

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: P632930

Luminaire Tested: GWS-SA2D-760-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632930
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-SA2D-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7310.6 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

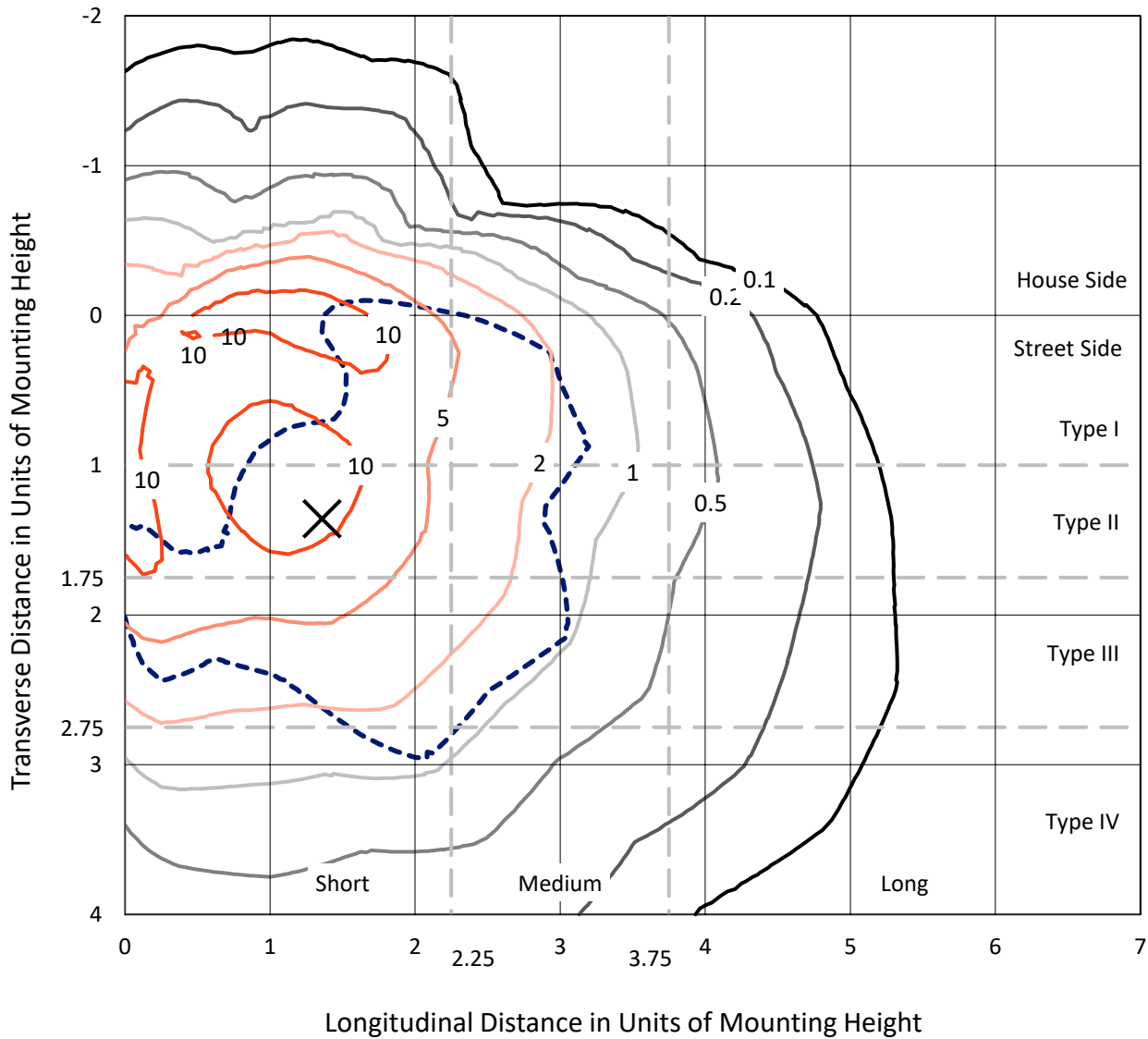
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

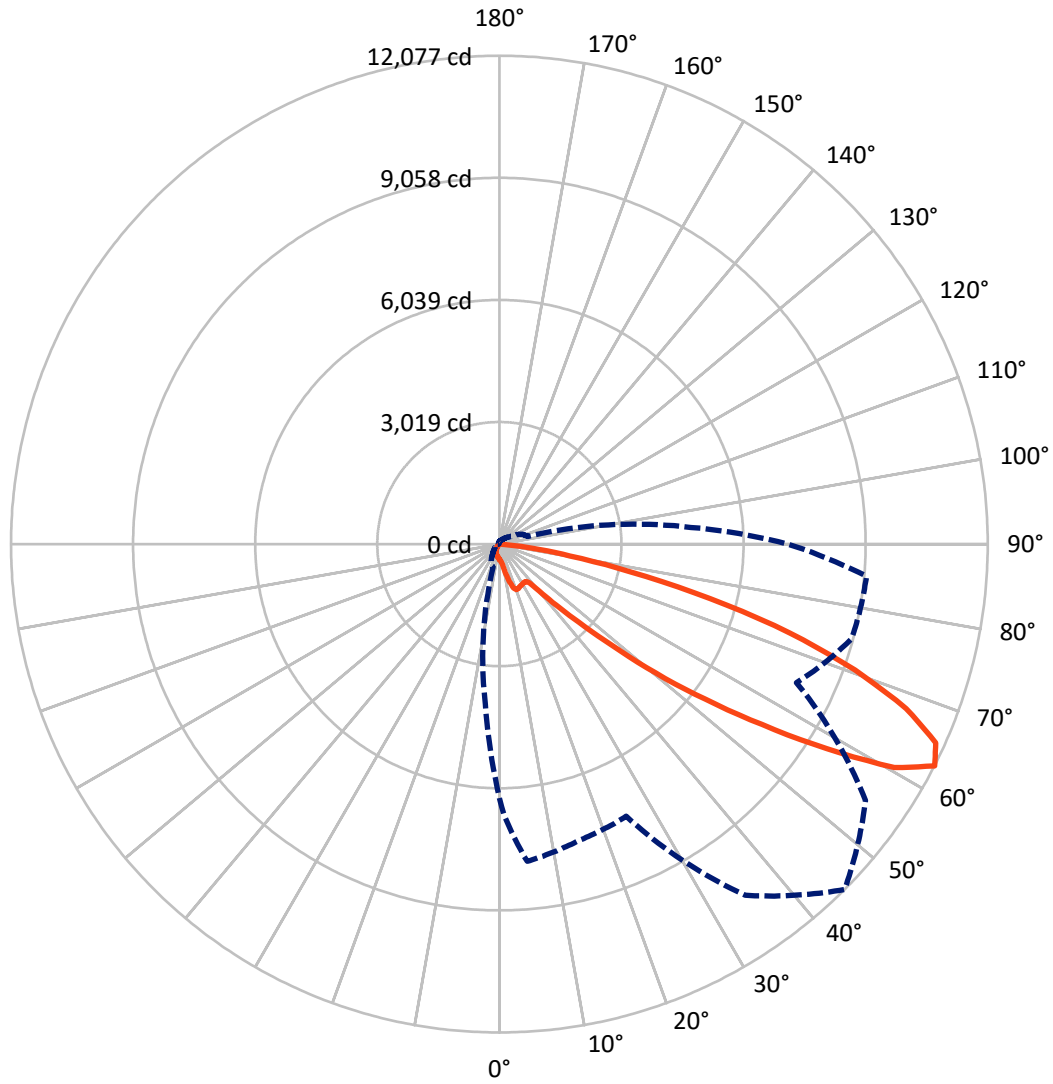
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.8 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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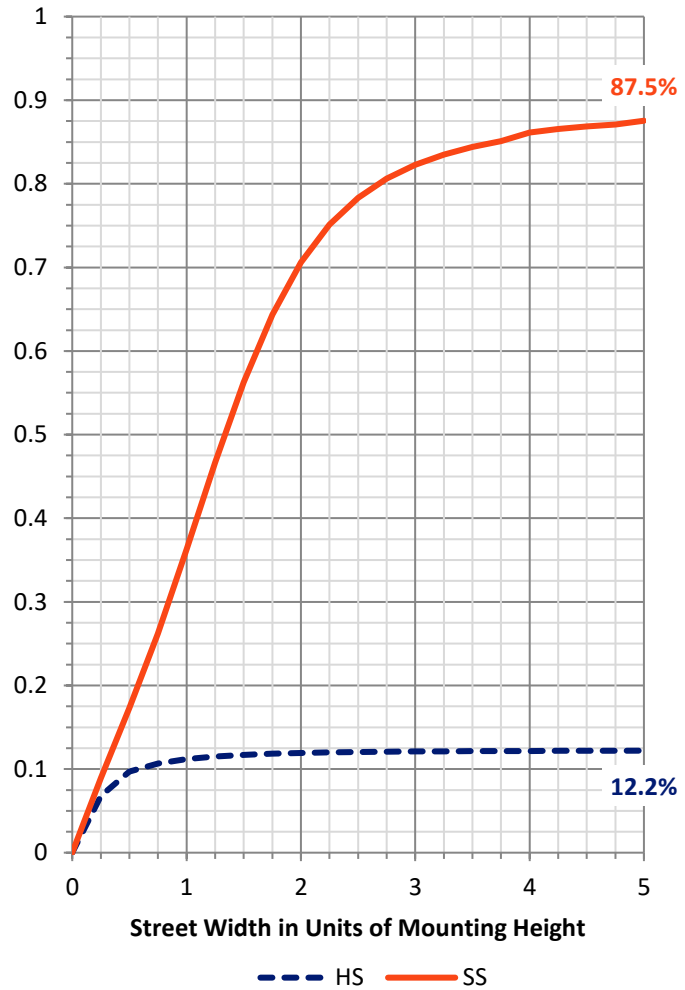
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 902.1 | 0.0 | 902.1 |
| | % Fixture | 12.3 | 0.0 | 12.3 |
| Street Side | Lumens | 6408.5 | 0.0 | 6408.5 |
| | % Fixture | 87.7 | 0.0 | 87.7 |
| Total | Lumens | 7310.6 | 0.0 | 7310.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 33.7 | 0.5 |
| 10°-20° | 127.5 | 1.7 |
| 20°-30° | 277.1 | 3.8 |
| 30°-40° | 454.8 | 6.2 |
| 40°-50° | 836.0 | 11.4 |
| 50°-60° | 1795.4 | 24.6 |
| 60°-70° | 2411.5 | 33.0 |
| 70°-80° | 1255.7 | 17.2 |
| 80°-90° | 119.1 | 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° | 7310.6 | 100.0 |
| 0°-180° | 7310.6 | 100.0 |

Coefficient of Utilization



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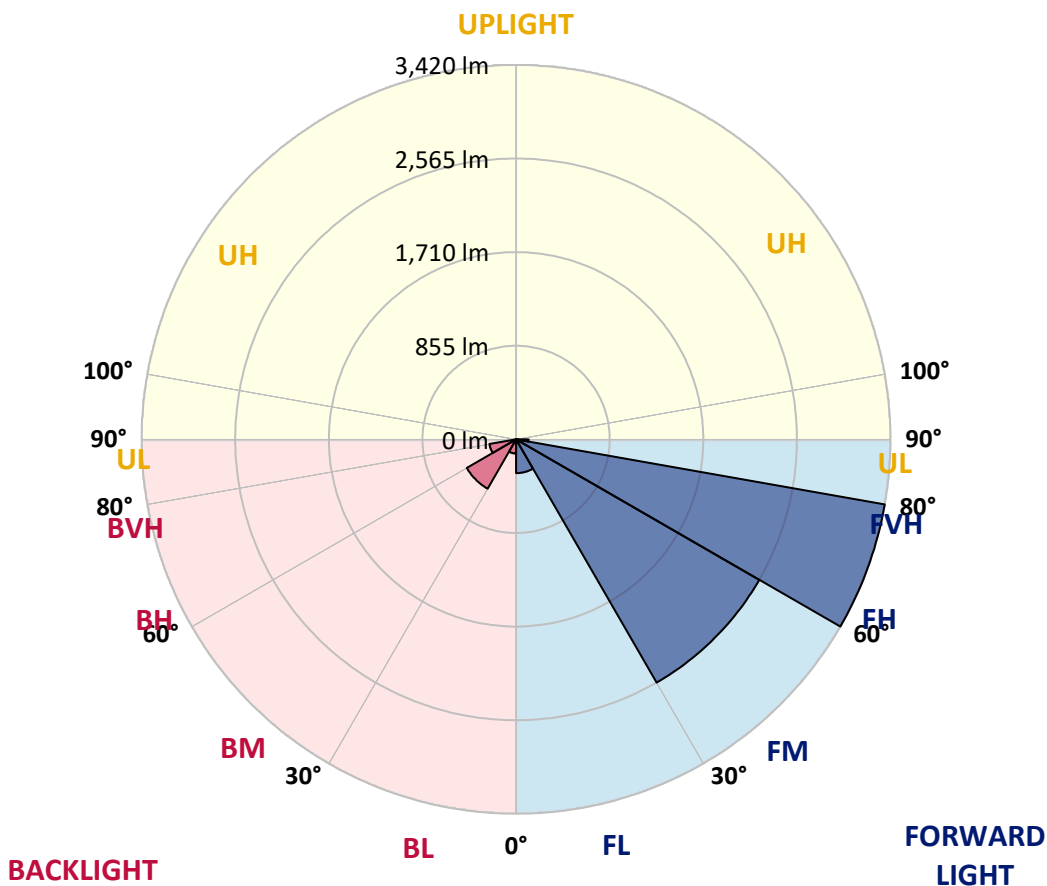
CATALOG NUMBER: GWS-SA2D-760-U-SLR-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 308.8 | 4.2 | | | |
| FM (30°-60°) | 2565.9 | 35.1 | | | |
| FH (60°-80°) | 3420.0 | 46.8 | | | G2/5000 |
| FVH (80°-90°) | 113.7 | 1.6 | | | G2/225 |
| BL (0°-30°) | 129.4 | 1.8 | B1/500 | | |
| BM (30°-60°) | 520.2 | 7.1 | B1/1000 | | |
| BH (60°-80°) | 247.2 | 3.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.3 | 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° | 380.0 | 380.0 | 380.0 | 380.0 | 380.0 | 380.0 | 380.0 | 380.0 | 380.0 | 380.0 | 380.0 |
| 2.5° | 387.6 | 389.3 | 391.0 | 396.9 | 401.1 | 404.5 | 405.3 | 402.8 | 396.9 | 391.0 | 382.5 |
| 5° | 375.8 | 377.5 | 383.4 | 399.4 | 415.5 | 428.1 | 432.4 | 429.8 | 415.5 | 396.9 | 377.5 |
| 7.5° | 374.9 | 378.3 | 392.7 | 426.4 | 461.1 | 487.2 | 494.0 | 488.1 | 461.1 | 423.9 | 384.2 |
| 10° | 405.3 | 411.2 | 432.4 | 493.2 | 556.5 | 602.9 | 621.5 | 596.2 | 553.1 | 485.6 | 420.5 |
| 12.5° | 484.7 | 494.8 | 535.4 | 624.0 | 722.0 | 783.6 | 809.0 | 777.7 | 710.2 | 612.2 | 509.2 |
| 15° | 609.7 | 624.9 | 685.7 | 818.3 | 934.0 | 988.8 | 997.3 | 979.6 | 901.0 | 792.9 | 654.4 |
| 17.5° | 786.2 | 808.1 | 902.7 | 1037.8 | 1121.4 | 1140.8 | 1138.3 | 1119.7 | 1062.3 | 988.0 | 857.1 |
| 20° | 997.3 | 1023.5 | 1116.4 | 1227.8 | 1236.3 | 1213.5 | 1200.8 | 1189.8 | 1170.4 | 1157.7 | 1055.6 |
| 22.5° | 1210.1 | 1242.2 | 1339.3 | 1367.1 | 1291.1 | 1225.3 | 1194.0 | 1202.5 | 1231.2 | 1293.7 | 1252.3 |
| 25° | 1422.0 | 1452.4 | 1543.6 | 1468.5 | 1316.5 | 1206.7 | 1167.0 | 1187.3 | 1255.7 | 1390.8 | 1444.0 |
| 27.5° | 1669.5 | 1692.3 | 1746.3 | 1537.7 | 1320.7 | 1191.5 | 1152.7 | 1183.9 | 1267.5 | 1451.6 | 1654.3 |
| 30° | 1927.0 | 1940.5 | 1914.3 | 1556.3 | 1306.3 | 1168.7 | 1138.3 | 1183.9 | 1287.8 | 1492.1 | 1812.2 |
| 32.5° | 2116.2 | 2118.7 | 2033.4 | 1558.0 | 1298.7 | 1150.1 | 1124.8 | 1178.8 | 1307.2 | 1525.9 | 1965.0 |
| 35° | 2311.2 | 2298.6 | 2147.4 | 1583.3 | 1319.0 | 1156.9 | 1134.9 | 1193.2 | 1337.6 | 1565.6 | 2099.3 |
| 37.5° | 2508.8 | 2486.0 | 2274.9 | 1624.7 | 1371.4 | 1230.3 | 1216.8 | 1266.7 | 1386.6 | 1620.5 | 2247.1 |
| 40° | 2711.5 | 2680.3 | 2407.5 | 1687.2 | 1487.9 | 1480.3 | 1526.7 | 1520.8 | 1520.8 | 1690.6 | 2399.1 |
| 42.5° | 2958.9 | 2922.6 | 2603.4 | 1863.7 | 1759.8 | 1929.5 | 2056.2 | 1977.7 | 1832.4 | 1851.9 | 2596.7 |
| 45° | 3285.7 | 3254.5 | 2942.9 | 2201.5 | 2186.3 | 2576.4 | 2747.0 | 2591.6 | 2230.2 | 2224.3 | 2926.8 |
| 47.5° | 3808.4 | 3802.5 | 3484.2 | 2593.3 | 2708.1 | 3399.7 | 3729.0 | 3430.1 | 2683.6 | 2618.6 | 3551.7 |
| 50° | 4543.1 | 4525.4 | 4158.9 | 3052.7 | 3328.8 | 4419.8 | 5007.5 | 4509.3 | 3231.7 | 3078.8 | 4388.6 |
| 52.5° | 5370.6 | 5389.2 | 5103.8 | 3554.2 | 3988.3 | 5554.7 | 6373.0 | 5745.6 | 3827.0 | 3664.0 | 5441.6 |
| 55° | 6150.1 | 6256.5 | 6181.3 | 4141.1 | 4632.6 | 6807.9 | 7872.7 | 7101.7 | 4564.2 | 4429.9 | 6622.1 |
| 57.5° | 6759.7 | 7059.5 | 7586.5 | 4994.0 | 5390.1 | 8273.8 | 9547.2 | 8571.9 | 5424.7 | 5673.8 | 8229.1 |
| 60° | 6793.5 | 7190.4 | 8414.0 | 6778.3 | 6364.5 | 9531.2 | 11219.2 | 10008.3 | 6777.5 | 7785.7 | 9488.1 |
| 62.5° | 6284.3 | 6709.9 | 7875.3 | 7589.0 | 7426.0 | 10601.1 | 12077.2 | 11055.4 | 8108.3 | 9022.8 | 9114.9 |
| 65° | 5701.7 | 6131.5 | 7274.0 | 6669.4 | 7302.7 | 10555.5 | 11859.3 | 11079.9 | 8229.1 | 8181.8 | 8446.9 |
| 67.5° | 4820.9 | 5206.8 | 6241.3 | 5903.5 | 6731.0 | 10046.3 | 10852.7 | 10381.6 | 7581.4 | 7652.3 | 7770.5 |
| 70° | 3518.8 | 3890.3 | 4850.5 | 4867.4 | 5878.1 | 9128.4 | 9325.2 | 9260.1 | 6981.8 | 7057.0 | 6719.2 |
| 72.5° | 2541.8 | 2855.1 | 3683.4 | 3991.7 | 4692.6 | 7654.9 | 7518.9 | 7769.7 | 5990.5 | 6285.2 | 5396.8 |
| 75° | 1827.4 | 2062.1 | 2702.2 | 3472.3 | 3719.8 | 5684.8 | 5382.5 | 6017.5 | 4806.6 | 5412.0 | 4057.5 |
| 77.5° | 741.4 | 824.2 | 1063.2 | 2339.1 | 2444.7 | 3824.5 | 3295.0 | 4370.8 | 3426.7 | 3555.9 | 1966.7 |
| 80° | 30.4 | 33.8 | 43.9 | 1207.5 | 1676.2 | 2151.6 | 1763.2 | 2336.6 | 2263.1 | 1432.2 | 464.4 |
| 82.5° | 3.4 | 3.4 | 7.6 | 347.9 | 733.8 | 1187.3 | 830.9 | 1346.0 | 1145.9 | 607.2 | 211.1 |
| 85° | 0.8 | 0.8 | 1.7 | 39.7 | 172.3 | 190.0 | 112.3 | 412.9 | 532.8 | 248.3 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 | 7.6 | 8.4 | 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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CATALOG NUMBER: GWS-SA2D-760-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 380.0 | 380.0 | 380.0 | 380.0 | 380.0 | 380.0 | 380.0 | 380.0 | 380.0 | 380.0 | 380.0 |
| 2.5° | 382.5 | 378.3 | 373.2 | 368.2 | 365.6 | 358.9 | 356.4 | 354.7 | 353.0 | 353.8 | 353.8 |
| 5° | 369.9 | 360.6 | 349.6 | 338.6 | 332.7 | 326.0 | 322.6 | 320.9 | 321.7 | 325.1 | 325.1 |
| 7.5° | 368.2 | 350.4 | 326.8 | 312.4 | 305.7 | 300.6 | 297.2 | 295.6 | 296.4 | 300.6 | 302.3 |
| 10° | 396.0 | 364.8 | 322.6 | 298.1 | 290.5 | 285.4 | 282.0 | 279.5 | 277.8 | 281.2 | 282.0 |
| 12.5° | 456.0 | 412.9 | 342.8 | 296.4 | 282.9 | 276.1 | 273.6 | 268.5 | 266.0 | 267.7 | 268.5 |
| 15° | 580.1 | 505.8 | 383.4 | 303.2 | 276.1 | 268.5 | 264.3 | 260.1 | 255.9 | 255.0 | 255.9 |
| 17.5° | 742.3 | 635.9 | 445.0 | 319.2 | 271.1 | 261.8 | 255.9 | 250.0 | 244.0 | 243.2 | 242.4 |
| 20° | 943.2 | 795.5 | 531.2 | 344.5 | 266.8 | 255.9 | 247.4 | 239.0 | 231.4 | 228.8 | 228.8 |
| 22.5° | 1126.5 | 988.0 | 641.8 | 375.8 | 260.9 | 247.4 | 237.3 | 227.2 | 218.7 | 214.5 | 213.6 |
| 25° | 1350.3 | 1192.3 | 774.4 | 412.1 | 252.5 | 236.4 | 225.5 | 215.3 | 206.9 | 201.8 | 200.1 |
| 27.5° | 1575.7 | 1407.7 | 924.7 | 459.4 | 242.4 | 225.5 | 215.3 | 206.0 | 196.8 | 190.8 | 189.2 |
| 30° | 1794.4 | 1639.9 | 1093.6 | 518.5 | 234.8 | 214.5 | 206.0 | 196.8 | 188.3 | 179.0 | 176.5 |
| 32.5° | 2029.2 | 1877.2 | 1282.7 | 584.4 | 228.8 | 206.9 | 197.6 | 189.2 | 178.2 | 169.7 | 165.5 |
| 35° | 2255.5 | 2122.1 | 1491.3 | 648.5 | 222.9 | 200.1 | 190.0 | 181.6 | 169.7 | 160.4 | 154.5 |
| 37.5° | 2483.5 | 2371.2 | 1709.1 | 687.4 | 214.5 | 190.8 | 181.6 | 174.8 | 161.3 | 150.3 | 143.6 |
| 40° | 2725.0 | 2628.7 | 1944.7 | 671.3 | 206.9 | 180.7 | 175.6 | 168.0 | 152.8 | 140.2 | 131.7 |
| 42.5° | 2990.2 | 2874.5 | 2184.6 | 609.7 | 200.1 | 172.3 | 167.2 | 159.6 | 145.2 | 130.0 | 119.1 |
| 45° | 3323.7 | 3143.9 | 2381.3 | 516.8 | 203.5 | 163.8 | 153.7 | 152.0 | 138.5 | 119.1 | 105.6 |
| 47.5° | 3897.1 | 3557.6 | 2534.2 | 456.8 | 226.3 | 154.5 | 142.7 | 146.9 | 132.6 | 108.1 | 92.9 |
| 50° | 4774.5 | 4243.3 | 2676.9 | 452.6 | 260.9 | 150.3 | 132.6 | 143.6 | 126.7 | 97.1 | 81.9 |
| 52.5° | 5610.5 | 4940.0 | 2768.1 | 489.8 | 291.3 | 161.3 | 122.4 | 139.3 | 122.4 | 89.5 | 74.3 |
| 55° | 6410.1 | 5341.9 | 2605.1 | 516.8 | 320.0 | 194.2 | 114.8 | 132.6 | 117.4 | 85.3 | 71.8 |
| 57.5° | 7272.3 | 5521.0 | 2051.1 | 571.7 | 340.3 | 222.1 | 116.5 | 122.4 | 110.6 | 82.8 | 70.9 |
| 60° | 7529.9 | 5292.1 | 1237.9 | 643.5 | 329.3 | 230.5 | 129.2 | 108.9 | 101.3 | 77.7 | 68.4 |
| 62.5° | 7129.6 | 4749.1 | 730.4 | 586.0 | 320.0 | 217.9 | 147.8 | 100.5 | 92.0 | 70.9 | 63.3 |
| 65° | 6530.9 | 4011.9 | 476.3 | 494.8 | 339.5 | 194.2 | 157.1 | 96.3 | 83.6 | 64.2 | 55.7 |
| 67.5° | 5846.9 | 3231.7 | 333.6 | 292.2 | 313.3 | 174.8 | 132.6 | 95.4 | 75.2 | 54.0 | 45.6 |
| 70° | 4924.8 | 2420.2 | 234.8 | 193.4 | 260.9 | 155.4 | 103.0 | 92.9 | 65.9 | 43.9 | 35.5 |
| 72.5° | 3805.0 | 1514.9 | 174.8 | 125.0 | 185.8 | 126.7 | 81.9 | 78.5 | 53.2 | 36.3 | 27.0 |
| 75° | 2806.1 | 863.9 | 123.3 | 90.4 | 122.4 | 96.3 | 60.8 | 55.7 | 45.6 | 34.6 | 24.5 |
| 77.5° | 1465.1 | 432.4 | 76.8 | 69.2 | 70.1 | 60.0 | 43.9 | 40.5 | 42.2 | 34.6 | 22.8 |
| 80° | 281.2 | 86.1 | 46.4 | 50.7 | 38.0 | 38.0 | 32.1 | 33.8 | 37.2 | 27.9 | 19.4 |
| 82.5° | 117.4 | 18.6 | 25.3 | 28.7 | 23.6 | 26.2 | 26.2 | 27.0 | 26.2 | 20.3 | 14.4 |
| 85° | 0.0 | 0.0 | 11.0 | 11.8 | 16.0 | 16.0 | 13.5 | 13.5 | 13.5 | 11.8 | 8.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 2.5 | 5.1 | 5.9 | 6.8 | 5.1 | 3.4 |
| 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-SA2D-760-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 380.0 | 380.0 | 380.0 | 380.0 | 380.0 | 380.0 | 380.0 | 380.0 | 380.0 | 380.0 | 380.0 |
| 2.5° | 353.0 | 351.3 | 353.8 | 355.5 | 357.2 | 357.2 | 355.5 | 353.8 | 351.3 | 353.8 | 351.3 |
| 5° | 326.0 | 328.5 | 332.7 | 334.4 | 336.1 | 332.7 | 331.0 | 326.0 | 321.7 | 322.6 | 320.9 |
| 7.5° | 304.8 | 307.4 | 312.4 | 315.8 | 315.8 | 314.1 | 309.1 | 304.0 | 297.2 | 297.2 | 296.4 |
| 10° | 285.4 | 288.8 | 294.7 | 298.9 | 300.6 | 298.9 | 293.9 | 287.1 | 281.2 | 281.2 | 278.7 |
| 12.5° | 269.4 | 273.6 | 280.4 | 286.3 | 288.0 | 286.3 | 281.2 | 274.4 | 267.7 | 267.7 | 266.0 |
| 15° | 255.9 | 260.9 | 268.5 | 275.3 | 277.8 | 275.3 | 269.4 | 260.9 | 254.2 | 255.0 | 252.5 |
| 17.5° | 243.2 | 247.4 | 257.6 | 265.2 | 267.7 | 265.2 | 257.6 | 246.6 | 239.8 | 241.5 | 239.8 |
| 20° | 228.8 | 233.9 | 244.0 | 252.5 | 255.0 | 252.5 | 244.0 | 232.2 | 225.5 | 225.5 | 226.3 |
| 22.5° | 213.6 | 218.7 | 228.8 | 234.8 | 238.1 | 235.6 | 227.2 | 216.2 | 209.4 | 209.4 | 210.3 |
| 25° | 200.1 | 202.7 | 210.3 | 216.2 | 217.0 | 214.5 | 207.7 | 199.3 | 194.2 | 196.8 | 197.6 |
| 27.5° | 187.5 | 187.5 | 190.8 | 194.2 | 193.4 | 190.8 | 188.3 | 181.6 | 180.7 | 183.2 | 185.8 |
| 30° | 174.0 | 169.7 | 168.0 | 165.5 | 164.7 | 163.8 | 166.4 | 166.4 | 168.0 | 171.4 | 174.0 |
| 32.5° | 162.1 | 153.7 | 146.1 | 138.5 | 134.3 | 137.6 | 144.4 | 150.3 | 156.2 | 161.3 | 163.8 |
| 35° | 148.6 | 135.1 | 122.4 | 112.3 | 105.6 | 110.6 | 121.6 | 132.6 | 142.7 | 149.5 | 153.7 |
| 37.5° | 135.1 | 115.7 | 100.5 | 87.8 | 82.8 | 87.0 | 98.8 | 114.0 | 129.2 | 137.6 | 143.6 |
| 40° | 120.8 | 96.3 | 78.5 | 68.4 | 63.3 | 67.6 | 79.4 | 94.6 | 114.8 | 125.8 | 133.4 |
| 42.5° | 106.4 | 79.4 | 63.3 | 53.2 | 50.7 | 53.2 | 62.5 | 77.7 | 99.6 | 113.2 | 123.3 |
| 45° | 92.0 | 65.9 | 50.7 | 43.1 | 40.5 | 43.1 | 50.7 | 63.3 | 85.3 | 100.5 | 112.3 |
| 47.5° | 79.4 | 55.7 | 42.2 | 35.5 | 33.8 | 36.3 | 42.2 | 53.2 | 71.8 | 87.0 | 100.5 |
| 50° | 69.2 | 49.0 | 36.3 | 30.4 | 28.7 | 31.2 | 36.3 | 44.8 | 60.8 | 74.3 | 88.7 |
| 52.5° | 62.5 | 45.6 | 32.1 | 26.2 | 25.3 | 27.0 | 31.2 | 38.0 | 51.5 | 63.3 | 76.8 |
| 55° | 60.8 | 45.6 | 29.6 | 23.6 | 22.8 | 24.5 | 27.9 | 32.9 | 44.8 | 54.9 | 66.7 |
| 57.5° | 62.5 | 49.0 | 27.9 | 20.3 | 19.4 | 21.1 | 24.5 | 28.7 | 38.8 | 47.3 | 58.3 |
| 60° | 62.5 | 49.8 | 24.5 | 16.0 | 15.2 | 16.9 | 20.3 | 25.3 | 34.6 | 41.4 | 50.7 |
| 62.5° | 56.6 | 45.6 | 20.3 | 12.7 | 11.0 | 12.7 | 16.9 | 21.1 | 30.4 | 37.2 | 44.8 |
| 65° | 49.0 | 38.8 | 16.9 | 9.3 | 7.6 | 9.3 | 13.5 | 17.7 | 26.2 | 32.1 | 40.5 |
| 67.5° | 39.7 | 29.6 | 12.7 | 6.8 | 5.1 | 6.8 | 10.1 | 14.4 | 22.0 | 27.9 | 36.3 |
| 70° | 29.6 | 21.1 | 10.1 | 5.9 | 5.1 | 5.9 | 9.3 | 13.5 | 19.4 | 25.3 | 33.8 |
| 72.5° | 22.0 | 14.4 | 8.4 | 5.9 | 4.2 | 5.9 | 8.4 | 12.7 | 18.6 | 24.5 | 32.1 |
| 75° | 18.6 | 11.8 | 7.6 | 5.1 | 4.2 | 5.1 | 7.6 | 11.8 | 16.9 | 22.8 | 30.4 |
| 77.5° | 17.7 | 11.0 | 6.8 | 4.2 | 3.4 | 4.2 | 6.8 | 10.1 | 15.2 | 21.1 | 29.6 |
| 80° | 15.2 | 9.3 | 5.9 | 3.4 | 2.5 | 3.4 | 5.9 | 8.4 | 11.8 | 16.0 | 22.8 |
| 82.5° | 11.8 | 7.6 | 4.2 | 1.7 | 0.8 | 1.7 | 4.2 | 5.1 | 7.6 | 9.3 | 13.5 |
| 85° | 7.6 | 4.2 | 1.7 | 0.0 | 0.0 | 0.0 | 1.7 | 3.4 | 3.4 | 4.2 | 6.8 |
| 87.5° | 3.4 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 1.7 | 2.5 |
| 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° | 380.0 | 380.0 | 380.0 | 380.0 | 380.0 | 380.0 | 380.0 | 380.0 | 380.0 | 380.0 |
| 2.5° | 356.4 | 357.2 | 358.9 | 361.4 | 367.3 | 372.4 | 377.5 | 384.2 | 387.6 | 387.6 |
| 5° | 322.6 | 323.4 | 324.3 | 327.6 | 336.1 | 342.8 | 353.8 | 367.3 | 374.1 | 375.8 |
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| 12.5° | 269.4 | 273.6 | 277.0 | 282.9 | 292.2 | 308.2 | 357.2 | 437.4 | 474.6 | 484.7 |
| 15° | 257.6 | 262.6 | 267.7 | 273.6 | 283.7 | 314.1 | 401.1 | 540.4 | 602.1 | 609.7 |
| 17.5° | 245.7 | 251.6 | 258.4 | 265.2 | 277.8 | 328.5 | 470.4 | 683.2 | 769.3 | 786.2 |
| 20° | 232.2 | 239.8 | 249.1 | 257.6 | 271.9 | 351.3 | 566.6 | 852.9 | 961.0 | 997.3 |
| 22.5° | 217.9 | 227.2 | 238.1 | 249.1 | 265.2 | 379.2 | 683.2 | 1035.3 | 1186.4 | 1210.1 |
| 25° | 206.0 | 215.3 | 225.5 | 236.4 | 254.2 | 412.9 | 824.2 | 1261.6 | 1399.2 | 1422.0 |
| 27.5° | 195.1 | 204.4 | 213.6 | 223.8 | 243.2 | 456.8 | 993.9 | 1502.3 | 1645.8 | 1669.5 |
| 30° | 183.2 | 194.2 | 203.5 | 213.6 | 233.1 | 510.9 | 1189.8 | 1769.1 | 1905.1 | 1927.0 |
| 32.5° | 173.1 | 184.1 | 193.4 | 203.5 | 225.5 | 570.0 | 1395.9 | 2005.5 | 2116.2 | 2116.2 |
| 35° | 164.7 | 176.5 | 183.2 | 196.8 | 219.6 | 608.0 | 1590.9 | 2231.0 | 2314.6 | 2311.2 |
| 37.5° | 155.4 | 169.7 | 174.8 | 184.1 | 212.0 | 612.2 | 1774.2 | 2469.1 | 2530.8 | 2508.8 |
| 40° | 146.1 | 161.3 | 168.9 | 174.0 | 203.5 | 577.6 | 1975.1 | 2687.9 | 2740.2 | 2711.5 |
| 42.5° | 137.6 | 149.5 | 160.4 | 166.4 | 198.4 | 516.8 | 2136.4 | 2921.8 | 2984.3 | 2958.9 |
| 45° | 129.2 | 139.3 | 146.1 | 157.1 | 201.8 | 474.6 | 2274.9 | 3194.5 | 3304.3 | 3285.7 |
| 47.5° | 120.8 | 129.2 | 133.4 | 150.3 | 224.6 | 455.2 | 2359.4 | 3616.7 | 3823.6 | 3808.4 |
| 50° | 111.5 | 121.6 | 121.6 | 148.6 | 258.4 | 461.9 | 2432.8 | 4228.1 | 4548.2 | 4543.1 |
| 52.5° | 102.2 | 113.2 | 111.5 | 161.3 | 284.6 | 493.2 | 2516.4 | 4767.7 | 5324.2 | 5370.6 |
| 55° | 92.9 | 103.0 | 104.7 | 186.6 | 299.8 | 520.2 | 2193.0 | 4994.9 | 5987.1 | 6150.1 |
| 57.5° | 82.8 | 88.7 | 108.9 | 206.0 | 294.7 | 598.7 | 1502.3 | 5036.2 | 6410.1 | 6759.7 |
| 60° | 71.8 | 76.8 | 123.3 | 201.8 | 278.7 | 553.1 | 945.8 | 4664.7 | 6350.2 | 6793.5 |
| 62.5° | 62.5 | 70.9 | 130.0 | 178.2 | 283.7 | 479.6 | 602.9 | 3975.6 | 5778.5 | 6284.3 |
| 65° | 54.9 | 68.4 | 118.2 | 161.3 | 287.1 | 325.1 | 407.0 | 3234.2 | 5220.3 | 5701.7 |
| 67.5° | 49.0 | 76.0 | 97.1 | 143.6 | 246.6 | 228.8 | 279.5 | 2513.1 | 4389.4 | 4820.9 |
| 70° | 44.8 | 77.7 | 79.4 | 123.3 | 190.8 | 146.9 | 184.1 | 1691.4 | 3025.6 | 3518.8 |
| 72.5° | 40.5 | 57.4 | 60.0 | 98.8 | 123.3 | 89.5 | 119.1 | 967.7 | 2205.7 | 2541.8 |
| 75° | 38.8 | 38.8 | 41.4 | 64.2 | 68.4 | 65.0 | 76.8 | 577.6 | 1581.6 | 1827.4 |
| 77.5° | 36.3 | 29.6 | 26.2 | 41.4 | 37.2 | 46.4 | 45.6 | 256.7 | 685.7 | 741.4 |
| 80° | 28.7 | 21.1 | 17.7 | 26.2 | 25.3 | 31.2 | 27.0 | 21.1 | 31.2 | 30.4 |
| 82.5° | 17.7 | 13.5 | 12.7 | 16.0 | 14.4 | 16.0 | 12.7 | 3.4 | 3.4 | 3.4 |
| 85° | 8.4 | 7.6 | 6.8 | 6.8 | 7.6 | 6.8 | 5.1 | 1.7 | 0.8 | 0.8 |
| 87.5° | 4.2 | 4.2 | 3.4 | 2.5 | 3.4 | 3.4 | 2.5 | 0.8 | 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 |

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