

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: P642221

Luminaire Tested: GWS-SA6C-740-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642221
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-SA6C-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17192.1 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

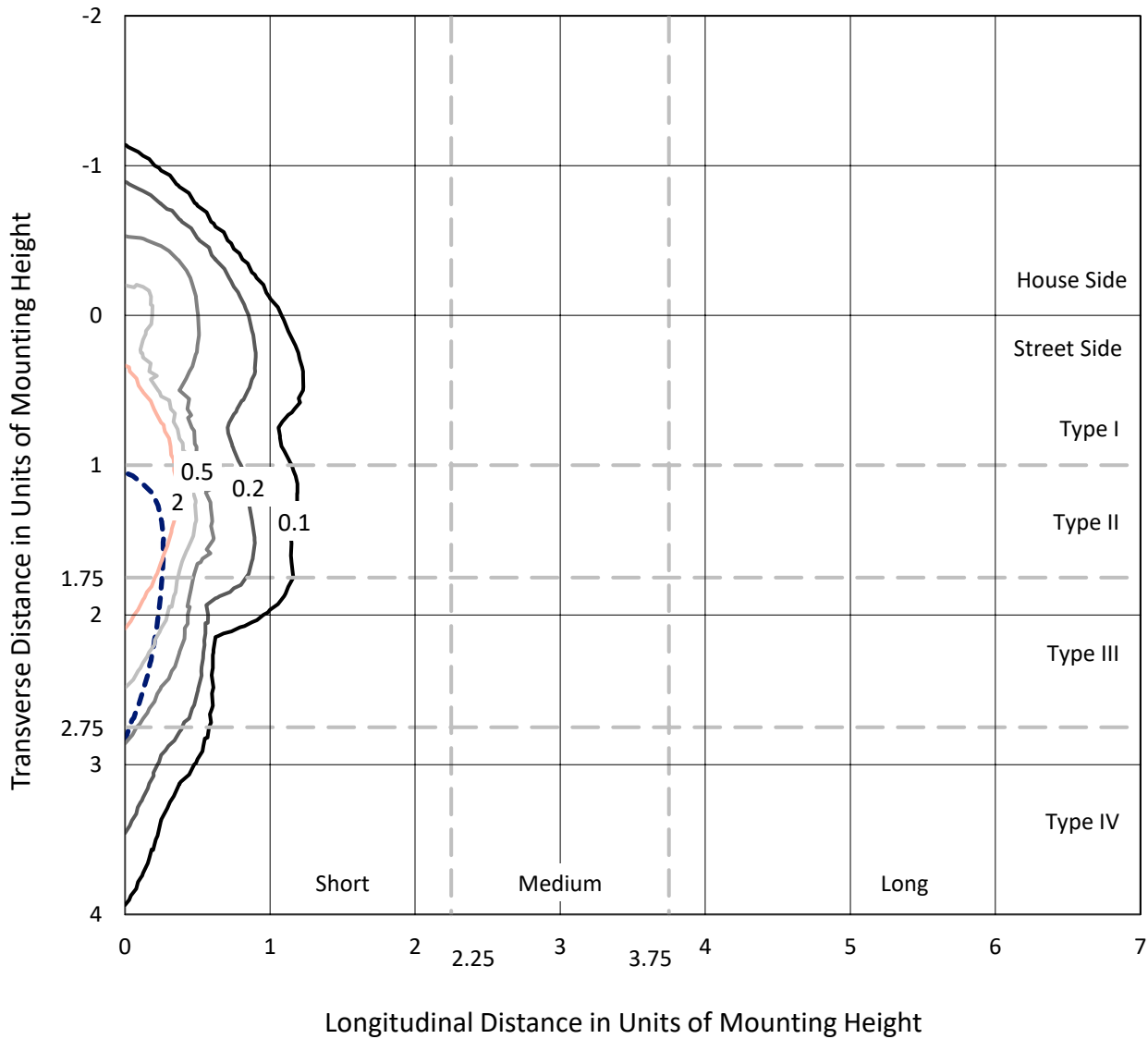
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P642221
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Iso-Footcandle Lines of Horizontal Illumination

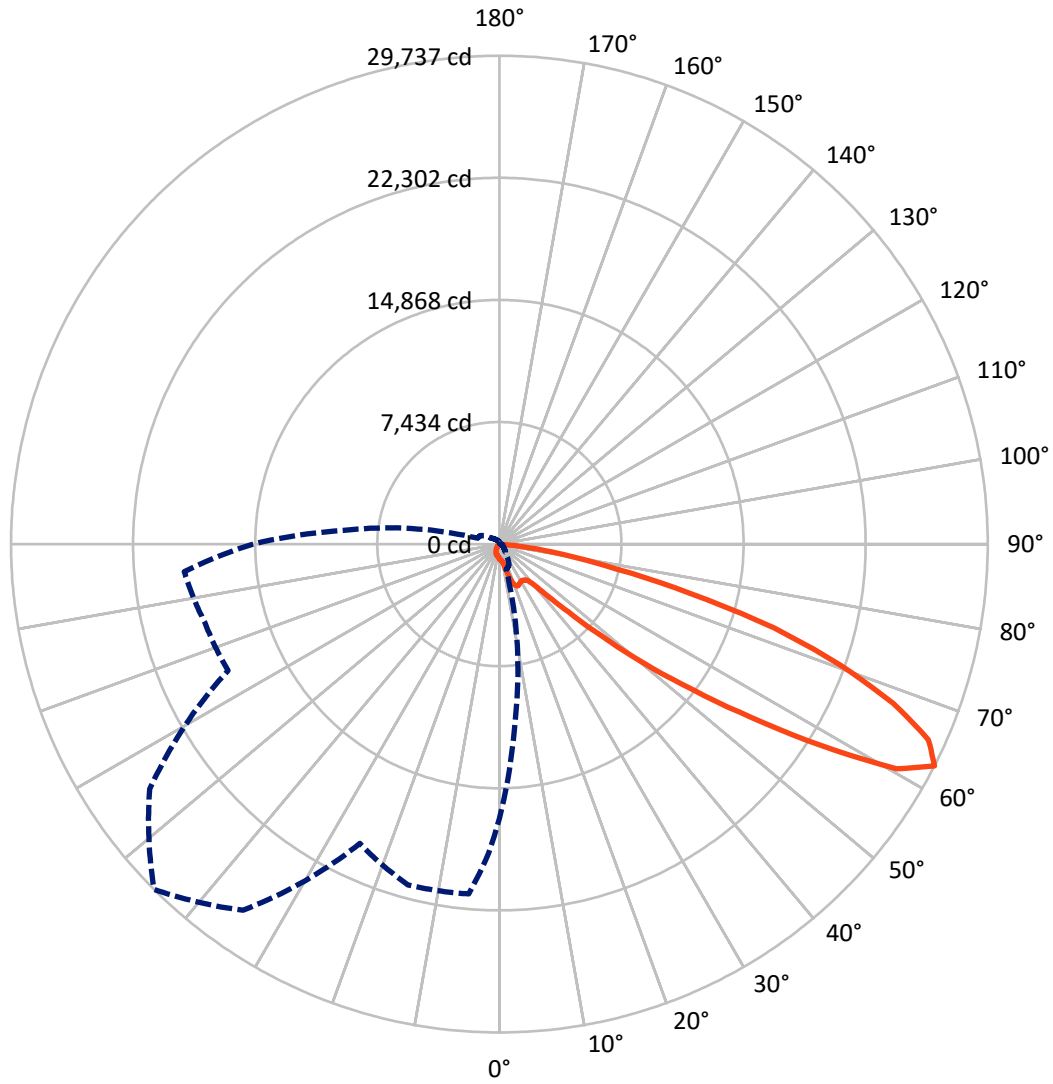
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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 | 1997.5 | 0.0 | 1997.5 |
| | % Fixture | 11.6 | 0.0 | 11.6 |
| Street Side | Lumens | 15194.6 | 0.0 | 15194.6 |
| | % Fixture | 88.4 | 0.0 | 88.4 |
| Total | Lumens | 17192.1 | 0.0 | 17192.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 77.0 | 0.4 |
| 10°-20° | 263.9 | 1.5 |
| 20°-30° | 596.2 | 3.5 |
| 30°-40° | 1027.1 | 6.0 |
| 40°-50° | 1937.4 | 11.3 |
| 50°-60° | 4325.7 | 25.2 |
| 60°-70° | 5785.5 | 33.7 |
| 70°-80° | 2901.3 | 16.9 |
| 80°-90° | 278.1 | 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° | 17192.1 | 100.0 |
| 0°-180° | 17192.1 | 100.0 |

Coefficient of Utilization



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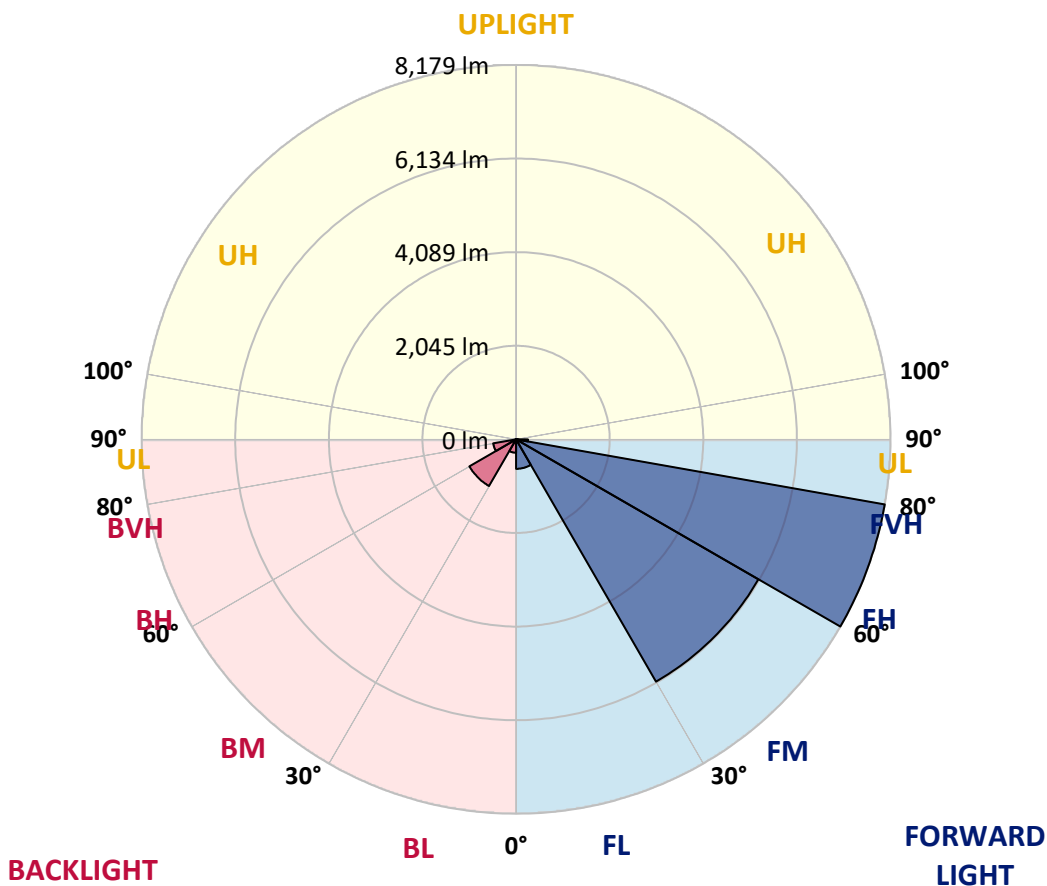
CATALOG NUMBER: GWS-SA6C-740-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 643.9 | 3.7 | | | |
| FM (30°-60°) | 6112.3 | 35.6 | | | |
| FH (60°-80°) | 8178.9 | 47.6 | | | G4/12000 |
| FVH (80°-90°) | 259.6 | 1.5 | | | G3/500 |
| BL (0°-30°) | 293.2 | 1.7 | B1/500 | | |
| BM (30°-60°) | 1177.8 | 6.9 | B2/2500 | | |
| BH (60°-80°) | 508.0 | 3.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 18.5 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type III Short





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CATALOG NUMBER: GWS-SA6C-740-U-SLL-W-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 2° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|--------|--------|-------|-------|-------|-------|-------|-------|
| 0° | 891.6 | 891.6 | 891.6 | 891.6 | 891.6 | 891.6 | 891.6 | 891.6 | 891.6 | 891.6 | 891.6 |
| 2.5° | 881.4 | 879.4 | 875.3 | 863.1 | 852.9 | 846.8 | 834.6 | 834.6 | 832.6 | 828.5 | 820.4 |
| 5° | 852.9 | 844.8 | 836.6 | 814.3 | 789.8 | 775.6 | 759.3 | 757.3 | 757.3 | 753.2 | 751.1 |
| 7.5° | 808.1 | 800.0 | 789.8 | 753.2 | 730.8 | 716.5 | 702.3 | 700.3 | 694.2 | 694.2 | 694.2 |
| 10° | 783.7 | 771.5 | 755.2 | 714.5 | 692.1 | 679.9 | 669.7 | 663.6 | 659.5 | 653.4 | 651.4 |
| 12.5° | 836.6 | 814.3 | 779.6 | 706.4 | 675.8 | 659.5 | 647.3 | 643.3 | 631.0 | 622.9 | 616.8 |
| 15° | 1001.5 | 946.6 | 877.4 | 724.7 | 669.7 | 645.3 | 629.0 | 620.9 | 610.7 | 596.4 | 586.3 |
| 17.5° | 1272.3 | 1192.9 | 1076.8 | 783.7 | 663.6 | 633.1 | 612.7 | 598.5 | 584.2 | 567.9 | 555.7 |
| 20° | 1646.8 | 1528.8 | 1390.3 | 891.6 | 663.6 | 618.8 | 594.4 | 576.1 | 555.7 | 537.4 | 523.2 |
| 22.5° | 2123.2 | 2005.1 | 1769.0 | 1074.8 | 671.8 | 600.5 | 572.0 | 547.6 | 523.2 | 506.9 | 490.6 |
| 25° | 2656.5 | 2489.6 | 2269.7 | 1296.7 | 694.2 | 576.1 | 545.5 | 521.1 | 498.7 | 478.4 | 460.1 |
| 27.5° | 3250.9 | 3069.7 | 2776.6 | 1612.2 | 743.0 | 551.7 | 517.1 | 494.7 | 474.3 | 453.9 | 429.5 |
| 30° | 3798.5 | 3690.6 | 3391.4 | 1990.8 | 822.4 | 535.4 | 494.7 | 474.3 | 453.9 | 427.5 | 405.1 |
| 32.5° | 4456.0 | 4264.6 | 4018.3 | 2422.4 | 928.2 | 519.1 | 476.3 | 447.8 | 431.6 | 407.1 | 382.7 |
| 35° | 5117.6 | 4954.7 | 4631.1 | 2953.7 | 1046.3 | 502.8 | 453.9 | 427.5 | 413.2 | 384.7 | 358.3 |
| 37.5° | 5799.5 | 5762.9 | 5443.3 | 3542.0 | 1162.3 | 484.5 | 427.5 | 411.2 | 396.9 | 364.4 | 333.8 |
| 40° | 6471.3 | 6404.1 | 6108.9 | 4213.8 | 1233.6 | 464.1 | 405.1 | 394.9 | 378.6 | 342.0 | 307.4 |
| 42.5° | 7114.5 | 7063.6 | 6776.6 | 4857.0 | 1223.4 | 445.8 | 382.7 | 370.5 | 358.3 | 321.6 | 278.9 |
| 45° | 7904.4 | 7820.9 | 7458.6 | 5333.4 | 1119.6 | 466.2 | 360.3 | 340.0 | 337.9 | 303.3 | 250.4 |
| 47.5° | 9382.2 | 9107.4 | 8492.7 | 5699.8 | 1015.8 | 519.1 | 335.9 | 311.5 | 325.7 | 285.0 | 221.9 |
| 50° | 11452.5 | 11128.8 | 10239.2 | 5984.8 | 1013.7 | 588.3 | 331.8 | 285.0 | 315.5 | 270.7 | 197.5 |
| 52.5° | 13532.9 | 12962.9 | 11882.0 | 6137.4 | 1089.1 | 639.2 | 368.4 | 258.5 | 303.3 | 256.5 | 179.1 |
| 55° | 15525.8 | 14343.1 | 12570.0 | 5632.6 | 1148.1 | 694.2 | 435.6 | 244.3 | 280.9 | 240.2 | 169.0 |
| 57.5° | 17425.0 | 15452.5 | 12869.3 | 4456.0 | 1345.6 | 716.5 | 476.3 | 250.4 | 248.3 | 219.8 | 160.8 |
| 60° | 17685.6 | 15399.6 | 12264.7 | 2591.4 | 1484.0 | 677.9 | 460.1 | 278.9 | 217.8 | 195.4 | 146.6 |
| 62.5° | 16700.3 | 14375.6 | 10886.6 | 1616.3 | 1378.1 | 663.6 | 409.2 | 317.6 | 197.5 | 173.0 | 128.2 |
| 65° | 15204.1 | 12769.5 | 9076.9 | 1042.2 | 1044.3 | 736.9 | 358.3 | 311.5 | 185.2 | 152.7 | 109.9 |
| 67.5° | 12865.2 | 10687.1 | 7151.2 | 698.2 | 590.3 | 629.0 | 313.5 | 213.7 | 181.2 | 130.3 | 85.5 |
| 70° | 9390.4 | 7607.2 | 4655.5 | 466.2 | 352.2 | 502.8 | 262.6 | 152.7 | 171.0 | 107.9 | 61.1 |
| 72.5° | 6864.2 | 5111.5 | 2599.5 | 305.3 | 199.5 | 293.1 | 193.4 | 109.9 | 132.3 | 79.4 | 42.7 |
| 75° | 4940.5 | 3517.6 | 1484.0 | 195.4 | 132.3 | 160.8 | 126.2 | 75.3 | 85.5 | 63.1 | 38.7 |
| 77.5° | 2377.6 | 1714.0 | 673.8 | 107.9 | 89.6 | 81.4 | 67.2 | 46.8 | 52.9 | 57.0 | 34.6 |
| 80° | 89.6 | 67.2 | 50.9 | 52.9 | 57.0 | 36.6 | 30.5 | 24.4 | 30.5 | 38.7 | 18.3 |
| 82.5° | 0.0 | 0.0 | 0.0 | 6.1 | 8.1 | 10.2 | 12.2 | 10.2 | 12.2 | 14.2 | 2.0 |
| 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-SA6C-740-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 891.6 | 891.6 | 891.6 | 891.6 | 891.6 | 891.6 | 891.6 | 891.6 | 891.6 | 891.6 | 891.6 |
| 2.5° | 826.5 | 822.4 | 826.5 | 830.5 | 834.6 | 838.7 | 832.6 | 836.6 | 840.7 | 830.5 | 834.6 |
| 5° | 761.3 | 759.3 | 771.5 | 777.6 | 785.8 | 789.8 | 785.8 | 785.8 | 783.7 | 771.5 | 771.5 |
| 7.5° | 704.3 | 706.4 | 716.5 | 730.8 | 741.0 | 747.1 | 743.0 | 741.0 | 734.9 | 716.5 | 716.5 |
| 10° | 661.6 | 661.6 | 677.9 | 690.1 | 704.3 | 710.4 | 706.4 | 700.3 | 694.2 | 675.8 | 673.8 |
| 12.5° | 627.0 | 627.0 | 639.2 | 659.5 | 675.8 | 684.0 | 681.9 | 673.8 | 663.6 | 645.3 | 643.3 |
| 15° | 594.4 | 592.4 | 610.7 | 629.0 | 651.4 | 661.6 | 657.5 | 651.4 | 633.1 | 616.8 | 612.7 |
| 17.5° | 561.8 | 559.8 | 576.1 | 600.5 | 624.9 | 639.2 | 637.2 | 622.9 | 606.6 | 586.3 | 582.2 |
| 20° | 529.3 | 525.2 | 545.5 | 570.0 | 594.4 | 608.7 | 604.6 | 592.4 | 572.0 | 551.7 | 547.6 |
| 22.5° | 496.7 | 494.7 | 508.9 | 529.3 | 551.7 | 563.9 | 561.8 | 551.7 | 531.3 | 513.0 | 513.0 |
| 25° | 460.1 | 460.1 | 470.2 | 484.5 | 500.8 | 506.9 | 508.9 | 504.8 | 492.6 | 482.4 | 482.4 |
| 27.5° | 429.5 | 423.4 | 427.5 | 431.6 | 439.7 | 449.9 | 449.9 | 453.9 | 456.0 | 451.9 | 453.9 |
| 30° | 405.1 | 394.9 | 388.8 | 380.7 | 376.6 | 380.7 | 384.7 | 399.0 | 413.2 | 421.4 | 425.4 |
| 32.5° | 376.6 | 364.4 | 348.1 | 325.7 | 311.5 | 307.4 | 319.6 | 346.1 | 372.5 | 390.8 | 401.0 |
| 35° | 348.1 | 331.8 | 301.3 | 268.7 | 250.4 | 244.3 | 258.5 | 289.1 | 327.7 | 360.3 | 374.6 |
| 37.5° | 319.6 | 297.2 | 254.5 | 215.8 | 195.4 | 191.3 | 205.6 | 238.2 | 283.0 | 327.7 | 346.1 |
| 40° | 287.0 | 260.6 | 209.7 | 169.0 | 152.7 | 148.6 | 160.8 | 193.4 | 240.2 | 291.1 | 319.6 |
| 42.5° | 254.5 | 221.9 | 169.0 | 134.4 | 118.1 | 118.1 | 134.4 | 158.8 | 201.5 | 256.5 | 291.1 |
| 45° | 221.9 | 187.3 | 138.4 | 107.9 | 97.7 | 99.7 | 109.9 | 134.4 | 169.0 | 226.0 | 258.5 |
| 47.5° | 191.3 | 160.8 | 114.0 | 89.6 | 81.4 | 83.5 | 95.7 | 116.0 | 144.5 | 195.4 | 230.0 |
| 50° | 164.9 | 136.4 | 99.7 | 75.3 | 69.2 | 73.3 | 85.5 | 103.8 | 128.2 | 173.0 | 201.5 |
| 52.5° | 148.6 | 122.1 | 91.6 | 65.1 | 61.1 | 65.1 | 77.4 | 93.6 | 116.0 | 152.7 | 181.2 |
| 55° | 140.5 | 120.1 | 91.6 | 59.0 | 52.9 | 57.0 | 69.2 | 85.5 | 103.8 | 138.4 | 162.9 |
| 57.5° | 138.4 | 124.2 | 97.7 | 52.9 | 44.8 | 48.9 | 61.1 | 77.4 | 95.7 | 126.2 | 146.6 |
| 60° | 130.3 | 118.1 | 95.7 | 42.7 | 34.6 | 40.7 | 50.9 | 67.2 | 87.5 | 118.1 | 136.4 |
| 62.5° | 114.0 | 103.8 | 83.5 | 34.6 | 26.5 | 30.5 | 42.7 | 59.0 | 79.4 | 107.9 | 128.2 |
| 65° | 93.6 | 83.5 | 65.1 | 22.4 | 16.3 | 20.4 | 32.6 | 50.9 | 69.2 | 97.7 | 116.0 |
| 67.5° | 69.2 | 59.0 | 44.8 | 14.2 | 8.1 | 14.2 | 26.5 | 42.7 | 63.1 | 87.5 | 105.9 |
| 70° | 42.7 | 34.6 | 24.4 | 8.1 | 6.1 | 12.2 | 24.4 | 40.7 | 57.0 | 81.4 | 99.7 |
| 72.5° | 24.4 | 16.3 | 10.2 | 4.1 | 6.1 | 12.2 | 24.4 | 40.7 | 55.0 | 77.4 | 93.6 |
| 75° | 18.3 | 10.2 | 4.1 | 2.0 | 4.1 | 10.2 | 22.4 | 36.6 | 52.9 | 73.3 | 89.6 |
| 77.5° | 12.2 | 6.1 | 2.0 | 0.0 | 2.0 | 8.1 | 20.4 | 34.6 | 48.9 | 69.2 | 85.5 |
| 80° | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.1 | 18.3 | 30.5 | 44.8 | 61.1 | 75.3 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 14.2 | 26.5 | 38.7 | 50.9 | 61.1 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.1 | 20.4 | 30.5 | 38.7 | 42.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.2 | 20.4 | 24.4 | 28.5 |
| 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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CATALOG NUMBER: GWS-SA6C-740-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|-------|-------|-------|-------|-------|-------|--------|--------|---------|---------|---------|
| 0° | 891.6 | 891.6 | 891.6 | 891.6 | 891.6 | 891.6 | 891.6 | 891.6 | 891.6 | 891.6 | 891.6 |
| 2.5° | 832.6 | 844.8 | 844.8 | 852.9 | 863.1 | 881.4 | 891.6 | 905.9 | 916.0 | 926.2 | 930.3 |
| 5° | 769.5 | 771.5 | 773.5 | 777.6 | 789.8 | 810.2 | 828.5 | 850.9 | 877.4 | 897.7 | 909.9 |
| 7.5° | 716.5 | 716.5 | 716.5 | 722.6 | 734.9 | 749.1 | 767.4 | 798.0 | 828.5 | 852.9 | 873.3 |
| 10° | 671.8 | 677.9 | 679.9 | 690.1 | 704.3 | 722.6 | 743.0 | 769.5 | 804.1 | 836.6 | 873.3 |
| 12.5° | 643.3 | 649.4 | 659.5 | 669.7 | 684.0 | 704.3 | 726.7 | 761.3 | 832.6 | 899.7 | 977.1 |
| 15° | 616.8 | 624.9 | 637.2 | 651.4 | 667.7 | 690.1 | 714.5 | 785.8 | 952.7 | 1078.9 | 1201.0 |
| 17.5° | 588.3 | 600.5 | 616.8 | 631.0 | 651.4 | 675.8 | 706.4 | 844.8 | 1172.5 | 1382.2 | 1589.8 |
| 20° | 551.7 | 567.9 | 586.3 | 608.7 | 633.1 | 661.6 | 706.4 | 966.9 | 1490.1 | 1791.4 | 2066.2 |
| 22.5° | 517.1 | 533.3 | 555.7 | 584.2 | 612.7 | 641.2 | 716.5 | 1152.2 | 1899.2 | 2279.9 | 2628.0 |
| 25° | 488.6 | 508.9 | 531.3 | 555.7 | 588.3 | 620.9 | 741.0 | 1412.7 | 2391.9 | 2882.5 | 3128.8 |
| 27.5° | 462.1 | 486.5 | 508.9 | 529.3 | 557.8 | 594.4 | 795.9 | 1760.8 | 2974.1 | 3472.8 | 3666.2 |
| 30° | 435.6 | 464.1 | 486.5 | 506.9 | 535.4 | 574.0 | 879.4 | 2204.6 | 3621.4 | 4105.9 | 4126.2 |
| 32.5° | 413.2 | 439.7 | 466.2 | 486.5 | 513.0 | 557.8 | 995.4 | 2723.7 | 4285.0 | 4753.2 | 4561.9 |
| 35° | 388.8 | 419.3 | 443.8 | 466.2 | 494.7 | 543.5 | 1129.8 | 3283.5 | 4954.7 | 5347.6 | 4995.4 |
| 37.5° | 364.4 | 399.0 | 429.5 | 445.8 | 474.3 | 529.3 | 1227.5 | 3867.7 | 5638.7 | 5927.8 | 5376.1 |
| 40° | 342.0 | 380.7 | 415.3 | 431.6 | 445.8 | 510.9 | 1241.7 | 4466.2 | 6332.9 | 6499.8 | 5734.4 |
| 42.5° | 317.6 | 360.3 | 390.8 | 413.2 | 425.4 | 498.7 | 1156.2 | 4971.0 | 6915.0 | 7069.8 | 6202.6 |
| 45° | 291.1 | 342.0 | 366.4 | 382.7 | 407.1 | 506.9 | 1046.3 | 5361.9 | 7580.7 | 7847.4 | 6974.1 |
| 47.5° | 264.6 | 321.6 | 342.0 | 354.2 | 386.8 | 555.7 | 1005.6 | 5622.4 | 8677.9 | 9231.6 | 8274.8 |
| 50° | 240.2 | 303.3 | 325.7 | 323.7 | 382.7 | 618.8 | 1050.4 | 5819.9 | 10326.8 | 10978.2 | 10058.1 |
| 52.5° | 213.7 | 283.0 | 309.4 | 301.3 | 413.2 | 667.7 | 1140.0 | 5976.6 | 11595.0 | 13026.0 | 12454.0 |
| 55° | 191.3 | 260.6 | 285.0 | 283.0 | 470.2 | 704.3 | 1209.2 | 5150.2 | 12120.2 | 14929.3 | 15153.2 |
| 57.5° | 175.1 | 236.1 | 256.5 | 291.1 | 506.9 | 704.3 | 1398.5 | 3656.0 | 12130.3 | 16329.8 | 18736.0 |
| 60° | 160.8 | 213.7 | 228.0 | 319.6 | 492.6 | 667.7 | 1384.2 | 2239.2 | 11179.7 | 16234.2 | 20641.3 |
| 62.5° | 148.6 | 193.4 | 211.7 | 327.7 | 435.6 | 661.6 | 1249.9 | 1388.3 | 9534.9 | 14998.5 | 19259.1 |
| 65° | 138.4 | 177.1 | 203.6 | 301.3 | 394.9 | 708.4 | 842.8 | 997.5 | 7733.4 | 13589.9 | 17673.4 |
| 67.5° | 128.2 | 162.9 | 215.8 | 246.3 | 358.3 | 633.1 | 608.7 | 708.4 | 6070.3 | 12044.8 | 16217.9 |
| 70° | 120.1 | 154.7 | 228.0 | 201.5 | 313.5 | 494.7 | 431.6 | 537.4 | 4647.3 | 10049.9 | 14168.0 |
| 72.5° | 114.0 | 144.5 | 191.3 | 158.8 | 254.5 | 382.7 | 301.3 | 390.8 | 3037.2 | 7845.3 | 11550.2 |
| 75° | 107.9 | 132.3 | 140.5 | 128.2 | 189.3 | 250.4 | 228.0 | 262.6 | 1809.7 | 5734.4 | 8763.4 |
| 77.5° | 105.9 | 124.2 | 114.0 | 103.8 | 128.2 | 148.6 | 173.0 | 177.1 | 883.5 | 2868.2 | 4592.4 |
| 80° | 93.6 | 112.0 | 97.7 | 85.5 | 87.5 | 97.7 | 128.2 | 118.1 | 201.5 | 728.8 | 1225.5 |
| 82.5° | 73.3 | 87.5 | 81.4 | 71.2 | 71.2 | 71.2 | 85.5 | 79.4 | 65.1 | 327.7 | 553.7 |
| 85° | 50.9 | 61.1 | 61.1 | 57.0 | 55.0 | 55.0 | 52.9 | 50.9 | 18.3 | 20.4 | 30.5 |
| 87.5° | 34.6 | 42.7 | 44.8 | 42.7 | 36.6 | 32.6 | 28.5 | 24.4 | 8.1 | 0.0 | 4.1 |
| 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° | 891.6 | 891.6 | 891.6 | 891.6 | 891.6 | 891.6 | 891.6 | 891.6 | 891.6 | 891.6 |
| 2.5° | 944.5 | 950.6 | 950.6 | 942.5 | 936.4 | 920.1 | 903.8 | 887.5 | 883.5 | 881.4 |
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| 10° | 962.9 | 1054.5 | 1127.7 | 1137.9 | 1107.4 | 1015.8 | 914.0 | 820.4 | 798.0 | 783.7 |
| 12.5° | 1137.9 | 1288.6 | 1378.1 | 1420.9 | 1361.8 | 1245.8 | 1076.8 | 909.9 | 859.0 | 836.6 |
| 15° | 1492.1 | 1705.9 | 1876.9 | 1876.9 | 1821.9 | 1616.3 | 1402.6 | 1131.8 | 1062.6 | 1001.5 |
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| 20° | 2463.1 | 2623.9 | 2658.5 | 2648.4 | 2611.7 | 2528.3 | 2351.2 | 1933.9 | 1744.5 | 1646.8 |
| 22.5° | 2911.0 | 2868.2 | 2817.3 | 2776.6 | 2766.4 | 2790.9 | 2766.4 | 2444.8 | 2296.2 | 2123.2 |
| 25° | 3214.3 | 2972.0 | 2819.4 | 2746.1 | 2780.7 | 2921.1 | 3073.8 | 2953.7 | 2835.6 | 2656.5 |
| 27.5° | 3379.1 | 2959.8 | 2740.0 | 2664.6 | 2723.7 | 2923.2 | 3255.0 | 3458.5 | 3336.4 | 3250.9 |
| 30° | 3468.7 | 2949.6 | 2689.1 | 2615.8 | 2705.4 | 2955.7 | 3381.2 | 3930.8 | 3934.9 | 3798.5 |
| 32.5° | 3597.0 | 3014.8 | 2699.2 | 2632.1 | 2752.2 | 3053.4 | 3540.0 | 4411.2 | 4529.3 | 4456.0 |
| 35° | 3741.5 | 3114.5 | 2746.1 | 2685.0 | 2833.6 | 3183.7 | 3717.1 | 4895.7 | 5142.0 | 5117.6 |
| 37.5° | 3877.9 | 3226.5 | 2856.0 | 2797.0 | 2957.8 | 3295.7 | 3888.1 | 5372.0 | 5714.0 | 5799.5 |
| 40° | 4020.4 | 3383.2 | 3193.9 | 3250.9 | 3340.5 | 3472.8 | 4040.7 | 5785.3 | 6343.0 | 6471.3 |
| 42.5° | 4356.3 | 3926.7 | 4215.8 | 4323.7 | 4335.9 | 4063.1 | 4374.6 | 6314.5 | 6961.9 | 7114.5 |
| 45° | 5105.4 | 4893.7 | 5722.2 | 5874.8 | 5795.4 | 4969.0 | 5178.6 | 7077.9 | 7827.0 | 7904.4 |
| 47.5° | 6051.9 | 6149.6 | 7784.3 | 8311.5 | 7835.1 | 6037.7 | 6153.7 | 8684.0 | 9410.7 | 9382.2 |
| 50° | 7155.2 | 7617.3 | 10125.2 | 11369.0 | 10229.1 | 7426.0 | 7277.4 | 10658.6 | 11540.0 | 11452.5 |
| 52.5° | 8460.1 | 9323.2 | 12938.5 | 14705.4 | 13626.5 | 8987.3 | 8926.2 | 13274.4 | 13811.8 | 13532.9 |
| 55° | 10102.8 | 10970.0 | 16175.1 | 18644.4 | 17109.5 | 10892.7 | 11102.3 | 16307.5 | 16411.3 | 15525.8 |
| 57.5° | 12553.7 | 13117.6 | 19989.9 | 23161.4 | 20745.1 | 13482.0 | 15002.6 | 20344.1 | 19102.4 | 17425.0 |
| 60° | 17003.6 | 15880.0 | 23676.4 | 27782.3 | 24612.8 | 17123.7 | 20146.7 | 22736.0 | 19998.1 | 17685.6 |
| 62.5° | 18552.8 | 18225.0 | 25984.8 | 29736.5 | 27214.4 | 20114.1 | 21484.1 | 21380.2 | 18837.7 | 16700.3 |
| 65° | 16205.7 | 17640.8 | 25571.6 | 28704.5 | 26880.5 | 19621.5 | 19279.5 | 19884.1 | 17530.9 | 15204.1 |
| 67.5° | 14970.0 | 16268.8 | 24006.2 | 25856.6 | 25030.1 | 17950.2 | 17184.8 | 17019.9 | 14717.6 | 12865.2 |
| 70° | 13724.2 | 15010.8 | 21736.5 | 21966.5 | 21581.8 | 15226.5 | 14220.9 | 13115.6 | 11000.6 | 9390.4 |
| 72.5° | 12226.0 | 12934.4 | 18587.4 | 17496.3 | 17060.6 | 11959.3 | 11747.6 | 9876.9 | 8246.3 | 6864.2 |
| 75° | 10662.6 | 10457.0 | 14491.7 | 12008.2 | 12333.9 | 9304.9 | 9921.7 | 7253.0 | 6041.8 | 4940.5 |
| 77.5° | 7755.8 | 7603.1 | 9705.9 | 7293.7 | 8077.4 | 6094.7 | 5475.9 | 2894.7 | 2756.2 | 2377.6 |
| 80° | 4327.8 | 5217.3 | 5241.8 | 4087.5 | 5099.3 | 3973.6 | 1370.0 | 95.7 | 61.1 | 89.6 |
| 82.5° | 2011.2 | 2243.3 | 2841.7 | 1895.2 | 2908.9 | 1968.5 | 283.0 | 0.0 | 0.0 | 0.0 |
| 85° | 651.4 | 952.7 | 798.0 | 278.9 | 704.3 | 665.7 | 46.8 | 0.0 | 0.0 | 0.0 |
| 87.5° | 38.7 | 79.4 | 20.4 | 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)