

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: P639204

Luminaire Tested: GWS-SA5B-735-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639204
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-735-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14600.5 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

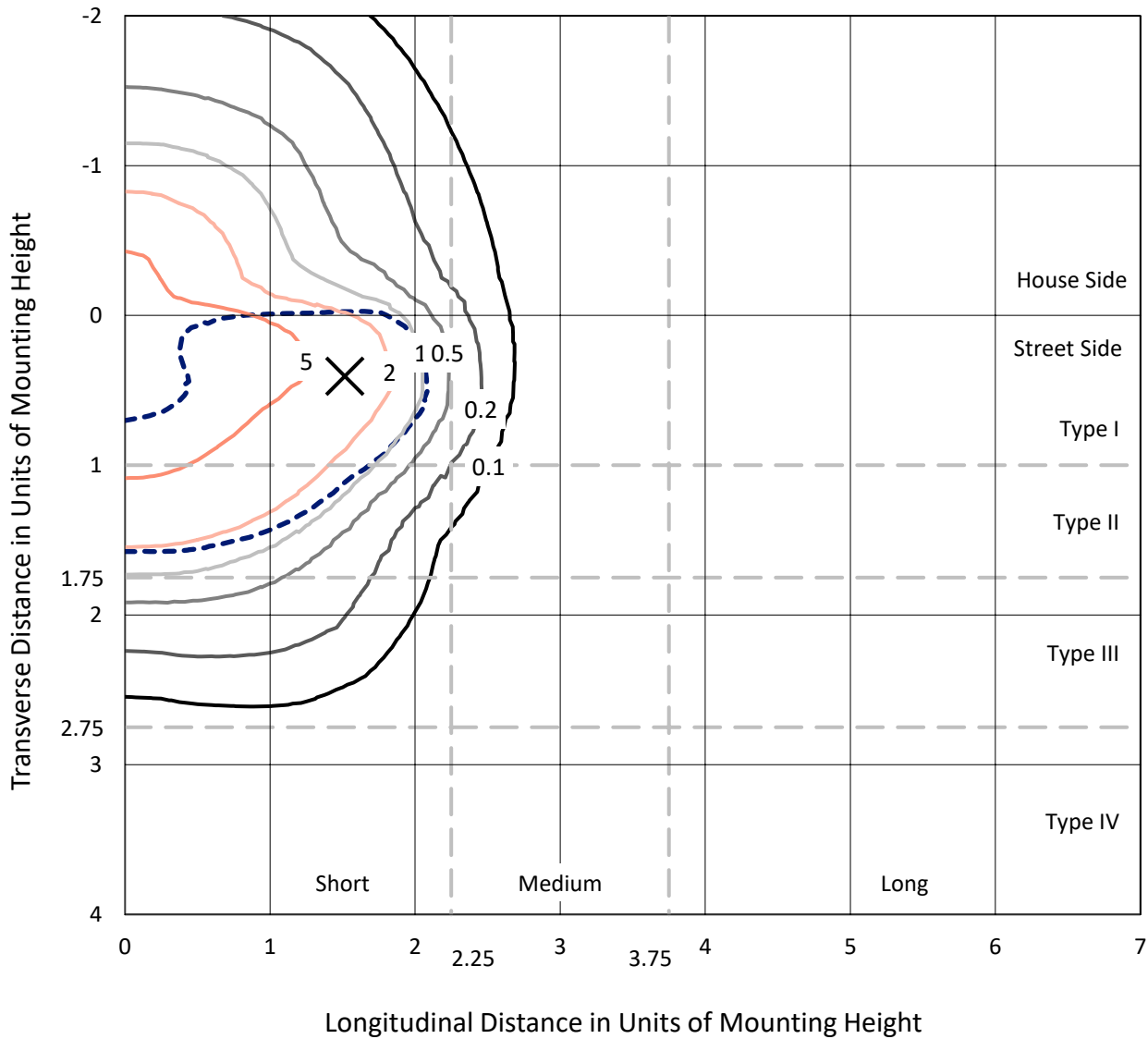
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

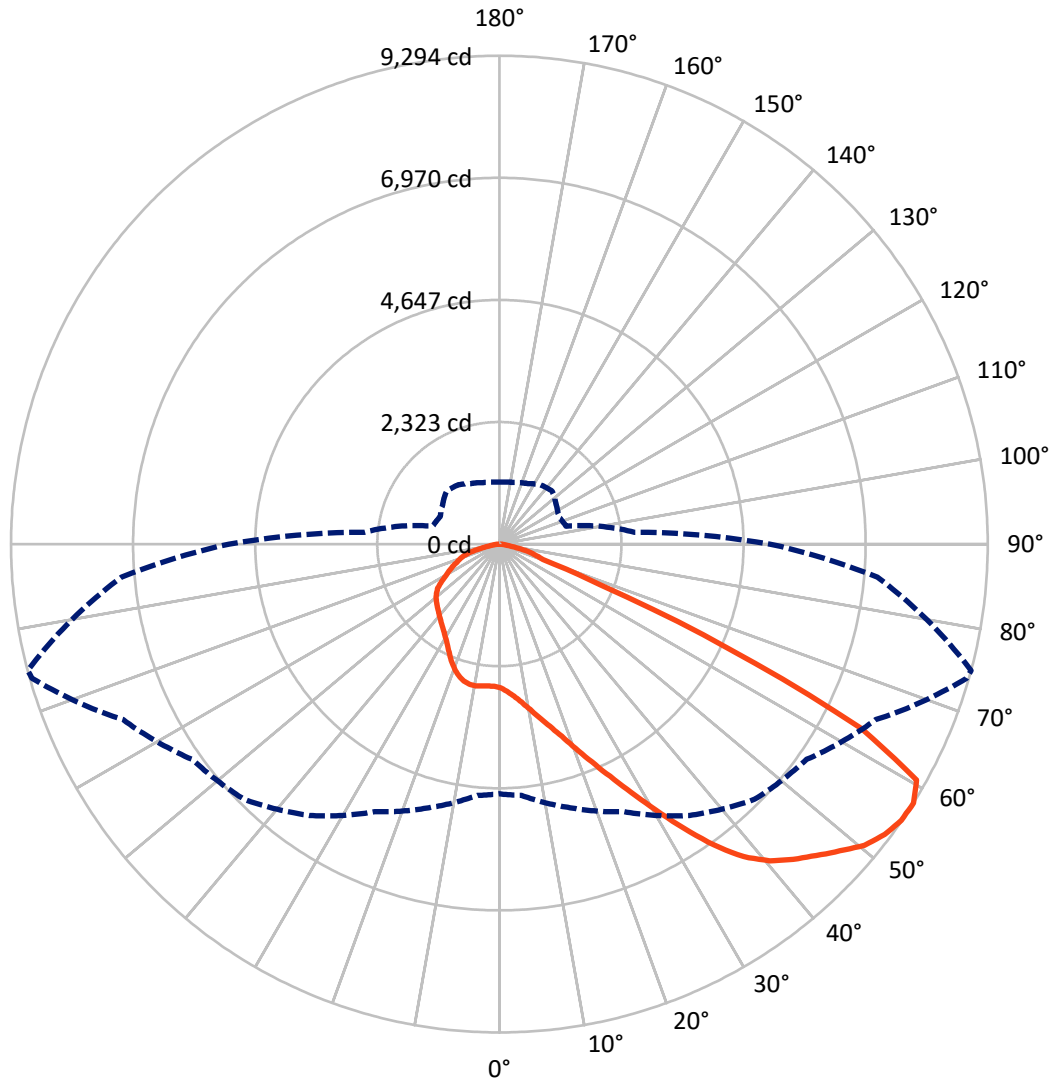
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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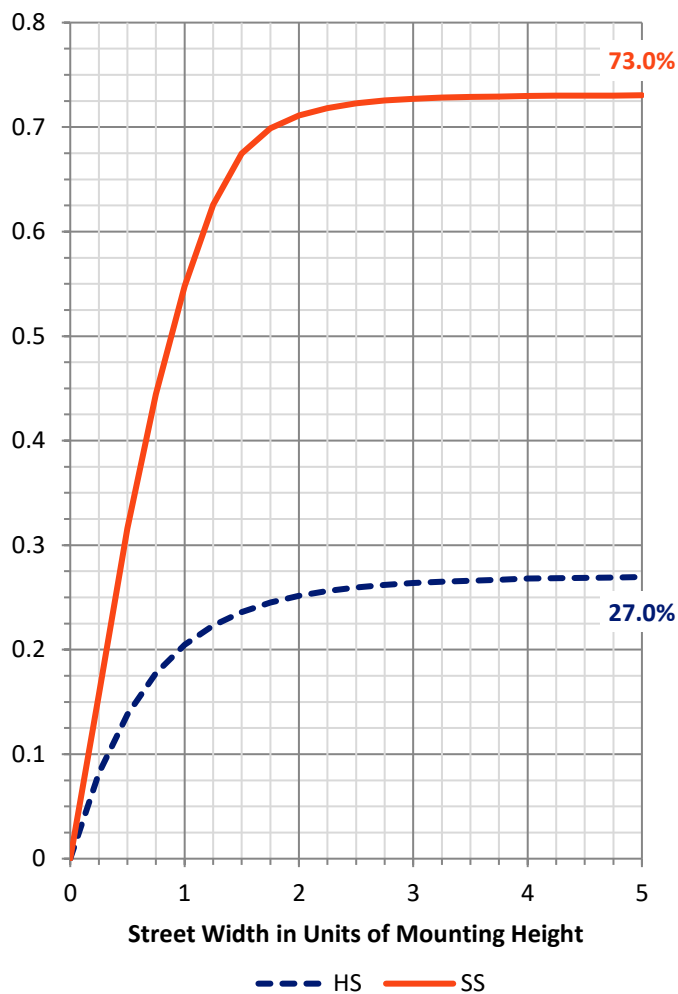
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3949.7 | 0.0 | 3949.7 |
| | % Fixture | 27.1 | 0.0 | 27.1 |
| Street Side | Lumens | 10650.8 | 0.0 | 10650.8 |
| | % Fixture | 72.9 | 0.0 | 72.9 |
| Total | Lumens | 14600.5 | 0.0 | 14600.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 273.6 | 1.9 |
| 10°-20° | 871.2 | 6.0 |
| 20°-30° | 1545.0 | 10.6 |
| 30°-40° | 2365.1 | 16.2 |
| 40°-50° | 3293.2 | 22.6 |
| 50°-60° | 3773.4 | 25.8 |
| 60°-70° | 1938.8 | 13.3 |
| 70°-80° | 488.1 | 3.3 |
| 80°-90° | 52.2 | 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° | 14600.5 | 100.0 |
| 0°-180° | 14600.5 | 100.0 |

Coefficient of Utilization



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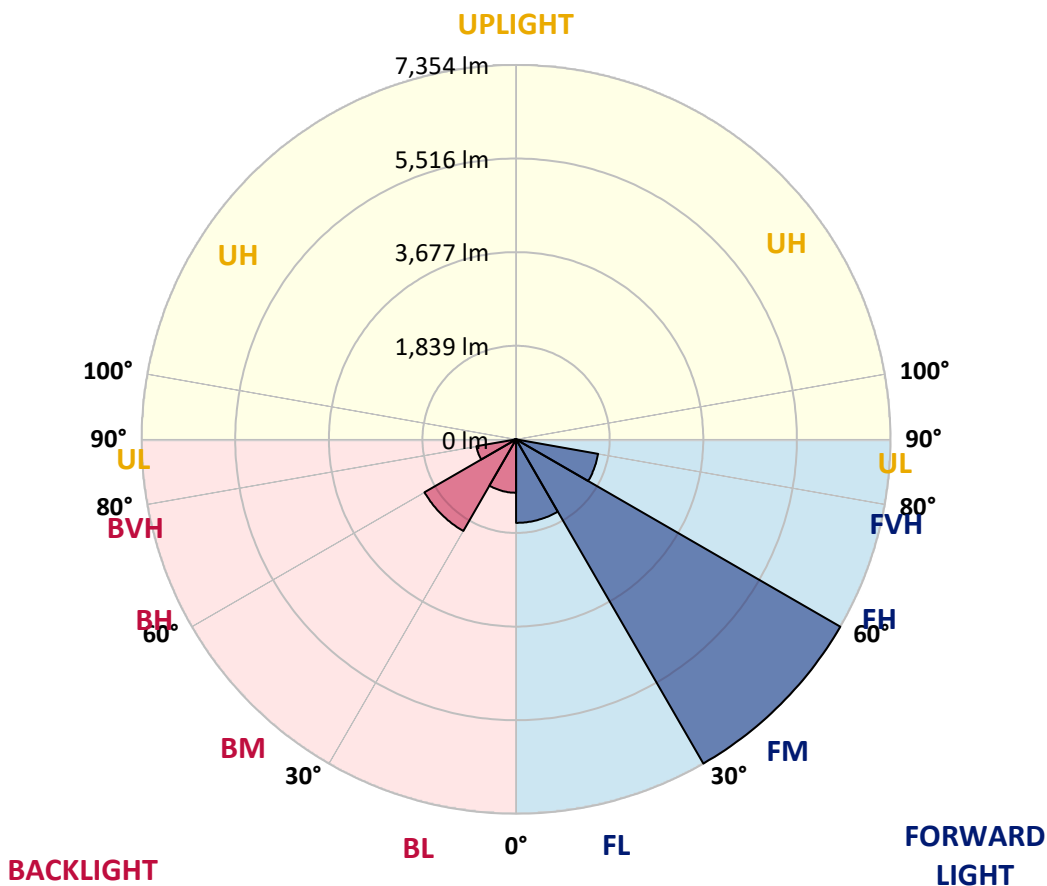
CATALOG NUMBER: GWS-SA5B-735-U-T2-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1640.5 | 11.2 | | | |
| FM (30°-60°) | 7354.4 | 50.4 | | | |
| FH (60°-80°) | 1636.6 | 11.2 | | | G1/1800 |
| FVH (80°-90°) | 19.3 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1049.3 | 7.2 | B3/2500 | | |
| BM (30°-60°) | 2077.2 | 14.2 | B2/2500 | | |
| BH (60°-80°) | 790.4 | 5.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 32.9 | 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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 74° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2734.3 | 2734.3 | 2734.3 | 2734.3 | 2734.3 | 2734.3 | 2734.3 | 2734.3 | 2734.3 | 2734.3 | 2734.3 |
| 2.5° | 2937.7 | 2945.2 | 2937.7 | 2950.3 | 2925.1 | 2913.8 | 2886.2 | 2844.8 | 2812.2 | 2807.1 | 2770.7 |
| 5° | 3166.2 | 3182.5 | 3172.5 | 3167.4 | 3133.5 | 3108.4 | 3067.0 | 2984.2 | 2916.4 | 2906.3 | 2834.8 |
| 7.5° | 3313.1 | 3324.4 | 3324.4 | 3328.1 | 3315.6 | 3286.7 | 3242.8 | 3144.8 | 3049.4 | 3034.4 | 2926.4 |
| 10° | 3362.0 | 3370.8 | 3387.1 | 3418.5 | 3443.6 | 3452.4 | 3423.6 | 3329.4 | 3212.6 | 3197.6 | 3046.9 |
| 12.5° | 3373.3 | 3383.4 | 3408.5 | 3466.2 | 3535.3 | 3598.1 | 3603.1 | 3534.0 | 3403.5 | 3387.1 | 3186.3 |
| 15° | 3394.7 | 3404.7 | 3438.6 | 3510.2 | 3611.9 | 3732.4 | 3806.5 | 3758.8 | 3614.4 | 3596.8 | 3344.5 |
| 17.5° | 3392.2 | 3403.5 | 3453.7 | 3549.1 | 3685.9 | 3860.4 | 4003.6 | 4023.6 | 3874.3 | 3844.1 | 3524.0 |
| 20° | 3385.9 | 3395.9 | 3449.9 | 3566.7 | 3736.2 | 3975.9 | 4234.6 | 4338.8 | 4178.1 | 4150.4 | 3733.6 |
| 22.5° | 3436.1 | 3447.4 | 3488.8 | 3585.5 | 3762.5 | 4065.1 | 4448.0 | 4699.1 | 4538.4 | 4499.5 | 3974.7 |
| 25° | 3549.1 | 3565.4 | 3590.5 | 3657.1 | 3810.2 | 4144.2 | 4666.4 | 5107.1 | 4942.6 | 4896.2 | 4237.1 |
| 27.5° | 3723.6 | 3743.7 | 3778.8 | 3810.2 | 3916.9 | 4244.6 | 4883.6 | 5564.1 | 5399.6 | 5350.6 | 4514.5 |
| 30° | 3937.0 | 3963.4 | 4008.6 | 4029.9 | 4102.7 | 4392.7 | 5119.6 | 6034.8 | 5939.4 | 5871.6 | 4827.1 |
| 32.5° | 4232.0 | 4268.5 | 4311.1 | 4317.4 | 4361.4 | 4617.5 | 5353.1 | 6501.9 | 6500.6 | 6452.9 | 5182.4 |
| 35° | 4616.2 | 4655.1 | 4663.9 | 4672.7 | 4694.0 | 4926.3 | 5635.6 | 6927.5 | 7091.9 | 7036.7 | 5569.1 |
| 37.5° | 5035.5 | 5092.0 | 5105.8 | 5066.9 | 5097.0 | 5297.9 | 5953.2 | 7268.9 | 7606.6 | 7547.6 | 5943.2 |
| 40° | 5483.7 | 5506.3 | 5544.0 | 5482.5 | 5520.1 | 5723.5 | 6264.6 | 7487.4 | 7990.8 | 7928.0 | 6238.2 |
| 42.5° | 5805.1 | 5846.5 | 5903.0 | 5880.4 | 5901.8 | 6087.6 | 6483.0 | 7592.8 | 8264.5 | 8201.7 | 6450.4 |
| 45° | 6154.1 | 6166.7 | 6203.1 | 6198.1 | 6210.6 | 6383.9 | 6640.0 | 7639.3 | 8509.3 | 8452.8 | 6631.2 |
| 47.5° | 6457.9 | 6476.8 | 6500.6 | 6473.0 | 6445.4 | 6558.4 | 6768.0 | 7679.5 | 8791.8 | 8724.0 | 6820.7 |
| 50° | 6750.4 | 6766.8 | 6795.6 | 6715.3 | 6612.3 | 6641.2 | 6830.8 | 7734.7 | 9056.7 | 9009.0 | 6970.1 |
| 52.5° | 6804.4 | 6822.0 | 6957.6 | 6973.9 | 6842.1 | 6740.4 | 6941.3 | 7856.5 | 9212.3 | 9182.2 | 7024.1 |
| 55° | 6125.2 | 6156.6 | 6426.5 | 6736.6 | 7061.8 | 7029.1 | 7118.3 | 7920.5 | 9273.8 | 9281.4 | 7120.8 |
| 57.5° | 4754.3 | 4799.5 | 5193.7 | 5619.3 | 6303.5 | 6869.7 | 7140.9 | 7904.2 | 9252.5 | 9293.9 | 7220.0 |
| 60° | 3118.5 | 3144.8 | 3611.9 | 4088.9 | 4798.2 | 5581.6 | 6391.4 | 7610.4 | 9062.9 | 9121.9 | 7194.9 |
| 62.5° | 1883.1 | 1913.3 | 2288.6 | 2650.2 | 3068.3 | 3591.8 | 4335.0 | 6116.4 | 7596.6 | 7728.4 | 5762.4 |
| 65° | 1314.4 | 1354.6 | 1683.5 | 1981.1 | 2125.4 | 2017.5 | 2195.7 | 3416.0 | 4733.0 | 4788.2 | 3521.5 |
| 67.5° | 952.9 | 980.5 | 1250.4 | 1604.4 | 1763.9 | 1424.9 | 1085.9 | 1512.8 | 2061.4 | 2081.5 | 1452.5 |
| 70° | 623.9 | 655.3 | 900.1 | 1221.5 | 1440.0 | 1155.0 | 812.3 | 818.5 | 867.5 | 877.5 | 843.6 |
| 72.5° | 342.7 | 361.6 | 556.2 | 811.0 | 851.2 | 690.5 | 634.0 | 680.4 | 714.3 | 714.3 | 723.1 |
| 75° | 177.0 | 193.3 | 227.2 | 267.4 | 322.6 | 377.9 | 457.0 | 526.0 | 562.4 | 564.9 | 561.2 |
| 77.5° | 90.4 | 96.7 | 121.8 | 131.8 | 144.4 | 168.2 | 218.4 | 280.0 | 312.6 | 325.2 | 322.6 |
| 80° | 42.7 | 45.2 | 51.5 | 60.3 | 74.1 | 94.2 | 118.0 | 140.6 | 160.7 | 163.2 | 177.0 |
| 82.5° | 22.6 | 25.1 | 27.6 | 32.6 | 40.2 | 50.2 | 69.0 | 82.9 | 95.4 | 97.9 | 109.2 |
| 85° | 8.8 | 10.0 | 11.3 | 12.6 | 17.6 | 21.3 | 28.9 | 38.9 | 47.7 | 47.7 | 56.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 2.5 | 5.0 | 6.3 | 8.8 | 8.8 | 15.1 |
| 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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CATALOG NUMBER: GWS-SA5B-735-U-T2-W-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2734.3 | 2734.3 | 2734.3 | 2734.3 | 2734.3 | 2734.3 | 2734.3 | 2734.3 | 2734.3 | 2734.3 | 2734.3 |
| 2.5° | 2761.9 | 2725.5 | 2709.2 | 2682.9 | 2661.5 | 2637.7 | 2618.8 | 2605.0 | 2596.2 | 2591.2 | 2586.2 |
| 5° | 2807.1 | 2751.9 | 2708.0 | 2655.2 | 2618.8 | 2583.7 | 2554.8 | 2534.7 | 2524.7 | 2517.1 | 2512.1 |
| 7.5° | 2877.4 | 2803.4 | 2720.5 | 2638.9 | 2574.9 | 2518.4 | 2482.0 | 2460.6 | 2446.8 | 2441.8 | 2438.0 |
| 10° | 2974.1 | 2871.2 | 2734.3 | 2605.0 | 2509.6 | 2448.1 | 2423.0 | 2412.9 | 2414.2 | 2411.7 | 2410.4 |
| 12.5° | 3083.3 | 2942.7 | 2730.6 | 2544.8 | 2439.3 | 2402.9 | 2404.1 | 2420.5 | 2439.3 | 2444.3 | 2445.6 |
| 15° | 3201.3 | 3013.0 | 2694.1 | 2466.9 | 2384.1 | 2387.8 | 2420.5 | 2459.4 | 2494.5 | 2508.3 | 2510.9 |
| 17.5° | 3329.4 | 3072.0 | 2627.6 | 2381.5 | 2338.9 | 2379.0 | 2439.3 | 2503.3 | 2554.8 | 2577.4 | 2583.7 |
| 20° | 3472.5 | 3122.3 | 2533.5 | 2297.4 | 2296.2 | 2362.7 | 2450.6 | 2534.7 | 2600.0 | 2630.1 | 2635.1 |
| 22.5° | 3624.4 | 3153.6 | 2418.0 | 2219.6 | 2252.2 | 2341.4 | 2441.8 | 2529.7 | 2598.7 | 2628.9 | 2635.1 |
| 25° | 3777.6 | 3163.7 | 2291.2 | 2148.0 | 2207.0 | 2307.5 | 2399.1 | 2469.4 | 2534.7 | 2561.1 | 2566.1 |
| 27.5° | 3920.7 | 3134.8 | 2170.6 | 2086.5 | 2165.6 | 2257.3 | 2318.8 | 2356.4 | 2401.6 | 2421.7 | 2425.5 |
| 30° | 4066.3 | 3077.1 | 2068.9 | 2037.6 | 2119.2 | 2188.2 | 2215.8 | 2218.3 | 2235.9 | 2235.9 | 2238.4 |
| 32.5° | 4213.2 | 2991.7 | 1979.8 | 1989.9 | 2061.4 | 2106.6 | 2110.4 | 2081.5 | 2060.2 | 2025.0 | 2023.8 |
| 35° | 4382.7 | 2905.1 | 1907.0 | 1935.9 | 1993.6 | 2021.2 | 2009.9 | 1954.7 | 1903.2 | 1845.5 | 1843.0 |
| 37.5° | 4539.6 | 2815.9 | 1845.5 | 1880.6 | 1917.0 | 1937.1 | 1910.8 | 1844.2 | 1801.5 | 1742.5 | 1733.7 |
| 40° | 4668.9 | 2735.6 | 1786.5 | 1822.9 | 1840.5 | 1858.0 | 1815.3 | 1761.4 | 1767.6 | 1735.0 | 1733.7 |
| 42.5° | 4744.3 | 2657.7 | 1731.2 | 1758.9 | 1770.2 | 1782.7 | 1745.0 | 1704.9 | 1738.8 | 1713.7 | 1714.9 |
| 45° | 4799.5 | 2589.9 | 1681.0 | 1691.1 | 1718.7 | 1737.5 | 1702.4 | 1657.2 | 1664.7 | 1568.0 | 1545.4 |
| 47.5° | 4862.3 | 2552.3 | 1633.3 | 1623.3 | 1672.2 | 1704.9 | 1650.9 | 1585.6 | 1540.4 | 1445.0 | 1436.2 |
| 50° | 4928.8 | 2538.5 | 1583.1 | 1555.5 | 1614.5 | 1645.9 | 1583.1 | 1501.5 | 1442.5 | 1391.0 | 1386.0 |
| 52.5° | 4951.4 | 2537.2 | 1520.3 | 1473.9 | 1532.9 | 1576.8 | 1524.1 | 1441.2 | 1370.9 | 1320.7 | 1318.2 |
| 55° | 5040.5 | 2573.6 | 1440.0 | 1362.1 | 1417.4 | 1507.8 | 1468.9 | 1349.6 | 1293.1 | 1270.5 | 1268.0 |
| 57.5° | 5144.7 | 2579.9 | 1313.2 | 1240.4 | 1316.9 | 1423.7 | 1374.7 | 1271.7 | 1210.2 | 1182.6 | 1180.1 |
| 60° | 5102.1 | 2425.5 | 1177.6 | 1147.5 | 1231.6 | 1344.6 | 1299.4 | 1210.2 | 1138.7 | 1112.3 | 1109.8 |
| 62.5° | 3888.1 | 1712.4 | 1078.4 | 1067.1 | 1139.9 | 1230.3 | 1221.5 | 1128.6 | 1060.8 | 1042.0 | 1039.5 |
| 65° | 2338.9 | 1202.7 | 983.0 | 981.7 | 1033.2 | 1119.8 | 1131.1 | 1055.8 | 984.3 | 957.9 | 957.9 |
| 67.5° | 1156.2 | 920.2 | 875.0 | 868.8 | 901.4 | 962.9 | 1010.6 | 949.1 | 888.8 | 863.7 | 860.0 |
| 70° | 817.3 | 811.0 | 795.9 | 778.4 | 784.6 | 809.8 | 829.8 | 778.4 | 714.3 | 689.2 | 684.2 |
| 72.5° | 706.8 | 708.1 | 698.0 | 684.2 | 679.2 | 661.6 | 644.0 | 606.4 | 567.5 | 541.1 | 543.6 |
| 75° | 548.6 | 551.1 | 557.4 | 552.4 | 538.6 | 519.7 | 500.9 | 453.2 | 421.8 | 396.7 | 391.7 |
| 77.5° | 320.1 | 332.7 | 352.8 | 347.8 | 350.3 | 323.9 | 316.4 | 269.9 | 241.0 | 223.5 | 219.7 |
| 80° | 180.8 | 188.3 | 197.1 | 203.4 | 195.8 | 184.5 | 168.2 | 143.1 | 134.3 | 121.8 | 119.3 |
| 82.5° | 109.2 | 116.8 | 120.5 | 125.5 | 123.0 | 108.0 | 95.4 | 79.1 | 71.6 | 65.3 | 64.0 |
| 85° | 55.2 | 60.3 | 64.0 | 66.5 | 59.0 | 49.0 | 43.9 | 35.2 | 30.1 | 26.4 | 26.4 |
| 87.5° | 13.8 | 15.1 | 17.6 | 15.1 | 13.8 | 6.3 | 5.0 | 1.3 | 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 |

(END OF REPORT)