

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: P641836

Luminaire Tested: GWS-SA6B-760-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641836
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-40)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6B-760-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12933.4 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

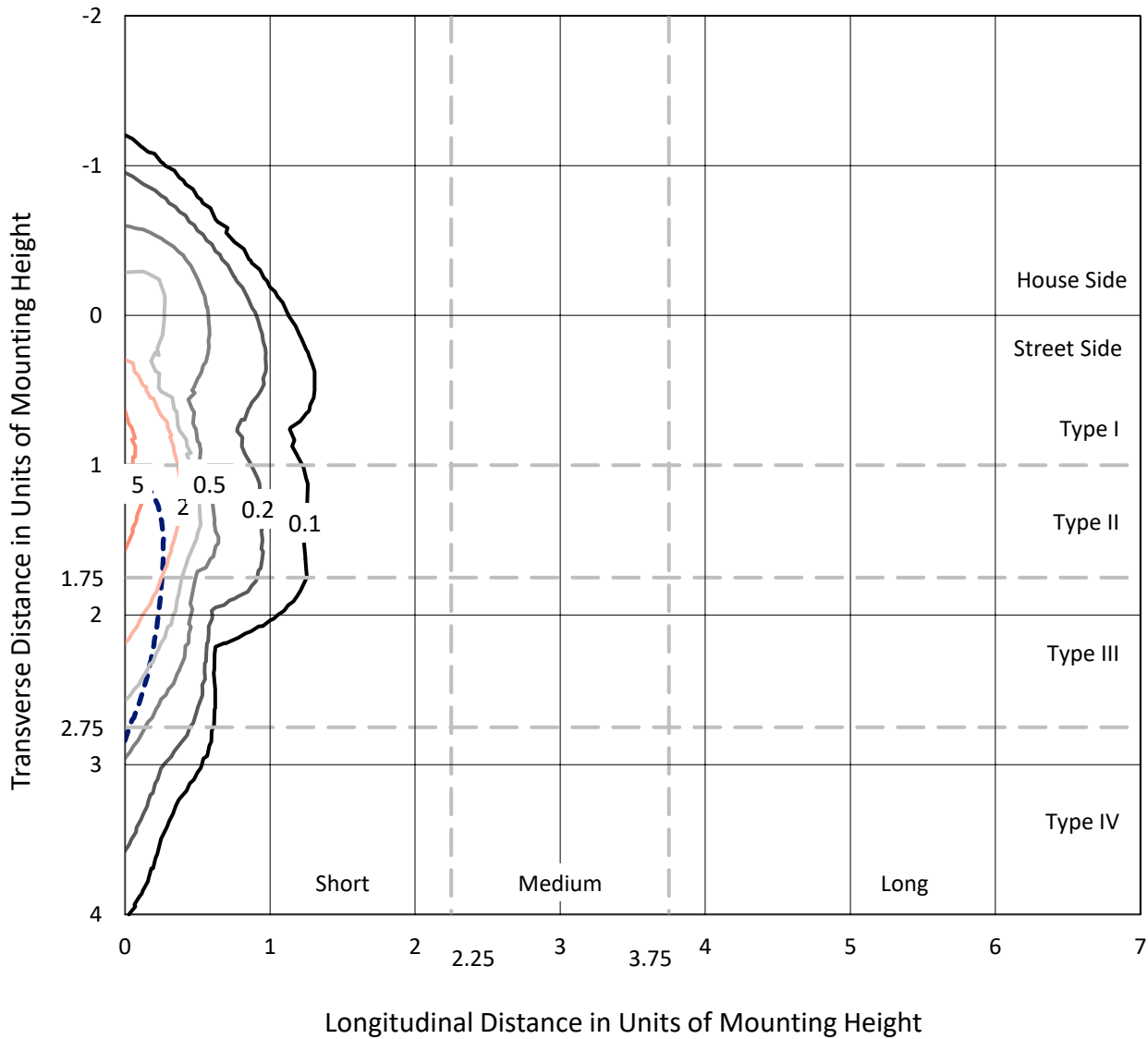
Input Watts (W): 138.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P641836
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Iso-Footcandle Lines of Horizontal Illumination

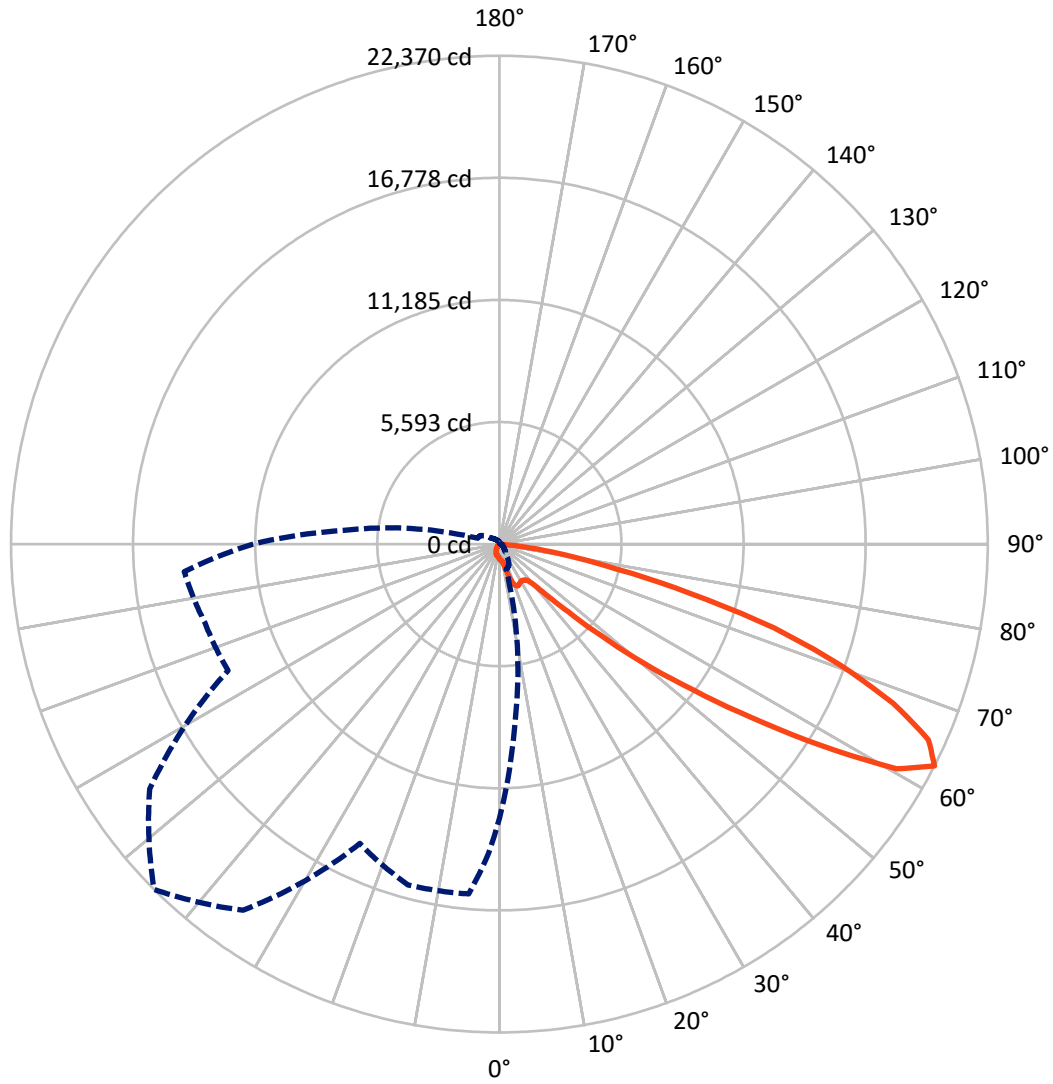
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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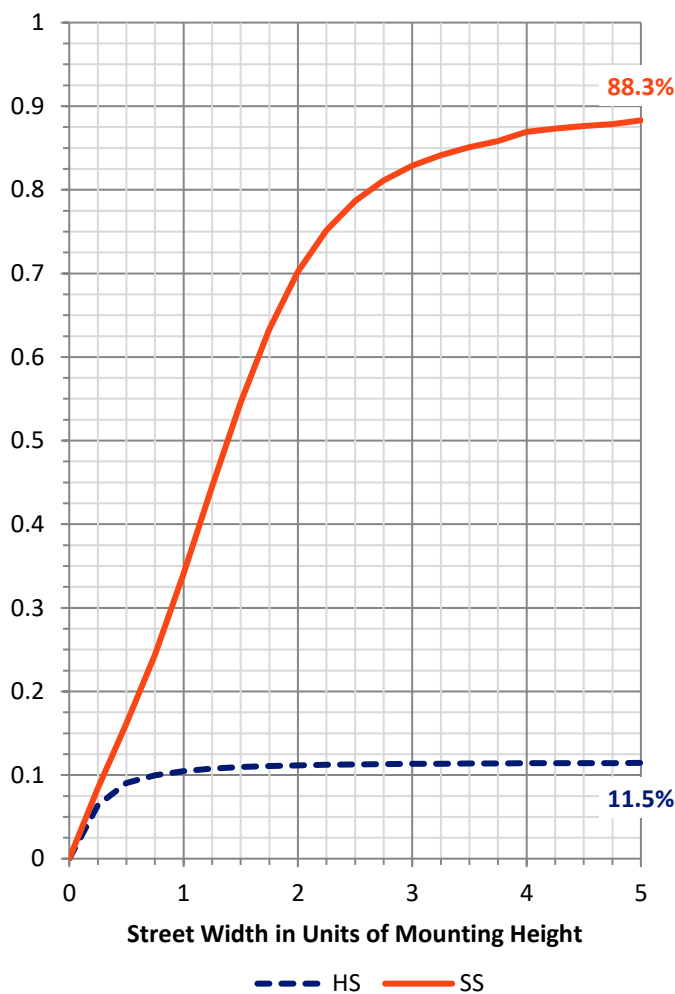
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1502.7 | 0.0 | 1502.7 |
| | % Fixture | 11.6 | 0.0 | 11.6 |
| Street Side | Lumens | 11430.7 | 0.0 | 11430.7 |
| | % Fixture | 88.4 | 0.0 | 88.4 |
| Total | Lumens | 12933.4 | 0.0 | 12933.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 57.9 | 0.4 |
| 10°-20° | 198.5 | 1.5 |
| 20°-30° | 448.5 | 3.5 |
| 30°-40° | 772.6 | 6.0 |
| 40°-50° | 1457.5 | 11.3 |
| 50°-60° | 3254.2 | 25.2 |
| 60°-70° | 4352.4 | 33.7 |
| 70°-80° | 2182.6 | 16.9 |
| 80°-90° | 209.2 | 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° | 12933.4 | 100.0 |
| 0°-180° | 12933.4 | 100.0 |

Coefficient of Utilization

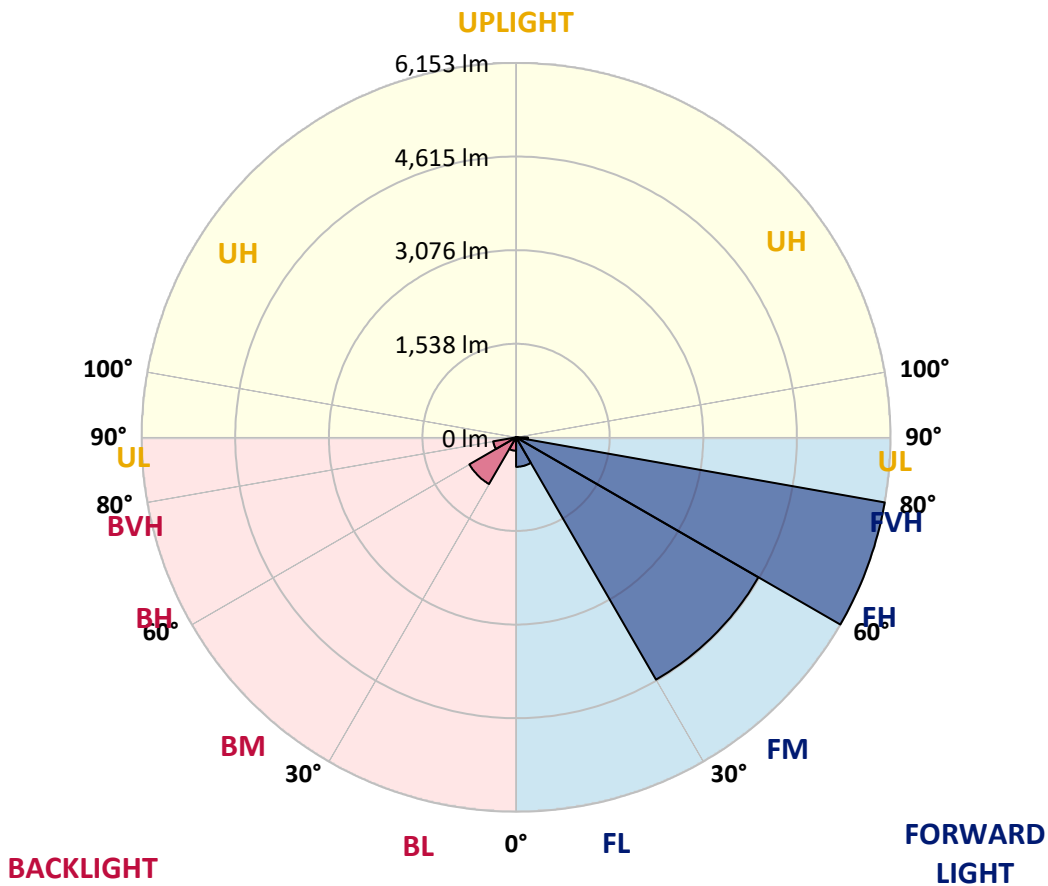


REPORT NUMBER: P641836
 CATALOG NUMBER: GWS-SA6B-760-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 484.4 | 3.7 | | | |
| FM (30°-60°) | 4598.2 | 35.6 | | | |
| FH (60°-80°) | 6152.8 | 47.6 | | | G3/7500 |
| FVH (80°-90°) | 195.3 | 1.5 | | | G2/225 |
| BL (0°-30°) | 220.6 | 1.7 | B1/500 | | |
| BM (30°-60°) | 886.1 | 6.9 | B1/1000 | | |
| BH (60°-80°) | 382.1 | 3.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 13.9 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3
 Type III Short





REPORT NUMBER: P641836

CATALOG NUMBER: GWS-SA6B-760-U-SLL-W-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 2° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| 0° | 670.7 | 670.7 | 670.7 | 670.7 | 670.7 | 670.7 | 670.7 | 670.7 | 670.7 | 670.7 | 670.7 |
| 2.5° | 663.1 | 661.6 | 658.5 | 649.3 | 641.6 | 637.1 | 627.9 | 627.9 | 626.3 | 623.3 | 617.1 |
| 5° | 641.6 | 635.5 | 629.4 | 612.6 | 594.2 | 583.5 | 571.2 | 569.7 | 569.7 | 566.6 | 565.1 |
| 7.5° | 608.0 | 601.8 | 594.2 | 566.6 | 549.8 | 539.0 | 528.3 | 526.8 | 522.2 | 522.2 | 522.2 |
| 10° | 589.6 | 580.4 | 568.1 | 537.5 | 520.7 | 511.5 | 503.8 | 499.2 | 496.2 | 491.6 | 490.0 |
| 12.5° | 629.4 | 612.6 | 586.5 | 531.4 | 508.4 | 496.2 | 487.0 | 483.9 | 474.7 | 468.6 | 464.0 |
| 15° | 753.4 | 712.1 | 660.0 | 545.2 | 503.8 | 485.4 | 473.2 | 467.1 | 459.4 | 448.7 | 441.0 |
| 17.5° | 957.1 | 897.4 | 810.1 | 589.6 | 499.2 | 476.3 | 460.9 | 450.2 | 439.5 | 427.3 | 418.1 |
| 20° | 1238.9 | 1150.1 | 1045.9 | 670.7 | 499.2 | 465.5 | 447.2 | 433.4 | 418.1 | 404.3 | 393.6 |
| 22.5° | 1597.2 | 1508.4 | 1330.8 | 808.6 | 505.4 | 451.8 | 430.3 | 411.9 | 393.6 | 381.3 | 369.1 |
| 25° | 1998.5 | 1872.9 | 1707.5 | 975.5 | 522.2 | 433.4 | 410.4 | 392.0 | 375.2 | 359.9 | 346.1 |
| 27.5° | 2445.6 | 2309.3 | 2088.8 | 1212.9 | 559.0 | 415.0 | 389.0 | 372.1 | 356.8 | 341.5 | 323.1 |
| 30° | 2857.6 | 2776.4 | 2551.3 | 1497.7 | 618.7 | 402.8 | 372.1 | 356.8 | 341.5 | 321.6 | 304.7 |
| 32.5° | 3352.2 | 3208.2 | 3022.9 | 1822.3 | 698.3 | 390.5 | 358.3 | 336.9 | 324.7 | 306.3 | 287.9 |
| 35° | 3849.9 | 3727.4 | 3483.9 | 2222.0 | 787.1 | 378.3 | 341.5 | 321.6 | 310.9 | 289.4 | 269.5 |
| 37.5° | 4362.9 | 4335.3 | 4094.9 | 2664.6 | 874.4 | 364.5 | 321.6 | 309.3 | 298.6 | 274.1 | 251.1 |
| 40° | 4868.3 | 4817.7 | 4595.7 | 3170.0 | 928.0 | 349.2 | 304.7 | 297.1 | 284.8 | 257.3 | 231.2 |
| 42.5° | 5352.2 | 5313.9 | 5098.0 | 3653.9 | 920.4 | 335.4 | 287.9 | 278.7 | 269.5 | 242.0 | 209.8 |
| 45° | 5946.4 | 5883.6 | 5611.0 | 4012.2 | 842.3 | 350.7 | 271.1 | 255.7 | 254.2 | 228.2 | 188.4 |
| 47.5° | 7058.1 | 6851.4 | 6388.9 | 4287.9 | 764.2 | 390.5 | 252.7 | 234.3 | 245.0 | 214.4 | 166.9 |
| 50° | 8615.5 | 8372.1 | 7702.8 | 4502.3 | 762.6 | 442.6 | 249.6 | 214.4 | 237.4 | 203.7 | 148.5 |
| 52.5° | 10180.6 | 9751.8 | 8938.7 | 4617.1 | 819.3 | 480.9 | 277.2 | 194.5 | 228.2 | 193.0 | 134.8 |
| 55° | 11679.8 | 10790.1 | 9456.3 | 4237.3 | 863.7 | 522.2 | 327.7 | 183.8 | 211.3 | 180.7 | 127.1 |
| 57.5° | 13108.6 | 11624.7 | 9681.4 | 3352.2 | 1012.2 | 539.0 | 358.3 | 188.4 | 186.8 | 165.4 | 121.0 |
| 60° | 13304.6 | 11584.9 | 9226.6 | 1949.4 | 1116.4 | 509.9 | 346.1 | 209.8 | 163.9 | 147.0 | 110.3 |
| 62.5° | 12563.4 | 10814.6 | 8189.8 | 1215.9 | 1036.7 | 499.2 | 307.8 | 238.9 | 148.5 | 130.2 | 96.5 |
| 65° | 11437.9 | 9606.4 | 6828.4 | 784.1 | 785.6 | 554.4 | 269.5 | 234.3 | 139.4 | 114.9 | 82.7 |
| 67.5° | 9678.3 | 8039.7 | 5379.7 | 525.3 | 444.1 | 473.2 | 235.8 | 160.8 | 136.3 | 98.0 | 64.3 |
| 70° | 7064.3 | 5722.8 | 3502.3 | 350.7 | 264.9 | 378.3 | 197.5 | 114.9 | 128.6 | 81.2 | 45.9 |
| 72.5° | 5163.8 | 3845.3 | 1955.6 | 229.7 | 150.1 | 220.5 | 145.5 | 82.7 | 99.5 | 59.7 | 32.2 |
| 75° | 3716.7 | 2646.2 | 1116.4 | 147.0 | 99.5 | 121.0 | 94.9 | 56.7 | 64.3 | 47.5 | 29.1 |
| 77.5° | 1788.7 | 1289.4 | 506.9 | 81.2 | 67.4 | 61.3 | 50.5 | 35.2 | 39.8 | 42.9 | 26.0 |
| 80° | 67.4 | 50.5 | 38.3 | 39.8 | 42.9 | 27.6 | 23.0 | 18.4 | 23.0 | 29.1 | 13.8 |
| 82.5° | 0.0 | 0.0 | 0.0 | 4.6 | 6.1 | 7.7 | 9.2 | 7.7 | 9.2 | 10.7 | 1.5 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 |



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CATALOG NUMBER: GWS-SA6B-760-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 670.7 | 670.7 | 670.7 | 670.7 | 670.7 | 670.7 | 670.7 | 670.7 | 670.7 | 670.7 | 670.7 |
| 2.5° | 621.7 | 618.7 | 621.7 | 624.8 | 627.9 | 630.9 | 626.3 | 629.4 | 632.5 | 624.8 | 627.9 |
| 5° | 572.7 | 571.2 | 580.4 | 585.0 | 591.1 | 594.2 | 591.1 | 591.1 | 589.6 | 580.4 | 580.4 |
| 7.5° | 529.9 | 531.4 | 539.0 | 549.8 | 557.4 | 562.0 | 559.0 | 557.4 | 552.8 | 539.0 | 539.0 |
| 10° | 497.7 | 497.7 | 509.9 | 519.1 | 529.9 | 534.5 | 531.4 | 526.8 | 522.2 | 508.4 | 506.9 |
| 12.5° | 471.7 | 471.7 | 480.9 | 496.2 | 508.4 | 514.5 | 513.0 | 506.9 | 499.2 | 485.4 | 483.9 |
| 15° | 447.2 | 445.6 | 459.4 | 473.2 | 490.0 | 497.7 | 494.6 | 490.0 | 476.3 | 464.0 | 460.9 |
| 17.5° | 422.7 | 421.1 | 433.4 | 451.8 | 470.1 | 480.9 | 479.3 | 468.6 | 456.4 | 441.0 | 438.0 |
| 20° | 398.2 | 395.1 | 410.4 | 428.8 | 447.2 | 457.9 | 454.8 | 445.6 | 430.3 | 415.0 | 411.9 |
| 22.5° | 373.7 | 372.1 | 382.8 | 398.2 | 415.0 | 424.2 | 422.7 | 415.0 | 399.7 | 385.9 | 385.9 |
| 25° | 346.1 | 346.1 | 353.7 | 364.5 | 376.7 | 381.3 | 382.8 | 379.8 | 370.6 | 362.9 | 362.9 |
| 27.5° | 323.1 | 318.5 | 321.6 | 324.7 | 330.8 | 338.4 | 338.4 | 341.5 | 343.0 | 340.0 | 341.5 |
| 30° | 304.7 | 297.1 | 292.5 | 286.4 | 283.3 | 286.4 | 289.4 | 300.2 | 310.9 | 317.0 | 320.1 |
| 32.5° | 283.3 | 274.1 | 261.9 | 245.0 | 234.3 | 231.2 | 240.4 | 260.3 | 280.2 | 294.0 | 301.7 |
| 35° | 261.9 | 249.6 | 226.6 | 202.1 | 188.4 | 183.8 | 194.5 | 217.5 | 246.6 | 271.1 | 281.8 |
| 37.5° | 240.4 | 223.6 | 191.4 | 162.3 | 147.0 | 143.9 | 154.7 | 179.2 | 212.9 | 246.6 | 260.3 |
| 40° | 215.9 | 196.0 | 157.7 | 127.1 | 114.9 | 111.8 | 121.0 | 145.5 | 180.7 | 219.0 | 240.4 |
| 42.5° | 191.4 | 166.9 | 127.1 | 101.1 | 88.8 | 88.8 | 101.1 | 119.4 | 151.6 | 193.0 | 219.0 |
| 45° | 166.9 | 140.9 | 104.1 | 81.2 | 73.5 | 75.0 | 82.7 | 101.1 | 127.1 | 170.0 | 194.5 |
| 47.5° | 143.9 | 121.0 | 85.8 | 67.4 | 61.3 | 62.8 | 72.0 | 87.3 | 108.7 | 147.0 | 173.0 |
| 50° | 124.0 | 102.6 | 75.0 | 56.7 | 52.1 | 55.1 | 64.3 | 78.1 | 96.5 | 130.2 | 151.6 |
| 52.5° | 111.8 | 91.9 | 68.9 | 49.0 | 45.9 | 49.0 | 58.2 | 70.4 | 87.3 | 114.9 | 136.3 |
| 55° | 105.7 | 90.4 | 68.9 | 44.4 | 39.8 | 42.9 | 52.1 | 64.3 | 78.1 | 104.1 | 122.5 |
| 57.5° | 104.1 | 93.4 | 73.5 | 39.8 | 33.7 | 36.8 | 45.9 | 58.2 | 72.0 | 94.9 | 110.3 |
| 60° | 98.0 | 88.8 | 72.0 | 32.2 | 26.0 | 30.6 | 38.3 | 50.5 | 65.8 | 88.8 | 102.6 |
| 62.5° | 85.8 | 78.1 | 62.8 | 26.0 | 19.9 | 23.0 | 32.2 | 44.4 | 59.7 | 81.2 | 96.5 |
| 65° | 70.4 | 62.8 | 49.0 | 16.8 | 12.3 | 15.3 | 24.5 | 38.3 | 52.1 | 73.5 | 87.3 |
| 67.5° | 52.1 | 44.4 | 33.7 | 10.7 | 6.1 | 10.7 | 19.9 | 32.2 | 47.5 | 65.8 | 79.6 |
| 70° | 32.2 | 26.0 | 18.4 | 6.1 | 4.6 | 9.2 | 18.4 | 30.6 | 42.9 | 61.3 | 75.0 |
| 72.5° | 18.4 | 12.3 | 7.7 | 3.1 | 4.6 | 9.2 | 18.4 | 30.6 | 41.3 | 58.2 | 70.4 |
| 75° | 13.8 | 7.7 | 3.1 | 1.5 | 3.1 | 7.7 | 16.8 | 27.6 | 39.8 | 55.1 | 67.4 |
| 77.5° | 9.2 | 4.6 | 1.5 | 0.0 | 1.5 | 6.1 | 15.3 | 26.0 | 36.8 | 52.1 | 64.3 |
| 80° | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 4.6 | 13.8 | 23.0 | 33.7 | 45.9 | 56.7 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 | 10.7 | 19.9 | 29.1 | 38.3 | 45.9 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.1 | 15.3 | 23.0 | 29.1 | 32.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.7 | 15.3 | 18.4 | 21.4 |
| 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: P641836
 CATALOG NUMBER: GWS-SA6B-760-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|---------|---------|
| 0° | 670.7 | 670.7 | 670.7 | 670.7 | 670.7 | 670.7 | 670.7 | 670.7 | 670.7 | 670.7 | 670.7 |
| 2.5° | 626.3 | 635.5 | 635.5 | 641.6 | 649.3 | 663.1 | 670.7 | 681.5 | 689.1 | 696.8 | 699.8 |
| 5° | 578.9 | 580.4 | 581.9 | 585.0 | 594.2 | 609.5 | 623.3 | 640.1 | 660.0 | 675.3 | 684.5 |
| 7.5° | 539.0 | 539.0 | 539.0 | 543.6 | 552.8 | 563.5 | 577.3 | 600.3 | 623.3 | 641.6 | 657.0 |
| 10° | 505.4 | 509.9 | 511.5 | 519.1 | 529.9 | 543.6 | 559.0 | 578.9 | 604.9 | 629.4 | 657.0 |
| 12.5° | 483.9 | 488.5 | 496.2 | 503.8 | 514.5 | 529.9 | 546.7 | 572.7 | 626.3 | 676.9 | 735.1 |
| 15° | 464.0 | 470.1 | 479.3 | 490.0 | 502.3 | 519.1 | 537.5 | 591.1 | 716.7 | 811.6 | 903.5 |
| 17.5° | 442.6 | 451.8 | 464.0 | 474.7 | 490.0 | 508.4 | 531.4 | 635.5 | 882.1 | 1039.8 | 1196.0 |
| 20° | 415.0 | 427.3 | 441.0 | 457.9 | 476.3 | 497.7 | 531.4 | 727.4 | 1121.0 | 1347.6 | 1554.4 |
| 22.5° | 389.0 | 401.2 | 418.1 | 439.5 | 460.9 | 482.4 | 539.0 | 866.8 | 1428.8 | 1715.1 | 1977.0 |
| 25° | 367.5 | 382.8 | 399.7 | 418.1 | 442.6 | 467.1 | 557.4 | 1062.8 | 1799.4 | 2168.4 | 2353.7 |
| 27.5° | 347.6 | 366.0 | 382.8 | 398.2 | 419.6 | 447.2 | 598.8 | 1324.6 | 2237.3 | 2612.5 | 2758.0 |
| 30° | 327.7 | 349.2 | 366.0 | 381.3 | 402.8 | 431.8 | 661.6 | 1658.5 | 2724.3 | 3088.8 | 3104.1 |
| 32.5° | 310.9 | 330.8 | 350.7 | 366.0 | 385.9 | 419.6 | 748.8 | 2049.0 | 3223.6 | 3575.8 | 3431.8 |
| 35° | 292.5 | 315.5 | 333.8 | 350.7 | 372.1 | 408.9 | 849.9 | 2470.1 | 3727.4 | 4022.9 | 3758.0 |
| 37.5° | 274.1 | 300.2 | 323.1 | 335.4 | 356.8 | 398.2 | 923.4 | 2909.6 | 4241.9 | 4459.4 | 4044.4 |
| 40° | 257.3 | 286.4 | 312.4 | 324.7 | 335.4 | 384.4 | 934.1 | 3359.8 | 4764.1 | 4889.7 | 4313.9 |
| 42.5° | 238.9 | 271.1 | 294.0 | 310.9 | 320.1 | 375.2 | 869.8 | 3739.6 | 5202.1 | 5318.5 | 4666.1 |
| 45° | 219.0 | 257.3 | 275.6 | 287.9 | 306.3 | 381.3 | 787.1 | 4033.7 | 5702.9 | 5903.5 | 5246.5 |
| 47.5° | 199.1 | 242.0 | 257.3 | 266.5 | 291.0 | 418.1 | 756.5 | 4229.7 | 6528.3 | 6944.8 | 6225.1 |
| 50° | 180.7 | 228.2 | 245.0 | 243.5 | 287.9 | 465.5 | 790.2 | 4378.2 | 7768.7 | 8258.7 | 7566.6 |
| 52.5° | 160.8 | 212.9 | 232.8 | 226.6 | 310.9 | 502.3 | 857.6 | 4496.1 | 8722.7 | 9799.3 | 9369.0 |
| 55° | 143.9 | 196.0 | 214.4 | 212.9 | 353.7 | 529.9 | 909.6 | 3874.4 | 9117.8 | 11231.1 | 11399.6 |
| 57.5° | 131.7 | 177.6 | 193.0 | 219.0 | 381.3 | 529.9 | 1052.1 | 2750.4 | 9125.5 | 12284.7 | 14094.8 |
| 60° | 121.0 | 160.8 | 171.5 | 240.4 | 370.6 | 502.3 | 1041.3 | 1684.5 | 8410.3 | 12212.8 | 15528.2 |
| 62.5° | 111.8 | 145.5 | 159.3 | 246.6 | 327.7 | 497.7 | 940.3 | 1044.4 | 7173.0 | 11283.2 | 14488.4 |
| 65° | 104.1 | 133.2 | 153.1 | 226.6 | 297.1 | 532.9 | 634.0 | 750.4 | 5817.7 | 10223.5 | 13295.4 |
| 67.5° | 96.5 | 122.5 | 162.3 | 185.3 | 269.5 | 476.3 | 457.9 | 532.9 | 4566.6 | 9061.2 | 12200.5 |
| 70° | 90.4 | 116.4 | 171.5 | 151.6 | 235.8 | 372.1 | 324.7 | 404.3 | 3496.1 | 7560.4 | 10658.4 |
| 72.5° | 85.8 | 108.7 | 143.9 | 119.4 | 191.4 | 287.9 | 226.6 | 294.0 | 2284.8 | 5901.9 | 8689.1 |
| 75° | 81.2 | 99.5 | 105.7 | 96.5 | 142.4 | 188.4 | 171.5 | 197.5 | 1361.4 | 4313.9 | 6592.6 |
| 77.5° | 79.6 | 93.4 | 85.8 | 78.1 | 96.5 | 111.8 | 130.2 | 133.2 | 664.6 | 2157.7 | 3454.8 |
| 80° | 70.4 | 84.2 | 73.5 | 64.3 | 65.8 | 73.5 | 96.5 | 88.8 | 151.6 | 548.2 | 921.9 |
| 82.5° | 55.1 | 65.8 | 61.3 | 53.6 | 53.6 | 53.6 | 64.3 | 59.7 | 49.0 | 246.6 | 416.5 |
| 85° | 38.3 | 45.9 | 45.9 | 42.9 | 41.3 | 41.3 | 39.8 | 38.3 | 13.8 | 15.3 | 23.0 |
| 87.5° | 26.0 | 32.2 | 33.7 | 32.2 | 27.6 | 24.5 | 21.4 | 18.4 | 6.1 | 0.0 | 3.1 |
| 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° | 670.7 | 670.7 | 670.7 | 670.7 | 670.7 | 670.7 | 670.7 | 670.7 | 670.7 | 670.7 |
| 2.5° | 710.6 | 715.2 | 715.2 | 709.0 | 704.4 | 692.2 | 679.9 | 667.7 | 664.6 | 663.1 |
| 5° | 710.6 | 728.9 | 738.1 | 736.6 | 725.9 | 706.0 | 679.9 | 652.4 | 644.7 | 641.6 |
| 7.5° | 699.8 | 735.1 | 762.6 | 767.2 | 747.3 | 712.1 | 664.6 | 623.3 | 612.6 | 608.0 |
| 10° | 724.3 | 793.3 | 848.4 | 856.0 | 833.1 | 764.2 | 687.6 | 617.1 | 600.3 | 589.6 |
| 12.5° | 856.0 | 969.4 | 1036.7 | 1068.9 | 1024.5 | 937.2 | 810.1 | 684.5 | 646.2 | 629.4 |
| 15° | 1122.5 | 1283.3 | 1411.9 | 1411.9 | 1370.6 | 1215.9 | 1055.1 | 851.4 | 799.4 | 753.4 |
| 17.5° | 1464.0 | 1666.1 | 1779.5 | 1767.2 | 1704.4 | 1595.7 | 1402.7 | 1110.3 | 1004.6 | 957.1 |
| 20° | 1853.0 | 1973.9 | 2000.0 | 1992.3 | 1964.8 | 1902.0 | 1768.7 | 1454.8 | 1312.4 | 1238.9 |
| 22.5° | 2189.9 | 2157.7 | 2119.4 | 2088.8 | 2081.1 | 2099.5 | 2081.1 | 1839.2 | 1727.4 | 1597.2 |
| 25° | 2418.0 | 2235.8 | 2121.0 | 2065.8 | 2091.9 | 2197.5 | 2312.4 | 2222.0 | 2133.2 | 1998.5 |
| 27.5° | 2542.1 | 2226.6 | 2061.2 | 2004.6 | 2049.0 | 2199.1 | 2448.7 | 2601.8 | 2509.9 | 2445.6 |
| 30° | 2609.5 | 2219.0 | 2023.0 | 1967.8 | 2035.2 | 2223.6 | 2543.6 | 2957.1 | 2960.2 | 2857.6 |
| 32.5° | 2705.9 | 2268.0 | 2030.6 | 1980.1 | 2070.4 | 2297.1 | 2663.1 | 3318.5 | 3407.3 | 3352.2 |
| 35° | 2814.7 | 2343.0 | 2065.8 | 2019.9 | 2131.7 | 2395.1 | 2796.3 | 3683.0 | 3868.3 | 3849.9 |
| 37.5° | 2917.3 | 2427.2 | 2148.5 | 2104.1 | 2225.1 | 2479.3 | 2924.9 | 4041.3 | 4298.6 | 4362.9 |
| 40° | 3024.5 | 2545.2 | 2402.7 | 2445.6 | 2513.0 | 2612.5 | 3039.8 | 4352.2 | 4771.8 | 4868.3 |
| 42.5° | 3277.2 | 2954.0 | 3171.5 | 3252.7 | 3261.8 | 3056.6 | 3290.9 | 4750.3 | 5237.3 | 5352.2 |
| 45° | 3840.7 | 3681.4 | 4304.7 | 4419.6 | 4359.8 | 3738.1 | 3895.8 | 5324.6 | 5888.2 | 5946.4 |
| 47.5° | 4552.8 | 4626.3 | 5856.0 | 6252.6 | 5894.3 | 4542.1 | 4629.4 | 6532.9 | 7079.6 | 7058.1 |
| 50° | 5382.8 | 5730.4 | 7617.1 | 8552.8 | 7695.2 | 5586.5 | 5474.7 | 8018.3 | 8681.4 | 8615.5 |
| 52.5° | 6364.4 | 7013.7 | 9733.5 | 11062.7 | 10251.1 | 6761.0 | 6715.1 | 9986.1 | 10390.4 | 10180.6 |
| 55° | 7600.2 | 8252.6 | 12168.4 | 14025.9 | 12871.3 | 8194.4 | 8352.1 | 12267.9 | 12346.0 | 11679.8 |
| 57.5° | 9444.0 | 9868.2 | 15038.2 | 17424.0 | 15606.3 | 10142.3 | 11286.3 | 15304.6 | 14370.5 | 13108.6 |
| 60° | 12791.6 | 11946.3 | 17811.5 | 20900.3 | 18515.9 | 12882.0 | 15156.1 | 17104.0 | 15044.3 | 13304.6 |
| 62.5° | 13957.0 | 13710.5 | 19548.1 | 22370.4 | 20473.0 | 15131.6 | 16162.2 | 16084.1 | 14171.4 | 12563.4 |
| 65° | 12191.3 | 13270.9 | 19237.2 | 21594.0 | 20221.9 | 14761.0 | 14503.7 | 14958.5 | 13188.2 | 11437.9 |
| 67.5° | 11261.8 | 12238.8 | 18059.6 | 19451.6 | 18829.9 | 13503.7 | 12927.9 | 12803.9 | 11071.9 | 9678.3 |
| 70° | 10324.6 | 11292.4 | 16352.1 | 16525.1 | 16235.7 | 11454.7 | 10698.2 | 9866.7 | 8275.6 | 7064.3 |
| 72.5° | 9197.5 | 9730.4 | 13983.0 | 13162.2 | 12834.5 | 8996.9 | 8837.6 | 7430.3 | 6203.6 | 5163.8 |
| 75° | 8021.4 | 7866.7 | 10901.9 | 9033.6 | 9278.6 | 6999.9 | 7463.9 | 5456.3 | 4545.1 | 3716.7 |
| 77.5° | 5834.6 | 5719.7 | 7301.6 | 5486.9 | 6076.5 | 4585.0 | 4119.4 | 2177.6 | 2073.5 | 1788.7 |
| 80° | 3255.7 | 3924.9 | 3943.3 | 3075.0 | 3836.1 | 2989.3 | 1030.6 | 72.0 | 45.9 | 67.4 |
| 82.5° | 1513.0 | 1687.6 | 2137.8 | 1425.7 | 2188.3 | 1480.8 | 212.9 | 0.0 | 0.0 | 0.0 |
| 85° | 490.0 | 716.7 | 600.3 | 209.8 | 529.9 | 500.8 | 35.2 | 0.0 | 0.0 | 0.0 |
| 87.5° | 29.1 | 59.7 | 15.3 | 0.0 | 0.0 | 0.0 | 0.0 | 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 |

(END OF REPORT)