

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: P639191

Luminaire Tested: GWS-SA5B-735-U-SL3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639191
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-735-U-SL3-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17159.1 lumens
Efficiency: N/A
Efficacy: 148.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

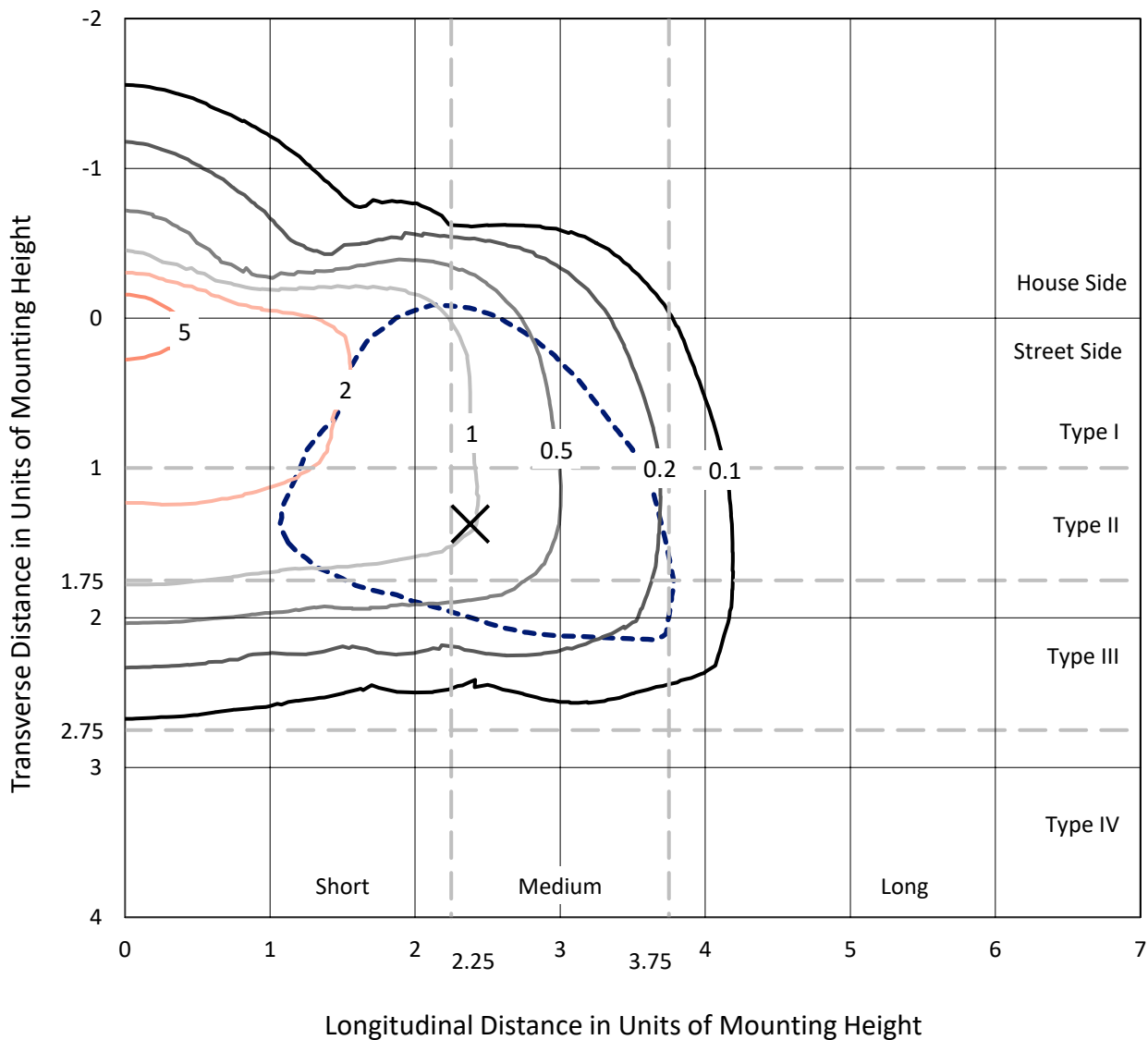
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

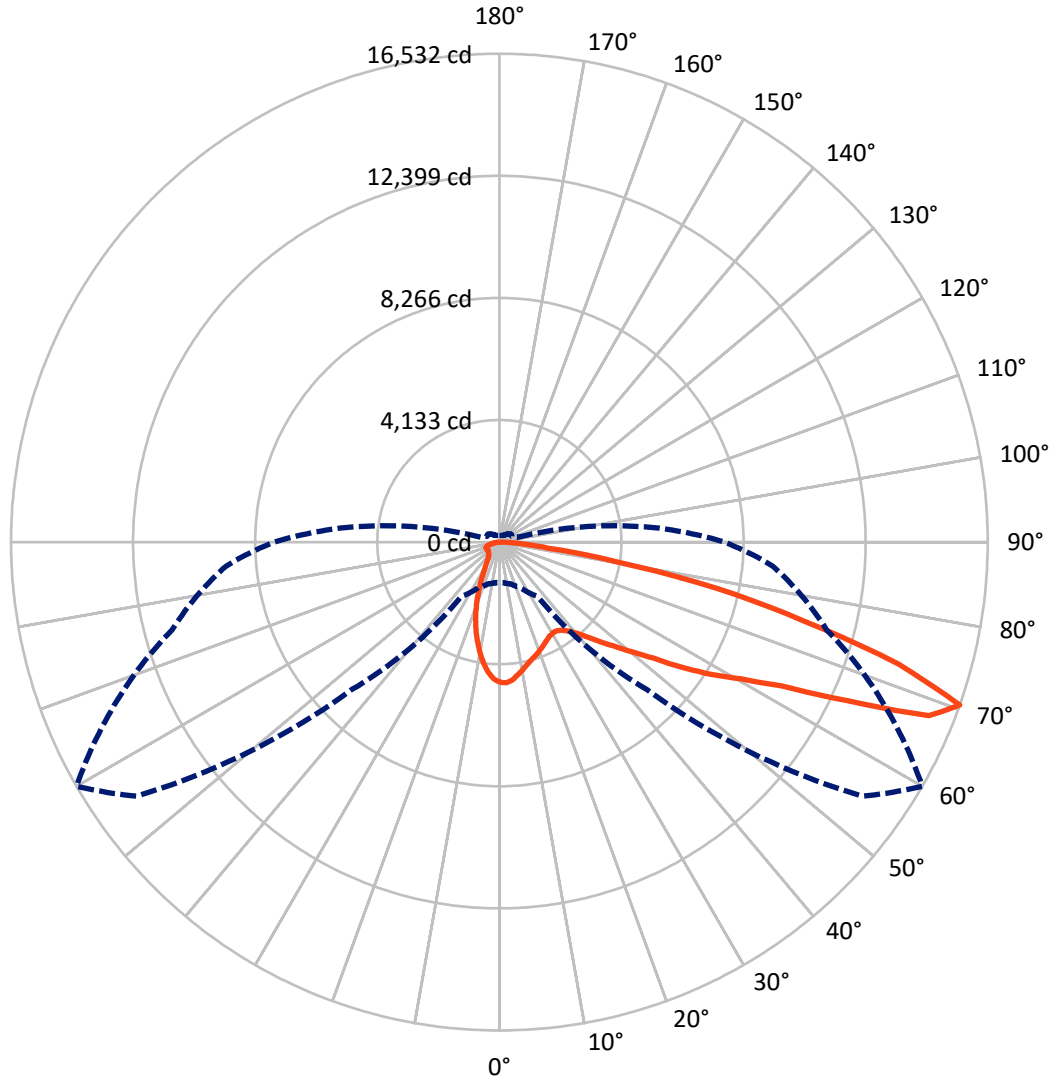
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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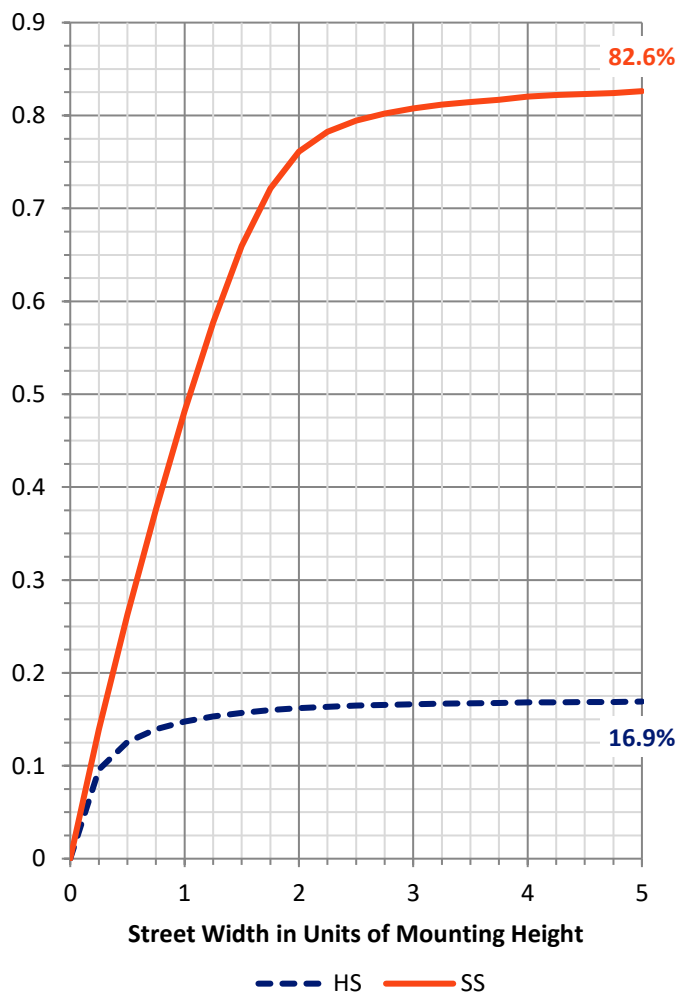
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2934.6 | 0.0 | 2934.6 |
| | % Fixture | 17.1 | 0.0 | 17.1 |
| Street Side | Lumens | 14224.5 | 0.0 | 14224.5 |
| | % Fixture | 82.9 | 0.0 | 82.9 |
| Total | Lumens | 17159.1 | 0.0 | 17159.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 409.3 | 2.4 |
| 10°-20° | 916.9 | 5.3 |
| 20°-30° | 1174.2 | 6.8 |
| 30°-40° | 1543.2 | 9.0 |
| 40°-50° | 2239.0 | 13.0 |
| 50°-60° | 3493.4 | 20.4 |
| 60°-70° | 4573.5 | 26.7 |
| 70°-80° | 2529.0 | 14.7 |
| 80°-90° | 280.7 | 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° | 17159.1 | 100.0 |
| 0°-180° | 17159.1 | 100.0 |

Coefficient of Utilization



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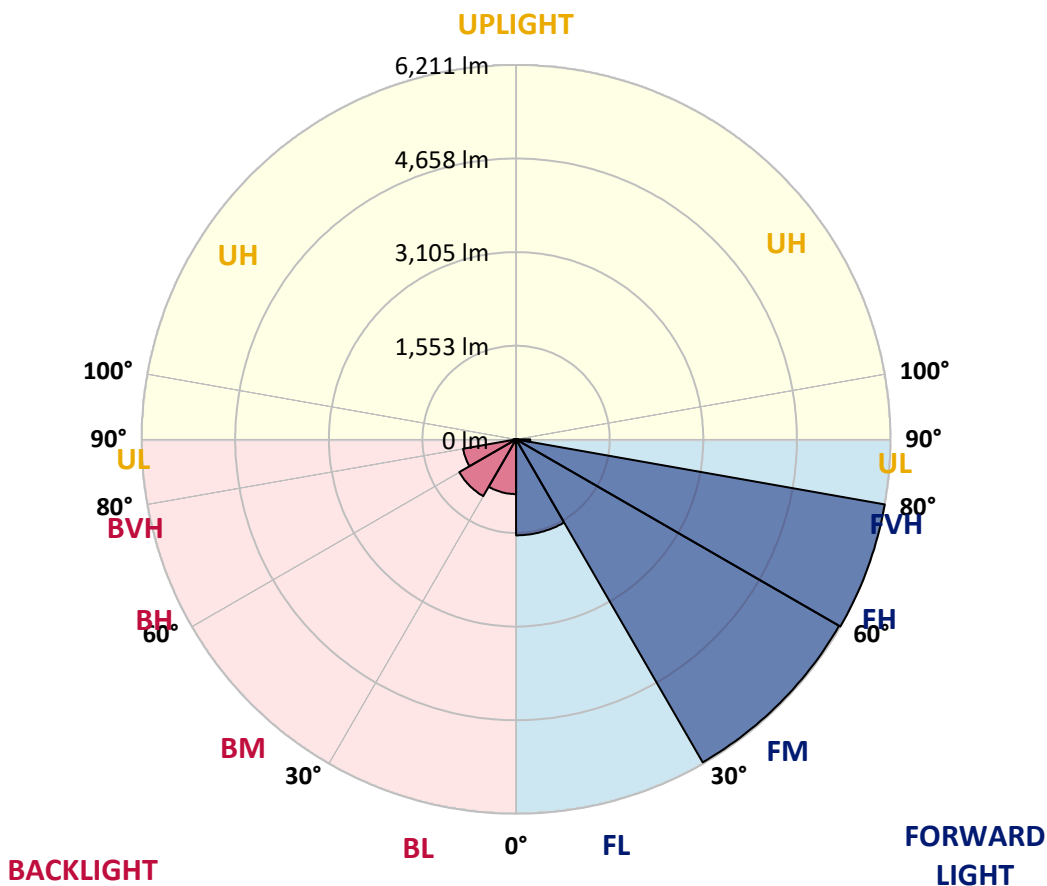
CATALOG NUMBER: GWS-SA5B-735-U-SL3-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1592.5 | 9.3 | | | |
| FM (30°-60°) | 6187.5 | 36.1 | | | |
| FH (60°-80°) | 6210.6 | 36.2 | | | G3/7500 |
| FVH (80°-90°) | 233.9 | 1.4 | | | G3/500 |
| BL (0°-30°) | 907.9 | 5.3 | B2/1000 | | |
| BM (30°-60°) | 1088.1 | 6.3 | B2/2500 | | |
| BH (60°-80°) | 891.8 | 5.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 46.8 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 4748.1 | 4748.1 | 4748.1 | 4748.1 | 4748.1 | 4748.1 | 4748.1 | 4748.1 | 4748.1 | 4748.1 | 4748.1 |
| 2.5° | 4681.6 | 4686.6 | 4700.4 | 4720.5 | 4740.6 | 4750.7 | 4775.8 | 4768.2 | 4763.2 | 4753.2 | 4740.6 |
| 5° | 4474.5 | 4484.5 | 4497.1 | 4536.0 | 4579.9 | 4615.1 | 4671.6 | 4677.8 | 4680.4 | 4685.4 | 4665.3 |
| 7.5° | 4210.8 | 4213.3 | 4243.5 | 4294.9 | 4352.7 | 4412.9 | 4507.1 | 4533.5 | 4556.1 | 4581.2 | 4564.8 |
| 10° | 3919.5 | 3925.8 | 3948.4 | 4022.5 | 4121.7 | 4210.8 | 4337.6 | 4381.6 | 4429.3 | 4484.5 | 4461.9 |
| 12.5° | 3681.0 | 3682.3 | 3718.7 | 3797.8 | 3905.7 | 4026.3 | 4184.4 | 4237.2 | 4299.9 | 4386.6 | 4366.5 |
| 15° | 3491.4 | 3491.4 | 3525.3 | 3593.1 | 3717.4 | 3859.3 | 4047.6 | 4115.4 | 4200.8 | 4317.5 | 4282.4 |
| 17.5° | 3340.8 | 3342.0 | 3363.4 | 3434.9 | 3545.4 | 3702.3 | 3925.8 | 4017.5 | 4111.6 | 4266.0 | 4213.3 |
| 20° | 3261.7 | 3255.4 | 3259.2 | 3303.1 | 3397.3 | 3549.2 | 3804.0 | 3910.8 | 4037.6 | 4230.9 | 4150.5 |
| 22.5° | 3257.9 | 3246.6 | 3230.3 | 3234.1 | 3289.3 | 3414.8 | 3673.5 | 3802.8 | 3962.2 | 4202.0 | 4086.5 |
| 25° | 3321.9 | 3309.4 | 3280.5 | 3247.9 | 3242.8 | 3318.2 | 3550.4 | 3697.3 | 3884.4 | 4189.5 | 4025.0 |
| 27.5° | 3429.9 | 3421.1 | 3383.5 | 3334.5 | 3283.0 | 3280.5 | 3457.5 | 3610.7 | 3827.9 | 4202.0 | 3981.1 |
| 30° | 3573.0 | 3558.0 | 3534.1 | 3471.3 | 3393.5 | 3313.2 | 3421.1 | 3564.2 | 3790.2 | 4242.2 | 3962.2 |
| 32.5° | 3735.0 | 3726.2 | 3703.6 | 3640.8 | 3558.0 | 3429.9 | 3450.0 | 3574.3 | 3790.2 | 4312.5 | 3966.0 |
| 35° | 3907.0 | 3905.7 | 3905.7 | 3864.3 | 3772.7 | 3613.2 | 3564.2 | 3659.7 | 3848.0 | 4425.5 | 4006.2 |
| 37.5° | 4074.0 | 4072.7 | 4112.9 | 4127.9 | 4023.7 | 3851.7 | 3758.8 | 3830.4 | 3974.8 | 4592.5 | 4105.4 |
| 40° | 4209.6 | 4214.6 | 4302.5 | 4377.8 | 4320.0 | 4160.6 | 4030.0 | 4066.4 | 4180.7 | 4829.7 | 4278.6 |
| 42.5° | 4346.4 | 4360.2 | 4492.0 | 4625.1 | 4647.7 | 4509.6 | 4377.8 | 4399.1 | 4475.7 | 5143.6 | 4537.2 |
| 45° | 4495.8 | 4502.1 | 4686.6 | 4872.4 | 4981.7 | 4900.1 | 4792.1 | 4821.0 | 4838.5 | 5531.6 | 4922.7 |
| 47.5° | 4640.2 | 4656.5 | 4895.0 | 5149.9 | 5357.0 | 5349.5 | 5289.2 | 5280.5 | 5284.2 | 6003.6 | 5378.4 |
| 50° | 4837.3 | 4861.1 | 5141.1 | 5448.7 | 5752.5 | 5891.9 | 5909.4 | 5842.9 | 5815.3 | 6528.4 | 5945.9 |
| 52.5° | 5211.4 | 5211.4 | 5462.5 | 5765.1 | 6173.1 | 6518.3 | 6636.4 | 6527.1 | 6439.2 | 7083.3 | 6548.5 |
| 55° | 5679.7 | 5699.8 | 5899.4 | 6144.2 | 6661.5 | 7177.5 | 7576.7 | 7456.2 | 7207.6 | 7687.2 | 7180.0 |
| 57.5° | 5888.1 | 5913.2 | 6229.6 | 6610.0 | 7300.5 | 7927.0 | 8480.6 | 8437.9 | 8075.1 | 8314.9 | 7835.3 |
| 60° | 5511.5 | 5564.2 | 5999.8 | 6637.6 | 7879.3 | 9136.0 | 9526.4 | 9402.1 | 8883.6 | 8974.0 | 8545.9 |
| 62.5° | 4597.5 | 4655.2 | 5138.6 | 6028.7 | 7798.9 | 10442.9 | 11174.8 | 10716.6 | 9893.0 | 9806.4 | 9492.5 |
| 65° | 2743.2 | 2740.7 | 3321.9 | 4502.1 | 6808.4 | 10805.7 | 13783.7 | 12928.7 | 11452.3 | 10948.9 | 10466.8 |
| 67.5° | 1743.8 | 1740.1 | 1861.8 | 2385.4 | 4531.0 | 9916.9 | 15461.0 | 15683.2 | 13570.3 | 11788.8 | 10547.1 |
| 70° | 1376.0 | 1374.7 | 1462.6 | 1701.1 | 2241.0 | 7056.9 | 14993.9 | 16531.9 | 14849.6 | 11468.6 | 9286.6 |
| 72.5° | 1003.1 | 1005.6 | 1141.2 | 1424.9 | 1728.8 | 3542.9 | 12141.5 | 14145.3 | 13658.1 | 10124.0 | 7539.0 |
| 75° | 720.6 | 724.4 | 806.0 | 1091.0 | 1594.4 | 1937.2 | 8073.9 | 10636.2 | 10391.4 | 8115.3 | 5186.3 |
| 77.5° | 458.2 | 463.3 | 534.8 | 764.6 | 1288.1 | 1564.3 | 4895.0 | 7508.9 | 6913.8 | 4572.4 | 1844.3 |
| 80° | 280.0 | 296.3 | 356.6 | 570.0 | 1029.5 | 1173.9 | 2446.9 | 3956.0 | 3462.6 | 1254.2 | 620.2 |
| 82.5° | 144.4 | 156.9 | 214.7 | 352.8 | 709.3 | 1030.7 | 1384.8 | 1662.2 | 1072.2 | 524.8 | 330.2 |
| 85° | 45.2 | 52.7 | 75.3 | 143.1 | 337.7 | 639.0 | 916.5 | 826.1 | 492.1 | 247.3 | 153.2 |
| 87.5° | 11.3 | 11.3 | 12.6 | 12.6 | 13.8 | 28.9 | 177.0 | 187.1 | 130.6 | 77.8 | 62.8 |
| 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-SA5B-735-U-SL3-W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4748.1 | 4748.1 | 4748.1 | 4748.1 | 4748.1 | 4748.1 | 4748.1 | 4748.1 | 4748.1 | 4748.1 | 4748.1 |
| 2.5° | 4715.5 | 4685.4 | 4672.8 | 4671.6 | 4640.2 | 4595.0 | 4564.8 | 4543.5 | 4531.0 | 4528.4 | 4528.4 |
| 5° | 4631.4 | 4592.5 | 4541.0 | 4502.1 | 4418.0 | 4332.6 | 4261.0 | 4220.9 | 4174.4 | 4168.1 | 4166.9 |
| 7.5° | 4519.7 | 4463.2 | 4365.2 | 4256.0 | 4109.1 | 3967.2 | 3846.7 | 3765.1 | 3683.5 | 3668.5 | 3663.4 |
| 10° | 4399.1 | 4322.5 | 4155.6 | 3963.5 | 3743.8 | 3531.6 | 3347.1 | 3202.7 | 3107.3 | 3039.5 | 3026.9 |
| 12.5° | 4279.9 | 4178.2 | 3933.4 | 3647.1 | 3345.8 | 3055.8 | 2778.3 | 2542.3 | 2371.6 | 2272.4 | 2254.8 |
| 15° | 4168.1 | 4026.3 | 3691.0 | 3325.7 | 2934.0 | 2537.3 | 2144.3 | 1838.0 | 1598.2 | 1512.8 | 1492.7 |
| 17.5° | 4066.4 | 3889.4 | 3456.3 | 2993.0 | 2504.6 | 1986.1 | 1539.2 | 1266.8 | 1126.1 | 1083.5 | 1073.4 |
| 20° | 3964.7 | 3748.8 | 3217.7 | 2642.7 | 2048.9 | 1467.6 | 1124.9 | 996.8 | 944.1 | 927.8 | 922.8 |
| 22.5° | 3855.5 | 3594.4 | 2957.9 | 2297.5 | 1588.2 | 1098.5 | 920.3 | 863.8 | 847.4 | 848.7 | 847.4 |
| 25° | 3746.3 | 3437.4 | 2685.4 | 1922.1 | 1182.6 | 891.4 | 803.5 | 782.2 | 785.9 | 797.2 | 799.7 |
| 27.5° | 3655.9 | 3298.1 | 2418.0 | 1510.3 | 924.0 | 767.1 | 725.7 | 724.4 | 738.2 | 753.3 | 755.8 |
| 30° | 3590.6 | 3173.8 | 2154.4 | 1161.3 | 760.8 | 681.7 | 665.4 | 672.9 | 689.2 | 700.5 | 704.3 |
| 32.5° | 3544.2 | 3067.1 | 1873.1 | 912.7 | 666.6 | 621.5 | 613.9 | 621.5 | 631.5 | 642.8 | 645.3 |
| 35° | 3527.8 | 2989.2 | 1596.9 | 744.5 | 602.6 | 577.5 | 572.5 | 576.3 | 581.3 | 587.6 | 590.1 |
| 37.5° | 3564.2 | 2950.3 | 1308.2 | 647.8 | 563.7 | 548.6 | 541.1 | 538.6 | 539.8 | 542.4 | 543.6 |
| 40° | 3672.2 | 2967.9 | 1072.2 | 591.3 | 538.6 | 524.8 | 512.2 | 507.2 | 505.9 | 508.5 | 507.2 |
| 42.5° | 3858.0 | 3042.0 | 901.4 | 558.7 | 518.5 | 498.4 | 484.6 | 479.6 | 479.6 | 485.9 | 485.9 |
| 45° | 4130.5 | 3187.6 | 778.4 | 534.8 | 500.9 | 475.8 | 460.8 | 458.2 | 463.3 | 473.3 | 474.6 |
| 47.5° | 4529.7 | 3401.0 | 704.3 | 517.2 | 484.6 | 455.7 | 440.7 | 439.4 | 449.5 | 465.8 | 467.0 |
| 50° | 5003.0 | 3708.6 | 664.1 | 504.7 | 473.3 | 439.4 | 424.3 | 425.6 | 436.9 | 454.5 | 458.2 |
| 52.5° | 5573.0 | 4127.9 | 666.6 | 499.7 | 467.0 | 429.4 | 414.3 | 411.8 | 423.1 | 440.7 | 444.4 |
| 55° | 6161.8 | 4637.7 | 715.6 | 500.9 | 458.2 | 424.3 | 404.3 | 395.5 | 405.5 | 418.1 | 419.3 |
| 57.5° | 6809.6 | 5212.7 | 837.4 | 498.4 | 446.9 | 419.3 | 395.5 | 375.4 | 381.7 | 389.2 | 393.0 |
| 60° | 7540.3 | 5889.4 | 1099.8 | 503.4 | 441.9 | 408.0 | 377.9 | 351.5 | 350.3 | 355.3 | 356.6 |
| 62.5° | 8517.0 | 6809.6 | 1394.8 | 512.2 | 453.2 | 394.2 | 351.5 | 323.9 | 318.9 | 321.4 | 322.7 |
| 65° | 9264.0 | 7249.0 | 1301.9 | 504.7 | 477.1 | 384.2 | 326.4 | 297.5 | 287.5 | 285.0 | 285.0 |
| 67.5° | 8960.2 | 6667.7 | 906.4 | 484.6 | 488.4 | 385.4 | 306.3 | 269.9 | 257.4 | 251.1 | 249.8 |
| 70° | 7624.4 | 5416.0 | 630.2 | 464.5 | 475.8 | 382.9 | 285.0 | 247.3 | 231.0 | 222.2 | 221.0 |
| 72.5° | 6023.7 | 4135.5 | 509.7 | 424.3 | 431.9 | 345.3 | 253.6 | 222.2 | 208.4 | 197.1 | 197.1 |
| 75° | 3876.9 | 2523.5 | 425.6 | 377.9 | 352.8 | 268.7 | 219.7 | 198.4 | 184.6 | 173.3 | 173.3 |
| 77.5° | 1304.4 | 936.6 | 330.2 | 320.1 | 263.6 | 202.1 | 184.6 | 170.7 | 159.4 | 149.4 | 148.1 |
| 80° | 529.8 | 444.4 | 242.3 | 242.3 | 184.6 | 154.4 | 144.4 | 138.1 | 130.6 | 118.0 | 118.0 |
| 82.5° | 307.6 | 269.9 | 169.5 | 146.9 | 123.0 | 106.7 | 100.4 | 94.2 | 94.2 | 85.4 | 85.4 |
| 85° | 148.1 | 149.4 | 101.7 | 90.4 | 70.3 | 61.5 | 59.0 | 55.2 | 54.0 | 49.0 | 47.7 |
| 87.5° | 80.3 | 81.6 | 51.5 | 40.2 | 27.6 | 23.9 | 20.1 | 18.8 | 17.6 | 16.3 | 16.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)