

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: P640202

Luminaire Tested: GWS-SA5D-735-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640202
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-735-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25288.7 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

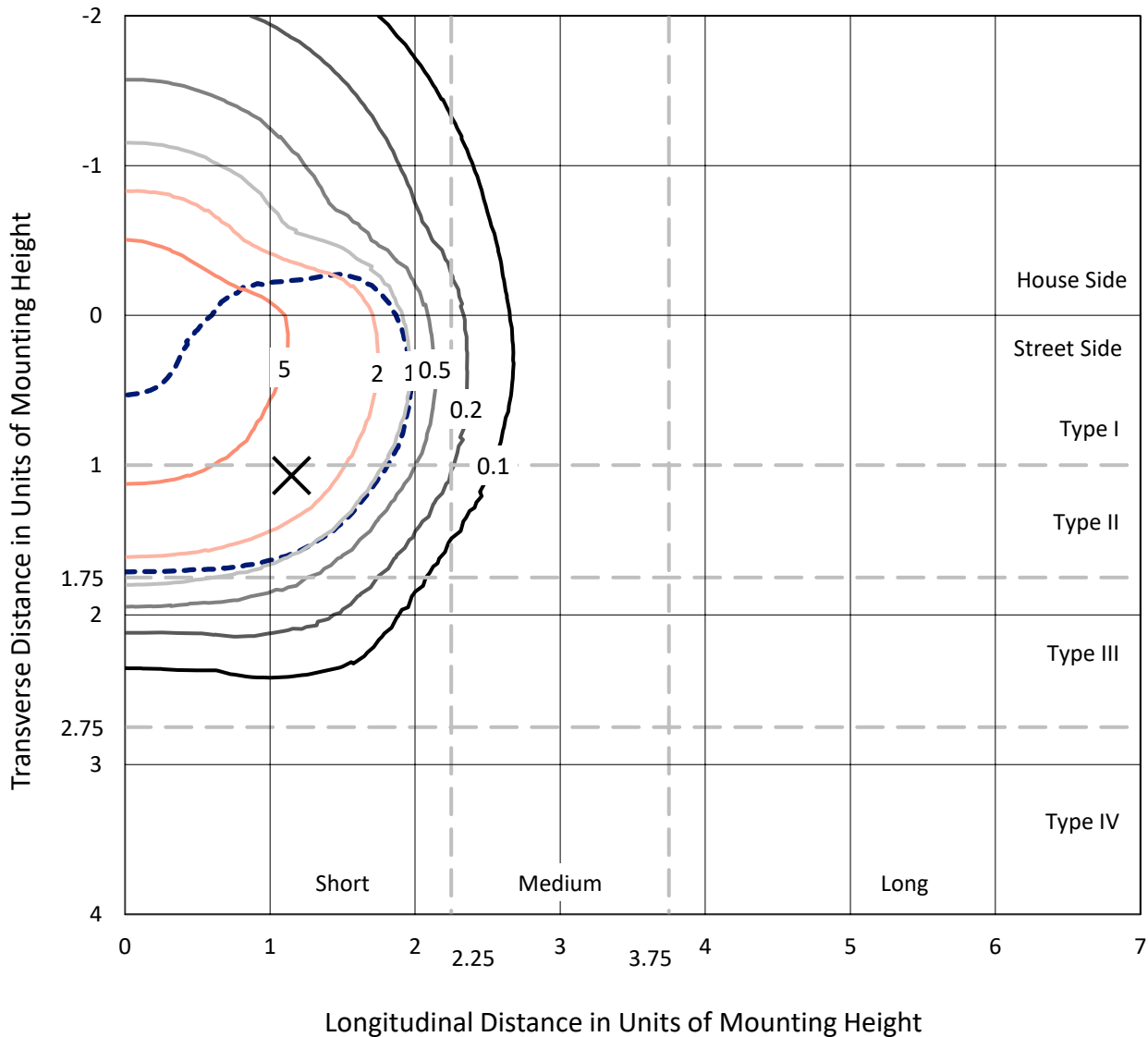
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640202
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Iso-Footcandle Lines of Horizontal Illumination

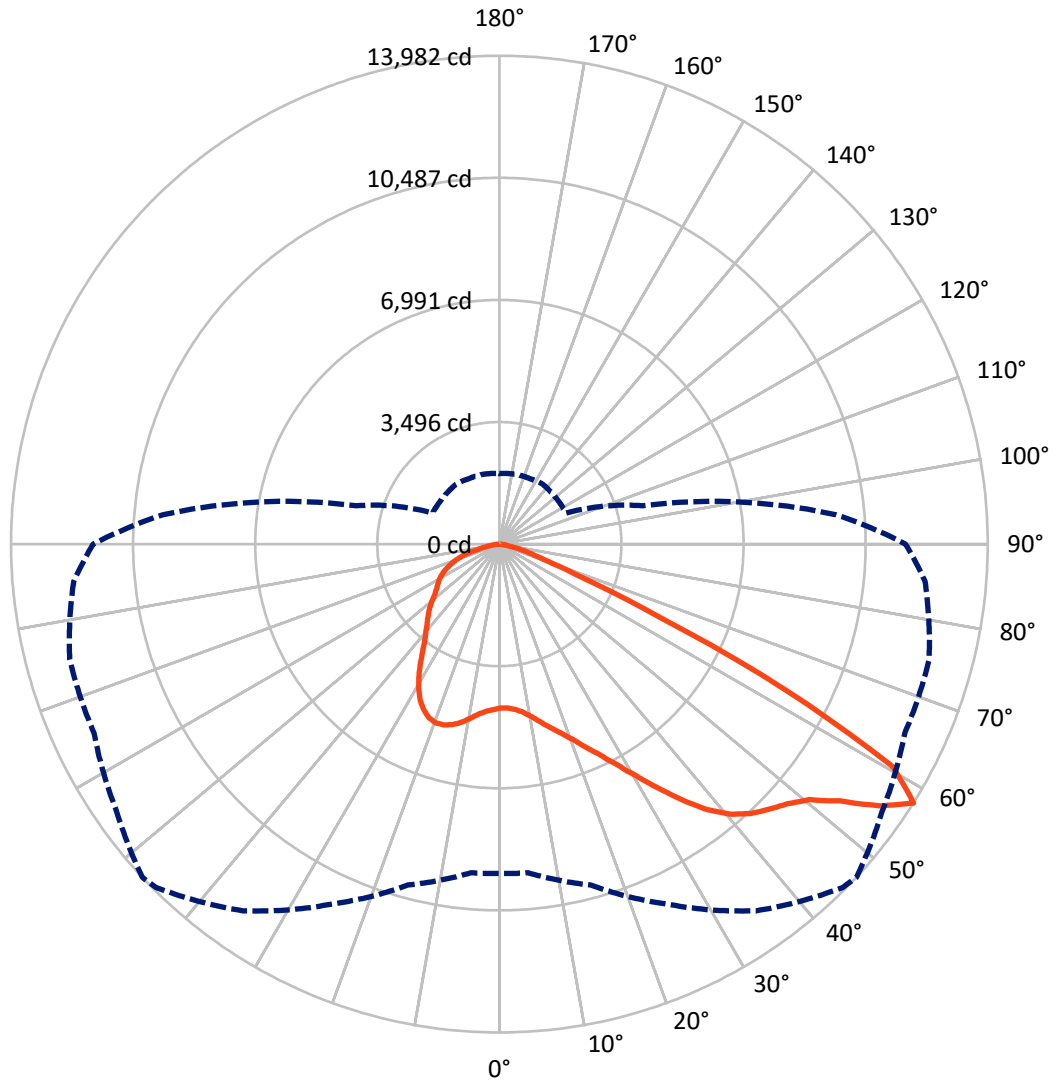
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - N/A

REPORT NUMBER: P640202
CATALOG NUMBER: GWS-SA5D-735-U-T3-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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 CATALOG NUMBER: GWS-SA5D-735-U-T3-W-GRSWH

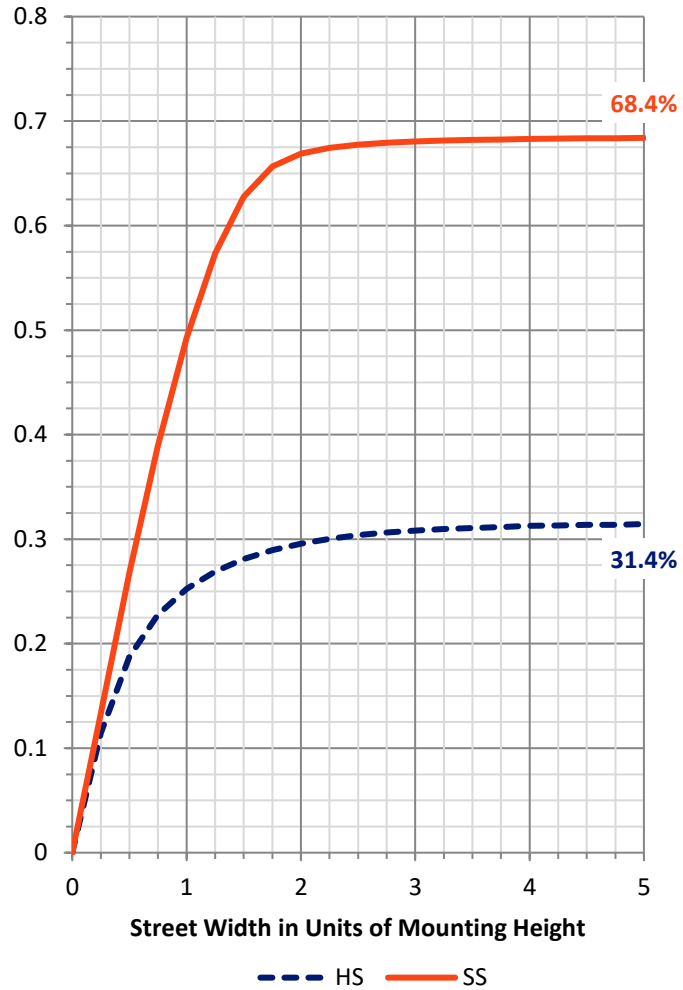
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8003.8 | 0.0 | 8003.8 |
| | % Fixture | 31.6 | 0.0 | 31.6 |
| Street Side | Lumens | 17284.9 | 0.0 | 17284.9 |
| | % Fixture | 68.4 | 0.0 | 68.4 |
| Total | Lumens | 25288.7 | 0.0 | 25288.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 462.6 | 1.8 |
| 10°-20° | 1521.4 | 6.0 |
| 20°-30° | 2739.4 | 10.8 |
| 30°-40° | 4137.6 | 16.4 |
| 40°-50° | 5571.8 | 22.0 |
| 50°-60° | 6695.3 | 26.5 |
| 60°-70° | 3260.7 | 12.9 |
| 70°-80° | 803.3 | 3.2 |
| 80°-90° | 96.5 | 0.4 |
| 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° | 25288.7 | 100.0 |
| 0°-180° | 25288.7 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P640202

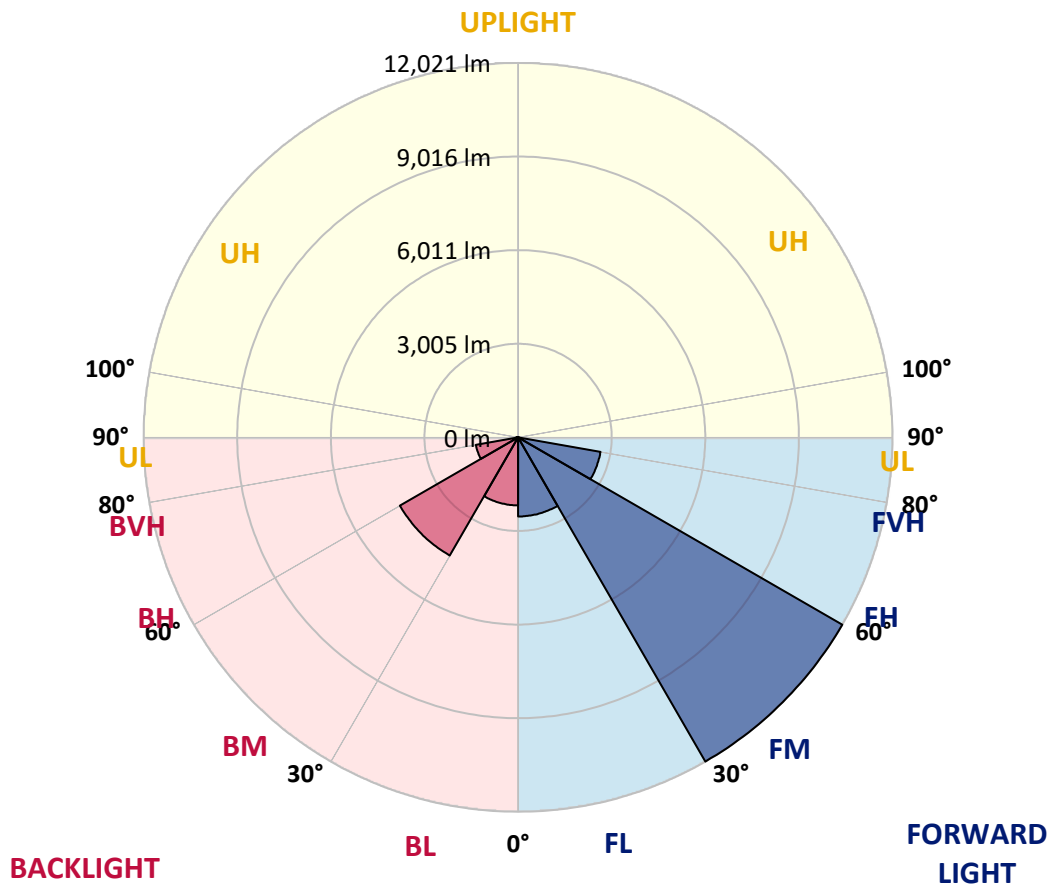
CATALOG NUMBER: GWS-SA5D-735-U-T3-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2540.1 | 10.0 | | | |
| FM (30°-60°) | 12021.1 | 47.5 | | | |
| FH (60°-80°) | 2687.4 | 10.6 | | | G2/5000 |
| FVH (80°-90°) | 36.3 | 0.1 | | | G1/100 |
| BL (0°-30°) | 2183.3 | 8.6 | B3/2500 | | |
| BM (30°-60°) | 4383.7 | 17.3 | B3/5000 | | |
| BH (60°-80°) | 1376.6 | 5.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 60.3 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P640202

CATALOG NUMBER: GWS-SA5D-735-U-T3-W-GRSWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4689.8 | 4689.8 | 4689.8 | 4689.8 | 4689.8 | 4689.8 | 4689.8 | 4689.8 | 4689.8 | 4689.8 | 4689.8 |
| 2.5° | 4681.3 | 4679.2 | 4679.2 | 4691.9 | 4691.9 | 4696.2 | 4702.6 | 4708.9 | 4711.1 | 4700.4 | 4677.1 |
| 5° | 4732.3 | 4732.3 | 4732.3 | 4742.9 | 4742.9 | 4747.2 | 4755.7 | 4757.8 | 4755.7 | 4738.7 | 4715.3 |
| 7.5° | 4813.0 | 4813.0 | 4815.1 | 4827.9 | 4838.5 | 4844.9 | 4859.7 | 4857.6 | 4851.3 | 4823.6 | 4793.9 |
| 10° | 4944.7 | 4951.1 | 4957.5 | 4972.3 | 4993.6 | 5008.4 | 5019.0 | 5019.0 | 5010.6 | 4968.1 | 4929.8 |
| 12.5° | 5131.6 | 5140.1 | 5146.5 | 5159.2 | 5176.2 | 5201.7 | 5225.1 | 5225.1 | 5214.5 | 5161.4 | 5104.0 |
| 15° | 5350.4 | 5358.9 | 5356.8 | 5361.0 | 5392.9 | 5429.0 | 5448.1 | 5460.8 | 5465.1 | 5390.8 | 5301.5 |
| 17.5° | 5601.0 | 5609.5 | 5601.0 | 5588.3 | 5592.5 | 5649.9 | 5683.9 | 5730.6 | 5758.2 | 5658.4 | 5516.1 |
| 20° | 5828.3 | 5819.8 | 5819.8 | 5828.3 | 5841.0 | 5911.1 | 5962.1 | 6038.6 | 6072.6 | 5951.5 | 5730.6 |
| 22.5° | 6068.3 | 6087.4 | 6078.9 | 6078.9 | 6129.9 | 6246.7 | 6308.3 | 6408.2 | 6444.3 | 6287.1 | 5989.7 |
| 25° | 6378.4 | 6395.4 | 6391.2 | 6395.4 | 6454.9 | 6620.6 | 6682.2 | 6866.9 | 6903.0 | 6677.9 | 6276.5 |
| 27.5° | 6718.3 | 6745.9 | 6758.6 | 6754.4 | 6849.9 | 7066.6 | 7143.1 | 7400.1 | 7465.9 | 7115.5 | 6582.3 |
| 30° | 7160.1 | 7189.8 | 7200.4 | 7196.2 | 7308.7 | 7604.0 | 7691.1 | 7984.2 | 8077.6 | 7633.7 | 6971.0 |
| 32.5° | 7671.9 | 7701.7 | 7733.5 | 7746.3 | 7890.7 | 8192.3 | 8317.6 | 8621.4 | 8755.2 | 8232.7 | 7440.4 |
| 35° | 8179.6 | 8205.1 | 8266.7 | 8366.5 | 8564.0 | 8872.0 | 8982.5 | 9281.9 | 9411.5 | 8855.0 | 8007.5 |
| 37.5° | 8740.3 | 8757.3 | 8810.4 | 8948.5 | 9233.1 | 9526.2 | 9636.7 | 9923.4 | 9938.3 | 9456.1 | 8649.0 |
| 40° | 9354.2 | 9354.2 | 9343.5 | 9479.5 | 9776.8 | 10072.1 | 10167.7 | 10333.3 | 10246.3 | 9919.2 | 9273.5 |
| 42.5° | 9874.5 | 9866.1 | 9874.5 | 10002.0 | 10222.9 | 10462.9 | 10545.7 | 10513.9 | 10403.4 | 10273.9 | 9838.4 |
| 45° | 10344.0 | 10350.3 | 10426.8 | 10524.5 | 10639.2 | 10781.5 | 10830.4 | 10649.8 | 10550.0 | 10558.5 | 10290.9 |
| 47.5° | 10662.6 | 10668.9 | 10847.3 | 11010.9 | 11081.0 | 11125.6 | 11104.4 | 10853.7 | 10802.7 | 10898.3 | 10639.2 |
| 50° | 10705.0 | 10739.0 | 11047.0 | 11382.6 | 11556.8 | 11563.1 | 11503.7 | 11197.8 | 11182.9 | 11291.3 | 10826.1 |
| 52.5° | 10713.5 | 10747.5 | 11132.0 | 11737.3 | 12189.7 | 12285.3 | 12217.3 | 11898.7 | 11743.7 | 11635.4 | 11055.5 |
| 55° | 10681.7 | 10719.9 | 11144.7 | 11975.2 | 12841.8 | 13224.1 | 13230.5 | 12780.2 | 12285.3 | 12213.1 | 11709.7 |
| 57.5° | 9430.6 | 9445.5 | 10103.9 | 11369.9 | 12816.3 | 13899.6 | 13982.4 | 13370.7 | 12805.7 | 12737.7 | 12234.3 |
| 60° | 6569.6 | 6629.1 | 7344.8 | 9016.4 | 10766.6 | 12676.1 | 12943.7 | 12765.3 | 12387.3 | 11892.4 | 10496.9 |
| 62.5° | 3290.1 | 3341.1 | 4059.0 | 5639.3 | 7425.6 | 8933.6 | 9220.4 | 9409.4 | 9498.6 | 8967.6 | 7147.3 |
| 65° | 1416.7 | 1455.0 | 1901.0 | 2946.0 | 4203.4 | 4932.0 | 5031.8 | 5259.1 | 5815.6 | 5189.0 | 3850.8 |
| 67.5° | 947.3 | 972.8 | 1200.1 | 1796.9 | 2476.6 | 2523.3 | 2508.5 | 2557.3 | 2678.4 | 2211.1 | 1739.6 |
| 70° | 726.4 | 747.7 | 900.6 | 1316.9 | 1779.9 | 1522.9 | 1442.2 | 1308.4 | 1421.0 | 1448.6 | 1410.3 |
| 72.5° | 526.8 | 543.7 | 658.4 | 898.5 | 1115.1 | 972.8 | 960.1 | 1028.0 | 1181.0 | 1223.4 | 1200.1 |
| 75° | 339.8 | 348.3 | 418.4 | 492.8 | 575.6 | 624.5 | 649.9 | 773.1 | 928.2 | 960.1 | 932.4 |
| 77.5° | 227.3 | 233.6 | 274.0 | 316.5 | 327.1 | 329.2 | 337.7 | 392.9 | 499.1 | 558.6 | 552.2 |
| 80° | 118.9 | 118.9 | 133.8 | 133.8 | 152.9 | 182.7 | 191.2 | 227.3 | 276.1 | 305.9 | 308.0 |
| 82.5° | 46.7 | 48.9 | 57.3 | 63.7 | 76.5 | 93.5 | 99.8 | 118.9 | 144.4 | 165.7 | 184.8 |
| 85° | 19.1 | 21.2 | 23.4 | 27.6 | 34.0 | 42.5 | 44.6 | 51.0 | 68.0 | 85.0 | 95.6 |
| 87.5° | 0.0 | 0.0 | 2.1 | 2.1 | 4.2 | 6.4 | 6.4 | 8.5 | 10.6 | 19.1 | 25.5 |
| 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-SA5D-735-U-T3-W-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4689.8 | 4689.8 | 4689.8 | 4689.8 | 4689.8 | 4689.8 | 4689.8 | 4689.8 | 4689.8 | 4689.8 | 4689.8 |
| 2.5° | 4704.7 | 4677.1 | 4704.7 | 4713.2 | 4736.6 | 4745.1 | 4730.2 | 4728.1 | 4728.1 | 4706.8 | 4700.4 |
| 5° | 4736.6 | 4711.1 | 4738.7 | 4751.4 | 4785.4 | 4806.6 | 4810.9 | 4827.9 | 4838.5 | 4830.0 | 4827.9 |
| 7.5° | 4815.1 | 4783.3 | 4813.0 | 4832.1 | 4876.7 | 4910.7 | 4925.6 | 4963.8 | 4991.4 | 4987.2 | 4985.1 |
| 10° | 4953.2 | 4910.7 | 4944.7 | 4976.6 | 5025.4 | 5065.8 | 5067.9 | 5089.1 | 5116.8 | 5108.3 | 5104.0 |
| 12.5° | 5112.5 | 5072.1 | 5110.4 | 5142.2 | 5199.6 | 5216.6 | 5189.0 | 5180.5 | 5184.7 | 5174.1 | 5165.6 |
| 15° | 5307.9 | 5250.6 | 5284.6 | 5320.7 | 5352.5 | 5333.4 | 5273.9 | 5250.6 | 5248.4 | 5233.6 | 5225.1 |
| 17.5° | 5503.3 | 5431.1 | 5456.6 | 5475.7 | 5460.8 | 5401.4 | 5327.0 | 5286.7 | 5267.6 | 5237.8 | 5229.3 |
| 20° | 5696.6 | 5605.3 | 5601.0 | 5586.2 | 5518.2 | 5409.9 | 5310.0 | 5229.3 | 5180.5 | 5140.1 | 5125.2 |
| 22.5° | 5917.5 | 5790.1 | 5726.3 | 5658.4 | 5509.7 | 5333.4 | 5182.6 | 5067.9 | 4989.3 | 4938.3 | 4921.3 |
| 25° | 6155.4 | 5974.9 | 5843.2 | 5707.2 | 5424.7 | 5169.9 | 4959.6 | 4802.4 | 4708.9 | 4653.7 | 4634.6 |
| 27.5° | 6391.2 | 6142.7 | 5945.1 | 5713.6 | 5254.8 | 4934.1 | 4651.6 | 4439.2 | 4345.7 | 4301.1 | 4286.3 |
| 30° | 6709.8 | 6365.7 | 6066.2 | 5630.8 | 5031.8 | 4607.0 | 4254.4 | 4039.9 | 3978.3 | 3946.4 | 3933.7 |
| 32.5° | 7077.2 | 6648.2 | 6227.6 | 5456.6 | 4747.2 | 4224.7 | 3853.0 | 3704.3 | 3661.8 | 3600.2 | 3598.1 |
| 35° | 7561.5 | 7051.7 | 6380.5 | 5199.6 | 4388.2 | 3814.7 | 3545.0 | 3438.8 | 3362.3 | 3264.6 | 3256.1 |
| 37.5° | 8126.5 | 7555.1 | 6463.4 | 4872.5 | 3969.8 | 3477.0 | 3315.6 | 3196.6 | 3073.5 | 2943.9 | 2926.9 |
| 40° | 8710.6 | 8143.5 | 6469.8 | 4485.9 | 3559.8 | 3254.0 | 3118.1 | 2963.0 | 2810.1 | 2665.6 | 2646.5 |
| 42.5° | 9324.4 | 8691.5 | 6357.2 | 4039.9 | 3224.3 | 3060.7 | 2922.6 | 2727.2 | 2555.2 | 2457.5 | 2446.9 |
| 45° | 9872.4 | 9133.3 | 6102.3 | 3570.5 | 2975.7 | 2899.3 | 2723.0 | 2512.7 | 2421.4 | 2351.3 | 2336.4 |
| 47.5° | 10303.6 | 9426.4 | 5758.2 | 3149.9 | 2774.0 | 2733.6 | 2504.2 | 2395.9 | 2325.8 | 2262.1 | 2247.2 |
| 50° | 10516.0 | 9492.2 | 5310.0 | 2807.9 | 2587.1 | 2538.2 | 2381.0 | 2298.2 | 2251.5 | 2200.5 | 2187.7 |
| 52.5° | 10779.4 | 9566.6 | 4923.5 | 2521.2 | 2404.4 | 2338.5 | 2279.1 | 2213.2 | 2179.2 | 2147.4 | 2136.8 |
| 55° | 11384.7 | 9846.9 | 4719.6 | 2291.8 | 2230.2 | 2200.5 | 2192.0 | 2136.8 | 2126.1 | 2104.9 | 2085.8 |
| 57.5° | 11631.1 | 9666.4 | 4237.4 | 2104.9 | 2092.2 | 2096.4 | 2117.6 | 2066.7 | 2056.0 | 2030.6 | 2017.8 |
| 60° | 9354.2 | 7306.6 | 2869.5 | 1943.5 | 1977.5 | 2005.1 | 2026.3 | 1975.3 | 1960.5 | 1956.2 | 1939.2 |
| 62.5° | 5994.0 | 4494.4 | 2002.9 | 1792.7 | 1843.6 | 1877.6 | 1890.4 | 1841.5 | 1830.9 | 1864.9 | 1867.0 |
| 65° | 3120.2 | 2449.0 | 1624.9 | 1631.2 | 1673.7 | 1724.7 | 1750.2 | 1733.2 | 1728.9 | 1765.1 | 1767.2 |
| 67.5° | 1593.0 | 1497.4 | 1416.7 | 1440.1 | 1474.1 | 1539.9 | 1599.4 | 1673.7 | 1699.2 | 1703.5 | 1705.6 |
| 70° | 1357.2 | 1314.8 | 1274.4 | 1289.3 | 1325.4 | 1361.5 | 1418.8 | 1455.0 | 1412.5 | 1401.9 | 1397.6 |
| 72.5° | 1155.5 | 1123.6 | 1104.5 | 1121.5 | 1140.6 | 1134.2 | 1117.2 | 1134.2 | 1140.6 | 1142.7 | 1144.8 |
| 75° | 898.5 | 875.1 | 860.2 | 862.4 | 862.4 | 839.0 | 807.1 | 788.0 | 766.8 | 749.8 | 749.8 |
| 77.5° | 550.1 | 554.4 | 569.2 | 567.1 | 565.0 | 556.5 | 524.6 | 507.6 | 456.7 | 441.8 | 441.8 |
| 80° | 314.4 | 320.7 | 335.6 | 339.8 | 339.8 | 329.2 | 297.4 | 278.2 | 254.9 | 244.3 | 242.1 |
| 82.5° | 191.2 | 199.7 | 208.2 | 212.4 | 214.5 | 201.8 | 174.2 | 159.3 | 146.6 | 135.9 | 135.9 |
| 85° | 99.8 | 104.1 | 112.6 | 114.7 | 108.3 | 95.6 | 80.7 | 74.3 | 61.6 | 59.5 | 59.5 |
| 87.5° | 27.6 | 29.7 | 34.0 | 27.6 | 25.5 | 19.1 | 10.6 | 8.5 | 4.2 | 2.1 | 2.1 |
| 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)