

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P385719

Luminaire Tested: **GWC-SA1B-740-U-SLL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385719  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-SA1B-740-U-SLL  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5365 lumens  
Efficiency: N/A  
Efficacy: 121.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

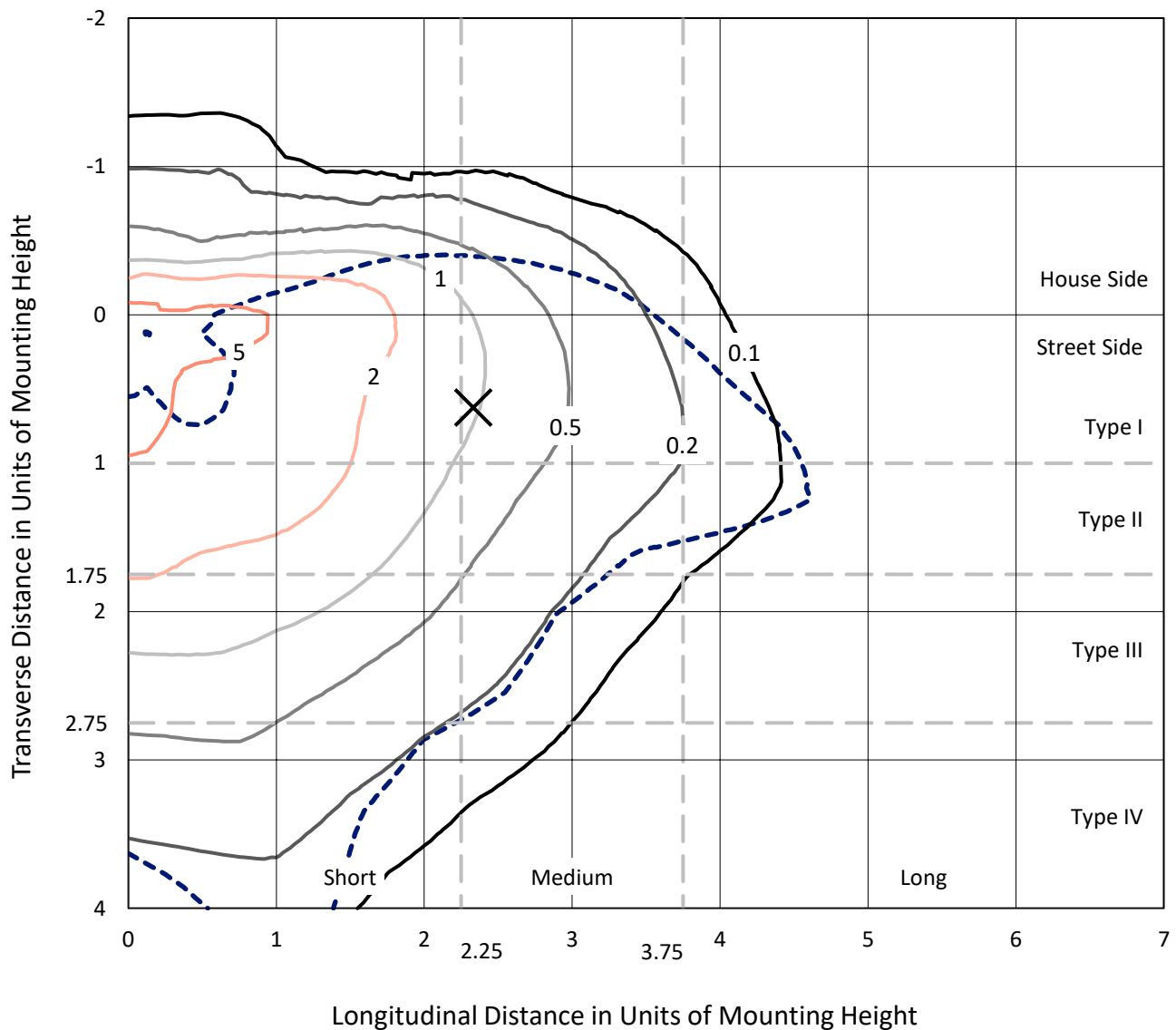


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

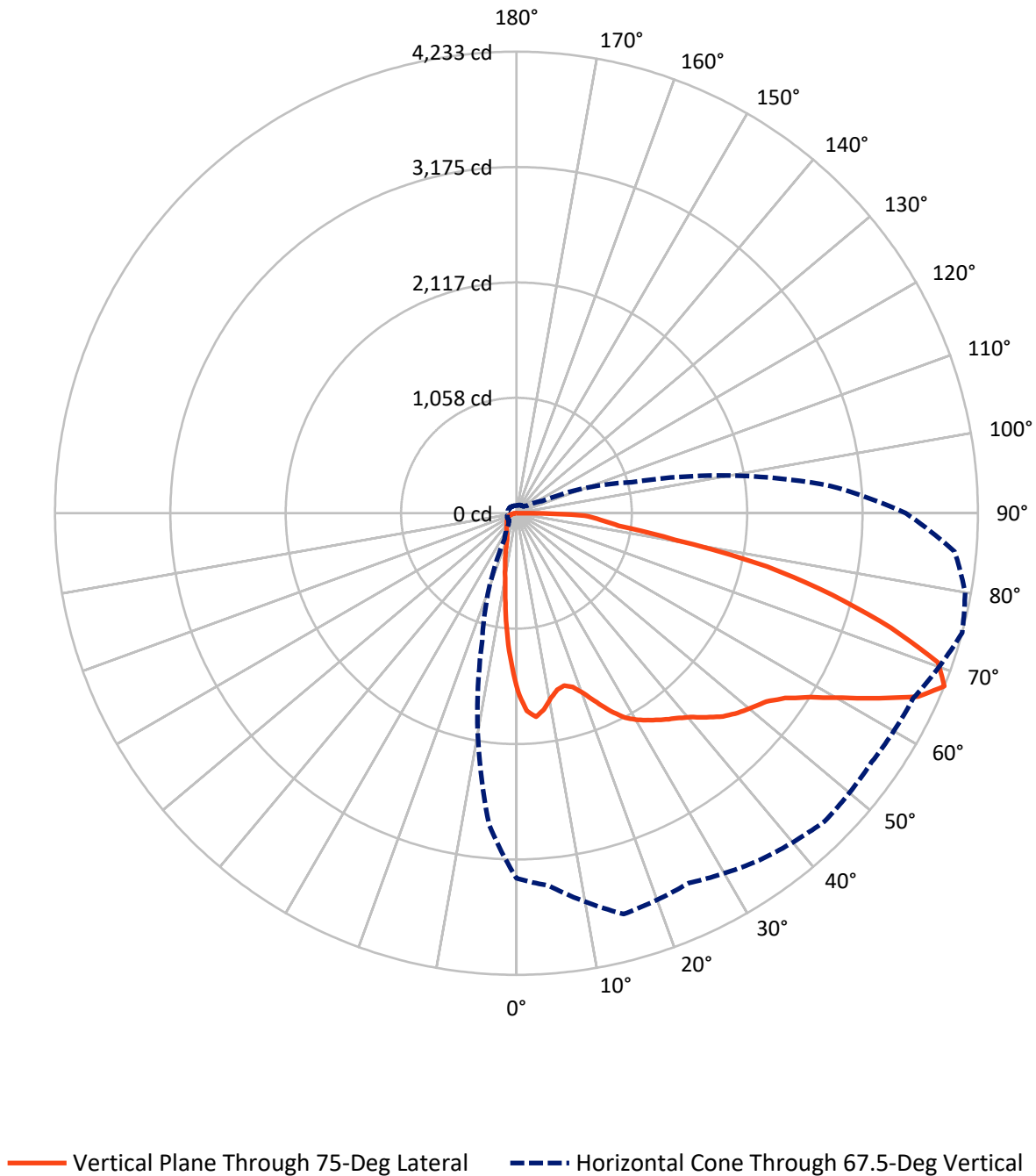


Based on 15 foot mounting height. Maximum calculated value = 9.1 fc  
Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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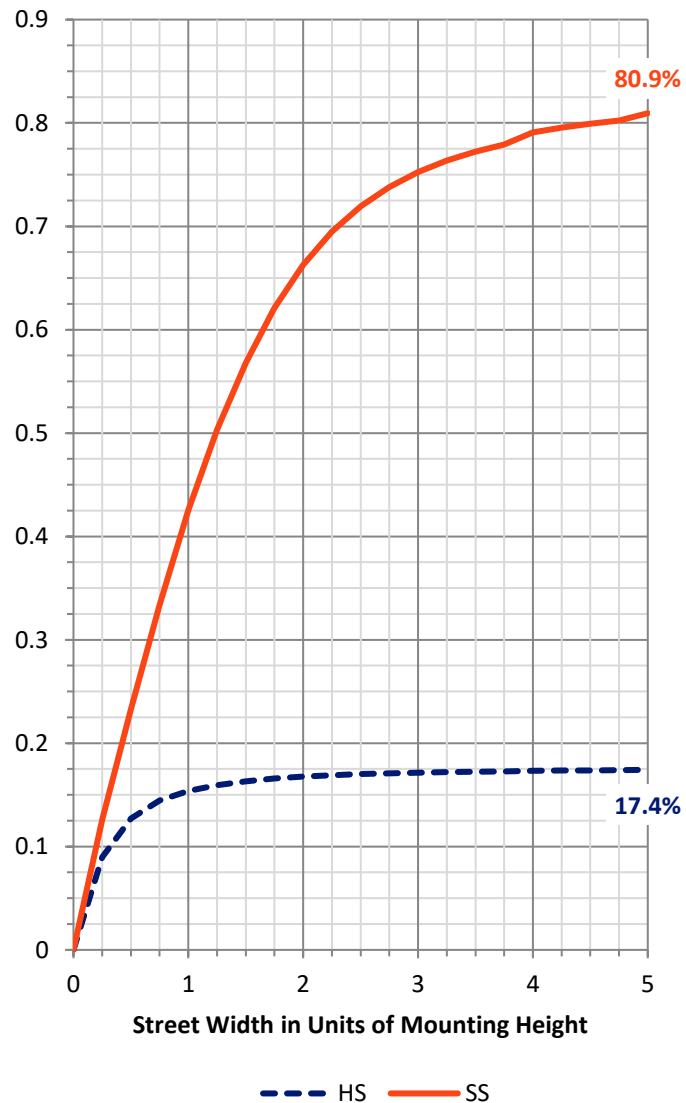
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 944.9    | 0.0    | 944.9  |
|                    | % Fixture | 17.6     | 0.0    | 17.6   |
| <b>Street Side</b> | Lumens    | 4420.1   | 0.0    | 4420.1 |
|                    | % Fixture | 82.4     | 0.0    | 82.4   |
| <b>Total</b>       | Lumens    | 5365.0   | 0.0    | 5365.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 126.1  | 2.4       |
| 10°-20°   | 262.1  | 4.9       |
| 20°-30°   | 372.7  | 6.9       |
| 30°-40°   | 537.1  | 10.0      |
| 40°-50°   | 756.9  | 14.1      |
| 50°-60°   | 1052.2 | 19.6      |
| 60°-70°   | 1272.4 | 23.7      |
| 70°-80°   | 782.1  | 14.6      |
| 80°-90°   | 203.5  | 3.8       |
| 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°    | 5365.0 | 100.0     |
| 0°-180°   | 5365.0 | 100.0     |

**Coefficient of Utilization**



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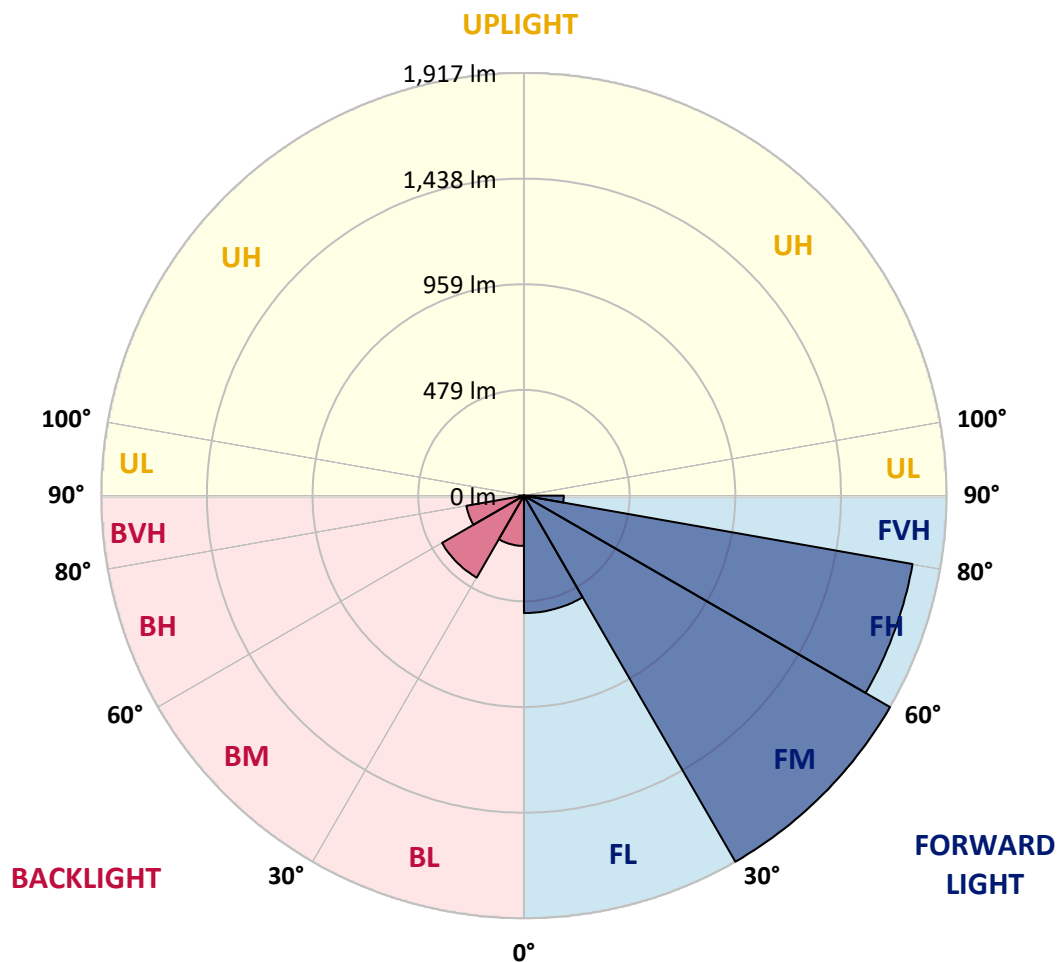
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 532.7  | 9.9       |                         |      |         |
| FM   | (30°-60°)   | 1917.2 | 35.7      |                         |      |         |
| FH   | (60°-80°)   | 1789.6 | 33.4      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 180.7  | 3.4       |                         |      | G2/225  |
| BL   | (0°-30°)    | 228.2  | 4.3       | B1/500                  |      |         |
| BM   | (30°-60°)   | 428.9  | 8.0       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 264.9  | 4.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 22.9   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 |
| 2.5°   | 1742.2 | 1765.1 | 1781.0 | 1796.6 | 1808.9 | 1820.9 | 1838.5 | 1856.0 | 1859.5 | 1862.7 | 1855.8 |
| 5°     | 1731.9 | 1787.8 | 1835.5 | 1882.9 | 1926.8 | 1970.8 | 1997.2 | 2023.6 | 2028.9 | 2034.3 | 2017.8 |
| 7.5°   | 1621.0 | 1703.5 | 1786.1 | 1868.7 | 1944.4 | 2020.1 | 2066.3 | 2112.2 | 2122.7 | 2133.0 | 2105.9 |
| 10°    | 1494.8 | 1590.9 | 1692.4 | 1793.8 | 1893.6 | 1993.3 | 2060.0 | 2126.7 | 2140.0 | 2153.3 | 2119.7 |
| 12.5°  | 1399.0 | 1503.8 | 1612.2 | 1720.5 | 1825.8 | 1930.9 | 2000.0 | 2069.0 | 2085.6 | 2102.1 | 2077.6 |
| 15°    | 1362.1 | 1477.0 | 1578.9 | 1680.8 | 1772.6 | 1864.2 | 1920.8 | 1977.2 | 1984.1 | 1990.8 | 1986.9 |
| 17.5°  | 1399.0 | 1525.7 | 1618.0 | 1710.0 | 1760.0 | 1809.7 | 1832.5 | 1855.0 | 1862.5 | 1869.8 | 1879.6 |
| 20°    | 1506.8 | 1643.7 | 1708.7 | 1773.5 | 1771.3 | 1769.0 | 1758.0 | 1746.9 | 1744.9 | 1743.0 | 1770.9 |
| 22.5°  | 1660.9 | 1819.8 | 1845.8 | 1871.5 | 1811.2 | 1750.9 | 1714.3 | 1677.4 | 1670.1 | 1662.6 | 1692.2 |
| 25°    | 1841.7 | 2010.9 | 2006.2 | 2001.3 | 1886.5 | 1771.5 | 1701.6 | 1631.7 | 1623.5 | 1615.4 | 1640.7 |
| 27.5°  | 2038.4 | 2200.1 | 2169.2 | 2138.3 | 1982.4 | 1826.4 | 1725.0 | 1623.5 | 1615.4 | 1607.2 | 1629.5 |
| 30°    | 2192.2 | 2338.9 | 2289.3 | 2239.8 | 2063.3 | 1886.7 | 1766.2 | 1645.6 | 1632.3 | 1618.8 | 1646.3 |
| 32.5°  | 2322.4 | 2447.2 | 2380.7 | 2314.2 | 2128.9 | 1943.6 | 1813.1 | 1682.7 | 1661.9 | 1641.1 | 1677.8 |
| 35°    | 2457.9 | 2555.3 | 2461.8 | 2368.1 | 2187.4 | 2006.6 | 1868.7 | 1730.6 | 1705.0 | 1679.5 | 1729.9 |
| 37.5°  | 2610.4 | 2691.3 | 2557.0 | 2422.5 | 2253.3 | 2084.1 | 1951.9 | 1819.6 | 1793.4 | 1767.2 | 1831.6 |
| 40°    | 2771.5 | 2838.9 | 2659.8 | 2480.7 | 2325.4 | 2170.1 | 2067.1 | 1963.9 | 1939.1 | 1914.0 | 1992.0 |
| 42.5°  | 2912.4 | 2961.6 | 2755.4 | 2549.3 | 2412.2 | 2275.0 | 2202.5 | 2129.7 | 2129.5 | 2129.1 | 2208.3 |
| 45°    | 3018.6 | 3061.3 | 2835.2 | 2608.9 | 2497.0 | 2384.8 | 2347.0 | 2309.3 | 2339.5 | 2369.8 | 2441.4 |
| 47.5°  | 3106.8 | 3135.7 | 2902.2 | 2668.4 | 2593.9 | 2519.5 | 2525.1 | 2530.6 | 2592.2 | 2653.8 | 2699.9 |
| 50°    | 3207.6 | 3184.2 | 2962.9 | 2741.3 | 2718.3 | 2695.4 | 2745.6 | 2795.5 | 2866.3 | 2936.9 | 2968.2 |
| 52.5°  | 3316.8 | 3254.8 | 3045.2 | 2835.4 | 2861.2 | 2886.9 | 2989.0 | 3091.1 | 3162.6 | 3234.0 | 3245.8 |
| 55°    | 3513.0 | 3418.0 | 3196.7 | 2975.1 | 3024.6 | 3074.0 | 3223.9 | 3373.6 | 3429.4 | 3485.2 | 3489.4 |
| 57.5°  | 3734.2 | 3649.9 | 3408.8 | 3167.7 | 3220.9 | 3274.1 | 3447.2 | 3620.1 | 3680.4 | 3740.4 | 3732.0 |
| 60°    | 3819.3 | 3823.4 | 3610.2 | 3396.8 | 3450.4 | 3504.0 | 3672.6 | 3841.2 | 3910.5 | 3979.6 | 3961.1 |
| 62.5°  | 3733.5 | 3834.1 | 3720.2 | 3606.1 | 3654.8 | 3703.3 | 3868.5 | 4033.6 | 4104.6 | 4175.6 | 4143.5 |
| 65°    | 3563.9 | 3663.6 | 3714.7 | 3765.7 | 3781.8 | 3797.9 | 3952.1 | 4106.1 | 4160.6 | 4214.9 | 4198.6 |
| 67.5°  | 3348.1 | 3428.7 | 3617.1 | 3805.2 | 3772.8 | 3740.4 | 3812.7 | 3885.0 | 3941.0 | 3996.9 | 3987.7 |
| 70°    | 3098.2 | 3194.3 | 3445.5 | 3696.7 | 3537.5 | 3378.1 | 3348.3 | 3318.5 | 3379.0 | 3439.3 | 3401.9 |
| 72.5°  | 2650.1 | 2795.1 | 3063.0 | 3330.7 | 3037.5 | 2744.3 | 2642.4 | 2540.5 | 2617.1 | 2693.7 | 2634.2 |
| 75°    | 2001.7 | 2194.1 | 2490.1 | 2785.9 | 2436.1 | 2086.2 | 1950.2 | 1814.2 | 1880.1 | 1945.9 | 1905.2 |
| 77.5°  | 1392.1 | 1633.4 | 1924.9 | 2216.4 | 1860.8 | 1504.9 | 1403.9 | 1302.6 | 1322.4 | 1341.9 | 1335.0 |
| 80°    | 949.2  | 1107.9 | 1311.2 | 1514.4 | 1277.5 | 1040.7 | 1048.7 | 1056.4 | 1047.2 | 1037.7 | 1051.5 |
| 82.5°  | 595.2  | 707.0  | 864.0  | 1020.8 | 895.1  | 769.4  | 841.5  | 913.5  | 878.2  | 842.5  | 855.8  |
| 85°    | 335.3  | 403.5  | 557.1  | 710.4  | 662.2  | 613.7  | 655.9  | 698.0  | 643.1  | 588.2  | 612.4  |
| 87.5°  | 63.9   | 106.4  | 308.2  | 509.9  | 462.9  | 415.9  | 361.4  | 306.9  | 234.2  | 161.5  | 235.9  |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 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: GWC-SA1B-740-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180°   | 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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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 |
| 2.5°   | 1849.0 | 1845.3 | 1841.7 | 1828.6 | 1815.3 | 1795.6 | 1779.3 | 1750.9 | 1735.5 | 1712.1 | 1688.7 |
| 5°     | 2001.0 | 1977.9 | 1954.7 | 1914.8 | 1874.7 | 1830.1 | 1778.8 | 1722.0 | 1679.1 | 1623.3 | 1567.5 |
| 7.5°   | 2078.9 | 2024.9 | 1970.6 | 1894.0 | 1817.2 | 1748.2 | 1667.1 | 1591.6 | 1527.2 | 1454.7 | 1382.2 |
| 10°    | 2086.0 | 2004.9 | 1923.6 | 1824.1 | 1724.3 | 1640.5 | 1547.2 | 1463.3 | 1386.1 | 1302.9 | 1219.4 |
| 12.5°  | 2053.0 | 1966.7 | 1880.3 | 1770.7 | 1660.9 | 1565.6 | 1465.2 | 1371.3 | 1285.7 | 1194.1 | 1102.3 |
| 15°    | 1983.0 | 1914.2 | 1845.1 | 1742.4 | 1639.6 | 1543.5 | 1446.1 | 1334.8 | 1238.1 | 1144.3 | 1050.4 |
| 17.5°  | 1889.3 | 1856.7 | 1823.9 | 1749.7 | 1675.2 | 1592.0 | 1497.6 | 1367.0 | 1253.7 | 1151.9 | 1050.0 |
| 20°    | 1798.6 | 1810.6 | 1822.4 | 1792.8 | 1763.2 | 1696.5 | 1614.1 | 1467.4 | 1322.8 | 1189.6 | 1056.2 |
| 22.5°  | 1721.6 | 1779.3 | 1836.7 | 1859.7 | 1882.4 | 1842.3 | 1778.0 | 1608.3 | 1417.0 | 1243.0 | 1069.1 |
| 25°    | 1665.8 | 1761.5 | 1857.1 | 1933.5 | 2009.6 | 1991.8 | 1942.3 | 1779.5 | 1541.8 | 1320.0 | 1098.0 |
| 27.5°  | 1651.8 | 1769.2 | 1886.5 | 2004.9 | 2123.1 | 2139.6 | 2125.9 | 1959.9 | 1690.7 | 1415.7 | 1140.5 |
| 30°    | 1673.7 | 1792.6 | 1911.2 | 2055.3 | 2199.2 | 2265.1 | 2283.5 | 2110.2 | 1860.8 | 1527.2 | 1193.5 |
| 32.5°  | 1714.5 | 1831.0 | 1947.4 | 2104.4 | 2261.2 | 2360.8 | 2419.5 | 2247.7 | 1979.4 | 1611.3 | 1243.0 |
| 35°    | 1780.3 | 1889.3 | 1998.3 | 2161.7 | 2325.2 | 2453.9 | 2561.1 | 2389.7 | 2084.7 | 1670.1 | 1255.2 |
| 37.5°  | 1895.7 | 1989.5 | 2083.2 | 2234.2 | 2385.0 | 2551.9 | 2713.0 | 2546.1 | 2198.6 | 1726.7 | 1254.6 |
| 40°    | 2070.1 | 2136.4 | 2202.5 | 2330.1 | 2457.5 | 2667.5 | 2885.0 | 2720.5 | 2324.5 | 1788.1 | 1251.6 |
| 42.5°  | 2287.4 | 2321.5 | 2355.4 | 2456.4 | 2557.5 | 2788.3 | 3041.1 | 2891.0 | 2444.6 | 1845.1 | 1245.6 |
| 45°    | 2512.8 | 2521.8 | 2530.9 | 2594.6 | 2658.1 | 2883.9 | 3147.5 | 3019.1 | 2549.5 | 1894.7 | 1239.6 |
| 47.5°  | 2745.8 | 2714.9 | 2684.0 | 2709.3 | 2734.6 | 2957.3 | 3223.5 | 3116.2 | 2654.8 | 1949.6 | 1244.1 |
| 50°    | 2999.5 | 2913.5 | 2827.5 | 2814.2 | 2800.9 | 3030.6 | 3312.9 | 3239.8 | 2781.4 | 2029.6 | 1277.8 |
| 52.5°  | 3257.4 | 3115.6 | 2973.8 | 2921.2 | 2868.5 | 3118.2 | 3431.5 | 3393.6 | 2962.0 | 2153.6 | 1344.9 |
| 55°    | 3493.7 | 3313.3 | 3133.0 | 3062.2 | 2991.4 | 3252.0 | 3576.3 | 3619.4 | 3193.4 | 2312.1 | 1430.5 |
| 57.5°  | 3723.5 | 3519.0 | 3314.6 | 3249.0 | 3183.4 | 3448.7 | 3759.7 | 3822.1 | 3427.2 | 2464.1 | 1500.8 |
| 60°    | 3942.7 | 3740.4 | 3537.9 | 3485.4 | 3432.6 | 3693.2 | 3957.9 | 3912.4 | 3547.8 | 2535.4 | 1522.7 |
| 62.5°  | 4111.3 | 3950.4 | 3789.5 | 3761.9 | 3734.0 | 3940.5 | 4110.2 | 3877.3 | 3471.2 | 2465.2 | 1459.2 |
| 65°    | 4182.3 | 4090.7 | 3998.9 | 4024.8 | 4050.6 | 4127.6 | 4148.2 | 3774.3 | 3230.5 | 2268.7 | 1306.9 |
| 67.5°  | 3978.3 | 3996.9 | 4015.6 | 4124.6 | 4233.3 | 4180.3 | 4035.3 | 3571.4 | 2888.0 | 1990.3 | 1092.7 |
| 70°    | 3364.4 | 3476.4 | 3588.1 | 3845.9 | 4103.6 | 3986.0 | 3733.1 | 3207.2 | 2475.7 | 1669.7 | 863.4  |
| 72.5°  | 2574.6 | 2700.5 | 2826.2 | 3208.9 | 3591.3 | 3483.0 | 3173.3 | 2634.2 | 1985.0 | 1333.3 | 681.5  |
| 75°    | 1864.2 | 2006.4 | 2148.4 | 2570.5 | 2992.7 | 2842.3 | 2373.6 | 1886.1 | 1507.7 | 1017.8 | 527.7  |
| 77.5°  | 1328.0 | 1423.2 | 1518.4 | 1935.4 | 2352.2 | 2107.2 | 1580.0 | 1269.2 | 1043.5 | 707.4  | 371.1  |
| 80°    | 1065.2 | 1036.0 | 1006.9 | 1239.2 | 1471.5 | 1430.7 | 1045.0 | 815.1  | 722.2  | 474.0  | 225.9  |
| 82.5°  | 868.9  | 797.7  | 726.5  | 835.9  | 945.3  | 939.3  | 725.2  | 598.0  | 537.5  | 329.5  | 121.4  |
| 85°    | 636.4  | 607.9  | 579.4  | 676.1  | 772.8  | 690.3  | 491.2  | 380.1  | 419.1  | 242.6  | 66.1   |
| 87.5°  | 310.4  | 354.6  | 398.5  | 512.6  | 626.5  | 470.4  | 149.1  | 73.8   | 102.1  | 67.1   | 32.0   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P385719

CATALOG NUMBER: GWC-SA1B-740-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 115°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 120°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 125°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 130°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 135°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 140°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 145°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 150°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 155°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 160°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 165°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 170°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 175°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 180°   | 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: GWC-SA1B-740-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 |
| 2.5°   | 1671.4 | 1653.8 | 1633.8 | 1613.9 | 1591.1 | 1568.2 | 1554.7 | 1541.0 | 1526.2 | 1511.4 | 1494.6 |
| 5°     | 1530.7 | 1493.8 | 1451.9 | 1410.1 | 1368.7 | 1327.3 | 1305.0 | 1282.7 | 1259.1 | 1235.3 | 1214.7 |
| 7.5°   | 1328.6 | 1274.8 | 1216.8 | 1158.7 | 1107.2 | 1055.5 | 1023.6 | 991.4  | 962.2  | 932.9  | 908.2  |
| 10°    | 1150.8 | 1082.1 | 1024.0 | 965.7  | 926.8  | 888.0  | 858.6  | 829.2  | 800.9  | 772.4  | 745.2  |
| 12.5°  | 1033.7 | 965.0  | 928.1  | 891.2  | 859.1  | 826.9  | 793.0  | 758.9  | 720.1  | 681.0  | 652.5  |
| 15°    | 988.0  | 925.6  | 884.6  | 843.4  | 800.3  | 757.0  | 715.3  | 673.7  | 627.8  | 581.9  | 549.5  |
| 17.5°  | 968.2  | 886.5  | 829.2  | 771.8  | 714.9  | 658.1  | 609.8  | 561.6  | 511.4  | 461.2  | 428.4  |
| 20°    | 947.4  | 838.7  | 761.9  | 684.9  | 612.0  | 539.0  | 484.3  | 429.6  | 384.8  | 340.0  | 314.9  |
| 22.5°  | 928.6  | 787.9  | 691.5  | 595.0  | 508.8  | 422.6  | 368.9  | 315.1  | 287.6  | 260.2  | 250.1  |
| 25°    | 920.8  | 743.4  | 625.0  | 506.6  | 415.7  | 324.5  | 286.4  | 248.2  | 237.7  | 226.9  | 221.8  |
| 27.5°  | 922.1  | 703.8  | 569.1  | 434.1  | 352.2  | 270.3  | 244.1  | 217.9  | 211.5  | 204.8  | 201.6  |
| 30°    | 927.1  | 660.7  | 516.3  | 371.9  | 304.4  | 236.8  | 219.9  | 202.7  | 195.8  | 189.0  | 184.9  |
| 32.5°  | 932.6  | 622.0  | 475.5  | 328.8  | 273.7  | 218.4  | 204.4  | 190.3  | 183.6  | 177.0  | 172.9  |
| 35°    | 923.0  | 590.5  | 447.7  | 304.8  | 254.0  | 202.9  | 191.1  | 179.1  | 171.8  | 164.5  | 160.7  |
| 37.5°  | 906.7  | 558.8  | 426.0  | 293.0  | 241.1  | 189.0  | 180.4  | 171.6  | 164.1  | 156.4  | 152.7  |
| 40°    | 891.9  | 532.0  | 409.9  | 287.6  | 234.0  | 180.2  | 172.9  | 165.6  | 157.9  | 149.9  | 145.6  |
| 42.5°  | 879.9  | 513.9  | 394.0  | 274.1  | 227.6  | 180.8  | 170.5  | 160.0  | 152.5  | 145.0  | 140.3  |
| 45°    | 870.9  | 502.1  | 381.6  | 261.0  | 221.6  | 182.1  | 169.0  | 155.9  | 148.4  | 140.7  | 135.1  |
| 47.5°  | 870.0  | 495.9  | 372.8  | 249.7  | 210.2  | 170.5  | 165.2  | 159.8  | 148.9  | 137.7  | 131.3  |
| 50°    | 881.8  | 485.8  | 362.5  | 239.0  | 199.3  | 159.6  | 166.9  | 174.0  | 155.3  | 136.4  | 128.3  |
| 52.5°  | 906.5  | 468.0  | 346.2  | 224.4  | 186.0  | 147.4  | 158.7  | 169.9  | 153.8  | 137.5  | 127.0  |
| 55°    | 936.3  | 441.9  | 321.5  | 201.0  | 168.4  | 135.6  | 145.6  | 155.5  | 145.4  | 135.1  | 122.5  |
| 57.5°  | 954.9  | 408.8  | 290.4  | 172.0  | 148.6  | 125.3  | 131.1  | 136.6  | 132.6  | 128.5  | 115.6  |
| 60°    | 943.8  | 364.9  | 255.5  | 145.9  | 131.3  | 116.7  | 115.6  | 114.3  | 120.3  | 126.3  | 111.5  |
| 62.5°  | 889.3  | 319.4  | 224.6  | 129.8  | 118.8  | 107.7  | 105.3  | 102.7  | 112.6  | 122.3  | 106.6  |
| 65°    | 797.3  | 287.6  | 205.1  | 122.5  | 110.3  | 98.0   | 95.5   | 92.9   | 95.9   | 98.9   | 91.6   |
| 67.5°  | 680.4  | 268.1  | 193.9  | 119.7  | 104.9  | 89.9   | 86.9   | 83.9   | 83.2   | 82.6   | 80.0   |
| 70°    | 559.8  | 256.1  | 186.6  | 117.1  | 99.1   | 80.9   | 78.1   | 75.3   | 74.4   | 73.4   | 71.4   |
| 72.5°  | 468.0  | 254.6  | 185.8  | 116.9  | 94.4   | 71.9   | 69.3   | 66.7   | 65.6   | 64.3   | 62.8   |
| 75°    | 383.3  | 239.0  | 176.3  | 113.7  | 87.9   | 62.0   | 59.6   | 57.3   | 56.4   | 55.3   | 54.1   |
| 77.5°  | 284.4  | 197.8  | 148.2  | 98.7   | 75.3   | 51.9   | 49.5   | 47.0   | 46.8   | 46.3   | 45.3   |
| 80°    | 184.5  | 143.1  | 106.0  | 68.9   | 54.9   | 40.8   | 38.8   | 36.7   | 36.9   | 37.1   | 36.3   |
| 82.5°  | 102.5  | 83.4   | 64.8   | 46.1   | 37.5   | 29.0   | 28.1   | 27.0   | 27.7   | 28.1   | 27.0   |
| 85°    | 54.1   | 42.0   | 34.7   | 27.5   | 21.7   | 15.9   | 15.9   | 15.7   | 16.5   | 17.4   | 16.5   |
| 87.5°  | 23.4   | 14.8   | 12.7   | 10.3   | 5.8    | 1.1    | 1.3    | 1.3    | 1.7    | 2.1    | 1.9    |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P385719

CATALOG NUMBER: GWC-SA1B-740-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 115°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 117.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 120°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 122.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 125°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 127.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 130°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 132.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 135°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 137.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 140°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 142.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 145°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 147.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 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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**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   | 200°   | 205°   | 210°   | 215°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 |
| 2.5°   | 1477.7 | 1462.0 | 1446.1 | 1428.8 | 1432.0 | 1418.7 | 1405.4 | 1397.0 | 1388.7 | 1386.1 | 1383.5 |
| 5°     | 1194.1 | 1176.3 | 1158.3 | 1142.2 | 1156.1 | 1146.7 | 1137.3 | 1136.0 | 1134.5 | 1134.5 | 1134.3 |
| 7.5°   | 883.5  | 864.4  | 845.1  | 831.8  | 845.5  | 843.8  | 842.1  | 851.3  | 860.6  | 868.1  | 875.4  |
| 10°    | 717.9  | 694.8  | 671.4  | 651.6  | 648.2  | 638.3  | 628.3  | 630.4  | 632.3  | 640.5  | 648.6  |
| 12.5°  | 624.0  | 596.3  | 568.6  | 545.5  | 535.0  | 518.7  | 502.1  | 491.8  | 481.5  | 482.6  | 483.5  |
| 15°    | 516.9  | 490.1  | 463.1  | 443.2  | 436.5  | 423.8  | 411.2  | 398.3  | 385.2  | 379.9  | 374.3  |
| 17.5°  | 395.3  | 373.9  | 352.2  | 338.9  | 338.9  | 335.3  | 331.6  | 325.2  | 318.5  | 313.2  | 307.6  |
| 20°    | 289.8  | 278.4  | 266.8  | 261.3  | 263.0  | 263.2  | 263.2  | 266.4  | 269.6  | 267.9  | 266.2  |
| 22.5°  | 239.8  | 235.7  | 231.7  | 229.3  | 230.2  | 230.4  | 230.6  | 233.6  | 236.4  | 238.5  | 240.5  |
| 25°    | 216.4  | 213.9  | 211.3  | 210.4  | 212.4  | 212.6  | 212.6  | 214.5  | 216.4  | 218.6  | 220.7  |
| 27.5°  | 198.2  | 197.1  | 196.1  | 194.5  | 196.5  | 196.5  | 196.3  | 198.4  | 200.3  | 202.3  | 204.0  |
| 30°    | 180.8  | 181.3  | 181.5  | 181.0  | 182.3  | 183.2  | 183.8  | 185.3  | 186.6  | 188.1  | 189.6  |
| 32.5°  | 168.6  | 168.0  | 167.3  | 166.9  | 169.7  | 171.2  | 172.7  | 174.2  | 175.5  | 176.1  | 176.7  |
| 35°    | 156.8  | 155.3  | 153.8  | 152.7  | 155.3  | 157.2  | 159.2  | 161.9  | 164.5  | 164.9  | 165.4  |
| 37.5°  | 148.9  | 146.9  | 145.0  | 143.7  | 144.8  | 145.6  | 146.5  | 149.5  | 152.5  | 154.2  | 155.7  |
| 40°    | 141.4  | 139.4  | 137.5  | 136.4  | 137.1  | 137.3  | 137.5  | 139.0  | 140.3  | 143.5  | 146.5  |
| 42.5°  | 135.3  | 133.0  | 130.6  | 129.3  | 129.8  | 130.2  | 130.4  | 130.2  | 130.0  | 133.0  | 136.0  |
| 45°    | 129.3  | 126.8  | 124.2  | 122.7  | 122.9  | 122.9  | 122.9  | 122.5  | 121.8  | 123.3  | 124.8  |
| 47.5°  | 124.6  | 121.6  | 118.6  | 117.1  | 116.7  | 116.3  | 115.8  | 115.6  | 115.2  | 116.3  | 117.1  |
| 50°    | 119.9  | 116.7  | 113.3  | 111.5  | 110.5  | 110.0  | 109.6  | 109.4  | 109.0  | 110.0  | 110.9  |
| 52.5°  | 116.3  | 112.4  | 108.5  | 105.7  | 104.7  | 104.0  | 103.4  | 103.6  | 103.6  | 104.0  | 104.2  |
| 55°    | 109.8  | 106.4  | 102.7  | 100.8  | 98.9   | 98.5   | 98.0   | 98.7   | 99.1   | 99.1   | 99.1   |
| 57.5°  | 102.7  | 99.5   | 96.1   | 94.8   | 93.1   | 93.1   | 92.9   | 93.7   | 94.4   | 94.8   | 95.2   |
| 60°    | 96.5   | 92.9   | 89.2   | 88.2   | 87.5   | 87.3   | 87.1   | 88.2   | 89.0   | 89.9   | 90.7   |
| 62.5°  | 90.7   | 86.9   | 83.0   | 81.7   | 81.5   | 81.7   | 81.7   | 82.8   | 83.7   | 84.5   | 85.4   |
| 65°    | 84.3   | 80.4   | 76.4   | 75.1   | 75.5   | 76.1   | 76.8   | 77.6   | 78.3   | 79.1   | 80.0   |
| 67.5°  | 77.2   | 74.0   | 70.6   | 69.3   | 69.5   | 70.4   | 71.2   | 71.9   | 72.3   | 73.1   | 74.0   |
| 70°    | 69.5   | 66.7   | 63.9   | 63.1   | 62.8   | 63.9   | 64.8   | 65.2   | 65.6   | 66.7   | 67.6   |
| 72.5°  | 61.1   | 58.8   | 56.4   | 55.8   | 56.0   | 56.6   | 57.3   | 57.9   | 58.3   | 59.4   | 60.3   |
| 75°    | 52.6   | 50.4   | 48.3   | 47.8   | 48.3   | 48.9   | 49.5   | 50.0   | 50.4   | 51.7   | 52.8   |
| 77.5°  | 44.2   | 41.8   | 39.3   | 39.0   | 39.7   | 40.3   | 40.8   | 41.4   | 42.0   | 43.8   | 45.5   |
| 80°    | 35.4   | 32.8   | 30.0   | 29.8   | 30.5   | 31.1   | 31.7   | 32.4   | 33.0   | 35.2   | 37.1   |
| 82.5°  | 26.0   | 23.0   | 19.9   | 19.5   | 21.7   | 22.3   | 23.0   | 24.0   | 24.9   | 26.8   | 28.7   |
| 85°    | 15.7   | 12.7   | 9.7    | 9.4    | 11.4   | 12.4   | 13.5   | 14.8   | 15.9   | 17.6   | 19.3   |
| 87.5°  | 1.7    | 0.9    | 0.0    | 0.0    | 0.2    | 1.1    | 1.9    | 3.0    | 4.1    | 5.8    | 7.3    |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 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: GWC-SA1B-740-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 115°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 117.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 120°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 122.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 125°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 127.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 130°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 132.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 135°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 137.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 140°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 142.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 145°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 147.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 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: GWC-SA1B-740-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   | 250°   | 255°   | 260°   | 265°   | 270°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 |
| 2.5°   | 1374.1 | 1364.4 | 1374.3 | 1383.9 | 1388.0 | 1392.1 | 1381.6 | 1370.9 | 1387.6 | 1404.1 | 1408.4 |
| 5°     | 1125.7 | 1116.9 | 1123.5 | 1130.0 | 1115.6 | 1101.2 | 1099.7 | 1098.0 | 1110.5 | 1122.9 | 1124.8 |
| 7.5°   | 872.6  | 869.8  | 876.0  | 882.2  | 864.0  | 845.5  | 836.5  | 827.5  | 830.5  | 833.5  | 833.1  |
| 10°    | 650.6  | 652.3  | 660.0  | 667.5  | 653.4  | 639.2  | 633.0  | 626.8  | 633.6  | 640.3  | 646.5  |
| 12.5°  | 487.3  | 491.0  | 499.1  | 507.1  | 501.3  | 495.3  | 495.9  | 496.6  | 504.5  | 512.2  | 519.1  |
| 15°    | 378.6  | 382.9  | 388.7  | 394.2  | 394.5  | 394.5  | 400.0  | 405.4  | 404.8  | 404.1  | 408.8  |
| 17.5°  | 313.4  | 319.0  | 319.6  | 320.2  | 320.5  | 320.7  | 320.2  | 319.8  | 316.6  | 313.4  | 317.0  |
| 20°    | 268.3  | 270.3  | 272.0  | 273.5  | 271.6  | 269.4  | 264.0  | 258.7  | 256.5  | 254.4  | 257.8  |
| 22.5°  | 244.1  | 247.5  | 245.8  | 243.9  | 240.0  | 235.9  | 231.9  | 227.6  | 227.4  | 226.9  | 228.9  |
| 25°    | 223.7  | 226.5  | 223.5  | 220.5  | 217.7  | 214.9  | 212.1  | 209.3  | 209.1  | 208.9  | 209.8  |
| 27.5°  | 206.8  | 209.3  | 206.6  | 203.8  | 201.4  | 199.1  | 196.9  | 194.8  | 194.3  | 193.9  | 194.1  |
| 30°    | 192.2  | 194.5  | 192.2  | 189.6  | 187.9  | 186.0  | 184.5  | 183.0  | 182.8  | 182.5  | 182.5  |
| 32.5°  | 179.1  | 181.5  | 179.7  | 178.0  | 176.5  | 175.0  | 174.0  | 172.9  | 171.8  | 170.7  | 168.4  |
| 35°    | 167.7  | 170.1  | 169.0  | 167.7  | 166.0  | 164.3  | 162.4  | 160.2  | 157.4  | 154.4  | 153.2  |
| 37.5°  | 158.1  | 160.4  | 159.4  | 158.3  | 155.9  | 153.6  | 150.1  | 146.5  | 145.6  | 144.6  | 144.4  |
| 40°    | 150.4  | 154.0  | 151.9  | 149.5  | 145.9  | 142.2  | 140.5  | 138.8  | 138.4  | 137.9  | 137.5  |
| 42.5°  | 141.8  | 147.4  | 143.5  | 139.6  | 136.2  | 132.8  | 132.3  | 131.9  | 131.7  | 131.5  | 131.5  |
| 45°    | 131.1  | 137.1  | 133.2  | 129.1  | 127.2  | 125.3  | 125.3  | 125.3  | 125.5  | 125.5  | 125.9  |
| 47.5°  | 121.0  | 124.6  | 122.7  | 120.8  | 119.7  | 118.6  | 118.8  | 119.0  | 119.7  | 120.1  | 121.2  |
| 50°    | 112.4  | 113.7  | 114.1  | 114.3  | 113.7  | 113.0  | 113.5  | 113.7  | 114.3  | 114.8  | 115.6  |
| 52.5°  | 106.2  | 108.1  | 108.1  | 107.9  | 107.9  | 107.9  | 108.3  | 108.8  | 109.4  | 110.0  | 110.9  |
| 55°    | 102.1  | 104.9  | 104.0  | 103.2  | 103.4  | 103.4  | 103.8  | 104.2  | 104.9  | 105.3  | 106.6  |
| 57.5°  | 98.2   | 101.2  | 100.4  | 99.5   | 99.5   | 99.5   | 99.7   | 100.0  | 100.6  | 101.0  | 101.9  |
| 60°    | 93.7   | 96.7   | 95.9   | 94.8   | 95.0   | 95.2   | 95.5   | 95.5   | 95.9   | 96.1   | 96.1   |
| 62.5°  | 88.4   | 91.4   | 90.5   | 89.4   | 90.1   | 90.5   | 90.5   | 90.5   | 90.9   | 91.2   | 90.5   |
| 65°    | 82.8   | 85.6   | 84.7   | 83.9   | 84.7   | 85.4   | 85.8   | 86.0   | 85.8   | 85.6   | 84.9   |
| 67.5°  | 76.8   | 79.6   | 78.7   | 77.6   | 78.7   | 79.6   | 80.4   | 81.1   | 80.4   | 79.8   | 78.9   |
| 70°    | 70.4   | 73.1   | 72.1   | 71.0   | 72.1   | 73.1   | 74.0   | 74.9   | 74.0   | 73.1   | 72.9   |
| 72.5°  | 63.5   | 66.7   | 65.4   | 64.1   | 65.4   | 66.7   | 67.1   | 67.6   | 66.9   | 66.3   | 65.9   |
| 75°    | 56.0   | 59.2   | 58.1   | 56.8   | 57.9   | 59.0   | 59.2   | 59.4   | 59.4   | 59.2   | 57.9   |
| 77.5°  | 48.0   | 50.6   | 50.0   | 49.3   | 50.0   | 50.6   | 50.6   | 50.6   | 50.8   | 50.8   | 49.1   |
| 80°    | 38.6   | 40.1   | 40.3   | 40.5   | 40.8   | 41.0   | 40.8   | 40.5   | 40.1   | 39.7   | 38.6   |
| 82.5°  | 28.7   | 28.7   | 30.5   | 32.0   | 32.0   | 31.7   | 31.5   | 31.1   | 30.2   | 29.2   | 26.8   |
| 85°    | 18.2   | 17.2   | 19.9   | 22.5   | 22.5   | 22.3   | 21.9   | 21.2   | 19.5   | 17.6   | 15.7   |
| 87.5°  | 6.2    | 5.1    | 7.9    | 10.7   | 10.9   | 10.9   | 10.5   | 10.1   | 8.4    | 6.4    | 4.9    |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 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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**CANDELA DISTRIBUTION (continued):**

|        | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 115°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 117.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 120°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 122.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 125°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 127.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 130°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 132.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 135°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 137.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 140°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 142.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 145°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 147.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 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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**CANDELA DISTRIBUTION (continued):**

|        | 275°   | 280°   | 285°   | 290°   | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 |
| 2.5°   | 1414.8 | 1417.6 | 1420.2 | 1441.2 | 1462.0 | 1486.5 | 1510.9 | 1529.6 | 1548.0 | 1567.1 | 1586.2 |
| 5°     | 1131.5 | 1134.9 | 1138.3 | 1163.9 | 1189.2 | 1223.3 | 1257.4 | 1286.8 | 1316.2 | 1350.7 | 1385.2 |
| 7.5°   | 838.7  | 846.2  | 853.5  | 880.7  | 907.8  | 944.4  | 980.9  | 1019.3 | 1057.5 | 1102.5 | 1147.6 |
| 10°    | 658.7  | 672.9  | 686.8  | 714.7  | 742.6  | 778.8  | 814.9  | 855.0  | 895.1  | 939.5  | 983.7  |
| 12.5°  | 533.2  | 552.1  | 570.8  | 604.2  | 637.7  | 681.0  | 724.1  | 768.8  | 813.2  | 852.2  | 891.2  |
| 15°    | 421.3  | 441.9  | 462.2  | 497.6  | 533.0  | 580.6  | 628.0  | 676.7  | 725.2  | 772.0  | 818.7  |
| 17.5°  | 328.6  | 345.6  | 362.3  | 392.3  | 422.1  | 468.2  | 514.4  | 565.4  | 616.5  | 673.5  | 730.4  |
| 20°    | 265.1  | 272.2  | 279.3  | 300.9  | 322.4  | 359.9  | 397.2  | 449.4  | 501.5  | 569.7  | 637.9  |
| 22.5°  | 232.3  | 235.9  | 239.4  | 249.9  | 260.2  | 284.4  | 308.4  | 354.6  | 400.5  | 474.9  | 549.1  |
| 25°    | 212.6  | 215.4  | 218.1  | 225.0  | 231.9  | 243.5  | 255.0  | 287.4  | 319.8  | 393.0  | 465.9  |
| 27.5°  | 194.8  | 199.1  | 203.1  | 206.3  | 209.3  | 217.3  | 225.0  | 246.2  | 267.5  | 335.7  | 403.7  |
| 30°    | 181.9  | 183.4  | 184.9  | 189.8  | 194.5  | 202.7  | 210.9  | 225.7  | 240.5  | 298.2  | 355.6  |
| 32.5°  | 166.9  | 169.0  | 171.2  | 176.3  | 181.5  | 189.0  | 196.5  | 208.5  | 220.3  | 269.6  | 318.7  |
| 35°    | 153.4  | 155.5  | 157.7  | 162.8  | 167.7  | 175.9  | 183.8  | 193.9  | 203.8  | 246.7  | 289.6  |
| 37.5°  | 145.0  | 147.1  | 149.3  | 153.8  | 158.1  | 166.2  | 174.2  | 182.1  | 189.8  | 229.5  | 269.2  |
| 40°    | 137.9  | 140.1  | 142.2  | 146.5  | 150.6  | 158.5  | 166.2  | 172.9  | 179.5  | 216.6  | 253.8  |
| 42.5°  | 131.7  | 134.1  | 136.4  | 140.7  | 144.8  | 151.9  | 158.9  | 167.7  | 176.3  | 205.5  | 234.4  |
| 45°    | 126.6  | 128.9  | 131.1  | 135.8  | 140.5  | 147.4  | 154.2  | 166.5  | 178.7  | 199.7  | 220.7  |
| 47.5°  | 121.8  | 124.4  | 126.8  | 131.9  | 137.1  | 145.6  | 154.0  | 164.3  | 174.4  | 195.2  | 216.0  |
| 50°    | 117.3  | 120.3  | 123.3  | 129.6  | 135.6  | 149.9  | 164.1  | 165.6  | 166.9  | 191.5  | 216.0  |
| 52.5°  | 113.0  | 116.5  | 119.9  | 127.6  | 135.1  | 151.9  | 168.6  | 163.2  | 157.7  | 184.7  | 211.7  |
| 55°    | 108.8  | 111.8  | 114.5  | 124.0  | 133.4  | 145.6  | 157.9  | 150.8  | 143.5  | 171.8  | 200.1  |
| 57.5°  | 103.0  | 106.2  | 109.2  | 119.3  | 129.3  | 137.9  | 146.3  | 139.9  | 133.2  | 157.2  | 181.0  |
| 60°    | 97.0   | 100.6  | 104.2  | 117.1  | 129.8  | 128.3  | 126.6  | 125.3  | 123.8  | 140.9  | 158.1  |
| 62.5°  | 91.6   | 95.5   | 99.3   | 116.0  | 132.8  | 122.5  | 112.2  | 113.3  | 114.1  | 126.8  | 139.4  |
| 65°    | 86.2   | 90.1   | 93.7   | 102.1  | 110.5  | 106.4  | 102.3  | 104.0  | 105.5  | 118.0  | 130.4  |
| 67.5°  | 80.2   | 83.7   | 86.9   | 89.7   | 92.4   | 92.9   | 93.3   | 95.0   | 96.7   | 111.5  | 126.1  |
| 70°    | 73.6   | 76.4   | 79.1   | 81.1   | 82.8   | 83.7   | 84.3   | 86.4   | 88.6   | 104.7  | 120.8  |
| 72.5°  | 66.1   | 68.4   | 70.6   | 72.3   | 74.0   | 74.6   | 75.1   | 77.2   | 79.4   | 96.5   | 113.7  |
| 75°    | 57.9   | 59.8   | 61.6   | 63.1   | 64.6   | 65.4   | 66.3   | 67.8   | 69.3   | 87.9   | 106.4  |
| 77.5°  | 48.9   | 50.8   | 52.6   | 53.8   | 54.9   | 55.8   | 56.4   | 58.3   | 60.3   | 75.9   | 91.4   |
| 80°    | 38.2   | 40.5   | 42.7   | 43.8   | 44.6   | 44.8   | 44.8   | 46.5   | 48.3   | 59.4   | 70.4   |
| 82.5°  | 27.0   | 29.6   | 32.0   | 32.8   | 33.7   | 33.7   | 33.7   | 35.6   | 37.5   | 45.0   | 52.3   |
| 85°    | 15.9   | 18.7   | 21.2   | 22.1   | 23.0   | 23.4   | 23.6   | 24.5   | 25.1   | 30.5   | 35.6   |
| 87.5°  | 4.9    | 7.3    | 9.4    | 9.9    | 10.3   | 11.2   | 12.0   | 12.2   | 12.2   | 15.9   | 19.5   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 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: GWC-SA1B-740-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 115°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 117.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 120°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 122.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 125°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 127.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 130°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 132.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 135°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 137.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 140°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 142.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 145°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 147.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 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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**CANDELA DISTRIBUTION (continued):**

|        | 330°   | 335°   | 340°   | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 |
| 2.5°   | 1608.1 | 1630.0 | 1655.5 | 1680.8 | 1702.5 | 1724.1 | 1742.2 |
| 5°     | 1429.2 | 1473.2 | 1527.0 | 1580.6 | 1628.5 | 1676.3 | 1731.9 |
| 7.5°   | 1204.4 | 1261.2 | 1331.0 | 1400.7 | 1468.2 | 1535.6 | 1621.0 |
| 10°    | 1041.6 | 1099.3 | 1173.1 | 1246.7 | 1322.6 | 1398.3 | 1494.8 |
| 12.5°  | 938.2  | 985.0  | 1056.4 | 1127.8 | 1217.1 | 1306.1 | 1399.0 |
| 15°    | 870.0  | 921.1  | 990.6  | 1060.0 | 1157.6 | 1255.2 | 1362.1 |
| 17.5°  | 797.3  | 864.0  | 953.0  | 1042.0 | 1157.6 | 1273.0 | 1399.0 |
| 20°    | 721.1  | 804.2  | 919.6  | 1035.0 | 1190.7 | 1346.2 | 1506.8 |
| 22.5°  | 645.2  | 741.3  | 889.3  | 1037.1 | 1240.7 | 1444.0 | 1660.9 |
| 25°    | 576.8  | 687.7  | 870.9  | 1053.8 | 1313.4 | 1572.7 | 1841.7 |
| 27.5°  | 524.9  | 645.9  | 863.4  | 1080.6 | 1405.6 | 1730.6 | 2038.4 |
| 30°    | 478.8  | 601.9  | 854.3  | 1106.8 | 1494.4 | 1881.8 | 2192.2 |
| 32.5°  | 438.9  | 559.0  | 837.0  | 1114.7 | 1556.4 | 1998.0 | 2322.4 |
| 35°    | 407.5  | 525.5  | 807.8  | 1090.1 | 1595.2 | 2100.4 | 2457.9 |
| 37.5°  | 380.5  | 491.8  | 774.6  | 1057.3 | 1629.8 | 2202.2 | 2610.4 |
| 40°    | 354.8  | 455.8  | 746.0  | 1036.0 | 1677.4 | 2318.7 | 2771.5 |
| 42.5°  | 330.3  | 426.2  | 723.1  | 1019.9 | 1721.6 | 2423.0 | 2912.4 |
| 45°    | 312.1  | 403.5  | 702.7  | 1001.7 | 1750.1 | 2498.5 | 3018.6 |
| 47.5°  | 303.1  | 390.0  | 691.8  | 993.3  | 1778.6 | 2563.7 | 3106.8 |
| 50°    | 301.8  | 387.6  | 704.2  | 1020.8 | 1840.4 | 2659.8 | 3207.6 |
| 52.5°  | 301.6  | 391.5  | 740.0  | 1088.6 | 1955.1 | 2821.5 | 3316.8 |
| 55°    | 297.1  | 393.8  | 782.7  | 1171.4 | 2109.2 | 3046.7 | 3513.0 |
| 57.5°  | 283.4  | 385.7  | 826.7  | 1267.5 | 2272.0 | 3276.2 | 3734.2 |
| 60°    | 262.1  | 365.9  | 862.9  | 1359.7 | 2381.4 | 3402.8 | 3819.3 |
| 62.5°  | 235.5  | 331.4  | 874.9  | 1418.3 | 2378.4 | 3338.4 | 3733.5 |
| 65°    | 212.8  | 295.1  | 835.5  | 1375.6 | 2258.0 | 3140.2 | 3563.9 |
| 67.5°  | 192.6  | 258.9  | 736.8  | 1214.5 | 2041.6 | 2868.5 | 3348.1 |
| 70°    | 178.0  | 235.1  | 609.6  | 984.1  | 1770.7 | 2557.0 | 3098.2 |
| 72.5°  | 168.8  | 223.7  | 497.0  | 770.0  | 1436.9 | 2103.6 | 2650.1 |
| 75°    | 156.2  | 205.9  | 390.0  | 573.8  | 1099.7 | 1625.7 | 2001.7 |
| 77.5°  | 132.6  | 173.5  | 293.9  | 414.2  | 806.9  | 1199.5 | 1392.1 |
| 80°    | 102.3  | 134.1  | 202.1  | 270.1  | 555.3  | 840.6  | 949.2  |
| 82.5°  | 72.9   | 93.5   | 122.5  | 151.4  | 368.9  | 586.2  | 595.2  |
| 85°    | 45.0   | 54.5   | 70.1   | 85.8   | 244.1  | 402.4  | 335.3  |
| 87.5°  | 24.2   | 29.0   | 37.1   | 45.0   | 78.1   | 111.1  | 63.9   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P385719

CATALOG NUMBER: GWC-SA1B-740-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|--------|------|------|------|------|------|------|------|
| 112.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 115°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 117.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 120°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 122.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 125°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 127.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 130°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 132.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 135°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 137.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 140°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 142.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 145°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 147.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

INVUE

Report Number: SP1-2104-224-3

Luminaire Tested: CCW-SA-2A-740-U-SL4

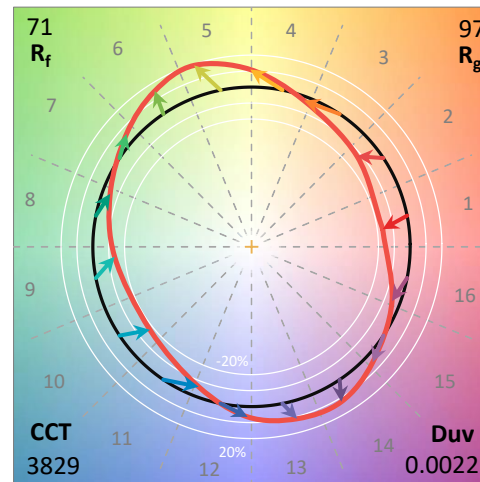
Test Date: 04/26/2021

### Test Information

Test Method: LM-79-08  
 Report Number: SP1-2104-224-3  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1  
 Measurement Geometry:  $4\pi$   
 Issue Date: 04/26/2021  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: INVUE  
 Catalog Number: **CCW-SA-2A-740-U-SL4**  
 Description: INVUE WALL PACK ClearCurve Light Square

### Spectral Parameters

|                           |        |           |      |      |       |
|---------------------------|--------|-----------|------|------|-------|
| CCT (K):                  | 3829   | CRI (Ra): | 69.8 |      |       |
| CIE u':                   | 0.2271 | R1:       | 67.2 | R9:  | -35.1 |
| CIE v':                   | 0.5076 | R2:       | 75.2 | R10: | 43.1  |
| Duv:                      | 0.0022 | R3:       | 83.2 | R11: | 69.0  |
| CIE x:                    | 0.3900 | R4:       | 71.0 | R12: | 44.3  |
| CIE y:                    | 0.3873 | R5:       | 67.4 | R13: | 67.6  |
| CIE z:                    | 0.2227 | R6:       | 66.8 | R14: | 90.3  |
| Peak Wavelength (nm):     | 440    | R7:       | 77.6 |      |       |
| Dominant Wavelength (nm): | 578    | R8:       | 50.3 |      |       |
| Purity:                   | 33.4   |           |      |      |       |
|                           |        |           |      |      |       |
| Rf:                       | 70.6   |           |      |      |       |
| Rg:                       | 96.7   |           |      |      |       |



### Test Conditions

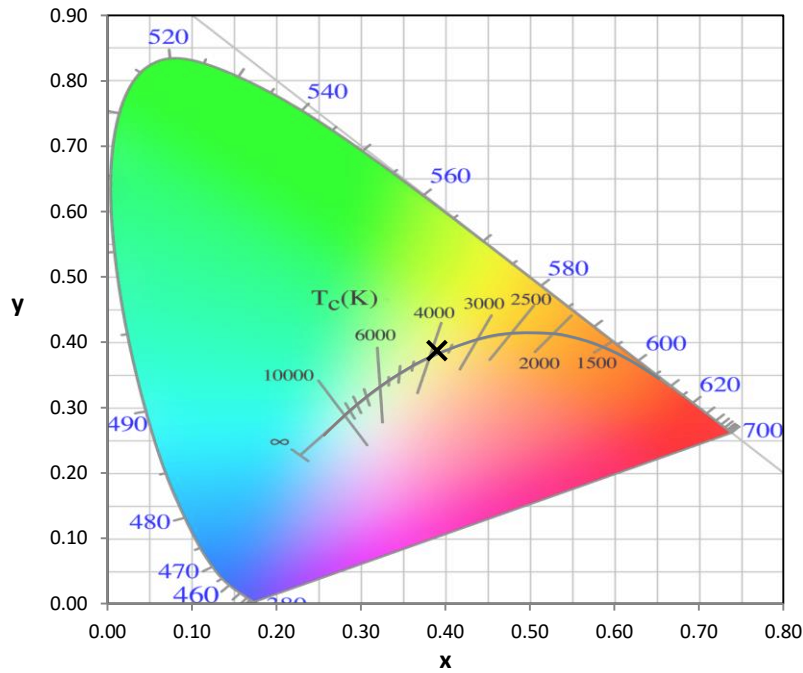
Stabilization Time: 62M  
 Operation Time: 12H  
 Room Temperature (°C) / RH%: 24.8/39%  
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2104-224-3

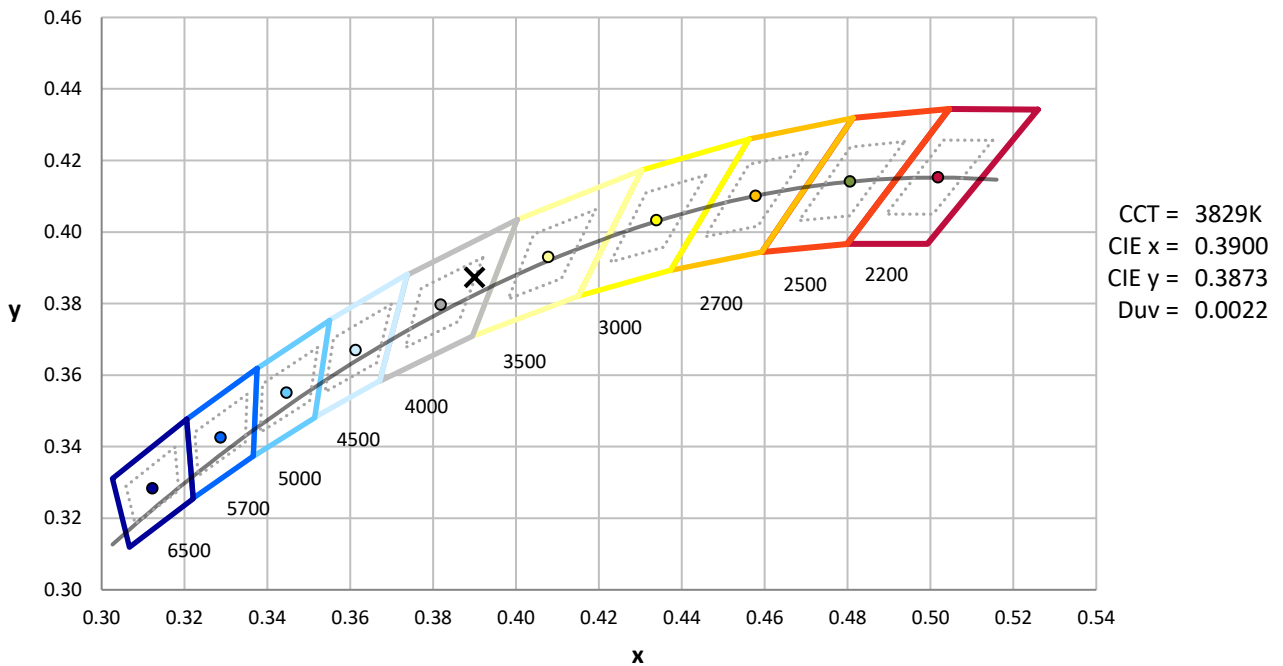
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| Photometer                     | IN0058                | 1/31/2021        | 7/31/2021            |
| Power Meter                    | IN0071                | 12/1/2020        | 12/1/2021            |
| AC Power Source                | IN0063                | 12/1/2020        | 12/1/2021            |
| DC Power Source                | IN0208                | 12/1/2020        | 12/1/2021            |
| Sphere Thermometer             | IN0085                | 12/1/2020        | 12/1/2021            |
| Room Thermometer               | IN0046                | 12/1/2020        | 12/1/2021            |

REPORT NUMBER: SP1-2104-224-3

**CIE 1931 Chromaticity Diagram**



**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**

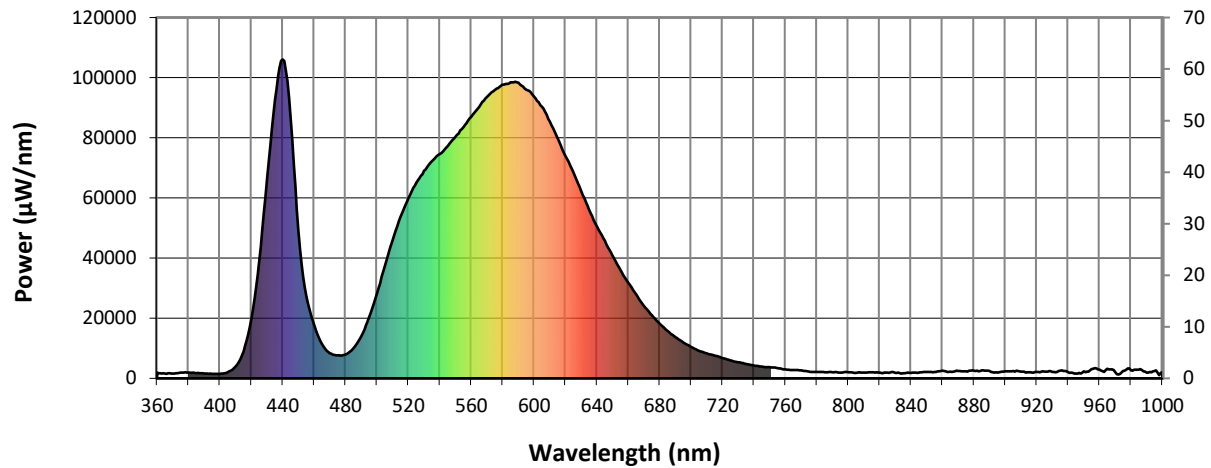


Point lies inside the ANSI 4000K 7-step quadrangle



REPORT NUMBER: SP1-2104-224-3

### Photopic Flux vs. Wavelength

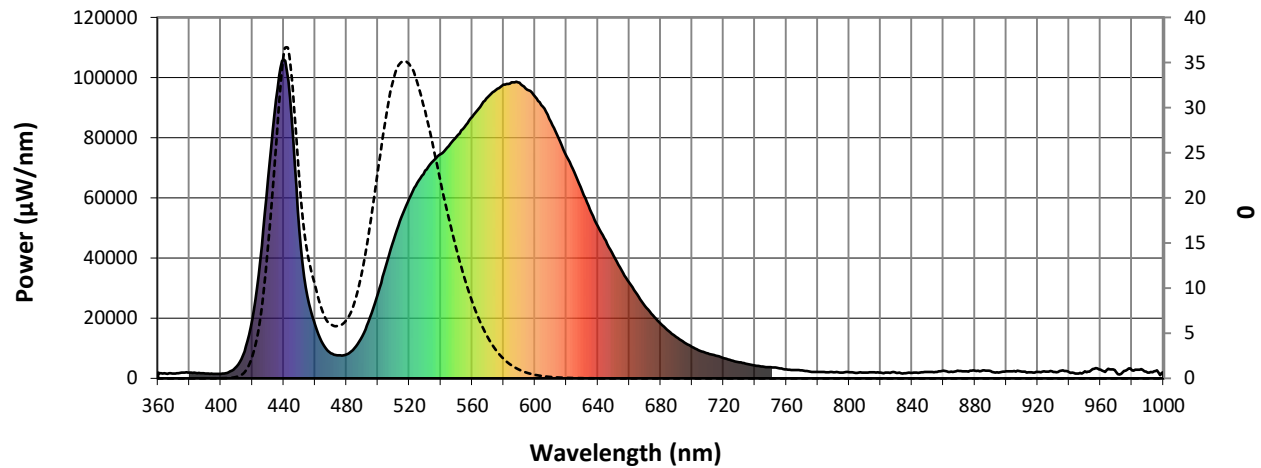


#####

| $\lambda$<br>(nm) | Power<br>( $\mu\text{W/nm}$ ) | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>( $\mu\text{W/nm}$ ) | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>( $\mu\text{W/nm}$ ) | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>( $\mu\text{W/nm}$ ) | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>( $\mu\text{W/nm}$ ) | Lumens<br>( $\phi/\text{nm}$ ) |
|-------------------|-------------------------------|--------------------------------|-------------------|-------------------------------|--------------------------------|-------------------|-------------------------------|--------------------------------|-------------------|-------------------------------|--------------------------------|-------------------|-------------------------------|--------------------------------|
| 360               | 1901                          | 0.0                            | 490               | 14057                         | 2.0                            | 620               | 73853                         | 19.2                           | 750               | 3678                          | 0.0                            | 880               | 2528                          | 0.0                            |
| 365               | 1585                          | 0.0                            | 495               | 20304                         | 3.7                            | 625               | 68653                         | 15.1                           | 755               | 3385                          | 0.0                            | 885               | 2638                          | 0.0                            |
| 370               | 1604                          | 0.0                            | 500               | 28346                         | 6.3                            | 630               | 62254                         | 11.3                           | 760               | 2963                          | 0.0                            | 890               | 2417                          | 0.0                            |
| 375               | 1905                          | 0.0                            | 505               | 37228                         | 10.4                           | 635               | 56177                         | 8.4                            | 765               | 2782                          | 0.0                            | 895               | 1902                          | 0.0                            |
| 380               | 1882                          | 0.0                            | 510               | 46037                         | 15.8                           | 640               | 50521                         | 6.0                            | 770               | 2657                          | 0.0                            | 900               | 2330                          | 0.0                            |
| 385               | 1693                          | 0.0                            | 515               | 53619                         | 22.2                           | 645               | 45727                         | 4.4                            | 775               | 2259                          | 0.0                            | 905               | 2456                          | 0.0                            |
| 390               | 1640                          | 0.0                            | 520               | 59890                         | 29.0                           | 650               | 40814                         | 3.0                            | 780               | 2169                          | 0.0                            | 910               | 2205                          | 0.0                            |
| 395               | 1513                          | 0.0                            | 525               | 64946                         | 34.9                           | 655               | 35925                         | 2.1                            | 785               | 2065                          | 0.0                            | 915               | 2002                          | 0.0                            |
| 400               | 1481                          | 0.0                            | 530               | 69048                         | 40.7                           | 660               | 31824                         | 1.3                            | 790               | 2054                          | 0.0                            | 920               | 2125                          | 0.0                            |
| 405               | 2044                          | 0.0                            | 535               | 72246                         | 44.8                           | 665               | 27860                         | 0.9                            | 795               | 1908                          | 0.0                            | 925               | 2266                          | 0.0                            |
| 410               | 3966                          | 0.0                            | 540               | 74621                         | 48.6                           | 670               | 24069                         | 0.5                            | 800               | 2026                          | 0.0                            | 930               | 2159                          | 0.0                            |
| 415               | 8943                          | 0.0                            | 545               | 77288                         | 51.4                           | 675               | 20926                         | 0.4                            | 805               | 1766                          | 0.0                            | 935               | 2581                          | 0.0                            |
| 420               | 19566                         | 0.1                            | 550               | 80334                         | 54.6                           | 680               | 18170                         | 0.2                            | 810               | 1913                          | 0.0                            | 940               | 2052                          | 0.0                            |
| 425               | 39243                         | 0.2                            | 555               | 83561                         | 57.1                           | 685               | 15785                         | 0.1                            | 815               | 2019                          | 0.0                            | 945               | 1631                          | 0.0                            |
| 430               | 66113                         | 0.5                            | 560               | 86964                         | 59.1                           | 690               | 13770                         | 0.1                            | 820               | 1876                          | 0.0                            | 950               | 2301                          | 0.0                            |
| 435               | 92550                         | 1.1                            | 565               | 90264                         | 60.0                           | 695               | 11953                         | 0.1                            | 825               | 1869                          | 0.0                            | 955               | 3077                          | 0.0                            |
| 440               | 106034                        | 1.7                            | 570               | 93519                         | 60.8                           | 700               | 10452                         | 0.0                            | 830               | 1862                          | 0.0                            | 960               | 2911                          | 0.0                            |
| 445               | 86383                         | 1.8                            | 575               | 95920                         | 59.7                           | 705               | 9162                          | 0.0                            | 835               | 1663                          | 0.0                            | 965               | 3163                          | 0.0                            |
| 450               | 49216                         | 1.3                            | 580               | 97650                         | 58.0                           | 710               | 8266                          | 0.0                            | 840               | 1843                          | 0.0                            | 970               | 1995                          | 0.0                            |
| 455               | 27376                         | 0.9                            | 585               | 98486                         | 54.7                           | 715               | 7583                          | 0.0                            | 845               | 1921                          | 0.0                            | 975               | 2418                          | 0.0                            |
| 460               | 17830                         | 0.7                            | 590               | 98332                         | 50.8                           | 720               | 6750                          | 0.0                            | 850               | 2105                          | 0.0                            | 980               | 2674                          | 0.0                            |
| 465               | 11374                         | 0.6                            | 595               | 96023                         | 45.5                           | 725               | 5965                          | 0.0                            | 855               | 2096                          | 0.0                            | 985               | 2850                          | 0.0                            |
| 470               | 8344                          | 0.5                            | 600               | 93650                         | 40.4                           | 730               | 5310                          | 0.0                            | 860               | 2601                          | 0.0                            | 990               | 1972                          | 0.0                            |
| 475               | 7639                          | 0.6                            | 605               | 90313                         | 35.0                           | 735               | 4838                          | 0.0                            | 865               | 2199                          | 0.0                            | 995               | 2443                          | 0.0                            |
| 480               | 7991                          | 0.8                            | 610               | 85305                         | 29.3                           | 740               | 4280                          | 0.0                            | 870               | 2491                          | 0.0                            | 1000              | 1979                          | 0.0                            |
| 485               | 9994                          | 1.2                            | 615               | 79870                         | 24.1                           | 745               | 3928                          | 0.0                            | 875               | 2370                          | 0.0                            |                   |                               |                                |

REPORT NUMBER: SP1-2104-224-3

### Scotopic Flux vs. Wavelength



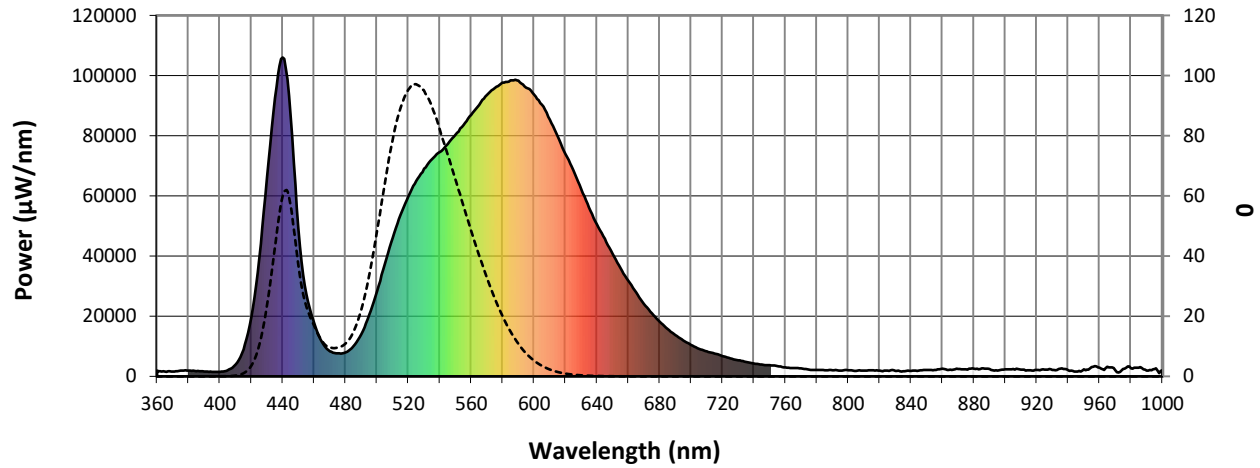
Scotopic Lumens: 7682.8

S/P: 1.42

| λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) |
|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|
| 360       | 1901             | 0.0              | 490       | 14057            | 21.6             | 620       | 73853            | 0.9              | 750       | 3678             | 0.0              | 880       | 2528             | 0.0              |
| 365       | 1585             | 0.0              | 495       | 20304            | 32.8             | 625       | 68653            | 0.6              | 755       | 3385             | 0.0              | 885       | 2638             | 0.0              |
| 370       | 1604             | 0.0              | 500       | 28346            | 47.4             | 630       | 62254            | 0.4              | 760       | 2963             | 0.0              | 890       | 2417             | 0.0              |
| 375       | 1905             | 0.0              | 505       | 37228            | 63.3             | 635       | 56177            | 0.2              | 765       | 2782             | 0.0              | 895       | 1902             | 0.0              |
| 380       | 1882             | 0.0              | 510       | 46037            | 78.0             | 640       | 50521            | 0.1              | 770       | 2657             | 0.0              | 900       | 2330             | 0.0              |
| 385       | 1693             | 0.0              | 515       | 53619            | 88.9             | 645       | 45727            | 0.1              | 775       | 2259             | 0.0              | 905       | 2456             | 0.0              |
| 390       | 1640             | 0.0              | 520       | 59890            | 95.2             | 650       | 40814            | 0.0              | 780       | 2169             | 0.0              | 910       | 2205             | 0.0              |
| 395       | 1513             | 0.0              | 525       | 64946            | 97.2             | 655       | 35925            | 0.0              | 785       | 2065             | 0.0              | 915       | 2002             | 0.0              |
| 400       | 1481             | 0.0              | 530       | 69048            | 95.2             | 660       | 31824            | 0.0              | 790       | 2054             | 0.0              | 920       | 2125             | 0.0              |
| 405       | 2044             | 0.1              | 535       | 72246            | 90.0             | 665       | 27860            | 0.0              | 795       | 1908             | 0.0              | 925       | 2266             | 0.0              |
| 410       | 3966             | 0.2              | 540       | 74621            | 82.5             | 670       | 24069            | 0.0              | 800       | 2026             | 0.0              | 930       | 2159             | 0.0              |
| 415       | 8943             | 0.9              | 545       | 77288            | 74.1             | 675       | 20926            | 0.0              | 805       | 1766             | 0.0              | 935       | 2581             | 0.0              |
| 420       | 19566            | 3.2              | 550       | 80334            | 65.7             | 680       | 18170            | 0.0              | 810       | 1913             | 0.0              | 940       | 2052             | 0.0              |
| 425       | 39243            | 9.6              | 555       | 83561            | 57.1             | 685       | 15785            | 0.0              | 815       | 2019             | 0.0              | 945       | 1631             | 0.0              |
| 430       | 66113            | 22.5             | 560       | 86964            | 48.6             | 690       | 13770            | 0.0              | 820       | 1876             | 0.0              | 950       | 2301             | 0.0              |
| 435       | 92550            | 41.4             | 565       | 90264            | 40.5             | 695       | 11953            | 0.0              | 825       | 1869             | 0.0              | 955       | 3077             | 0.0              |
| 440       | 106034           | 59.3             | 570       | 93519            | 33.0             | 700       | 10452            | 0.0              | 830       | 1862             | 0.0              | 960       | 2911             | 0.0              |
| 445       | 86383            | 57.8             | 575       | 95920            | 26.1             | 705       | 9162             | 0.0              | 835       | 1663             | 0.0              | 965       | 3163             | 0.0              |
| 450       | 49216            | 38.1             | 580       | 97650            | 20.1             | 710       | 8266             | 0.0              | 840       | 1843             | 0.0              | 970       | 1995             | 0.0              |
| 455       | 27376            | 23.9             | 585       | 98486            | 15.1             | 715       | 7583             | 0.0              | 845       | 1921             | 0.0              | 975       | 2418             | 0.0              |
| 460       | 17830            | 17.2             | 590       | 98332            | 10.9             | 720       | 6750             | 0.0              | 850       | 2105             | 0.0              | 980       | 2674             | 0.0              |
| 465       | 11374            | 12.0             | 595       | 96023            | 7.7              | 725       | 5965             | 0.0              | 855       | 2096             | 0.0              | 985       | 2850             | 0.0              |
| 470       | 8344             | 9.6              | 600       | 93650            | 5.3              | 730       | 5310             | 0.0              | 860       | 2601             | 0.0              | 990       | 1972             | 0.0              |
| 475       | 7639             | 9.6              | 605       | 90313            | 3.5              | 735       | 4838             | 0.0              | 865       | 2199             | 0.0              | 995       | 2443             | 0.0              |
| 480       | 7991             | 10.8             | 610       | 85305            | 2.3              | 740       | 4280             | 0.0              | 870       | 2491             | 0.0              | 1000      | 1979             | 0.0              |
| 485       | 9994             | 14.5             | 615       | 79870            | 1.5              | 745       | 3928             | 0.0              | 875       | 2370             | 0.0              |           |                  |                  |

REPORT NUMBER: SP1-2104-224-3

### Melanopic Flux vs. Wavelength


**Melanopic Lumens: 2823**
**M/P: 0.52**

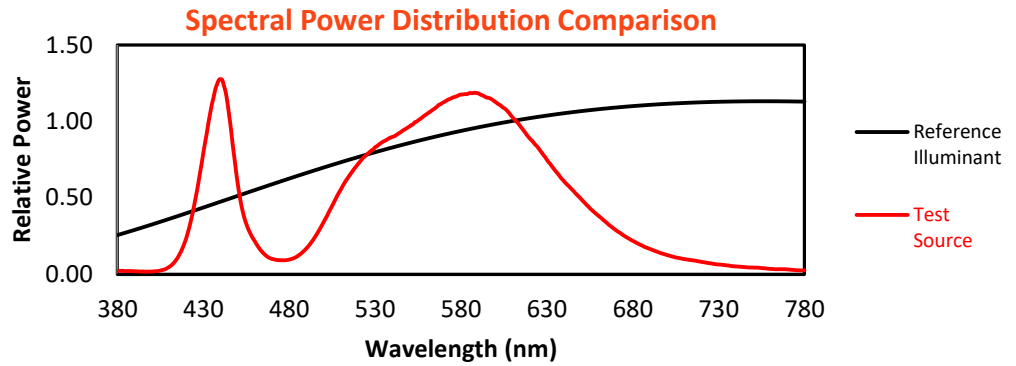
| λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) |
|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|
| 360       | 1901             | 0.0              | 490       | 14057            | 11.7             | 620       | 73853            | 0.1              | 750       | 3678             | 0.0              | 880       | 2528             | 0.0              |
| 365       | 1585             | 0.0              | 495       | 20304            | 16.8             | 625       | 68653            | 0.0              | 755       | 3385             | 0.0              | 885       | 2638             | 0.0              |
| 370       | 1604             | 0.0              | 500       | 28346            | 22.8             | 630       | 62254            | 0.0              | 760       | 2963             | 0.0              | 890       | 2417             | 0.0              |
| 375       | 1905             | 0.0              | 505       | 37228            | 28.6             | 635       | 56177            | 0.0              | 765       | 2782             | 0.0              | 895       | 1902             | 0.0              |
| 380       | 1882             | 0.0              | 510       | 46037            | 33.1             | 640       | 50521            | 0.0              | 770       | 2657             | 0.0              | 900       | 2330             | 0.0              |
| 385       | 1693             | 0.0              | 515       | 53619            | 35.0             | 645       | 45727            | 0.0              | 775       | 2259             | 0.0              | 905       | 2456             | 0.0              |
| 390       | 1640             | 0.0              | 520       | 59890            | 34.9             | 650       | 40814            | 0.0              | 780       | 2169             | 0.0              | 910       | 2205             | 0.0              |
| 395       | 1513             | 0.0              | 525       | 64946            | 32.9             | 655       | 35925            | 0.0              | 785       | 2065             | 0.0              | 915       | 2002             | 0.0              |
| 400       | 1481             | 0.0              | 530       | 69048            | 29.8             | 660       | 31824            | 0.0              | 790       | 2054             | 0.0              | 920       | 2125             | 0.0              |
| 405       | 2044             | 0.0              | 535       | 72246            | 26.0             | 665       | 27860            | 0.0              | 795       | 1908             | 0.0              | 925       | 2266             | 0.0              |
| 410       | 3966             | 0.2              | 540       | 74621            | 21.8             | 670       | 24069            | 0.0              | 800       | 2026             | 0.0              | 930       | 2159             | 0.0              |
| 415       | 8943             | 0.6              | 545       | 77288            | 18.0             | 675       | 20926            | 0.0              | 805       | 1766             | 0.0              | 935       | 2581             | 0.0              |
| 420       | 19566            | 2.2              | 550       | 80334            | 14.4             | 680       | 18170            | 0.0              | 810       | 1913             | 0.0              | 940       | 2052             | 0.0              |
| 425       | 39243            | 6.1              | 555       | 83561            | 11.3             | 685       | 15785            | 0.0              | 815       | 2019             | 0.0              | 945       | 1631             | 0.0              |
| 430       | 66113            | 14.0             | 560       | 86964            | 8.6              | 690       | 13770            | 0.0              | 820       | 1876             | 0.0              | 950       | 2301             | 0.0              |
| 435       | 92550            | 24.7             | 565       | 90264            | 6.3              | 695       | 11953            | 0.0              | 825       | 1869             | 0.0              | 955       | 3077             | 0.0              |
| 440       | 106034           | 35.4             | 570       | 93519            | 4.6              | 700       | 10452            | 0.0              | 830       | 1862             | 0.0              | 960       | 2911             | 0.0              |
| 445       | 86383            | 34.1             | 575       | 95920            | 3.2              | 705       | 9162             | 0.0              | 835       | 1663             | 0.0              | 965       | 3163             | 0.0              |
| 450       | 49216            | 22.7             | 580       | 97650            | 2.2              | 710       | 8266             | 0.0              | 840       | 1843             | 0.0              | 970       | 1995             | 0.0              |
| 455       | 27376            | 14.3             | 585       | 98486            | 1.5              | 715       | 7583             | 0.0              | 845       | 1921             | 0.0              | 975       | 2418             | 0.0              |
| 460       | 17830            | 10.5             | 590       | 98332            | 1.0              | 720       | 6750             | 0.0              | 850       | 2105             | 0.0              | 980       | 2674             | 0.0              |
| 465       | 11374            | 7.4              | 595       | 96023            | 0.6              | 725       | 5965             | 0.0              | 855       | 2096             | 0.0              | 985       | 2850             | 0.0              |
| 470       | 8344             | 6.0              | 600       | 93650            | 0.4              | 730       | 5310             | 0.0              | 860       | 2601             | 0.0              | 990       | 1972             | 0.0              |
| 475       | 7639             | 5.8              | 605       | 90313            | 0.2              | 735       | 4838             | 0.0              | 865       | 2199             | 0.0              | 995       | 2443             | 0.0              |
| 480       | 7991             | 6.4              | 610       | 85305            | 0.2              | 740       | 4280             | 0.0              | 870       | 2491             | 0.0              | 1000      | 1979             | 0.0              |
| 485       | 9994             | 8.2              | 615       | 79870            | 0.1              | 745       | 3928             | 0.0              | 875       | 2370             | 0.0              |           |                  |                  |

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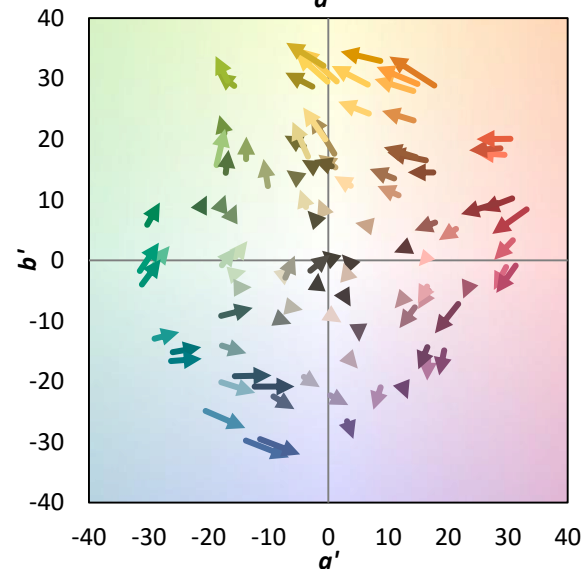
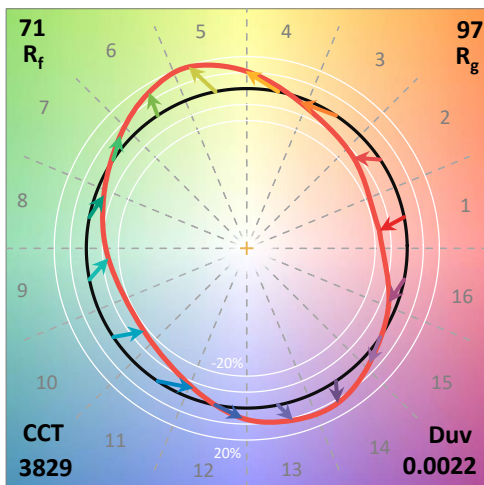
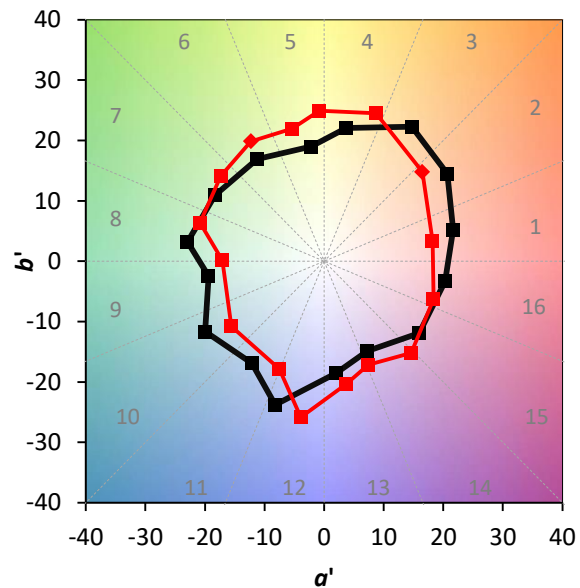
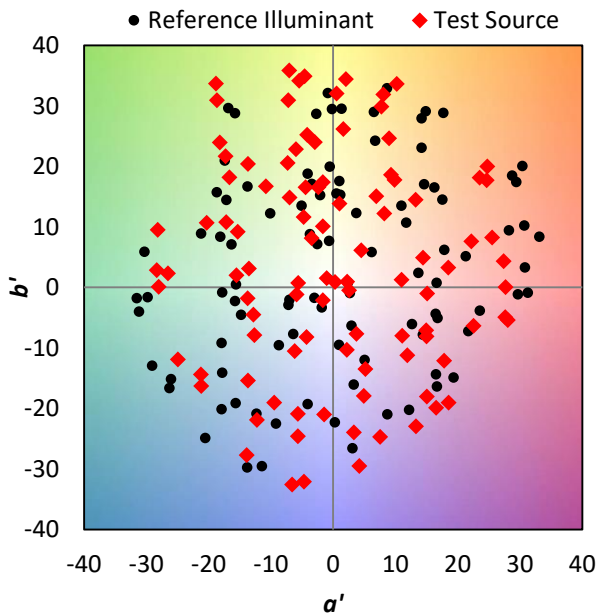
TM-30-18

### Summary

$R_f = 70.6$   
 $R_g = 96.7$   
 CIE  $R_a = 69.8$   
 $R_g = -35.1$

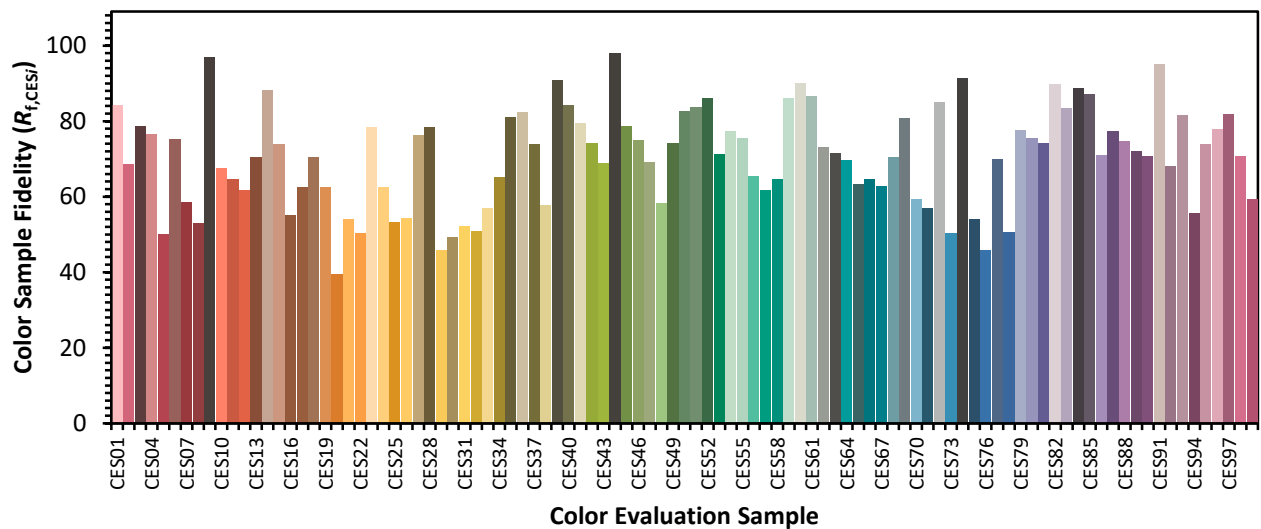


### Color Vector Graphics

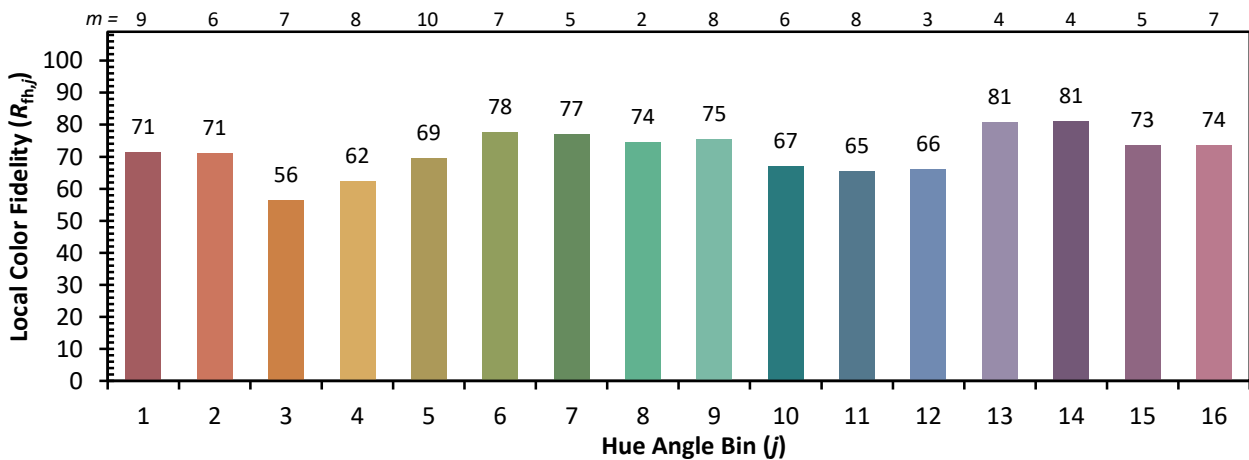
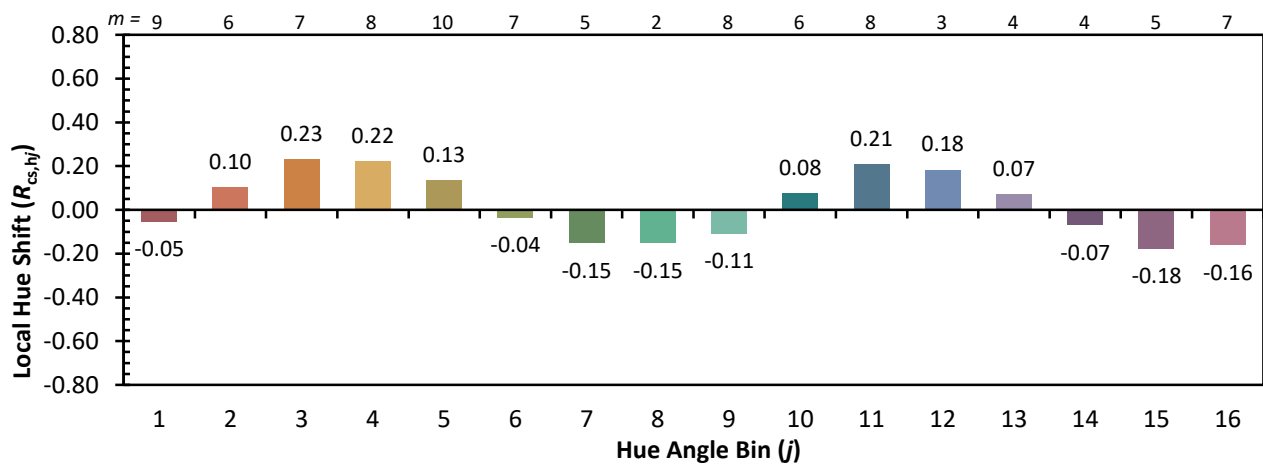
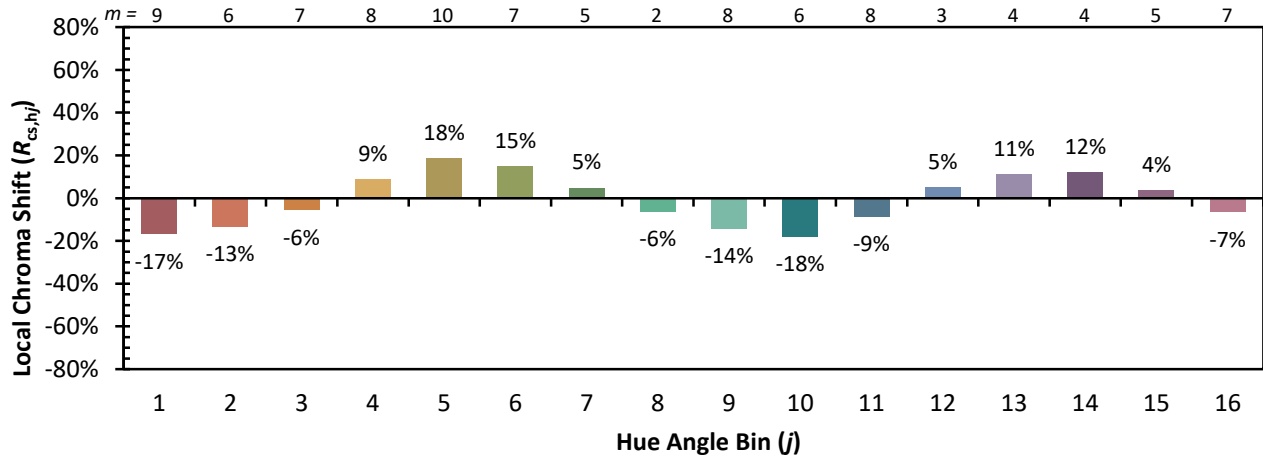


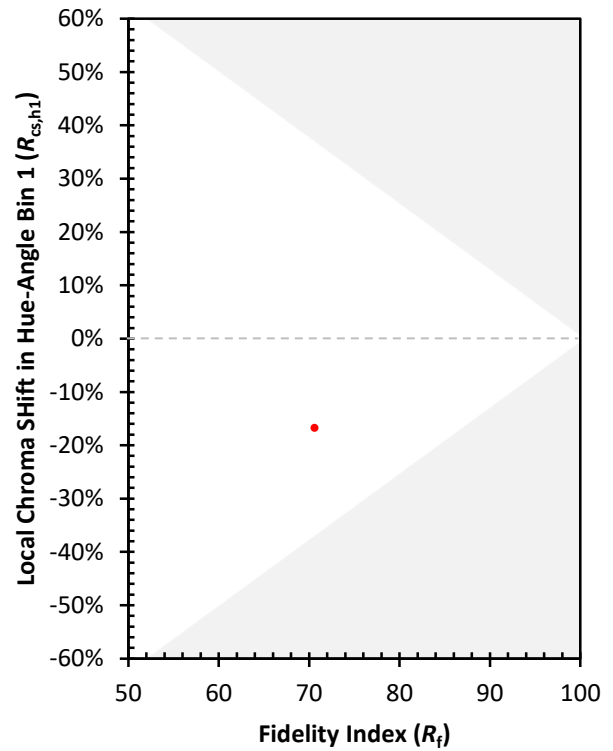
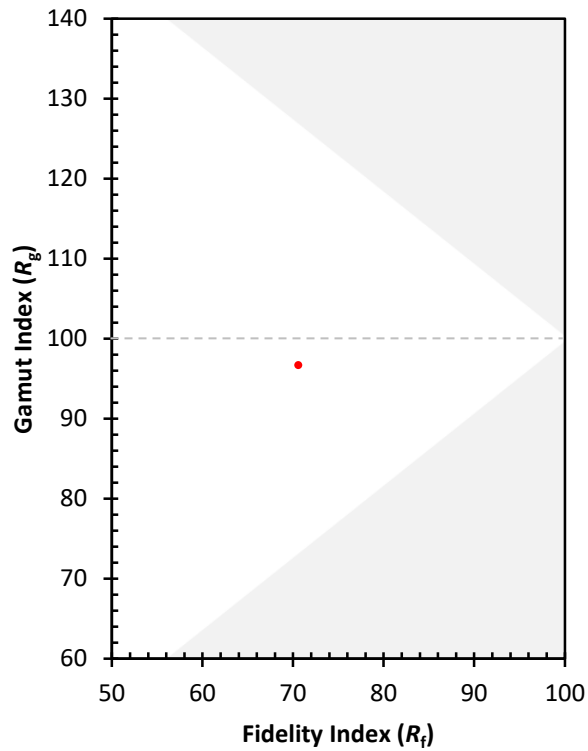
**Individual Sample Fidelity Index ( $R_{f,i}$ )**

|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 54 | CES51 = 84 | CES76 = 46 |
| CES02 = 61 | CES27 = 76 | CES52 = 86 | CES77 = 70 |
| CES03 = 30 | CES28 = 78 | CES53 = 71 | CES78 = 50 |
| CES04 = 70 | CES29 = 46 | CES54 = 77 | CES79 = 77 |
| CES05 = 47 | CES30 = 49 | CES55 = 76 | CES80 = 75 |
| CES06 = 50 | CES31 = 52 | CES56 = 65 | CES81 = 74 |
| CES07 = 40 | CES32 = 51 | CES57 = 62 | CES82 = 90 |
| CES08 = 39 | CES33 = 57 | CES58 = 65 | CES83 = 84 |
| CES09 = 29 | CES34 = 65 | CES59 = 86 | CES84 = 89 |
| CES10 = 74 | CES35 = 81 | CES60 = 90 | CES85 = 87 |
| CES11 = 57 | CES36 = 82 | CES61 = 87 | CES86 = 71 |
| CES12 = 63 | CES37 = 74 | CES62 = 73 | CES87 = 77 |
| CES13 = 42 | CES38 = 58 | CES63 = 72 | CES88 = 75 |
| CES14 = 74 | CES39 = 91 | CES64 = 70 | CES89 = 72 |
| CES15 = 71 | CES40 = 84 | CES65 = 63 | CES90 = 71 |
| CES16 = 46 | CES41 = 79 | CES66 = 65 | CES91 = 95 |
| CES17 = 49 | CES42 = 74 | CES67 = 63 | CES92 = 68 |
| CES18 = 56 | CES43 = 69 | CES68 = 70 | CES93 = 82 |
| CES19 = 72 | CES44 = 98 | CES69 = 81 | CES94 = 56 |
| CES20 = 65 | CES45 = 79 | CES70 = 59 | CES95 = 74 |
| CES21 = 86 | CES46 = 75 | CES71 = 57 | CES96 = 78 |
| CES22 = 78 | CES47 = 69 | CES72 = 85 | CES97 = 82 |
| CES23 = 92 | CES48 = 58 | CES73 = 50 | CES98 = 71 |
| CES24 = 91 | CES49 = 74 | CES74 = 91 | CES99 = 59 |
| CES25 = 72 | CES50 = 83 | CES75 = 54 |            |



Color Rendition by Hue-Angle Bin



**Measure Comparisons**


(END OF REPORT)