7 | 65.8 | 50.4 | 44.4 |
| 62.5° | 4627.0 | 3082.1 | 474.0 | 380.3 | 207.7 | 141.4 | 95.9 | 65.2 | 59.7 | 46.0 | 41.1 |
| 65° | 4238.5 | 2603.7 | 309.1 | 321.1 | 220.3 | 126.0 | 101.9 | 62.5 | 54.3 | 41.7 | 36.2 |
| 67.5° | 3794.6 | 2097.3 | 216.5 | 189.6 | 203.3 | 113.4 | 86.0 | 61.9 | 48.8 | 35.1 | 29.6 |
| 70° | 3196.1 | 1570.7 | 152.4 | 125.5 | 169.3 | 100.8 | 66.9 | 60.3 | 42.7 | 28.5 | 23.0 |
| 72.5° | 2469.4 | 983.2 | 113.4 | 81.1 | 120.6 | 82.2 | 53.2 | 51.0 | 34.5 | 23.6 | 17.5 |
| 75° | 1821.1 | 560.6 | 80.0 | 58.6 | 79.5 | 62.5 | 39.5 | 36.2 | 29.6 | 22.5 | 15.9 |
| 77.5° | 950.8 | 280.6 | 49.9 | 44.9 | 45.5 | 38.9 | 28.5 | 26.3 | 27.4 | 22.5 | 14.8 |
| 80° | 182.5 | 55.9 | 30.1 | 32.9 | 24.7 | 24.7 | 20.8 | 21.9 | 24.1 | 18.1 | 12.6 |
| 82.5° | 76.2 | 12.1 | 16.4 | 18.6 | 15.3 | 17.0 | 17.0 | 17.5 | 17.0 | 13.2 | 9.3 |
| 85° | 0.0 | 0.0 | 7.1 | 7.7 | 10.4 | 10.4 | 8.8 | 8.8 | 8.8 | 7.7 | 5.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 1.6 | 3.3 | 3.8 | 4.4 | 3.3 | 2.2 |
| 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-SA1E-760-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 |
| 2.5° | 229.1 | 228.0 | 229.6 | 230.7 | 231.8 | 231.8 | 230.7 | 229.6 | 228.0 | 229.6 | 228.0 |
| 5° | 211.5 | 213.2 | 215.9 | 217.0 | 218.1 | 215.9 | 214.8 | 211.5 | 208.8 | 209.3 | 208.3 |
| 7.5° | 197.8 | 199.5 | 202.8 | 205.0 | 205.0 | 203.9 | 200.6 | 197.3 | 192.9 | 192.9 | 192.4 |
| 10° | 185.2 | 187.4 | 191.3 | 194.0 | 195.1 | 194.0 | 190.7 | 186.3 | 182.5 | 182.5 | 180.9 |
| 12.5° | 174.8 | 177.6 | 181.9 | 185.8 | 186.9 | 185.8 | 182.5 | 178.1 | 173.7 | 173.7 | 172.6 |
| 15° | 166.1 | 169.3 | 174.3 | 178.7 | 180.3 | 178.7 | 174.8 | 169.3 | 165.0 | 165.5 | 163.9 |
| 17.5° | 157.8 | 160.6 | 167.1 | 172.1 | 173.7 | 172.1 | 167.1 | 160.0 | 155.6 | 156.7 | 155.6 |
| 20° | 148.5 | 151.8 | 158.4 | 163.9 | 165.5 | 163.9 | 158.4 | 150.7 | 146.3 | 146.3 | 146.9 |
| 22.5° | 138.7 | 141.9 | 148.5 | 152.4 | 154.5 | 152.9 | 147.4 | 140.3 | 135.9 | 135.9 | 136.5 |
| 25° | 129.9 | 131.5 | 136.5 | 140.3 | 140.8 | 139.2 | 134.8 | 129.3 | 126.0 | 127.7 | 128.2 |
| 27.5° | 121.7 | 121.7 | 123.9 | 126.0 | 125.5 | 123.9 | 122.2 | 117.8 | 117.3 | 118.9 | 120.6 |
| 30° | 112.9 | 110.2 | 109.1 | 107.4 | 106.9 | 106.3 | 108.0 | 108.0 | 109.1 | 111.3 | 112.9 |
| 32.5° | 105.2 | 99.7 | 94.8 | 89.9 | 87.1 | 89.3 | 93.7 | 97.5 | 101.4 | 104.7 | 106.3 |
| 35° | 96.5 | 87.7 | 79.5 | 72.9 | 68.5 | 71.8 | 78.9 | 86.0 | 92.6 | 97.0 | 99.7 |
| 37.5° | 87.7 | 75.1 | 65.2 | 57.0 | 53.7 | 56.4 | 64.1 | 74.0 | 83.8 | 89.3 | 93.2 |
| 40° | 78.4 | 62.5 | 51.0 | 44.4 | 41.1 | 43.8 | 51.5 | 61.4 | 74.5 | 81.7 | 86.6 |
| 42.5° | 69.1 | 51.5 | 41.1 | 34.5 | 32.9 | 34.5 | 40.6 | 50.4 | 64.7 | 73.4 | 80.0 |
| 45° | 59.7 | 42.7 | 32.9 | 27.9 | 26.3 | 27.9 | 32.9 | 41.1 | 55.4 | 65.2 | 72.9 |
| 47.5° | 51.5 | 36.2 | 27.4 | 23.0 | 21.9 | 23.6 | 27.4 | 34.5 | 46.6 | 56.4 | 65.2 |
| 50° | 44.9 | 31.8 | 23.6 | 19.7 | 18.6 | 20.3 | 23.6 | 29.0 | 39.5 | 48.2 | 57.5 |
| 52.5° | 40.6 | 29.6 | 20.8 | 17.0 | 16.4 | 17.5 | 20.3 | 24.7 | 33.4 | 41.1 | 49.9 |
| 55° | 39.5 | 29.6 | 19.2 | 15.3 | 14.8 | 15.9 | 18.1 | 21.4 | 29.0 | 35.6 | 43.3 |
| 57.5° | 40.6 | 31.8 | 18.1 | 13.2 | 12.6 | 13.7 | 15.9 | 18.6 | 25.2 | 30.7 | 37.8 |
| 60° | 40.6 | 32.3 | 15.9 | 10.4 | 9.9 | 11.0 | 13.2 | 16.4 | 22.5 | 26.9 | 32.9 |
| 62.5° | 36.7 | 29.6 | 13.2 | 8.2 | 7.1 | 8.2 | 11.0 | 13.7 | 19.7 | 24.1 | 29.0 |
| 65° | 31.8 | 25.2 | 11.0 | 6.0 | 4.9 | 6.0 | 8.8 | 11.5 | 17.0 | 20.8 | 26.3 |
| 67.5° | 25.8 | 19.2 | 8.2 | 4.4 | 3.3 | 4.4 | 6.6 | 9.3 | 14.2 | 18.1 | 23.6 |
| 70° | 19.2 | 13.7 | 6.6 | 3.8 | 3.3 | 3.8 | 6.0 | 8.8 | 12.6 | 16.4 | 21.9 |
| 72.5° | 14.2 | 9.3 | 5.5 | 3.8 | 2.7 | 3.8 | 5.5 | 8.2 | 12.1 | 15.9 | 20.8 |
| 75° | 12.1 | 7.7 | 4.9 | 3.3 | 2.7 | 3.3 | 4.9 | 7.7 | 11.0 | 14.8 | 19.7 |
| 77.5° | 11.5 | 7.1 | 4.4 | 2.7 | 2.2 | 2.7 | 4.4 | 6.6 | 9.9 | 13.7 | 19.2 |
| 80° | 9.9 | 6.0 | 3.8 | 2.2 | 1.6 | 2.2 | 3.8 | 5.5 | 7.7 | 10.4 | 14.8 |
| 82.5° | 7.7 | 4.9 | 2.7 | 1.1 | 0.5 | 1.1 | 2.7 | 3.3 | 4.9 | 6.0 | 8.8 |
| 85° | 4.9 | 2.7 | 1.1 | 0.0 | 0.0 | 0.0 | 1.1 | 2.2 | 2.2 | 2.7 | 4.4 |
| 87.5° | 2.2 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 1.1 | 1.6 |
| 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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| 0° | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 |
| 2.5° | 231.3 | 231.8 | 232.9 | 234.6 | 238.4 | 241.7 | 245.0 | 249.4 | 251.5 | 251.5 |
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| 10° | 182.5 | 184.1 | 186.3 | 189.6 | 194.6 | 201.1 | 217.0 | 246.6 | 260.3 | 263.1 |
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| 15° | 167.1 | 170.4 | 173.7 | 177.6 | 184.1 | 203.9 | 260.3 | 350.7 | 390.7 | 395.7 |
| 17.5° | 159.5 | 163.3 | 167.7 | 172.1 | 180.3 | 213.2 | 305.3 | 443.4 | 499.3 | 510.2 |
| 20° | 150.7 | 155.6 | 161.7 | 167.1 | 176.5 | 228.0 | 367.7 | 553.5 | 623.7 | 647.2 |
| 22.5° | 141.4 | 147.4 | 154.5 | 161.7 | 172.1 | 246.1 | 443.4 | 671.9 | 770.0 | 785.3 |
| 25° | 133.7 | 139.7 | 146.3 | 153.4 | 165.0 | 268.0 | 534.9 | 818.8 | 908.1 | 922.9 |
| 27.5° | 126.6 | 132.6 | 138.7 | 145.2 | 157.8 | 296.5 | 645.0 | 975.0 | 1068.1 | 1083.5 |
| 30° | 118.9 | 126.0 | 132.1 | 138.7 | 151.3 | 331.6 | 772.2 | 1148.1 | 1236.4 | 1250.6 |
| 32.5° | 112.3 | 119.5 | 125.5 | 132.1 | 146.3 | 369.9 | 905.9 | 1301.6 | 1373.4 | 1373.4 |
| 35° | 106.9 | 114.5 | 118.9 | 127.7 | 142.5 | 394.6 | 1032.5 | 1447.9 | 1502.2 | 1500.0 |
| 37.5° | 100.8 | 110.2 | 113.4 | 119.5 | 137.6 | 397.3 | 1151.4 | 1602.4 | 1642.5 | 1628.2 |
| 40° | 94.8 | 104.7 | 109.6 | 112.9 | 132.1 | 374.9 | 1281.8 | 1744.4 | 1778.4 | 1759.7 |
| 42.5° | 89.3 | 97.0 | 104.1 | 108.0 | 128.8 | 335.4 | 1386.5 | 1896.2 | 1936.7 | 1920.3 |
| 45° | 83.8 | 90.4 | 94.8 | 101.9 | 131.0 | 308.0 | 1476.4 | 2073.2 | 2144.5 | 2132.4 |
| 47.5° | 78.4 | 83.8 | 86.6 | 97.5 | 145.8 | 295.4 | 1531.2 | 2347.2 | 2481.5 | 2471.6 |
| 50° | 72.3 | 78.9 | 78.9 | 96.5 | 167.7 | 299.8 | 1578.9 | 2744.0 | 2951.7 | 2948.4 |
| 52.5° | 66.3 | 73.4 | 72.3 | 104.7 | 184.7 | 320.1 | 1633.1 | 3094.2 | 3455.3 | 3485.5 |
| 55° | 60.3 | 66.9 | 68.0 | 121.1 | 194.6 | 337.6 | 1423.2 | 3241.6 | 3885.6 | 3991.3 |
| 57.5° | 53.7 | 57.5 | 70.7 | 133.7 | 191.3 | 388.6 | 975.0 | 3268.5 | 4160.1 | 4387.0 |
| 60° | 46.6 | 49.9 | 80.0 | 131.0 | 180.9 | 359.0 | 613.8 | 3027.3 | 4121.2 | 4408.9 |
| 62.5° | 40.6 | 46.0 | 84.4 | 115.6 | 184.1 | 311.3 | 391.3 | 2580.1 | 3750.2 | 4078.5 |
| 65° | 35.6 | 44.4 | 76.7 | 104.7 | 186.3 | 211.0 | 264.2 | 2099.0 | 3387.9 | 3700.3 |
| 67.5° | 31.8 | 49.3 | 63.0 | 93.2 | 160.0 | 148.5 | 181.4 | 1630.9 | 2848.7 | 3128.7 |
| 70° | 29.0 | 50.4 | 51.5 | 80.0 | 123.9 | 95.4 | 119.5 | 1097.7 | 1963.6 | 2283.7 |
| 72.5° | 26.3 | 37.3 | 38.9 | 64.1 | 80.0 | 58.1 | 77.3 | 628.0 | 1431.5 | 1649.6 |
| 75° | 25.2 | 25.2 | 26.9 | 41.7 | 44.4 | 42.2 | 49.9 | 374.9 | 1026.5 | 1185.9 |
| 77.5° | 23.6 | 19.2 | 17.0 | 26.9 | 24.1 | 30.1 | 29.6 | 166.6 | 445.0 | 481.2 |
| 80° | 18.6 | 13.7 | 11.5 | 17.0 | 16.4 | 20.3 | 17.5 | 13.7 | 20.3 | 19.7 |
| 82.5° | 11.5 | 8.8 | 8.2 | 10.4 | 9.3 | 10.4 | 8.2 | 2.2 | 2.2 | 2.2 |
| 85° | 5.5 | 4.9 | 4.4 | 4.4 | 4.9 | 4.4 | 3.3 | 1.1 | 0.5 | 0.5 |
| 87.5° | 2.7 | 2.7 | 2.2 | 1.6 | 2.2 | 2.2 | 1.6 | 0.5 | 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)