

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: P642659

Luminaire Tested: GWS-SA6D-735-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-735-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18945 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

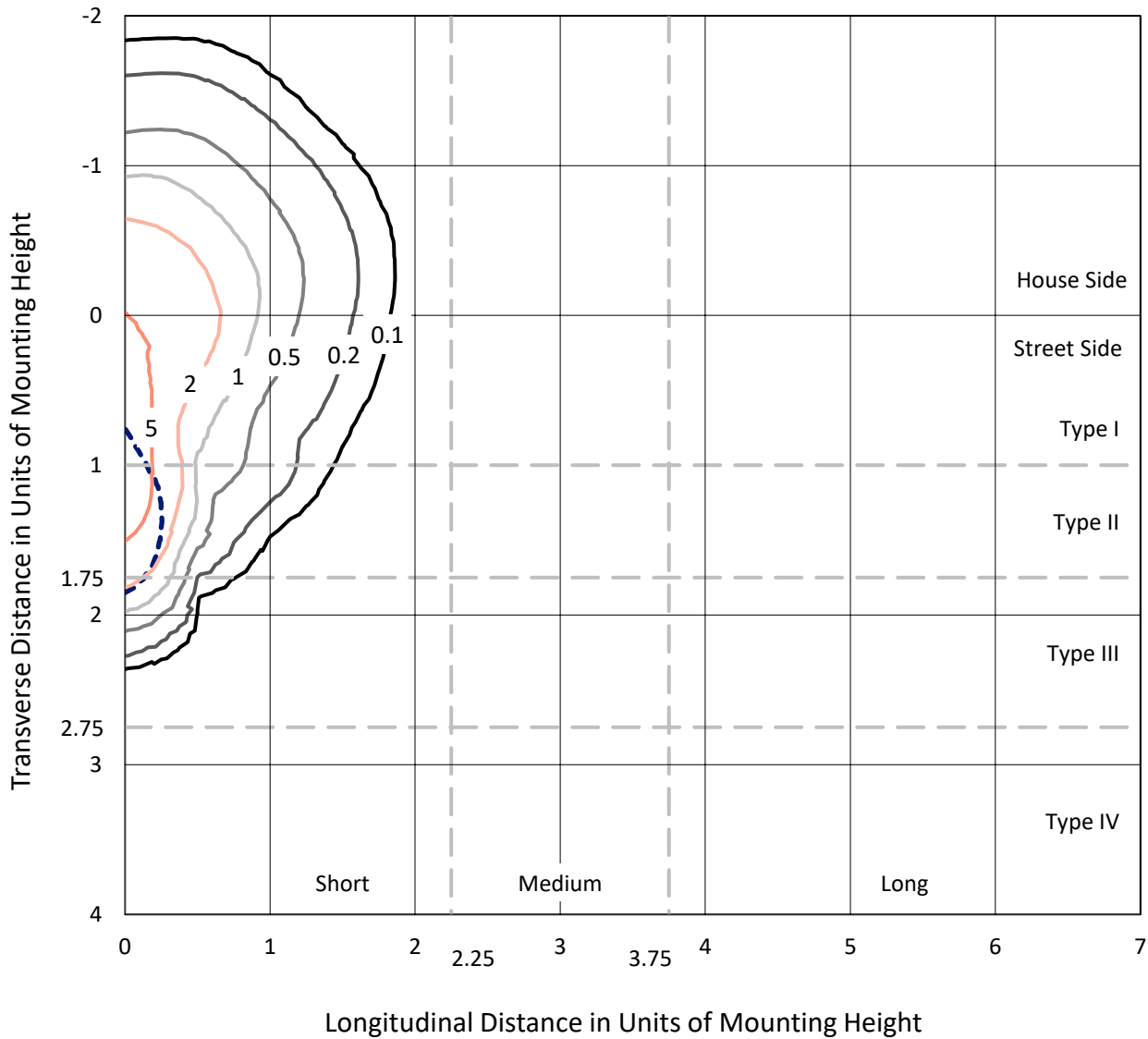
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

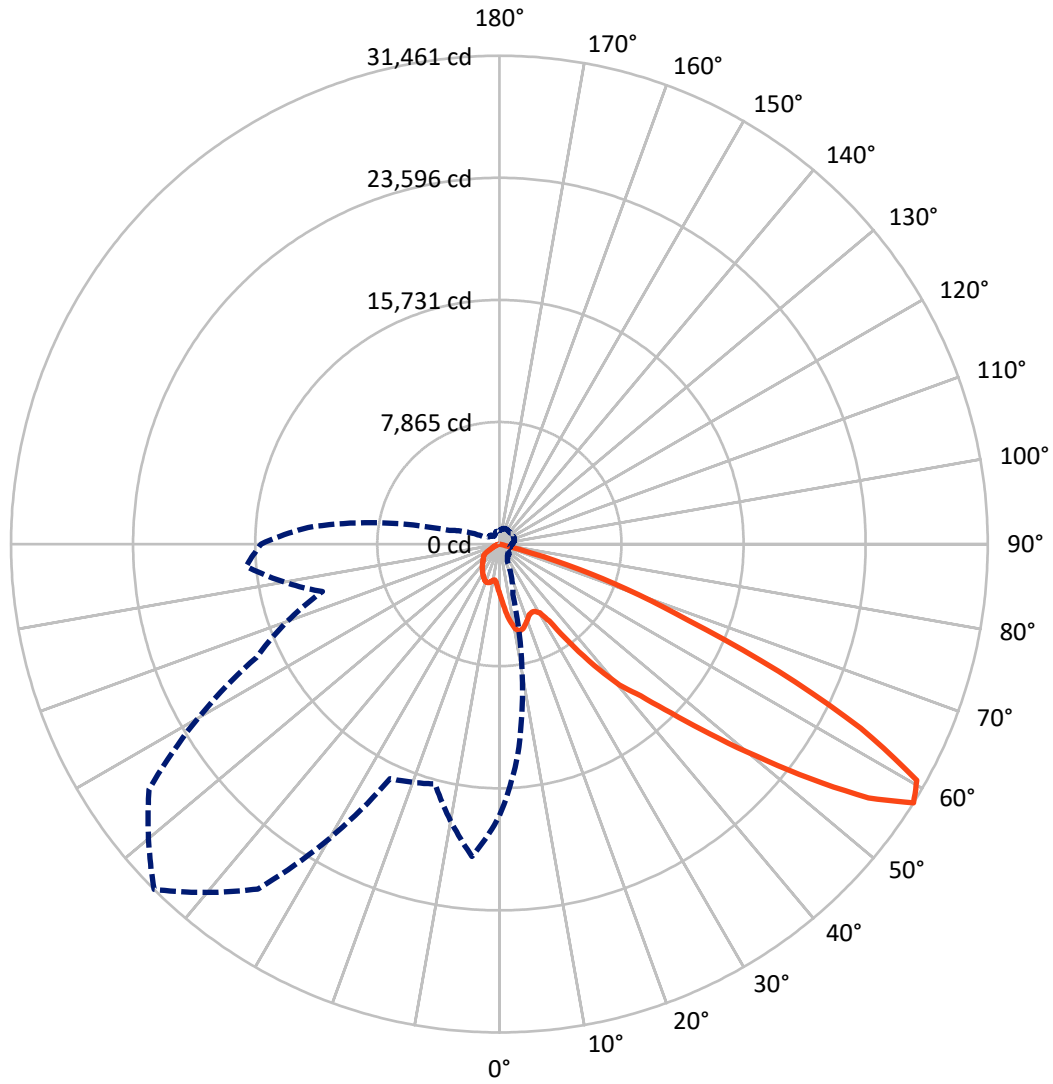
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4081.4 | 0.0 | 4081.4 |
| | % Fixture | 21.5 | 0.0 | 21.5 |
| Street Side | Lumens | 14863.6 | 0.0 | 14863.6 |
| | % Fixture | 78.5 | 0.0 | 78.5 |
| Total | Lumens | 18945.0 | 0.0 | 18945.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 318.2 | 1.7 |
| 10°-20° | 1046.9 | 5.5 |
| 20°-30° | 1699.0 | 9.0 |
| 30°-40° | 2607.6 | 13.8 |
| 40°-50° | 4164.5 | 22.0 |
| 50°-60° | 5831.1 | 30.8 |
| 60°-70° | 2989.8 | 15.8 |
| 70°-80° | 287.8 | 1.5 |
| 80°-90° | 0.0 | 0.0 |
| 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° | 18945.0 | 100.0 |
| 0°-180° | 18945.0 | 100.0 |

Coefficient of Utilization



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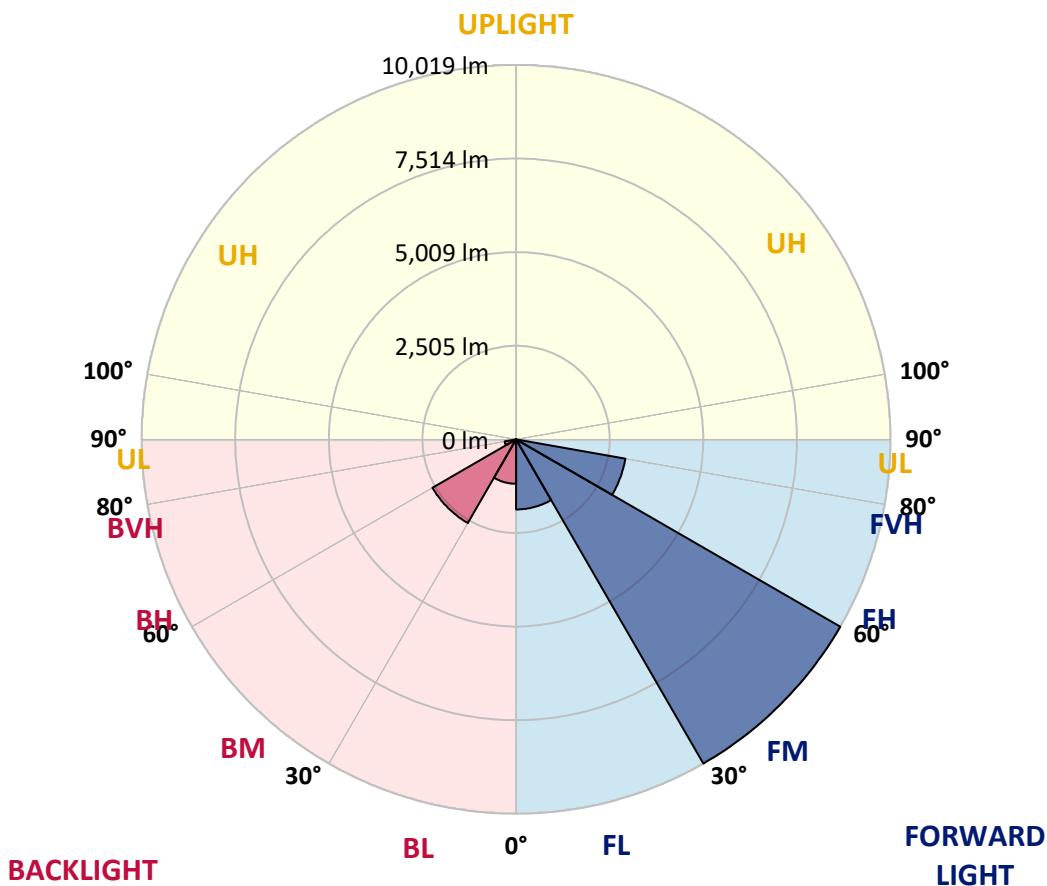
CATALOG NUMBER: GWS-SA6D-735-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1875.7 | 9.9 | | | |
| FM (30°-60°) | 10018.6 | 52.9 | | | |
| FH (60°-80°) | 2969.4 | 15.7 | | | G2/5000 |
| FVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1188.4 | 6.3 | B3/2500 | | |
| BM (30°-60°) | 2584.7 | 13.6 | B3/5000 | | |
| BH (60°-80°) | 308.2 | 1.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3219.0 | 3219.0 | 3219.0 | 3219.0 | 3219.0 | 3219.0 | 3219.0 | 3219.0 | 3219.0 | 3219.0 | 3219.0 |
| 2.5° | 3576.1 | 3568.5 | 3543.2 | 3457.1 | 3403.9 | 3320.3 | 3259.6 | 3181.0 | 3094.9 | 3041.7 | 2988.6 |
| 5° | 3956.0 | 3935.8 | 3867.4 | 3669.9 | 3517.9 | 3353.3 | 3221.6 | 3077.2 | 2922.7 | 2821.4 | 2727.7 |
| 7.5° | 4320.8 | 4290.4 | 4199.2 | 3864.9 | 3634.4 | 3398.9 | 3211.4 | 3001.2 | 2783.4 | 2631.5 | 2515.0 |
| 10° | 4677.9 | 4609.5 | 4465.1 | 4054.8 | 3743.3 | 3459.6 | 3239.3 | 2998.7 | 2742.9 | 2550.4 | 2421.2 |
| 12.5° | 4971.7 | 4921.0 | 4723.4 | 4234.6 | 3834.5 | 3472.3 | 3201.3 | 2978.4 | 2806.2 | 2677.0 | 2558.0 |
| 15° | 5224.9 | 5169.2 | 4981.8 | 4396.7 | 3913.0 | 3421.7 | 3041.7 | 2846.7 | 2874.6 | 2925.2 | 2823.9 |
| 17.5° | 5457.9 | 5399.7 | 5197.1 | 4531.0 | 3943.4 | 3297.5 | 2818.9 | 2725.2 | 2879.7 | 3069.6 | 3031.6 |
| 20° | 5698.5 | 5632.7 | 5384.5 | 4639.9 | 3933.3 | 3102.5 | 2593.5 | 2621.3 | 2839.1 | 3056.9 | 3077.2 |
| 22.5° | 5979.7 | 5911.3 | 5622.5 | 4779.2 | 3925.7 | 2869.5 | 2398.4 | 2530.1 | 2763.2 | 2948.0 | 2983.5 |
| 25° | 6352.0 | 6270.9 | 5954.3 | 4984.3 | 3945.9 | 2656.8 | 2259.2 | 2441.5 | 2634.0 | 2801.1 | 2821.4 |
| 27.5° | 6843.3 | 6739.5 | 6336.8 | 5237.6 | 3989.0 | 2489.6 | 2198.4 | 2319.9 | 2469.4 | 2618.8 | 2636.5 |
| 30° | 7484.1 | 7352.4 | 6774.9 | 5457.9 | 3968.7 | 2373.1 | 2157.8 | 2198.4 | 2287.0 | 2408.6 | 2411.1 |
| 32.5° | 8233.7 | 8053.9 | 7266.3 | 5647.9 | 3794.0 | 2287.0 | 2102.1 | 2074.3 | 2094.5 | 2188.2 | 2206.0 |
| 35° | 9115.1 | 8882.1 | 7808.3 | 5827.7 | 3474.8 | 2119.9 | 2000.8 | 1907.1 | 1899.5 | 1945.1 | 1988.2 |
| 37.5° | 10125.7 | 9847.1 | 8492.1 | 6058.2 | 3097.5 | 1945.1 | 1851.4 | 1757.7 | 1717.2 | 1740.0 | 1805.8 |
| 40° | 11057.7 | 10748.7 | 9206.3 | 6336.8 | 2712.5 | 1788.1 | 1676.6 | 1580.4 | 1532.3 | 1539.9 | 1620.9 |
| 42.5° | 12151.8 | 11832.7 | 10080.1 | 6701.5 | 2393.4 | 1681.7 | 1494.3 | 1395.5 | 1332.2 | 1367.6 | 1461.4 |
| 45° | 13813.2 | 13451.1 | 11354.0 | 7018.1 | 2140.1 | 1656.4 | 1334.7 | 1195.4 | 1165.0 | 1225.8 | 1337.3 |
| 47.5° | 16082.5 | 15639.3 | 13104.1 | 7210.5 | 1924.8 | 1679.2 | 1223.3 | 1033.3 | 1040.9 | 1109.3 | 1220.8 |
| 50° | 18334.1 | 17855.4 | 15127.7 | 6957.3 | 1747.5 | 1633.6 | 1167.6 | 906.7 | 954.8 | 1015.6 | 1116.9 |
| 52.5° | 19881.5 | 19258.5 | 16112.9 | 6225.3 | 1585.5 | 1461.4 | 1162.5 | 787.7 | 878.8 | 899.1 | 985.2 |
| 55° | 19942.3 | 19174.9 | 15608.9 | 4908.3 | 1365.1 | 1233.4 | 1109.3 | 688.9 | 795.3 | 802.9 | 876.3 |
| 57.5° | 17480.6 | 16786.6 | 13641.0 | 3371.0 | 1213.2 | 904.2 | 883.9 | 602.8 | 653.4 | 716.7 | 762.3 |
| 60° | 13299.1 | 12709.0 | 10201.6 | 1544.9 | 921.9 | 574.9 | 605.3 | 519.2 | 488.8 | 582.5 | 628.1 |
| 62.5° | 8145.1 | 7767.7 | 6119.0 | 683.8 | 587.6 | 306.5 | 367.2 | 412.8 | 367.2 | 402.7 | 440.7 |
| 65° | 3234.2 | 3067.1 | 2322.5 | 291.3 | 240.6 | 154.5 | 167.2 | 240.6 | 258.3 | 283.7 | 319.1 |
| 67.5° | 562.3 | 531.9 | 390.0 | 129.2 | 98.8 | 93.7 | 81.0 | 111.4 | 157.0 | 174.8 | 202.6 |
| 70° | 73.4 | 70.9 | 63.3 | 53.2 | 50.7 | 45.6 | 35.5 | 70.9 | 106.4 | 111.4 | 129.2 |
| 72.5° | 17.7 | 15.2 | 15.2 | 12.7 | 15.2 | 5.1 | 5.1 | 38.0 | 76.0 | 78.5 | 91.2 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.7 | 48.1 | 53.2 | 63.3 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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-SA6D-735-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3219.0 | 3219.0 | 3219.0 | 3219.0 | 3219.0 | 3219.0 | 3219.0 | 3219.0 | 3219.0 | 3219.0 | 3219.0 |
| 2.5° | 2945.5 | 2894.9 | 2877.1 | 2851.8 | 2818.9 | 2829.0 | 2783.4 | 2768.2 | 2791.0 | 2821.4 | 2813.8 |
| 5° | 2677.0 | 2621.3 | 2583.3 | 2525.1 | 2515.0 | 2492.2 | 2477.0 | 2456.7 | 2482.0 | 2517.5 | 2525.1 |
| 7.5° | 2464.3 | 2416.2 | 2378.2 | 2360.5 | 2347.8 | 2337.7 | 2307.3 | 2292.1 | 2292.1 | 2307.3 | 2319.9 |
| 10° | 2373.1 | 2337.7 | 2330.1 | 2335.1 | 2355.4 | 2352.9 | 2325.0 | 2304.7 | 2279.4 | 2266.7 | 2281.9 |
| 12.5° | 2499.8 | 2441.5 | 2431.4 | 2433.9 | 2459.2 | 2456.7 | 2426.3 | 2401.0 | 2395.9 | 2401.0 | 2449.1 |
| 15° | 2715.0 | 2626.4 | 2560.5 | 2547.9 | 2560.5 | 2555.5 | 2532.7 | 2517.5 | 2525.1 | 2598.5 | 2679.6 |
| 17.5° | 2907.5 | 2770.8 | 2651.7 | 2606.1 | 2603.6 | 2596.0 | 2573.2 | 2568.1 | 2606.1 | 2742.9 | 2861.9 |
| 20° | 2963.2 | 2829.0 | 2659.3 | 2601.1 | 2588.4 | 2580.8 | 2555.5 | 2563.1 | 2611.2 | 2775.8 | 2877.1 |
| 22.5° | 2889.8 | 2760.6 | 2583.3 | 2525.1 | 2515.0 | 2512.4 | 2487.1 | 2497.2 | 2537.7 | 2682.1 | 2765.7 |
| 25° | 2750.5 | 2641.6 | 2456.7 | 2406.0 | 2406.0 | 2401.0 | 2378.2 | 2383.3 | 2408.6 | 2535.2 | 2616.3 |
| 27.5° | 2580.8 | 2477.0 | 2322.5 | 2271.8 | 2279.4 | 2287.0 | 2259.2 | 2251.6 | 2271.8 | 2390.8 | 2439.0 |
| 30° | 2385.8 | 2312.3 | 2190.8 | 2145.2 | 2142.6 | 2173.0 | 2135.0 | 2124.9 | 2152.8 | 2246.5 | 2256.6 |
| 32.5° | 2195.8 | 2160.4 | 2074.3 | 2038.8 | 2041.3 | 2046.4 | 2026.1 | 2026.1 | 2051.5 | 2102.1 | 2099.6 |
| 35° | 2010.9 | 1988.2 | 1973.0 | 1947.6 | 1945.1 | 1935.0 | 1935.0 | 1940.0 | 1967.9 | 1985.6 | 1952.7 |
| 37.5° | 1833.7 | 1856.5 | 1874.2 | 1848.9 | 1828.6 | 1828.6 | 1828.6 | 1851.4 | 1876.7 | 1869.1 | 1813.4 |
| 40° | 1676.6 | 1724.8 | 1780.5 | 1752.6 | 1704.5 | 1702.0 | 1712.1 | 1750.1 | 1788.1 | 1742.5 | 1691.8 |
| 42.5° | 1542.4 | 1603.2 | 1681.7 | 1666.5 | 1613.3 | 1605.7 | 1613.3 | 1661.4 | 1691.8 | 1633.6 | 1577.9 |
| 45° | 1410.7 | 1486.7 | 1580.4 | 1580.4 | 1522.1 | 1514.5 | 1517.1 | 1580.4 | 1598.1 | 1529.7 | 1458.8 |
| 47.5° | 1299.3 | 1382.8 | 1481.6 | 1481.6 | 1433.5 | 1418.3 | 1431.0 | 1496.8 | 1509.5 | 1413.2 | 1347.4 |
| 50° | 1192.9 | 1284.1 | 1393.0 | 1385.4 | 1352.5 | 1339.8 | 1362.6 | 1433.5 | 1418.3 | 1311.9 | 1243.5 |
| 52.5° | 1058.7 | 1154.9 | 1304.3 | 1311.9 | 1294.2 | 1296.7 | 1324.6 | 1370.2 | 1327.1 | 1198.0 | 1139.7 |
| 55° | 937.1 | 1035.9 | 1185.3 | 1225.8 | 1225.8 | 1223.3 | 1235.9 | 1271.4 | 1235.9 | 1081.5 | 1010.5 |
| 57.5° | 805.4 | 889.0 | 1013.1 | 1023.2 | 1030.8 | 1002.9 | 1020.7 | 1068.8 | 1051.1 | 919.4 | 878.8 |
| 60° | 661.0 | 731.9 | 802.9 | 810.5 | 777.5 | 719.3 | 752.2 | 807.9 | 820.6 | 721.8 | 676.2 |
| 62.5° | 468.5 | 536.9 | 620.5 | 620.5 | 587.6 | 529.3 | 572.4 | 620.5 | 602.8 | 501.5 | 473.6 |
| 65° | 349.5 | 412.8 | 476.1 | 504.0 | 476.1 | 435.6 | 468.5 | 504.0 | 476.1 | 392.6 | 352.0 |
| 67.5° | 225.4 | 268.5 | 306.5 | 329.2 | 334.3 | 329.2 | 344.4 | 334.3 | 301.4 | 245.7 | 222.9 |
| 70° | 136.8 | 159.6 | 179.8 | 200.1 | 215.3 | 222.9 | 230.5 | 207.7 | 174.8 | 144.4 | 136.8 |
| 72.5° | 98.8 | 119.0 | 136.8 | 152.0 | 169.7 | 174.8 | 174.8 | 159.6 | 129.2 | 101.3 | 93.7 |
| 75° | 68.4 | 86.1 | 101.3 | 111.4 | 126.6 | 131.7 | 131.7 | 119.0 | 96.2 | 73.4 | 65.8 |
| 77.5° | 2.5 | 17.7 | 17.7 | 15.2 | 20.3 | 25.3 | 25.3 | 30.4 | 27.9 | 20.3 | 17.7 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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-SA6D-735-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 3219.0 | 3219.0 | 3219.0 | 3219.0 | 3219.0 | 3219.0 | 3219.0 | 3219.0 | 3219.0 | 3219.0 | 3219.0 |
| 2.5° | 2829.0 | 2920.2 | 2945.5 | 3039.2 | 3122.8 | 3206.4 | 3307.7 | 3368.5 | 3459.6 | 3523.0 | 3558.4 |
| 5° | 2550.4 | 2626.4 | 2717.6 | 2856.9 | 3001.2 | 3160.8 | 3353.3 | 3520.4 | 3730.6 | 3885.1 | 3935.8 |
| 7.5° | 2347.8 | 2446.6 | 2552.9 | 2727.7 | 2925.2 | 3138.0 | 3409.0 | 3682.5 | 4004.2 | 4214.4 | 4348.6 |
| 10° | 2309.8 | 2411.1 | 2552.9 | 2725.2 | 2932.8 | 3176.0 | 3507.8 | 3862.3 | 4265.0 | 4520.8 | 4672.8 |
| 12.5° | 2492.2 | 2601.1 | 2661.8 | 2740.4 | 2897.4 | 3168.4 | 3593.9 | 4044.7 | 4518.3 | 4796.9 | 4959.0 |
| 15° | 2760.6 | 2856.9 | 2758.1 | 2659.3 | 2760.6 | 3087.3 | 3642.0 | 4196.7 | 4741.2 | 5062.8 | 5230.0 |
| 17.5° | 2945.5 | 2953.1 | 2737.8 | 2527.6 | 2555.5 | 2940.4 | 3659.7 | 4348.6 | 4979.2 | 5316.1 | 5490.9 |
| 20° | 2927.8 | 2867.0 | 2649.2 | 2416.2 | 2330.1 | 2750.5 | 3639.5 | 4482.8 | 5219.9 | 5571.9 | 5744.1 |
| 22.5° | 2791.0 | 2720.1 | 2535.2 | 2307.3 | 2140.1 | 2525.1 | 3604.0 | 4604.4 | 5440.2 | 5840.4 | 6002.5 |
| 25° | 2626.4 | 2550.4 | 2398.4 | 2198.4 | 2018.5 | 2307.3 | 3576.1 | 4771.6 | 5718.8 | 6189.9 | 6316.5 |
| 27.5° | 2433.9 | 2368.1 | 2238.9 | 2094.5 | 1967.9 | 2142.6 | 3568.5 | 4991.9 | 6055.6 | 6615.4 | 6704.0 |
| 30° | 2246.5 | 2185.7 | 2084.4 | 2000.8 | 1947.6 | 2046.4 | 3543.2 | 5227.5 | 6458.3 | 7104.2 | 7200.4 |
| 32.5° | 2066.7 | 2005.9 | 1942.6 | 1929.9 | 1932.4 | 2010.9 | 3457.1 | 5460.5 | 6937.0 | 7813.3 | 7884.2 |
| 35° | 1912.2 | 1841.3 | 1815.9 | 1846.3 | 1902.0 | 1950.2 | 3214.0 | 5652.9 | 7451.1 | 8585.8 | 8644.0 |
| 37.5° | 1765.3 | 1694.4 | 1691.8 | 1765.3 | 1826.1 | 1856.5 | 2927.8 | 5842.9 | 8145.1 | 9370.9 | 9444.4 |
| 40° | 1631.0 | 1560.1 | 1585.5 | 1674.1 | 1722.2 | 1737.4 | 2580.8 | 6131.6 | 8879.6 | 10199.1 | 10158.6 |
| 42.5° | 1517.1 | 1443.6 | 1458.8 | 1572.8 | 1615.8 | 1656.4 | 2261.7 | 6372.2 | 9586.2 | 10984.2 | 10971.6 |
| 45° | 1405.6 | 1349.9 | 1339.8 | 1463.9 | 1501.9 | 1664.0 | 2028.7 | 6557.1 | 10495.4 | 11984.6 | 12004.9 |
| 47.5° | 1296.7 | 1253.7 | 1256.2 | 1309.4 | 1403.1 | 1702.0 | 1831.1 | 6678.7 | 11815.0 | 13570.1 | 13218.1 |
| 50° | 1198.0 | 1165.0 | 1192.9 | 1132.1 | 1339.8 | 1653.8 | 1661.4 | 6653.4 | 13289.0 | 15089.7 | 14383.1 |
| 52.5° | 1089.1 | 1081.5 | 1094.1 | 947.2 | 1238.5 | 1458.8 | 1501.9 | 6316.5 | 13980.4 | 16128.1 | 15725.4 |
| 55° | 977.6 | 975.1 | 873.8 | 757.3 | 1035.9 | 1165.0 | 1286.6 | 5270.5 | 13957.6 | 16680.2 | 17169.0 |
| 57.5° | 845.9 | 825.7 | 663.6 | 618.0 | 805.4 | 810.5 | 1172.6 | 3452.0 | 12369.6 | 15358.2 | 16371.2 |
| 60° | 640.8 | 625.6 | 486.3 | 501.5 | 562.3 | 519.2 | 934.6 | 1719.7 | 9244.3 | 11964.4 | 13106.6 |
| 62.5° | 443.2 | 423.0 | 362.2 | 387.5 | 362.2 | 296.3 | 572.4 | 851.0 | 5599.8 | 7555.0 | 8590.9 |
| 65° | 324.2 | 301.4 | 248.2 | 212.7 | 169.7 | 169.7 | 217.8 | 326.7 | 2168.0 | 3211.4 | 3872.5 |
| 67.5° | 200.1 | 190.0 | 146.9 | 106.4 | 103.8 | 111.4 | 114.0 | 162.1 | 349.5 | 557.2 | 681.3 |
| 70° | 129.2 | 119.0 | 98.8 | 68.4 | 63.3 | 65.8 | 68.4 | 76.0 | 88.6 | 96.2 | 116.5 |
| 72.5° | 88.6 | 83.6 | 70.9 | 38.0 | 30.4 | 32.9 | 35.5 | 35.5 | 43.1 | 40.5 | 48.1 |
| 75° | 63.3 | 58.3 | 50.7 | 17.7 | 10.1 | 12.7 | 15.2 | 12.7 | 15.2 | 10.1 | 12.7 |
| 77.5° | 17.7 | 17.7 | 12.7 | 2.5 | 0.0 | 2.5 | 5.1 | 5.1 | 2.5 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 2.5 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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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| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3219.0 | 3219.0 | 3219.0 | 3219.0 | 3219.0 | 3219.0 | 3219.0 | 3219.0 | 3219.0 | 3219.0 |
| 2.5° | 3649.6 | 3707.8 | 3730.6 | 3697.7 | 3725.6 | 3680.0 | 3662.3 | 3593.9 | 3588.8 | 3576.1 |
| 5° | 4140.9 | 4272.6 | 4351.1 | 4399.3 | 4343.5 | 4282.8 | 4191.6 | 4034.6 | 3986.4 | 3956.0 |
| 7.5° | 4624.7 | 4829.8 | 4964.1 | 5027.4 | 5012.2 | 4888.1 | 4723.4 | 4460.0 | 4366.3 | 4320.8 |
| 10° | 5045.1 | 5295.8 | 5457.9 | 5536.4 | 5503.5 | 5394.6 | 5159.1 | 4829.8 | 4705.7 | 4677.9 |
| 12.5° | 5338.9 | 5569.4 | 5680.8 | 5749.2 | 5751.7 | 5708.7 | 5485.8 | 5154.0 | 5007.1 | 4971.7 |
| 15° | 5523.8 | 5622.5 | 5625.1 | 5665.6 | 5736.5 | 5832.8 | 5728.9 | 5435.1 | 5278.1 | 5224.9 |
| 17.5° | 5640.3 | 5531.4 | 5419.9 | 5430.1 | 5546.6 | 5802.4 | 5908.7 | 5683.3 | 5516.2 | 5457.9 |
| 20° | 5723.9 | 5379.4 | 5171.7 | 5174.3 | 5293.3 | 5680.8 | 6032.8 | 5923.9 | 5751.7 | 5698.5 |
| 22.5° | 5777.0 | 5245.2 | 4948.9 | 4941.3 | 5067.9 | 5536.4 | 6146.8 | 6210.1 | 6040.4 | 5979.7 |
| 25° | 5885.9 | 5181.9 | 4814.6 | 4857.7 | 4969.1 | 5490.9 | 6301.3 | 6590.0 | 6433.0 | 6352.0 |
| 27.5° | 6081.0 | 5245.2 | 4802.0 | 4900.7 | 5027.4 | 5625.1 | 6569.8 | 7096.6 | 6934.5 | 6843.3 |
| 30° | 6417.8 | 5483.3 | 4997.0 | 5133.7 | 5285.7 | 5977.1 | 7020.6 | 7803.2 | 7570.2 | 7484.1 |
| 32.5° | 6959.8 | 5977.1 | 5599.8 | 5893.5 | 6040.4 | 6554.6 | 7696.8 | 8595.9 | 8406.0 | 8233.7 |
| 35° | 7706.9 | 7104.2 | 7061.1 | 7744.9 | 7709.5 | 7648.7 | 8527.5 | 9568.5 | 9282.3 | 9115.1 |
| 37.5° | 8735.2 | 8917.6 | 9236.7 | 9915.4 | 9892.6 | 9429.2 | 9619.1 | 10487.8 | 10340.9 | 10125.7 |
| 40° | 10019.3 | 10406.8 | 10948.8 | 11921.3 | 11617.4 | 11034.9 | 10958.9 | 11430.0 | 11310.9 | 11057.7 |
| 42.5° | 10776.6 | 11445.2 | 12478.5 | 13352.3 | 13109.2 | 12091.0 | 12004.9 | 12688.7 | 12427.9 | 12151.8 |
| 45° | 11128.6 | 12291.1 | 14317.2 | 15500.0 | 14763.0 | 12792.6 | 12759.6 | 14329.9 | 14183.0 | 13813.2 |
| 47.5° | 11290.7 | 13144.6 | 16470.0 | 18260.6 | 16882.8 | 13408.0 | 13289.0 | 16710.6 | 16518.1 | 16082.5 |
| 50° | 11470.5 | 14322.3 | 19063.5 | 21459.4 | 19443.4 | 14104.5 | 14190.6 | 18929.2 | 18848.2 | 18334.1 |
| 52.5° | 11865.6 | 15568.4 | 22257.2 | 25116.6 | 22548.4 | 15196.1 | 15738.1 | 21021.2 | 20474.2 | 19881.5 |
| 55° | 12458.3 | 16925.9 | 25580.1 | 28852.3 | 25716.8 | 16662.5 | 17412.2 | 22133.1 | 20598.3 | 19942.3 |
| 57.5° | 11802.3 | 17265.3 | 27548.0 | 31461.0 | 27122.5 | 16667.6 | 15996.4 | 20205.7 | 18116.3 | 17480.6 |
| 60° | 9365.9 | 16062.3 | 26790.7 | 30896.2 | 25924.5 | 14801.0 | 12248.0 | 15776.1 | 13724.6 | 13299.1 |
| 62.5° | 6331.7 | 13471.3 | 23584.3 | 26129.7 | 22188.8 | 11642.7 | 7960.2 | 10259.9 | 8497.1 | 8145.1 |
| 65° | 3469.8 | 10049.7 | 19055.9 | 19767.6 | 17366.6 | 8132.4 | 4095.3 | 4452.5 | 3391.3 | 3234.2 |
| 67.5° | 957.4 | 6995.3 | 14020.9 | 13114.2 | 12184.7 | 5295.8 | 1058.7 | 795.3 | 567.3 | 562.3 |
| 70° | 240.6 | 4627.2 | 8400.9 | 8659.2 | 7471.4 | 3391.3 | 202.6 | 96.2 | 76.0 | 73.4 |
| 72.5° | 101.3 | 1990.7 | 3986.4 | 4581.6 | 3824.3 | 1570.3 | 73.4 | 27.9 | 22.8 | 17.7 |
| 75° | 12.7 | 159.6 | 339.4 | 514.1 | 352.0 | 169.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 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 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)