

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: P385859

Luminaire Tested: **GWC-SA1C-722-U-SLL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385859  
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-SA1C-722-U-SLL  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 2200K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4881 lumens  
Efficiency: N/A  
Efficacy: 84.2 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): 58  
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

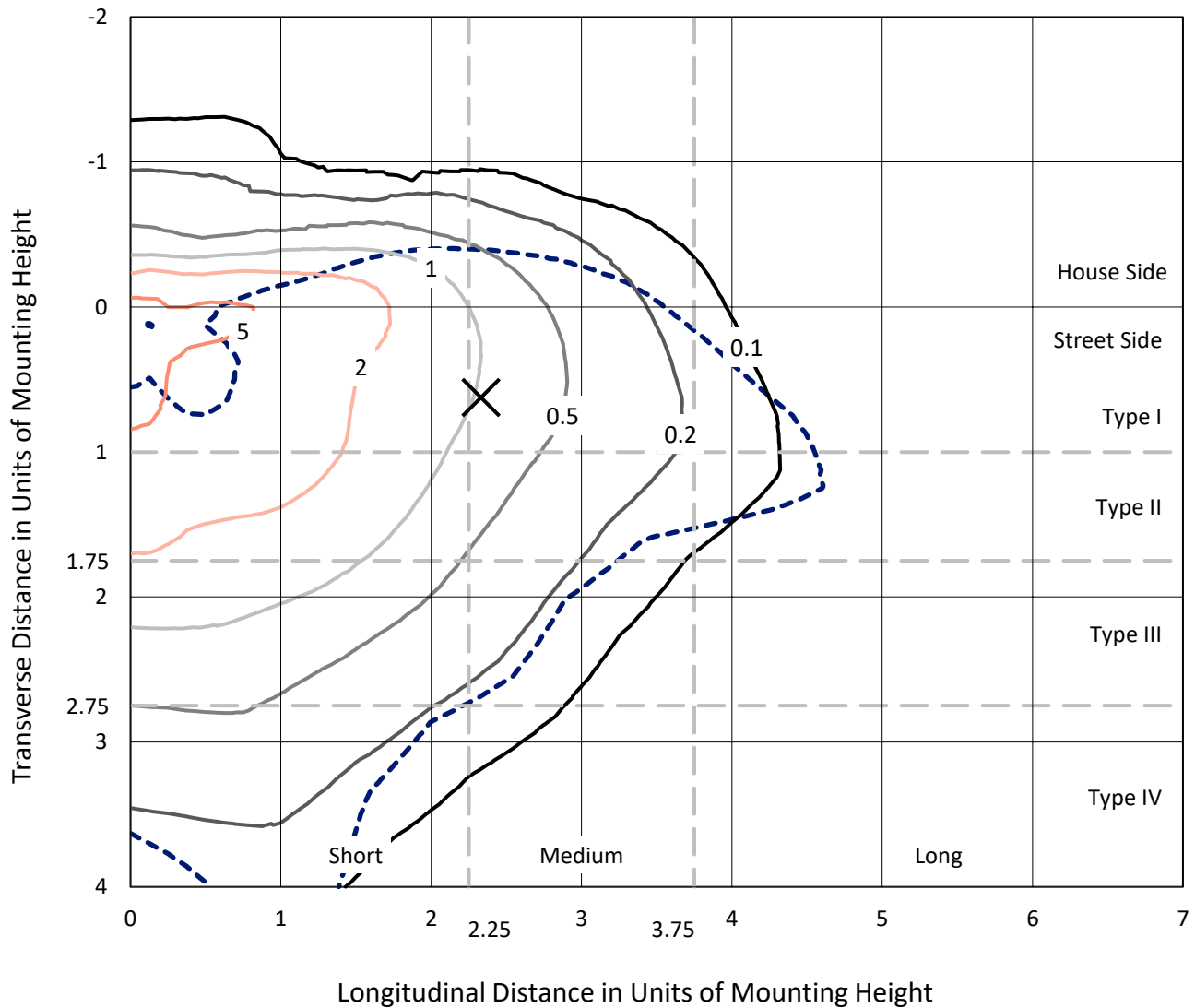


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

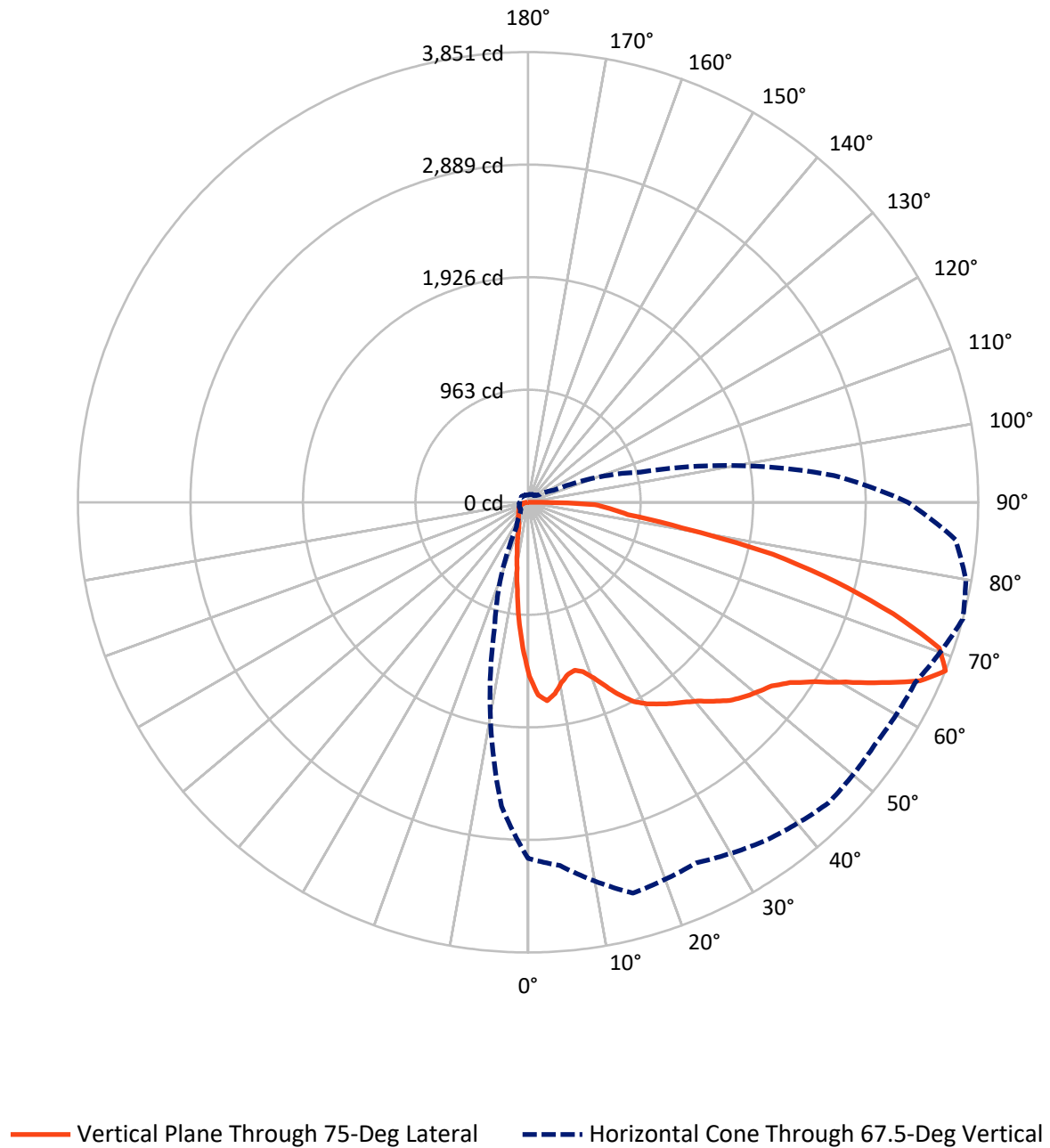


Based on 15 foot mounting height. Maximum calculated value = 8.3 fc  
 Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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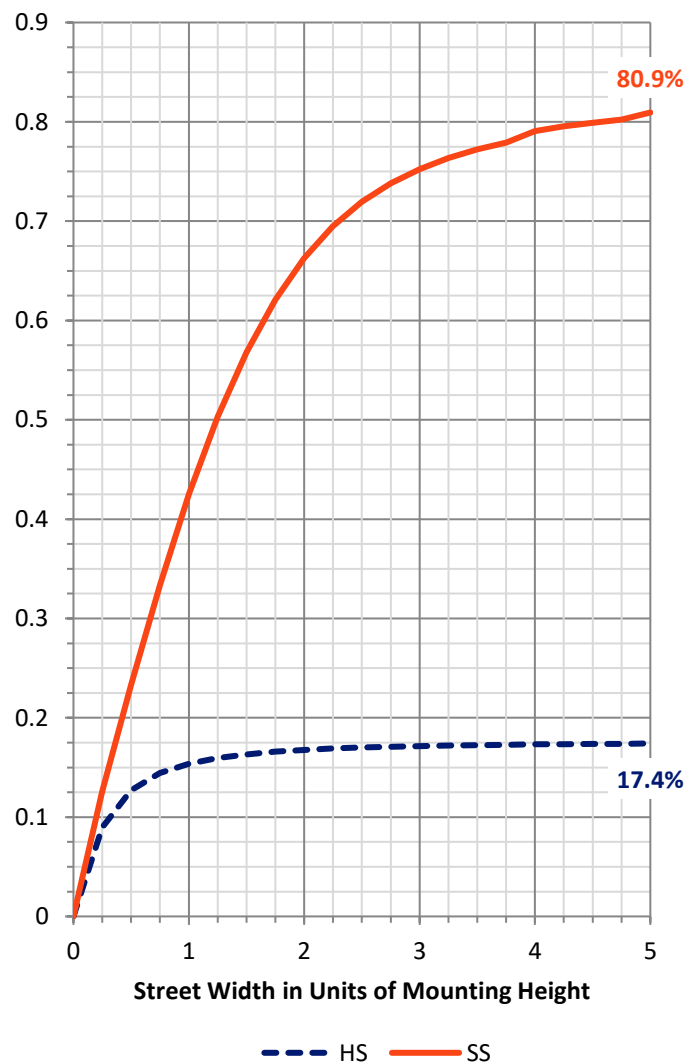
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 859.7    | 0.0    | 859.7  |
|                    | % Fixture | 17.6     | 0.0    | 17.6   |
| <b>Street Side</b> | Lumens    | 4021.3   | 0.0    | 4021.3 |
|                    | % Fixture | 82.4     | 0.0    | 82.4   |
| <b>Total</b>       | Lumens    | 4881.0   | 0.0    | 4881.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 114.8  | 2.4       |
| 10°-20°   | 238.4  | 4.9       |
| 20°-30°   | 339.1  | 6.9       |
| 30°-40°   | 488.6  | 10.0      |
| 40°-50°   | 688.6  | 14.1      |
| 50°-60°   | 957.2  | 19.6      |
| 60°-70°   | 1157.6 | 23.7      |
| 70°-80°   | 711.6  | 14.6      |
| 80°-90°   | 185.2  | 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°    | 4881.0 | 100.0     |
| 0°-180°   | 4881.0 | 100.0     |

**Coefficient of Utilization**



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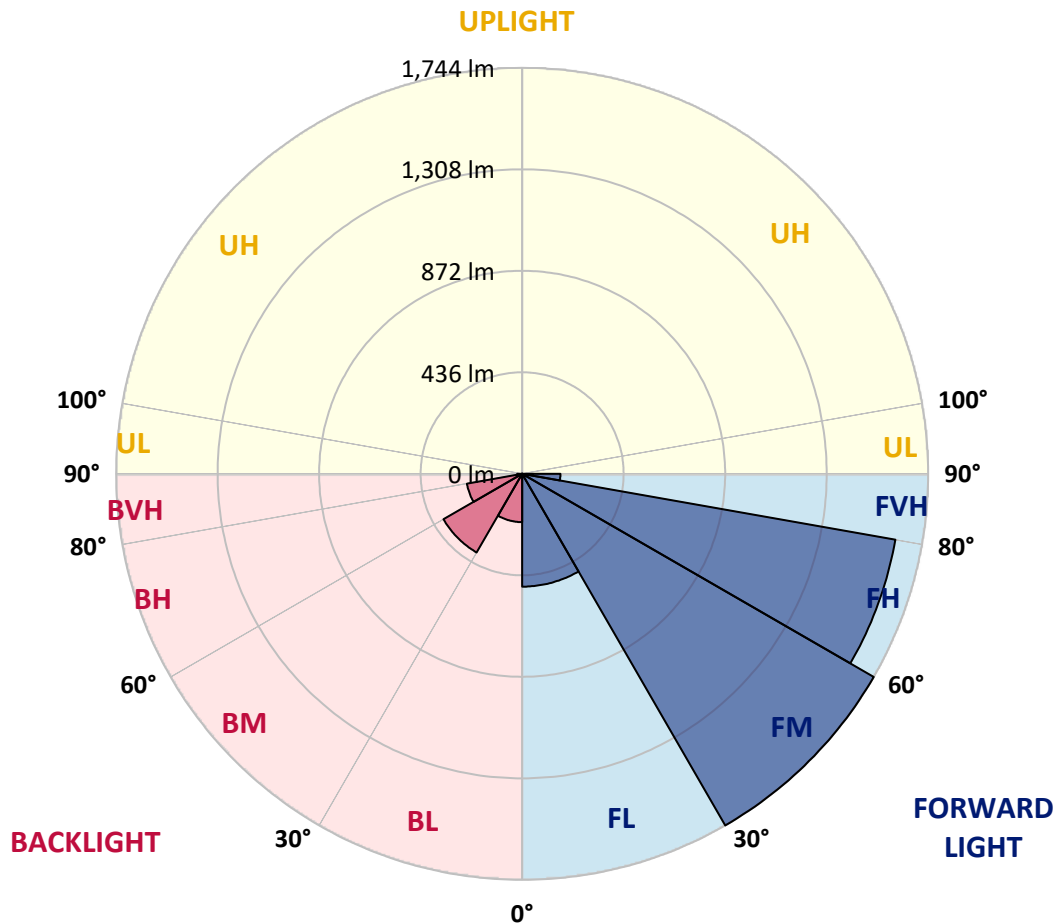
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 484.6  | 9.9       |                         |      |         |
| FM   | (30°-60°)   | 1744.2 | 35.7      |                         |      |         |
| FH   | (60°-80°)   | 1628.1 | 33.4      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 164.4  | 3.4       |                         |      | G2/225  |
| BL   | (0°-30°)    | 207.6  | 4.3       | B1/500                  |      |         |
| BM   | (30°-60°)   | 390.2  | 8.0       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 241.0  | 4.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 20.8   | 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°     | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 |
| 2.5°   | 1585.0 | 1605.9 | 1620.3 | 1634.6 | 1645.7 | 1656.6 | 1672.6 | 1688.6 | 1691.7 | 1694.7 | 1688.4 |
| 5°     | 1575.6 | 1626.5 | 1669.9 | 1713.0 | 1753.0 | 1793.0 | 1817.0 | 1841.0 | 1845.9 | 1850.8 | 1835.7 |
| 7.5°   | 1474.7 | 1549.9 | 1625.0 | 1700.1 | 1769.0 | 1837.9 | 1879.9 | 1921.6 | 1931.2 | 1940.5 | 1916.0 |
| 10°    | 1360.0 | 1447.4 | 1539.7 | 1632.0 | 1722.8 | 1813.5 | 1874.2 | 1934.9 | 1947.0 | 1959.1 | 1928.4 |
| 12.5°  | 1272.7 | 1368.2 | 1466.7 | 1565.3 | 1661.1 | 1756.7 | 1819.5 | 1882.4 | 1897.4 | 1912.4 | 1890.2 |
| 15°    | 1239.2 | 1343.8 | 1436.5 | 1529.2 | 1612.7 | 1696.0 | 1747.5 | 1798.9 | 1805.1 | 1811.2 | 1807.6 |
| 17.5°  | 1272.7 | 1388.1 | 1472.0 | 1555.7 | 1601.2 | 1646.5 | 1667.1 | 1687.6 | 1694.5 | 1701.1 | 1710.1 |
| 20°    | 1370.9 | 1495.4 | 1554.5 | 1613.5 | 1611.5 | 1609.4 | 1599.4 | 1589.3 | 1587.5 | 1585.8 | 1611.1 |
| 22.5°  | 1511.0 | 1655.6 | 1679.2 | 1702.7 | 1647.8 | 1593.0 | 1559.6 | 1526.0 | 1519.4 | 1512.6 | 1539.5 |
| 25°    | 1675.5 | 1829.5 | 1825.2 | 1820.7 | 1716.3 | 1611.7 | 1548.1 | 1484.5 | 1477.1 | 1469.7 | 1492.7 |
| 27.5°  | 1854.5 | 2001.6 | 1973.5 | 1945.4 | 1803.5 | 1661.7 | 1569.4 | 1477.1 | 1469.7 | 1462.2 | 1482.5 |
| 30°    | 1994.4 | 2127.9 | 2082.8 | 2037.7 | 1877.1 | 1716.5 | 1606.8 | 1497.2 | 1485.1 | 1472.8 | 1497.8 |
| 32.5°  | 2112.9 | 2226.4 | 2165.9 | 2105.4 | 1936.8 | 1768.2 | 1649.6 | 1530.9 | 1512.0 | 1493.1 | 1526.4 |
| 35°    | 2236.2 | 2324.8 | 2239.7 | 2154.4 | 1990.1 | 1825.6 | 1700.1 | 1574.4 | 1551.2 | 1528.0 | 1573.9 |
| 37.5°  | 2374.9 | 2448.5 | 2326.3 | 2204.0 | 2050.0 | 1896.0 | 1775.8 | 1655.4 | 1631.6 | 1607.8 | 1666.4 |
| 40°    | 2521.5 | 2582.8 | 2419.8 | 2256.9 | 2115.6 | 1974.3 | 1880.6 | 1786.8 | 1764.1 | 1741.3 | 1812.3 |
| 42.5°  | 2649.7 | 2694.4 | 2506.9 | 2319.3 | 2194.6 | 2069.7 | 2003.8 | 1937.6 | 1937.4 | 1937.0 | 2009.0 |
| 45°    | 2746.3 | 2785.1 | 2579.5 | 2373.6 | 2271.7 | 2169.6 | 2135.3 | 2101.0 | 2128.5 | 2156.0 | 2221.2 |
| 47.5°  | 2826.5 | 2852.9 | 2640.3 | 2427.6 | 2359.9 | 2292.2 | 2297.3 | 2302.3 | 2358.4 | 2414.4 | 2456.3 |
| 50°    | 2918.2 | 2897.0 | 2695.6 | 2494.0 | 2473.1 | 2452.2 | 2497.9 | 2543.3 | 2607.7 | 2672.0 | 2700.4 |
| 52.5°  | 3017.6 | 2961.2 | 2770.5 | 2579.6 | 2603.1 | 2626.5 | 2719.4 | 2812.3 | 2877.2 | 2942.2 | 2953.0 |
| 55°    | 3196.1 | 3109.7 | 2908.3 | 2706.7 | 2751.8 | 2796.7 | 2933.1 | 3069.3 | 3120.0 | 3170.7 | 3174.7 |
| 57.5°  | 3397.3 | 3320.6 | 3101.3 | 2881.9 | 2930.3 | 2978.7 | 3136.2 | 3293.5 | 3348.3 | 3403.0 | 3395.4 |
| 60°    | 3474.8 | 3478.5 | 3284.5 | 3090.3 | 3139.1 | 3187.9 | 3341.3 | 3494.7 | 3557.7 | 3620.6 | 3603.8 |
| 62.5°  | 3396.7 | 3488.3 | 3384.6 | 3280.8 | 3325.1 | 3369.2 | 3519.5 | 3669.7 | 3734.3 | 3798.9 | 3769.7 |
| 65°    | 3242.4 | 3333.1 | 3379.6 | 3426.0 | 3440.6 | 3455.3 | 3595.6 | 3735.7 | 3785.3 | 3834.6 | 3819.8 |
| 67.5°  | 3046.0 | 3119.4 | 3290.8 | 3461.9 | 3432.4 | 3403.0 | 3468.7 | 3534.5 | 3585.4 | 3636.4 | 3628.0 |
| 70°    | 2818.7 | 2906.1 | 3134.6 | 3363.2 | 3218.4 | 3073.4 | 3046.2 | 3019.1 | 3074.1 | 3129.0 | 3095.0 |
| 72.5°  | 2411.0 | 2543.0 | 2786.7 | 3030.2 | 2763.5 | 2496.7 | 2404.0 | 2311.3 | 2381.0 | 2450.7 | 2396.6 |
| 75°    | 1821.1 | 1996.2 | 2265.5 | 2534.6 | 2216.3 | 1898.0 | 1774.3 | 1650.6 | 1710.5 | 1770.4 | 1733.3 |
| 77.5°  | 1266.5 | 1486.0 | 1751.2 | 2016.5 | 1692.9 | 1369.2 | 1277.2 | 1185.1 | 1203.1 | 1220.8 | 1214.6 |
| 80°    | 863.5  | 1007.9 | 1192.9 | 1377.7 | 1162.3 | 946.9  | 954.1  | 961.1  | 952.7  | 944.1  | 956.6  |
| 82.5°  | 541.5  | 643.2  | 786.1  | 928.7  | 814.3  | 700.0  | 765.6  | 831.1  | 798.9  | 766.5  | 778.6  |
| 85°    | 305.0  | 367.1  | 506.8  | 646.3  | 602.4  | 558.3  | 596.8  | 635.0  | 585.1  | 535.1  | 557.1  |
| 87.5°  | 58.2   | 96.8   | 280.4  | 463.9  | 421.1  | 378.4  | 328.8  | 279.3  | 213.1  | 146.9  | 214.7  |
| 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):**

|        | 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°     | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 |
| 2.5°   | 1682.2 | 1678.8 | 1675.5 | 1663.6 | 1651.5 | 1633.6 | 1618.7 | 1593.0 | 1578.9 | 1557.7 | 1536.4 |
| 5°     | 1820.5 | 1799.4 | 1778.4 | 1742.1 | 1705.6 | 1665.0 | 1618.4 | 1566.6 | 1527.6 | 1476.9 | 1426.1 |
| 7.5°   | 1891.4 | 1842.2 | 1792.8 | 1723.1 | 1653.3 | 1590.4 | 1516.7 | 1448.0 | 1389.4 | 1323.5 | 1257.5 |
| 10°    | 1897.8 | 1824.0 | 1750.1 | 1659.5 | 1568.8 | 1492.5 | 1407.6 | 1331.3 | 1261.0 | 1185.3 | 1109.4 |
| 12.5°  | 1867.8 | 1789.3 | 1710.7 | 1610.9 | 1511.0 | 1424.4 | 1333.0 | 1247.6 | 1169.7 | 1086.4 | 1002.9 |
| 15°    | 1804.1 | 1741.5 | 1678.7 | 1585.2 | 1491.7 | 1404.3 | 1315.7 | 1214.4 | 1126.4 | 1041.1 | 955.6  |
| 17.5°  | 1718.9 | 1689.2 | 1659.3 | 1591.8 | 1524.1 | 1448.4 | 1362.5 | 1243.7 | 1140.6 | 1047.9 | 955.2  |
| 20°    | 1636.3 | 1647.2 | 1658.0 | 1631.0 | 1604.1 | 1543.4 | 1468.5 | 1335.0 | 1203.5 | 1082.3 | 960.9  |
| 22.5°  | 1566.2 | 1618.7 | 1671.0 | 1691.9 | 1712.6 | 1676.1 | 1617.6 | 1463.2 | 1289.1 | 1130.9 | 972.6  |
| 25°    | 1515.5 | 1602.5 | 1689.6 | 1759.1 | 1828.3 | 1812.1 | 1767.1 | 1618.9 | 1402.7 | 1200.9 | 999.0  |
| 27.5°  | 1502.8 | 1609.6 | 1716.3 | 1824.0 | 1931.6 | 1946.6 | 1934.1 | 1783.1 | 1538.1 | 1288.0 | 1037.6 |
| 30°    | 1522.7 | 1630.8 | 1738.8 | 1869.9 | 2000.8 | 2060.8 | 2077.5 | 1919.9 | 1692.9 | 1389.4 | 1085.8 |
| 32.5°  | 1559.8 | 1665.8 | 1771.7 | 1914.6 | 2057.2 | 2147.8 | 2201.3 | 2044.9 | 1800.8 | 1465.9 | 1130.9 |
| 35°    | 1619.7 | 1718.9 | 1818.0 | 1966.7 | 2115.4 | 2232.5 | 2330.1 | 2174.1 | 1896.6 | 1519.4 | 1142.0 |
| 37.5°  | 1724.7 | 1810.0 | 1895.3 | 2032.7 | 2169.8 | 2321.7 | 2468.2 | 2316.4 | 2000.3 | 1570.9 | 1141.4 |
| 40°    | 1883.4 | 1943.7 | 2003.8 | 2119.9 | 2235.8 | 2426.8 | 2624.7 | 2475.0 | 2114.8 | 1626.7 | 1138.7 |
| 42.5°  | 2081.0 | 2112.1 | 2142.9 | 2234.8 | 2326.7 | 2536.7 | 2766.8 | 2630.2 | 2224.1 | 1678.7 | 1133.2 |
| 45°    | 2286.1 | 2294.3 | 2302.5 | 2360.5 | 2418.3 | 2623.8 | 2863.6 | 2746.7 | 2319.5 | 1723.7 | 1127.8 |
| 47.5°  | 2498.1 | 2470.0 | 2441.9 | 2464.9 | 2487.9 | 2690.5 | 2932.7 | 2835.1 | 2415.3 | 1773.7 | 1131.9 |
| 50°    | 2728.9 | 2650.7 | 2572.4 | 2560.3 | 2548.2 | 2757.2 | 3014.0 | 2947.5 | 2530.5 | 1846.5 | 1162.5 |
| 52.5°  | 2963.5 | 2834.5 | 2705.5 | 2657.7 | 2609.7 | 2836.9 | 3122.0 | 3087.4 | 2694.8 | 1959.3 | 1223.6 |
| 55°    | 3178.6 | 3014.4 | 2850.3 | 2785.9 | 2721.5 | 2958.6 | 3253.7 | 3292.9 | 2905.3 | 2103.5 | 1301.4 |
| 57.5°  | 3387.6 | 3201.6 | 3015.6 | 2955.9 | 2896.2 | 3137.6 | 3420.5 | 3477.3 | 3118.1 | 2241.8 | 1365.4 |
| 60°    | 3587.0 | 3403.0 | 3218.8 | 3170.9 | 3122.9 | 3360.0 | 3600.9 | 3559.5 | 3227.7 | 2306.6 | 1385.3 |
| 62.5°  | 3740.4 | 3594.0 | 3447.7 | 3422.5 | 3397.1 | 3585.0 | 3739.4 | 3527.5 | 3158.1 | 2242.8 | 1327.6 |
| 65°    | 3805.0 | 3721.6 | 3638.1 | 3661.7 | 3685.2 | 3755.2 | 3773.9 | 3433.8 | 2939.1 | 2064.1 | 1189.0 |
| 67.5°  | 3619.4 | 3636.4 | 3653.3 | 3752.5 | 3851.4 | 3803.2 | 3671.3 | 3249.2 | 2627.5 | 1810.8 | 994.1  |
| 70°    | 3060.9 | 3162.7 | 3264.4 | 3499.0 | 3733.4 | 3626.4 | 3396.3 | 2917.8 | 2252.4 | 1519.0 | 785.5  |
| 72.5°  | 2342.3 | 2456.9 | 2571.3 | 2919.4 | 3267.3 | 3168.8 | 2887.0 | 2396.6 | 1805.9 | 1213.0 | 620.0  |
| 75°    | 1696.0 | 1825.4 | 1954.6 | 2338.6 | 2722.7 | 2585.9 | 2159.5 | 1715.9 | 1371.7 | 926.0  | 480.1  |
| 77.5°  | 1208.2 | 1294.8 | 1381.4 | 1760.8 | 2140.0 | 1917.1 | 1437.5 | 1154.7 | 949.4  | 643.6  | 337.6  |
| 80°    | 969.1  | 942.6  | 916.0  | 1127.4 | 1338.7 | 1301.6 | 950.8  | 741.6  | 657.1  | 431.3  | 205.5  |
| 82.5°  | 790.5  | 725.8  | 661.0  | 760.5  | 860.0  | 854.5  | 659.8  | 544.1  | 489.0  | 299.7  | 110.5  |
| 85°    | 579.0  | 553.0  | 527.1  | 615.1  | 703.1  | 628.0  | 446.9  | 345.8  | 381.3  | 220.7  | 60.1   |
| 87.5°  | 282.4  | 322.6  | 362.6  | 466.4  | 570.0  | 428.0  | 135.6  | 67.1   | 92.9   | 61.1   | 29.1   |
| 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: P385859

CATALOG NUMBER: GWC-SA1C-722-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  |

REPORT NUMBER: P385859

CATALOG NUMBER: GWC-SA1C-722-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 |
| 2.5°   | 1520.6 | 1504.6 | 1486.4 | 1468.3 | 1447.6 | 1426.7 | 1414.4 | 1401.9 | 1388.5 | 1375.0 | 1359.8 |
| 5°     | 1392.6 | 1359.0 | 1320.9 | 1282.9 | 1245.2 | 1207.6 | 1187.3 | 1167.0 | 1145.5 | 1123.9 | 1105.1 |
| 7.5°   | 1208.7 | 1159.8 | 1107.1 | 1054.2 | 1007.3 | 960.3  | 931.2  | 902.0  | 875.4  | 848.7  | 826.3  |
| 10°    | 1047.0 | 984.5  | 931.6  | 878.6  | 843.2  | 807.9  | 781.2  | 754.4  | 728.7  | 702.7  | 677.9  |
| 12.5°  | 940.4  | 878.0  | 844.4  | 810.8  | 781.6  | 752.3  | 721.5  | 690.4  | 655.1  | 619.6  | 593.6  |
| 15°    | 898.8  | 842.1  | 804.8  | 767.3  | 728.1  | 688.7  | 650.8  | 613.0  | 571.2  | 529.4  | 500.0  |
| 17.5°  | 880.9  | 806.5  | 754.4  | 702.1  | 650.4  | 598.7  | 554.8  | 510.9  | 465.2  | 419.6  | 389.7  |
| 20°    | 862.0  | 763.0  | 693.2  | 623.1  | 556.8  | 490.4  | 440.6  | 390.9  | 350.1  | 309.3  | 286.5  |
| 22.5°  | 844.8  | 716.8  | 629.2  | 541.3  | 462.9  | 384.4  | 335.7  | 286.7  | 261.7  | 236.7  | 227.5  |
| 25°    | 837.8  | 676.4  | 568.7  | 460.9  | 378.2  | 295.3  | 260.5  | 225.8  | 216.2  | 206.5  | 201.8  |
| 27.5°  | 838.9  | 640.3  | 517.7  | 395.0  | 320.4  | 245.9  | 222.1  | 198.3  | 192.4  | 186.4  | 183.4  |
| 30°    | 843.4  | 601.1  | 469.7  | 338.4  | 276.9  | 215.4  | 200.0  | 184.4  | 178.2  | 171.9  | 168.2  |
| 32.5°  | 848.5  | 565.9  | 432.6  | 299.2  | 249.0  | 198.7  | 186.0  | 173.1  | 167.0  | 161.0  | 157.3  |
| 35°    | 839.7  | 537.2  | 407.3  | 277.3  | 231.1  | 184.6  | 173.9  | 162.9  | 156.3  | 149.7  | 146.2  |
| 37.5°  | 824.9  | 508.4  | 387.6  | 266.6  | 219.3  | 171.9  | 164.1  | 156.1  | 149.3  | 142.3  | 138.9  |
| 40°    | 811.4  | 484.0  | 372.9  | 261.7  | 212.9  | 163.9  | 157.3  | 150.7  | 143.6  | 136.4  | 132.5  |
| 42.5°  | 800.5  | 467.6  | 358.5  | 249.4  | 207.1  | 164.5  | 155.1  | 145.6  | 138.7  | 131.9  | 127.6  |
| 45°    | 792.3  | 456.8  | 347.2  | 237.5  | 201.6  | 165.7  | 153.8  | 141.9  | 135.0  | 128.0  | 122.9  |
| 47.5°  | 791.5  | 451.2  | 339.2  | 227.2  | 191.2  | 155.1  | 150.3  | 145.4  | 135.4  | 125.3  | 119.4  |
| 50°    | 802.2  | 442.0  | 329.8  | 217.4  | 181.3  | 145.2  | 151.8  | 158.3  | 141.3  | 124.1  | 116.7  |
| 52.5°  | 824.7  | 425.8  | 315.0  | 204.1  | 169.2  | 134.1  | 144.4  | 154.6  | 139.9  | 125.1  | 115.5  |
| 55°    | 851.8  | 402.0  | 292.5  | 182.9  | 153.2  | 123.3  | 132.5  | 141.5  | 132.3  | 122.9  | 111.4  |
| 57.5°  | 868.8  | 372.0  | 264.2  | 156.5  | 135.2  | 114.0  | 119.2  | 124.3  | 120.6  | 116.9  | 105.2  |
| 60°    | 858.6  | 331.9  | 232.4  | 132.7  | 119.4  | 106.2  | 105.2  | 104.0  | 109.5  | 114.9  | 101.5  |
| 62.5°  | 809.1  | 290.6  | 204.3  | 118.1  | 108.1  | 98.0   | 95.8   | 93.5   | 102.5  | 111.2  | 97.0   |
| 65°    | 725.4  | 261.7  | 186.6  | 111.4  | 100.3  | 89.2   | 86.8   | 84.5   | 87.2   | 90.0   | 83.3   |
| 67.5°  | 619.0  | 243.9  | 176.4  | 108.9  | 95.4   | 81.8   | 79.0   | 76.3   | 75.7   | 75.1   | 72.8   |
| 70°    | 509.3  | 233.0  | 169.8  | 106.6  | 90.2   | 73.6   | 71.0   | 68.5   | 67.7   | 66.7   | 65.0   |
| 72.5°  | 425.8  | 231.6  | 169.0  | 106.4  | 85.9   | 65.4   | 63.0   | 60.7   | 59.7   | 58.5   | 57.2   |
| 75°    | 348.7  | 217.4  | 160.4  | 103.4  | 80.0   | 56.4   | 54.3   | 52.1   | 51.3   | 50.3   | 49.2   |
| 77.5°  | 258.8  | 179.9  | 134.8  | 89.8   | 68.5   | 47.2   | 45.1   | 42.7   | 42.5   | 42.2   | 41.2   |
| 80°    | 167.8  | 130.2  | 96.4   | 62.6   | 50.0   | 37.1   | 35.3   | 33.4   | 33.6   | 33.8   | 33.0   |
| 82.5°  | 93.3   | 75.9   | 58.9   | 42.0   | 34.2   | 26.3   | 25.6   | 24.6   | 25.2   | 25.6   | 24.6   |
| 85°    | 49.2   | 38.2   | 31.6   | 25.0   | 19.7   | 14.4   | 14.4   | 14.2   | 15.0   | 15.8   | 15.0   |
| 87.5°  | 21.3   | 13.5   | 11.5   | 9.4    | 5.3    | 1.0    | 1.2    | 1.2    | 1.6    | 2.0    | 1.8    |
| 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: P385859

CATALOG NUMBER: GWC-SA1C-722-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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CATALOG NUMBER: GWC-SA1C-722-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   | 200°   | 205°   | 210°   | 215°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 |
| 2.5°   | 1344.4 | 1330.1 | 1315.7 | 1299.9 | 1302.8 | 1290.7 | 1278.6 | 1271.0 | 1263.4 | 1261.0 | 1258.7 |
| 5°     | 1086.4 | 1070.2 | 1053.8 | 1039.2 | 1051.8 | 1043.3 | 1034.7 | 1033.5 | 1032.1 | 1032.1 | 1031.9 |
| 7.5°   | 803.8  | 786.4  | 768.9  | 756.8  | 769.3  | 767.7  | 766.1  | 774.5  | 782.9  | 789.8  | 796.4  |
| 10°    | 653.2  | 632.1  | 610.8  | 592.9  | 589.7  | 580.8  | 571.6  | 573.5  | 575.3  | 582.7  | 590.1  |
| 12.5°  | 567.7  | 542.5  | 517.3  | 496.3  | 486.7  | 471.9  | 456.8  | 447.5  | 438.1  | 439.1  | 439.9  |
| 15°    | 470.3  | 445.9  | 421.3  | 403.2  | 397.1  | 385.6  | 374.1  | 362.4  | 350.5  | 345.6  | 340.5  |
| 17.5°  | 359.7  | 340.1  | 320.4  | 308.3  | 308.3  | 305.0  | 301.7  | 295.8  | 289.8  | 284.9  | 279.8  |
| 20°    | 263.6  | 253.3  | 242.8  | 237.7  | 239.3  | 239.4  | 239.4  | 242.4  | 245.3  | 243.7  | 242.2  |
| 22.5°  | 218.2  | 214.5  | 210.8  | 208.6  | 209.4  | 209.6  | 209.8  | 212.5  | 215.1  | 217.0  | 218.8  |
| 25°    | 196.9  | 194.6  | 192.2  | 191.4  | 193.2  | 193.4  | 193.4  | 195.1  | 196.9  | 198.9  | 200.8  |
| 27.5°  | 180.3  | 179.3  | 178.4  | 177.0  | 178.8  | 178.8  | 178.6  | 180.5  | 182.3  | 184.0  | 185.6  |
| 30°    | 164.5  | 164.9  | 165.1  | 164.7  | 165.9  | 166.7  | 167.2  | 168.6  | 169.8  | 171.1  | 172.5  |
| 32.5°  | 153.4  | 152.8  | 152.2  | 151.8  | 154.4  | 155.7  | 157.1  | 158.5  | 159.6  | 160.2  | 160.8  |
| 35°    | 142.7  | 141.3  | 139.9  | 138.9  | 141.3  | 143.0  | 144.8  | 147.3  | 149.7  | 150.1  | 150.5  |
| 37.5°  | 135.4  | 133.7  | 131.9  | 130.7  | 131.7  | 132.5  | 133.3  | 136.0  | 138.7  | 140.3  | 141.7  |
| 40°    | 128.6  | 126.8  | 125.1  | 124.1  | 124.7  | 124.9  | 125.1  | 126.5  | 127.6  | 130.6  | 133.3  |
| 42.5°  | 123.1  | 121.0  | 118.8  | 117.7  | 118.1  | 118.5  | 118.6  | 118.5  | 118.3  | 121.0  | 123.7  |
| 45°    | 117.7  | 115.3  | 113.0  | 111.6  | 111.8  | 111.8  | 111.8  | 111.4  | 110.8  | 112.2  | 113.6  |
| 47.5°  | 113.4  | 110.6  | 107.9  | 106.6  | 106.2  | 105.8  | 105.4  | 105.2  | 104.8  | 105.8  | 106.6  |
| 50°    | 109.1  | 106.2  | 103.0  | 101.5  | 100.5  | 100.1  | 99.7   | 99.5   | 99.1   | 100.1  | 100.9  |
| 52.5°  | 105.8  | 102.3  | 98.7   | 96.2   | 95.2   | 94.6   | 94.1   | 94.3   | 94.3   | 94.6   | 94.8   |
| 55°    | 99.9   | 96.8   | 93.5   | 91.7   | 90.0   | 89.6   | 89.2   | 89.8   | 90.2   | 90.2   | 90.2   |
| 57.5°  | 93.5   | 90.5   | 87.4   | 86.3   | 84.7   | 84.7   | 84.5   | 85.3   | 85.9   | 86.3   | 86.6   |
| 60°    | 87.8   | 84.5   | 81.2   | 80.2   | 79.6   | 79.4   | 79.2   | 80.2   | 81.0   | 81.8   | 82.5   |
| 62.5°  | 82.5   | 79.0   | 75.5   | 74.4   | 74.2   | 74.4   | 74.4   | 75.3   | 76.1   | 76.9   | 77.7   |
| 65°    | 76.7   | 73.2   | 69.5   | 68.3   | 68.7   | 69.3   | 69.9   | 70.6   | 71.2   | 72.0   | 72.8   |
| 67.5°  | 70.3   | 67.3   | 64.2   | 63.0   | 63.2   | 64.0   | 64.8   | 65.4   | 65.8   | 66.5   | 67.3   |
| 70°    | 63.2   | 60.7   | 58.2   | 57.4   | 57.2   | 58.2   | 58.9   | 59.3   | 59.7   | 60.7   | 61.5   |
| 72.5°  | 55.6   | 53.5   | 51.3   | 50.7   | 50.9   | 51.5   | 52.1   | 52.7   | 53.1   | 54.1   | 54.8   |
| 75°    | 47.8   | 45.9   | 43.9   | 43.5   | 43.9   | 44.5   | 45.1   | 45.5   | 45.9   | 47.0   | 48.0   |
| 77.5°  | 40.2   | 38.1   | 35.7   | 35.5   | 36.1   | 36.7   | 37.1   | 37.7   | 38.2   | 39.8   | 41.4   |
| 80°    | 32.2   | 29.9   | 27.3   | 27.1   | 27.7   | 28.3   | 28.9   | 29.5   | 30.1   | 32.0   | 33.8   |
| 82.5°  | 23.6   | 20.9   | 18.1   | 17.8   | 19.7   | 20.3   | 20.9   | 21.9   | 22.6   | 24.4   | 26.1   |
| 85°    | 14.2   | 11.5   | 8.8    | 8.6    | 10.3   | 11.3   | 12.3   | 13.5   | 14.4   | 16.0   | 17.6   |
| 87.5°  | 1.6    | 0.8    | 0.0    | 0.0    | 0.2    | 1.0    | 1.8    | 2.7    | 3.7    | 5.3    | 6.6    |
| 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):**

|        | 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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**CANDELA DISTRIBUTION (continued):**

|        | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   | 250°   | 255°   | 260°   | 265°   | 270°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 |
| 2.5°   | 1250.1 | 1241.3 | 1250.3 | 1259.1 | 1262.8 | 1266.5 | 1256.9 | 1247.2 | 1262.4 | 1277.4 | 1281.3 |
| 5°     | 1024.1 | 1016.1 | 1022.2 | 1028.0 | 1015.0 | 1001.9 | 1000.5 | 999.0  | 1010.3 | 1021.6 | 1023.4 |
| 7.5°   | 793.9  | 791.3  | 797.0  | 802.6  | 786.1  | 769.3  | 761.1  | 752.9  | 755.6  | 758.3  | 758.0  |
| 10°    | 591.9  | 593.4  | 600.5  | 607.3  | 594.4  | 581.5  | 575.9  | 570.2  | 576.5  | 582.5  | 588.2  |
| 12.5°  | 443.4  | 446.7  | 454.1  | 461.3  | 456.1  | 450.6  | 451.2  | 451.8  | 459.0  | 466.0  | 472.3  |
| 15°    | 344.4  | 348.3  | 353.6  | 358.7  | 358.9  | 358.9  | 363.9  | 368.8  | 368.2  | 367.7  | 372.0  |
| 17.5°  | 285.1  | 290.2  | 290.8  | 291.4  | 291.5  | 291.7  | 291.4  | 291.0  | 288.0  | 285.1  | 288.4  |
| 20°    | 244.1  | 245.9  | 247.4  | 248.8  | 247.1  | 245.1  | 240.2  | 235.3  | 233.4  | 231.4  | 234.6  |
| 22.5°  | 222.1  | 225.2  | 223.6  | 221.9  | 218.4  | 214.7  | 211.0  | 207.1  | 206.9  | 206.5  | 208.2  |
| 25°    | 203.5  | 206.1  | 203.3  | 200.6  | 198.1  | 195.5  | 193.0  | 190.5  | 190.3  | 190.1  | 190.9  |
| 27.5°  | 188.1  | 190.5  | 187.9  | 185.4  | 183.2  | 181.1  | 179.1  | 177.2  | 176.8  | 176.4  | 176.6  |
| 30°    | 174.9  | 177.0  | 174.9  | 172.5  | 170.9  | 169.2  | 167.8  | 166.5  | 166.3  | 166.1  | 166.1  |
| 32.5°  | 162.9  | 165.1  | 163.5  | 162.0  | 160.6  | 159.2  | 158.3  | 157.3  | 156.3  | 155.3  | 153.2  |
| 35°    | 152.6  | 154.8  | 153.8  | 152.6  | 151.0  | 149.5  | 147.7  | 145.8  | 143.2  | 140.5  | 139.3  |
| 37.5°  | 143.8  | 146.0  | 145.0  | 144.0  | 141.9  | 139.7  | 136.6  | 133.3  | 132.5  | 131.5  | 131.3  |
| 40°    | 136.8  | 140.1  | 138.2  | 136.0  | 132.7  | 129.4  | 127.8  | 126.3  | 125.9  | 125.5  | 125.1  |
| 42.5°  | 129.0  | 134.1  | 130.6  | 127.0  | 123.9  | 120.8  | 120.4  | 120.0  | 119.8  | 119.6  | 119.6  |
| 45°    | 119.2  | 124.7  | 121.2  | 117.5  | 115.7  | 114.0  | 114.0  | 114.0  | 114.2  | 114.2  | 114.6  |
| 47.5°  | 110.1  | 113.4  | 111.6  | 109.9  | 108.9  | 107.9  | 108.1  | 108.3  | 108.9  | 109.3  | 110.3  |
| 50°    | 102.3  | 103.4  | 103.8  | 104.0  | 103.4  | 102.8  | 103.2  | 103.4  | 104.0  | 104.4  | 105.2  |
| 52.5°  | 96.6   | 98.4   | 98.4   | 98.2   | 98.2   | 98.2   | 98.5   | 98.9   | 99.5   | 100.1  | 100.9  |
| 55°    | 92.9   | 95.4   | 94.6   | 93.9   | 94.1   | 94.1   | 94.5   | 94.8   | 95.4   | 95.8   | 97.0   |
| 57.5°  | 89.4   | 92.1   | 91.3   | 90.5   | 90.5   | 90.5   | 90.7   | 90.9   | 91.5   | 91.9   | 92.7   |
| 60°    | 85.3   | 88.0   | 87.2   | 86.3   | 86.5   | 86.6   | 86.8   | 86.8   | 87.2   | 87.4   | 87.4   |
| 62.5°  | 80.4   | 83.1   | 82.4   | 81.4   | 82.0   | 82.4   | 82.4   | 82.4   | 82.7   | 82.9   | 82.4   |
| 65°    | 75.3   | 77.9   | 77.1   | 76.3   | 77.1   | 77.7   | 78.1   | 78.3   | 78.1   | 77.9   | 77.3   |
| 67.5°  | 69.9   | 72.4   | 71.6   | 70.6   | 71.6   | 72.4   | 73.2   | 73.8   | 73.2   | 72.6   | 71.8   |
| 70°    | 64.0   | 66.5   | 65.6   | 64.6   | 65.6   | 66.5   | 67.3   | 68.1   | 67.3   | 66.5   | 66.3   |
| 72.5°  | 57.8   | 60.7   | 59.5   | 58.3   | 59.5   | 60.7   | 61.1   | 61.5   | 60.9   | 60.3   | 59.9   |
| 75°    | 50.9   | 53.9   | 52.9   | 51.7   | 52.7   | 53.7   | 53.9   | 54.1   | 54.1   | 53.9   | 52.7   |
| 77.5°  | 43.7   | 46.1   | 45.5   | 44.9   | 45.5   | 46.1   | 46.1   | 46.1   | 46.2   | 46.2   | 44.7   |
| 80°    | 35.1   | 36.5   | 36.7   | 36.9   | 37.1   | 37.3   | 37.1   | 36.9   | 36.5   | 36.1   | 35.1   |
| 82.5°  | 26.1   | 26.1   | 27.7   | 29.1   | 29.1   | 28.9   | 28.7   | 28.3   | 27.5   | 26.5   | 24.4   |
| 85°    | 16.6   | 15.6   | 18.1   | 20.5   | 20.5   | 20.3   | 19.9   | 19.3   | 17.8   | 16.0   | 14.2   |
| 87.5°  | 5.7    | 4.7    | 7.2    | 9.8    | 10.0   | 10.0   | 9.6    | 9.2    | 7.6    | 5.9    | 4.5    |
| 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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**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°     | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 |
| 2.5°   | 1287.2 | 1289.7 | 1292.1 | 1311.2 | 1330.1 | 1352.4 | 1374.6 | 1391.6 | 1408.4 | 1425.7 | 1443.1 |
| 5°     | 1029.4 | 1032.5 | 1035.6 | 1058.9 | 1081.9 | 1112.9 | 1144.0 | 1170.7 | 1197.4 | 1228.8 | 1260.3 |
| 7.5°   | 763.0  | 769.9  | 776.5  | 801.3  | 825.9  | 859.2  | 892.4  | 927.3  | 962.1  | 1003.1 | 1044.0 |
| 10°    | 599.3  | 612.2  | 624.9  | 650.2  | 675.6  | 708.6  | 741.4  | 777.9  | 814.3  | 854.7  | 894.9  |
| 12.5°  | 485.1  | 502.3  | 519.3  | 549.7  | 580.2  | 619.6  | 658.8  | 699.4  | 739.8  | 775.3  | 810.8  |
| 15°    | 383.3  | 402.0  | 420.5  | 452.7  | 484.9  | 528.3  | 571.4  | 615.7  | 659.8  | 702.3  | 744.9  |
| 17.5°  | 299.0  | 314.4  | 329.6  | 356.9  | 384.0  | 426.0  | 468.0  | 514.4  | 560.9  | 612.8  | 664.5  |
| 20°    | 241.2  | 247.6  | 254.1  | 273.8  | 293.3  | 327.5  | 361.4  | 408.8  | 456.3  | 518.3  | 580.4  |
| 22.5°  | 211.3  | 214.7  | 217.8  | 227.3  | 236.7  | 258.8  | 280.6  | 322.6  | 364.3  | 432.1  | 499.6  |
| 25°    | 193.4  | 195.9  | 198.5  | 204.7  | 211.0  | 221.5  | 232.0  | 261.5  | 291.0  | 357.5  | 423.9  |
| 27.5°  | 177.2  | 181.1  | 184.8  | 187.7  | 190.5  | 197.7  | 204.7  | 224.0  | 243.3  | 305.4  | 367.3  |
| 30°    | 165.5  | 166.9  | 168.2  | 172.7  | 177.0  | 184.4  | 191.8  | 205.3  | 218.8  | 271.3  | 323.6  |
| 32.5°  | 151.8  | 153.8  | 155.7  | 160.4  | 165.1  | 171.9  | 178.8  | 189.7  | 200.4  | 245.3  | 290.0  |
| 35°    | 139.5  | 141.5  | 143.4  | 148.1  | 152.6  | 160.0  | 167.2  | 176.4  | 185.4  | 224.4  | 263.4  |
| 37.5°  | 131.9  | 133.9  | 135.8  | 139.9  | 143.8  | 151.2  | 158.5  | 165.7  | 172.7  | 208.8  | 244.9  |
| 40°    | 125.5  | 127.4  | 129.4  | 133.3  | 137.0  | 144.2  | 151.2  | 157.3  | 163.3  | 197.1  | 230.9  |
| 42.5°  | 119.8  | 122.0  | 124.1  | 128.0  | 131.7  | 138.2  | 144.6  | 152.6  | 160.4  | 187.0  | 213.3  |
| 45°    | 115.1  | 117.3  | 119.2  | 123.5  | 127.8  | 134.1  | 140.3  | 151.4  | 162.6  | 181.7  | 200.8  |
| 47.5°  | 110.8  | 113.2  | 115.3  | 120.0  | 124.7  | 132.5  | 140.1  | 149.5  | 158.7  | 177.6  | 196.5  |
| 50°    | 106.7  | 109.5  | 112.2  | 117.9  | 123.3  | 136.4  | 149.3  | 150.7  | 151.8  | 174.3  | 196.5  |
| 52.5°  | 102.8  | 106.0  | 109.1  | 116.1  | 122.9  | 138.2  | 153.4  | 148.5  | 143.4  | 168.0  | 192.6  |
| 55°    | 98.9   | 101.7  | 104.2  | 112.8  | 121.4  | 132.5  | 143.6  | 137.2  | 130.6  | 156.3  | 182.1  |
| 57.5°  | 93.7   | 96.6   | 99.3   | 108.5  | 117.7  | 125.5  | 133.1  | 127.2  | 121.2  | 143.0  | 164.7  |
| 60°    | 88.2   | 91.5   | 94.8   | 106.6  | 118.1  | 116.7  | 115.1  | 114.0  | 112.6  | 128.2  | 143.8  |
| 62.5°  | 83.3   | 86.8   | 90.4   | 105.6  | 120.8  | 111.4  | 102.1  | 103.0  | 103.8  | 115.3  | 126.8  |
| 65°    | 78.4   | 82.0   | 85.3   | 92.9   | 100.5  | 96.8   | 93.1   | 94.6   | 96.0   | 107.3  | 118.6  |
| 67.5°  | 73.0   | 76.1   | 79.0   | 81.6   | 84.1   | 84.5   | 84.9   | 86.5   | 88.0   | 101.5  | 114.7  |
| 70°    | 66.9   | 69.5   | 72.0   | 73.8   | 75.3   | 76.1   | 76.7   | 78.6   | 80.6   | 95.2   | 109.9  |
| 72.5°  | 60.1   | 62.3   | 64.2   | 65.8   | 67.3   | 67.9   | 68.3   | 70.3   | 72.2   | 87.8   | 103.4  |
| 75°    | 52.7   | 54.4   | 56.0   | 57.4   | 58.7   | 59.5   | 60.3   | 61.7   | 63.0   | 80.0   | 96.8   |
| 77.5°  | 44.5   | 46.2   | 47.8   | 49.0   | 50.0   | 50.7   | 51.3   | 53.1   | 54.8   | 69.1   | 83.1   |
| 80°    | 34.7   | 36.9   | 38.8   | 39.8   | 40.6   | 40.8   | 40.8   | 42.3   | 43.9   | 54.1   | 64.0   |
| 82.5°  | 24.6   | 26.9   | 29.1   | 29.9   | 30.6   | 30.6   | 30.6   | 32.4   | 34.2   | 41.0   | 47.6   |
| 85°    | 14.4   | 17.0   | 19.3   | 20.1   | 20.9   | 21.3   | 21.5   | 22.2   | 22.8   | 27.7   | 32.4   |
| 87.5°  | 4.5    | 6.6    | 8.6    | 9.0    | 9.4    | 10.1   | 10.9   | 11.1   | 11.1   | 14.4   | 17.8   |
| 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-SA1C-722-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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CATALOG NUMBER: GWC-SA1C-722-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 330°   | 335°   | 340°   | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 |
| 2.5°   | 1463.0 | 1482.9 | 1506.1 | 1529.2 | 1548.9 | 1568.6 | 1585.0 |
| 5°     | 1300.3 | 1340.3 | 1389.3 | 1438.0 | 1481.6 | 1525.1 | 1575.6 |
| 7.5°   | 1095.7 | 1147.5 | 1210.9 | 1274.3 | 1335.8 | 1397.1 | 1474.7 |
| 10°    | 947.6  | 1000.1 | 1067.3 | 1134.2 | 1203.3 | 1272.2 | 1360.0 |
| 12.5°  | 853.6  | 896.1  | 961.1  | 1026.1 | 1107.3 | 1188.2 | 1272.7 |
| 15°    | 791.5  | 838.0  | 901.2  | 964.4  | 1053.2 | 1142.0 | 1239.2 |
| 17.5°  | 725.4  | 786.1  | 867.0  | 948.0  | 1053.2 | 1158.2 | 1272.7 |
| 20°    | 656.1  | 731.6  | 836.6  | 941.6  | 1083.3 | 1224.7 | 1370.9 |
| 22.5°  | 587.0  | 674.4  | 809.1  | 943.5  | 1128.7 | 1313.7 | 1511.0 |
| 25°    | 524.8  | 625.6  | 792.3  | 958.8  | 1194.9 | 1430.8 | 1675.5 |
| 27.5°  | 477.5  | 587.6  | 785.5  | 983.2  | 1278.8 | 1574.4 | 1854.5 |
| 30°    | 435.6  | 547.6  | 777.3  | 1007.0 | 1359.6 | 1712.0 | 1994.4 |
| 32.5°  | 399.3  | 508.6  | 761.5  | 1014.2 | 1416.0 | 1817.8 | 2112.9 |
| 35°    | 370.8  | 478.1  | 734.9  | 991.7  | 1451.3 | 1910.9 | 2236.2 |
| 37.5°  | 346.2  | 447.5  | 704.7  | 961.9  | 1482.7 | 2003.6 | 2374.9 |
| 40°    | 322.8  | 414.7  | 678.7  | 942.6  | 1526.0 | 2109.5 | 2521.5 |
| 42.5°  | 300.5  | 387.8  | 657.8  | 927.9  | 1566.2 | 2204.4 | 2649.7 |
| 45°    | 283.9  | 367.1  | 639.3  | 911.3  | 1592.2 | 2273.1 | 2746.3 |
| 47.5°  | 275.7  | 354.8  | 629.3  | 903.7  | 1618.2 | 2332.4 | 2826.5 |
| 50°    | 274.6  | 352.6  | 640.7  | 928.7  | 1674.4 | 2419.8 | 2918.2 |
| 52.5°  | 274.4  | 356.1  | 673.3  | 990.4  | 1778.8 | 2567.0 | 3017.6 |
| 55°    | 270.3  | 358.3  | 712.1  | 1065.7 | 1918.9 | 2771.9 | 3196.1 |
| 57.5°  | 257.8  | 350.9  | 752.1  | 1153.1 | 2067.0 | 2980.7 | 3397.3 |
| 60°    | 238.5  | 332.9  | 785.1  | 1237.0 | 2166.5 | 3095.8 | 3474.8 |
| 62.5°  | 214.3  | 301.5  | 796.0  | 1290.3 | 2163.8 | 3037.3 | 3396.7 |
| 65°    | 193.6  | 268.5  | 760.1  | 1251.5 | 2054.3 | 2857.0 | 3242.4 |
| 67.5°  | 175.2  | 235.5  | 670.3  | 1104.9 | 1857.4 | 2609.7 | 3046.0 |
| 70°    | 162.0  | 213.9  | 554.6  | 895.3  | 1610.9 | 2326.3 | 2818.7 |
| 72.5°  | 153.6  | 203.5  | 452.2  | 700.6  | 1307.3 | 1913.8 | 2411.0 |
| 75°    | 142.1  | 187.3  | 354.8  | 522.0  | 1000.5 | 1479.0 | 1821.1 |
| 77.5°  | 120.6  | 157.9  | 267.4  | 376.8  | 734.1  | 1091.3 | 1266.5 |
| 80°    | 93.1   | 122.0  | 183.8  | 245.7  | 505.2  | 764.8  | 863.5  |
| 82.5°  | 66.3   | 85.1   | 111.4  | 137.8  | 335.7  | 533.3  | 541.5  |
| 85°    | 41.0   | 49.6   | 63.8   | 78.1   | 222.1  | 366.1  | 305.0  |
| 87.5°  | 22.1   | 26.3   | 33.8   | 41.0   | 71.0   | 101.1  | 58.2   |
| 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: P385859

CATALOG NUMBER: GWC-SA1C-722-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  |

LM-79-08: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

STREETWORKS

Report Number: SP1-2101-121-4

Luminaire Tested: IFLD-S-SA2B-722-U-T3R

Test Date: 03/03/2021

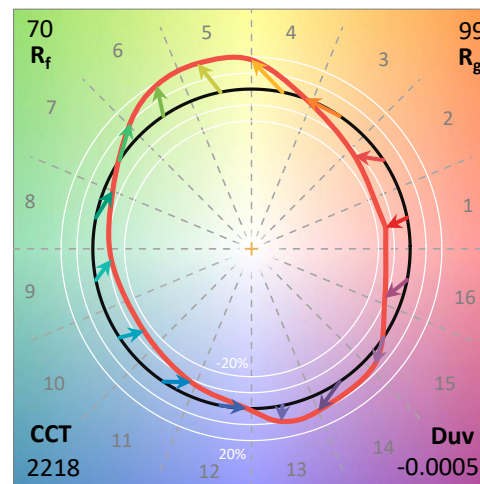
### Test Information

Test Method: LM-79-08  
 Report Number: SP1-2101-121-4  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1  
 Measurement Geometry:  $4\pi$   
 Issue Date: 03/03/2021  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: **IFLD-S-SA2B-722-U-T3R**  
 Description: STREETWORKS INF FLOOD

PROGRAMMED @ 800mA.

### Spectral Parameters

|                           |         |           |      |      |       |
|---------------------------|---------|-----------|------|------|-------|
| CCT (K):                  | 2218    | CRI (Ra): | 72.2 |      |       |
| CIE u':                   | 0.2889  | R1:       | 69.1 | R9:  | -16.8 |
| CIE v':                   | 0.5350  | R2:       | 83.2 | R10: | 61.9  |
| Duv:                      | -0.0005 | R3:       | 95.4 | R11: | 60.1  |
| CIE x:                    | 0.5026  | R4:       | 66.4 | R12: | 51.2  |
| CIE y:                    | 0.4136  | R5:       | 66.2 | R13: | 71.3  |
| CIE z:                    | 0.0839  | R6:       | 76.7 | R14: | 97.1  |
| Peak Wavelength (nm):     | 606     | R7:       | 76.7 |      |       |
| Dominant Wavelength (nm): | 587     | R8:       | 43.9 |      |       |
| Purity:                   | 75.3    |           |      |      |       |
| Rf:                       | 70      |           |      |      |       |
| Rg:                       | 99.3    |           |      |      |       |



### Test Conditions

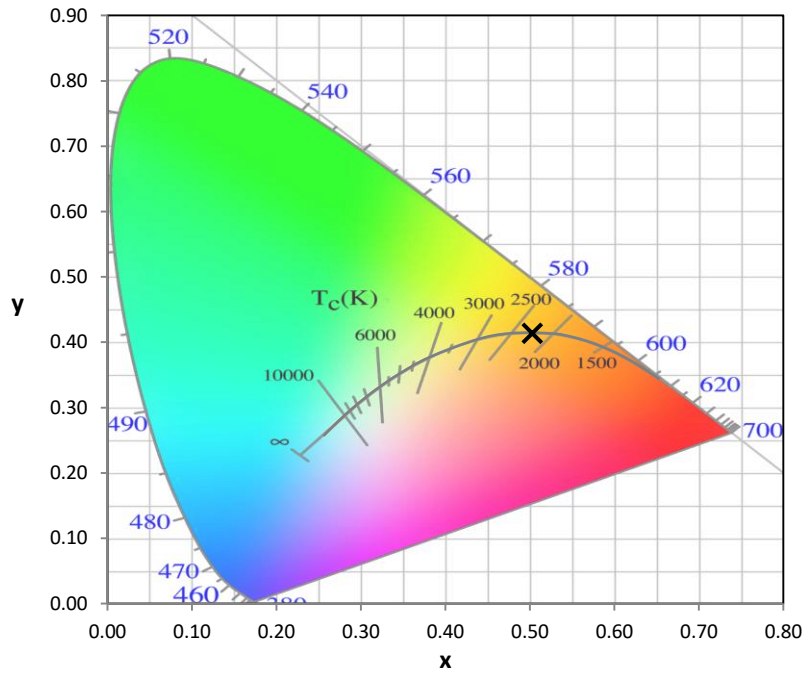
Stabilization Time: 95M  
 Operation Time: 12H  
 Room Temperature (°C) / RH%: 25.3/31%  
 Sphere Temperature (°C): 24.8

REPORT NUMBER: SP1-2101-121-4

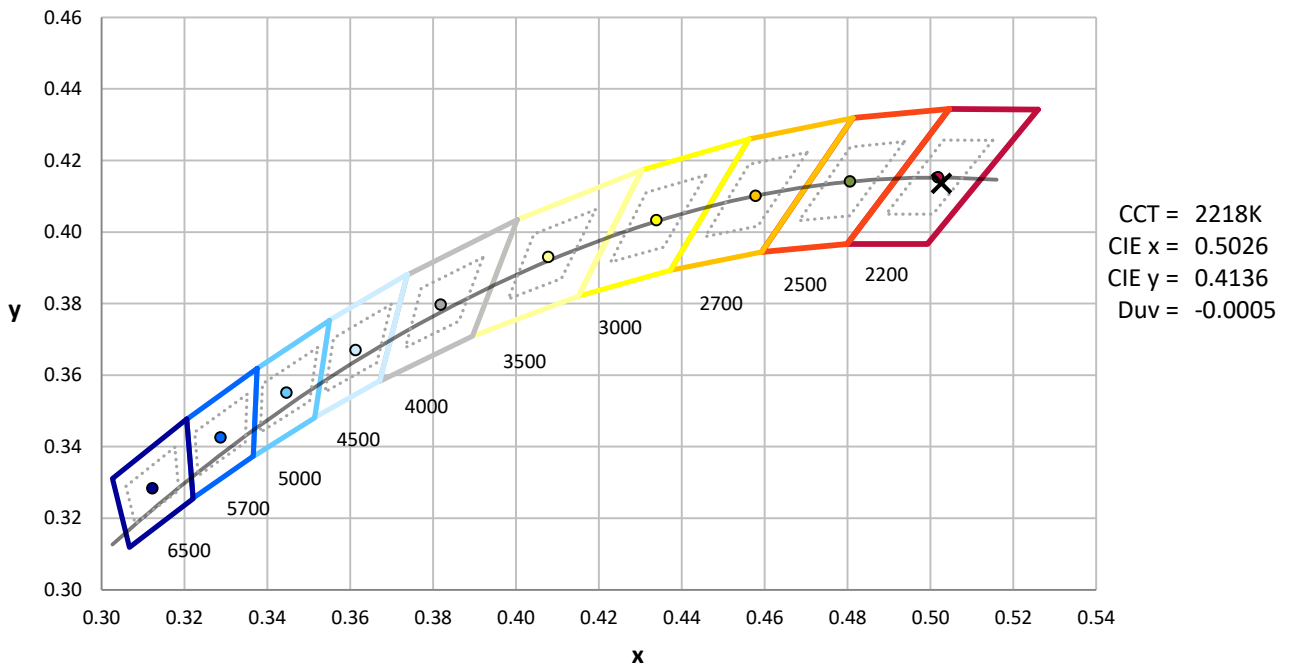
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| 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            |

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**CIE 1931 Chromaticity Diagram**



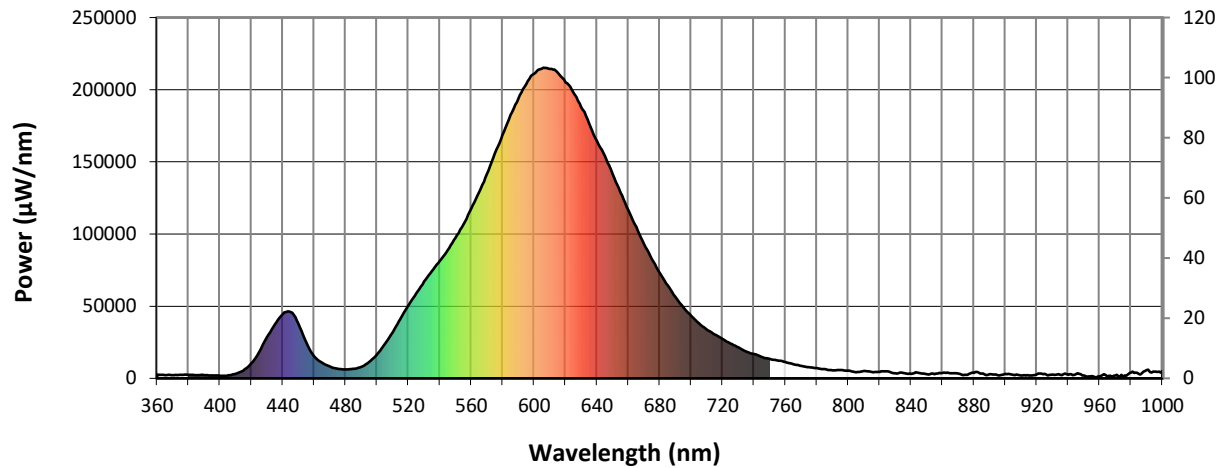
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 2200K 4-step quadrangle

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### Photopic Flux vs. Wavelength

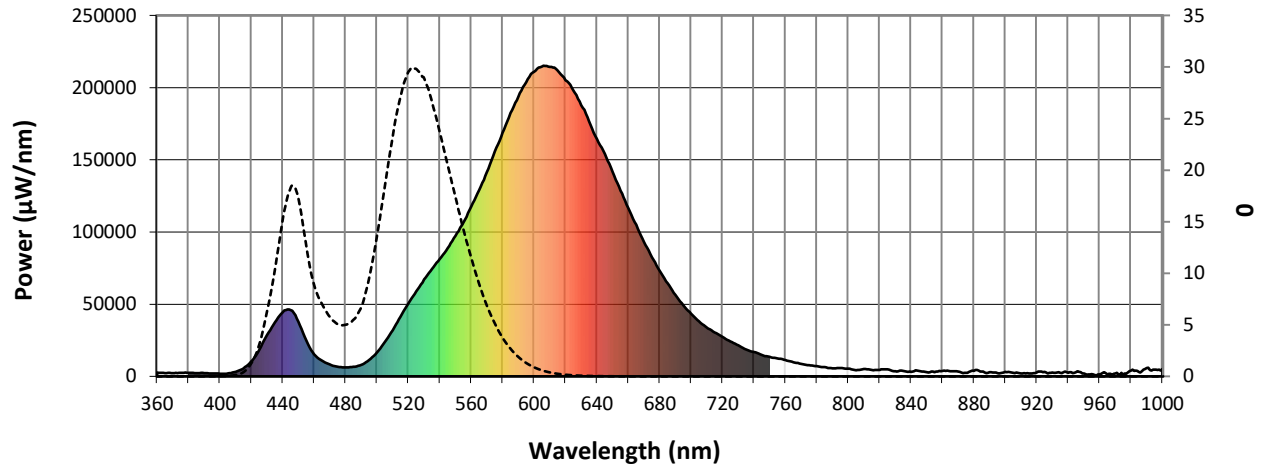


#####

| 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       | 2623             | 0.0              | 490       | 7941             | 1.1              | 620       | 205150           | 53.4             | 750       | 13431            | 0.0              | 880       | 3867             | 0.0              |
| 365       | 2260             | 0.0              | 495       | 11299            | 2.0              | 625       | 198277           | 43.7             | 755       | 12426            | 0.0              | 885       | 3345             | 0.0              |
| 370       | 2306             | 0.0              | 500       | 16633            | 3.7              | 630       | 187878           | 34.0             | 760       | 11385            | 0.0              | 890       | 2956             | 0.0              |
| 375       | 2437             | 0.0              | 505       | 23672            | 6.6              | 635       | 176836           | 26.6             | 765       | 9797             | 0.0              | 895       | 2272             | 0.0              |
| 380       | 2473             | 0.0              | 510       | 32025            | 11.0             | 640       | 164455           | 19.7             | 770       | 8562             | 0.0              | 900       | 3003             | 0.0              |
| 385       | 2203             | 0.0              | 515       | 41295            | 17.1             | 645       | 154086           | 14.8             | 775       | 7810             | 0.0              | 905       | 2480             | 0.0              |
| 390       | 2262             | 0.0              | 520       | 50628            | 24.6             | 650       | 141592           | 10.3             | 780       | 7052             | 0.0              | 910       | 2068             | 0.0              |
| 395       | 2028             | 0.0              | 525       | 58836            | 31.6             | 655       | 128604           | 7.4              | 785       | 6345             | 0.0              | 915       | 2064             | 0.0              |
| 400       | 1806             | 0.0              | 530       | 67109            | 39.5             | 660       | 116713           | 4.9              | 790       | 5524             | 0.0              | 920       | 2581             | 0.0              |
| 405       | 1945             | 0.0              | 535       | 74404            | 46.1             | 665       | 104993           | 3.3              | 795       | 5788             | 0.0              | 925       | 3137             | 0.0              |
| 410       | 3199             | 0.0              | 540       | 81280            | 53.0             | 670       | 93149            | 2.0              | 800       | 5282             | 0.0              | 930       | 2747             | 0.0              |
| 415       | 5572             | 0.0              | 545       | 88806            | 59.1             | 675       | 82543            | 1.4              | 805       | 4258             | 0.0              | 935       | 2471             | 0.0              |
| 420       | 10322            | 0.0              | 550       | 97367            | 66.2             | 680       | 73089            | 0.8              | 810       | 5156             | 0.0              | 940       | 2339             | 0.0              |
| 425       | 18494            | 0.1              | 555       | 106598           | 72.8             | 685       | 64438            | 0.6              | 815       | 4391             | 0.0              | 945       | 2917             | 0.0              |
| 430       | 28541            | 0.2              | 560       | 117615           | 79.9             | 690       | 56546            | 0.3              | 820       | 4383             | 0.0              | 950       | 1966             | 0.0              |
| 435       | 37453            | 0.4              | 565       | 129103           | 85.8             | 695       | 49328            | 0.2              | 825       | 4881             | 0.0              | 955       | 1580             | 0.0              |
| 440       | 44455            | 0.7              | 570       | 141415           | 92.0             | 700       | 43493            | 0.1              | 830       | 3588             | 0.0              | 960       | 1318             | 0.0              |
| 445       | 45934            | 1.0              | 575       | 155854           | 97.0             | 705       | 38035            | 0.1              | 835       | 3835             | 0.0              | 965       | 1419             | 0.0              |
| 450       | 37926            | 1.0              | 580       | 168613           | 100.2            | 710       | 33716            | 0.0              | 840       | 3014             | 0.0              | 970       | 1917             | 0.0              |
| 455       | 24793            | 0.8              | 585       | 182390           | 101.3            | 715       | 30449            | 0.0              | 845       | 3765             | 0.0              | 975       | 1210             | 0.0              |
| 460       | 15340            | 0.6              | 590       | 194054           | 100.3            | 720       | 27240            | 0.0              | 850       | 2906             | 0.0              | 980       | 3915             | 0.0              |
| 465       | 10883            | 0.6              | 595       | 203639           | 96.5             | 725       | 24231            | 0.0              | 855       | 2947             | 0.0              | 985       | 3180             | 0.0              |
| 470       | 8138             | 0.5              | 600       | 211043           | 91.0             | 730       | 21490            | 0.0              | 860       | 3864             | 0.0              | 990       | 5676             | 0.0              |
| 475       | 6653             | 0.5              | 605       | 214591           | 83.1             | 735       | 18548            | 0.0              | 865       | 3546             | 0.0              | 995       | 4736             | 0.0              |
| 480       | 6220             | 0.6              | 610       | 214337           | 73.6             | 740       | 16963            | 0.0              | 870       | 3253             | 0.0              | 1000      | 5113             | 0.0              |
| 485       | 6613             | 0.8              | 615       | 211915           | 64.0             | 745       | 14922            | 0.0              | 875       | 2450             | 0.0              |           |                  |                  |

REPORT NUMBER: SP1-2101-121-4

### Scotopic Flux vs. Wavelength



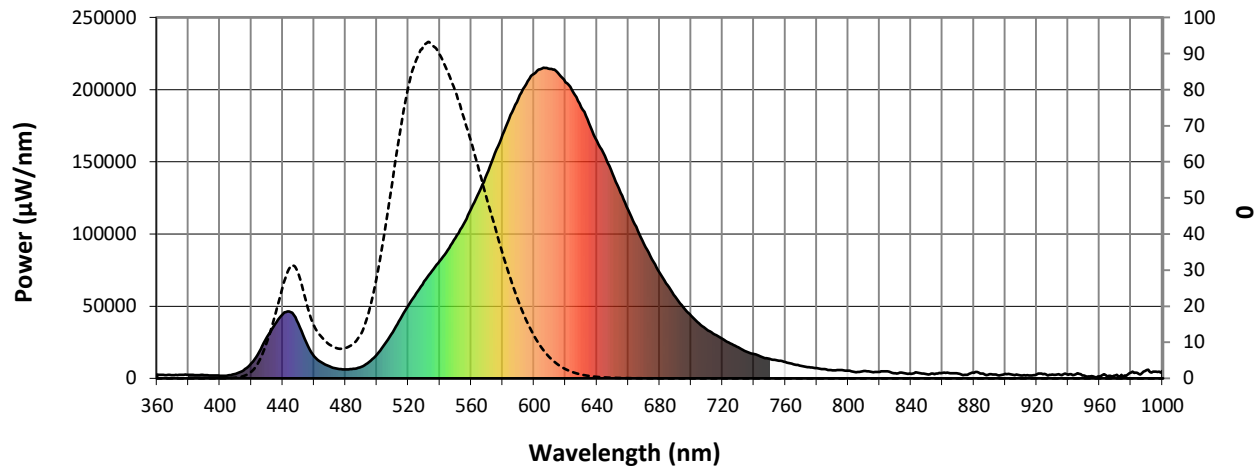
Scotopic Lumens: 7290.1

S/P: 0.84

| 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       | 2623             | 0.0              | 490       | 7941             | 12.2             | 620       | 205150           | 2.6              | 750       | 13431            | 0.0              | 880       | 3867             | 0.0              |
| 365       | 2260             | 0.0              | 495       | 11299            | 18.3             | 625       | 198277           | 1.7              | 755       | 12426            | 0.0              | 885       | 3345             | 0.0              |
| 370       | 2306             | 0.0              | 500       | 16633            | 27.8             | 630       | 187878           | 1.1              | 760       | 11385            | 0.0              | 890       | 2956             | 0.0              |
| 375       | 2437             | 0.0              | 505       | 23672            | 40.2             | 635       | 176836           | 0.7              | 765       | 9797             | 0.0              | 895       | 2272             | 0.0              |
| 380       | 2473             | 0.0              | 510       | 32025            | 54.3             | 640       | 164455           | 0.4              | 770       | 8562             | 0.0              | 900       | 3003             | 0.0              |
| 385       | 2203             | 0.0              | 515       | 41295            | 68.4             | 645       | 154086           | 0.3              | 775       | 7810             | 0.0              | 905       | 2480             | 0.0              |
| 390       | 2262             | 0.0              | 520       | 50628            | 80.5             | 650       | 141592           | 0.2              | 780       | 7052             | 0.0              | 910       | 2068             | 0.0              |
| 395       | 2028             | 0.0              | 525       | 58836            | 88.0             | 655       | 128604           | 0.1              | 785       | 6345             | 0.0              | 915       | 2064             | 0.0              |
| 400       | 1806             | 0.0              | 530       | 67109            | 92.5             | 660       | 116713           | 0.1              | 790       | 5524             | 0.0              | 920       | 2581             | 0.0              |
| 405       | 1945             | 0.1              | 535       | 74404            | 92.7             | 665       | 104993           | 0.0              | 795       | 5788             | 0.0              | 925       | 3137             | 0.0              |
| 410       | 3199             | 0.2              | 540       | 81280            | 89.8             | 670       | 93149            | 0.0              | 800       | 5282             | 0.0              | 930       | 2747             | 0.0              |
| 415       | 5572             | 0.6              | 545       | 88806            | 85.1             | 675       | 82543            | 0.0              | 805       | 4258             | 0.0              | 935       | 2471             | 0.0              |
| 420       | 10322            | 1.7              | 550       | 97367            | 79.6             | 680       | 73089            | 0.0              | 810       | 5156             | 0.0              | 940       | 2339             | 0.0              |
| 425       | 18494            | 4.5              | 555       | 106598           | 72.8             | 685       | 64438            | 0.0              | 815       | 4391             | 0.0              | 945       | 2917             | 0.0              |
| 430       | 28541            | 9.7              | 560       | 117615           | 65.7             | 690       | 56546            | 0.0              | 820       | 4383             | 0.0              | 950       | 1966             | 0.0              |
| 435       | 37453            | 16.7             | 565       | 129103           | 57.9             | 695       | 49328            | 0.0              | 825       | 4881             | 0.0              | 955       | 1580             | 0.0              |
| 440       | 44455            | 24.8             | 570       | 141415           | 49.9             | 700       | 43493            | 0.0              | 830       | 3588             | 0.0              | 960       | 1318             | 0.0              |
| 445       | 45934            | 30.8             | 575       | 155854           | 42.4             | 705       | 38035            | 0.0              | 835       | 3835             | 0.0              | 965       | 1419             | 0.0              |
| 450       | 37926            | 29.4             | 580       | 168613           | 34.7             | 710       | 33716            | 0.0              | 840       | 3014             | 0.0              | 970       | 1917             | 0.0              |
| 455       | 24793            | 21.7             | 585       | 182390           | 27.9             | 715       | 30449            | 0.0              | 845       | 3765             | 0.0              | 975       | 1210             | 0.0              |
| 460       | 15340            | 14.8             | 590       | 194054           | 21.6             | 720       | 27240            | 0.0              | 850       | 2906             | 0.0              | 980       | 3915             | 0.0              |
| 465       | 10883            | 11.5             | 595       | 203639           | 16.2             | 725       | 24231            | 0.0              | 855       | 2947             | 0.0              | 985       | 3180             | 0.0              |
| 470       | 8138             | 9.4              | 600       | 211043           | 11.9             | 730       | 21490            | 0.0              | 860       | 3864             | 0.0              | 990       | 5676             | 0.0              |
| 475       | 6653             | 8.3              | 605       | 214591           | 8.4              | 735       | 18548            | 0.0              | 865       | 3546             | 0.0              | 995       | 4736             | 0.0              |
| 480       | 6220             | 8.4              | 610       | 214337           | 5.8              | 740       | 16963            | 0.0              | 870       | 3253             | 0.0              | 1000      | 5113             | 0.0              |
| 485       | 6613             | 9.6              | 615       | 211915           | 3.9              | 745       | 14922            | 0.0              | 875       | 2450             | 0.0              |           |                  |                  |

REPORT NUMBER: SP1-2101-121-4

### Melanopic Flux vs. Wavelength



**Melanopic Lumens: 2276.7**

**M/P: 0.26**

| 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       | 2623             | 0.0              | 490       | 7941             | 6.6              | 620       | 205150           | 0.2              | 750       | 13431            | 0.0              | 880       | 3867             | 0.0              |
| 365       | 2260             | 0.0              | 495       | 11299            | 9.3              | 625       | 198277           | 0.1              | 755       | 12426            | 0.0              | 885       | 3345             | 0.0              |
| 370       | 2306             | 0.0              | 500       | 16633            | 13.4             | 630       | 187878           | 0.1              | 760       | 11385            | 0.0              | 890       | 2956             | 0.0              |
| 375       | 2437             | 0.0              | 505       | 23672            | 18.2             | 635       | 176836           | 0.0              | 765       | 9797             | 0.0              | 895       | 2272             | 0.0              |
| 380       | 2473             | 0.0              | 510       | 32025            | 23.0             | 640       | 164455           | 0.0              | 770       | 8562             | 0.0              | 900       | 3003             | 0.0              |
| 385       | 2203             | 0.0              | 515       | 41295            | 27.0             | 645       | 154086           | 0.0              | 775       | 7810             | 0.0              | 905       | 2480             | 0.0              |
| 390       | 2262             | 0.0              | 520       | 50628            | 29.5             | 650       | 141592           | 0.0              | 780       | 7052             | 0.0              | 910       | 2068             | 0.0              |
| 395       | 2028             | 0.0              | 525       | 58836            | 29.8             | 655       | 128604           | 0.0              | 785       | 6345             | 0.0              | 915       | 2064             | 0.0              |
| 400       | 1806             | 0.0              | 530       | 67109            | 29.0             | 660       | 116713           | 0.0              | 790       | 5524             | 0.0              | 920       | 2581             | 0.0              |
| 405       | 1945             | 0.0              | 535       | 74404            | 26.8             | 665       | 104993           | 0.0              | 795       | 5788             | 0.0              | 925       | 3137             | 0.0              |
| 410       | 3199             | 0.1              | 540       | 81280            | 23.8             | 670       | 93149            | 0.0              | 800       | 5282             | 0.0              | 930       | 2747             | 0.0              |
| 415       | 5572             | 0.4              | 545       | 88806            | 20.6             | 675       | 82543            | 0.0              | 805       | 4258             | 0.0              | 935       | 2471             | 0.0              |
| 420       | 10322            | 1.2              | 550       | 97367            | 17.5             | 680       | 73089            | 0.0              | 810       | 5156             | 0.0              | 940       | 2339             | 0.0              |
| 425       | 18494            | 2.9              | 555       | 106598           | 14.4             | 685       | 64438            | 0.0              | 815       | 4391             | 0.0              | 945       | 2917             | 0.0              |
| 430       | 28541            | 6.0              | 560       | 117615           | 11.6             | 690       | 56546            | 0.0              | 820       | 4383             | 0.0              | 950       | 1966             | 0.0              |
| 435       | 37453            | 10.0             | 565       | 129103           | 9.1              | 695       | 49328            | 0.0              | 825       | 4881             | 0.0              | 955       | 1580             | 0.0              |
| 440       | 44455            | 14.9             | 570       | 141415           | 6.9              | 700       | 43493            | 0.0              | 830       | 3588             | 0.0              | 960       | 1318             | 0.0              |
| 445       | 45934            | 18.1             | 575       | 155854           | 5.2              | 705       | 38035            | 0.0              | 835       | 3835             | 0.0              | 965       | 1419             | 0.0              |
| 450       | 37926            | 17.5             | 580       | 168613           | 3.8              | 710       | 33716            | 0.0              | 840       | 3014             | 0.0              | 970       | 1917             | 0.0              |
| 455       | 24793            | 13.0             | 585       | 182390           | 2.7              | 715       | 30449            | 0.0              | 845       | 3765             | 0.0              | 975       | 1210             | 0.0              |
| 460       | 15340            | 9.0              | 590       | 194054           | 1.9              | 720       | 27240            | 0.0              | 850       | 2906             | 0.0              | 980       | 3915             | 0.0              |
| 465       | 10883            | 7.1              | 595       | 203639           | 1.3              | 725       | 24231            | 0.0              | 855       | 2947             | 0.0              | 985       | 3180             | 0.0              |
| 470       | 8138             | 5.8              | 600       | 211043           | 0.9              | 730       | 21490            | 0.0              | 860       | 3864             | 0.0              | 990       | 5676             | 0.0              |
| 475       | 6653             | 5.1              | 605       | 214591           | 0.6              | 735       | 18548            | 0.0              | 865       | 3546             | 0.0              | 995       | 4736             | 0.0              |
| 480       | 6220             | 5.0              | 610       | 214337           | 0.4              | 740       | 16963            | 0.0              | 870       | 3253             | 0.0              | 1000      | 5113             | 0.0              |
| 485       | 6613             | 5.5              | 615       | 211915           | 0.3              | 745       | 14922            | 0.0              | 875       | 2450             | 0.0              |           |                  |                  |

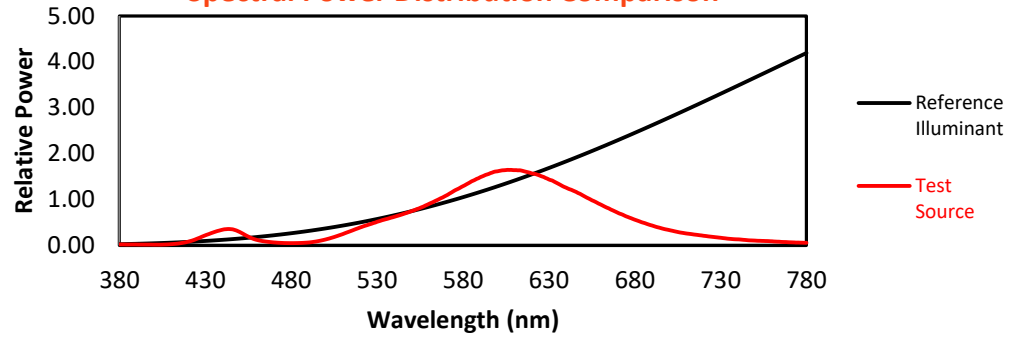
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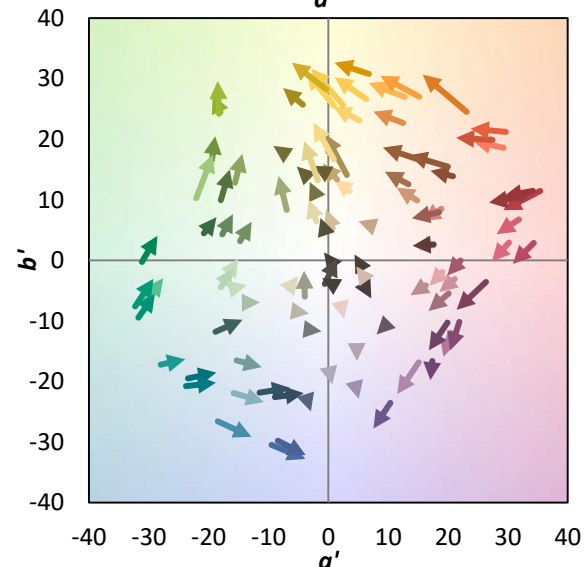
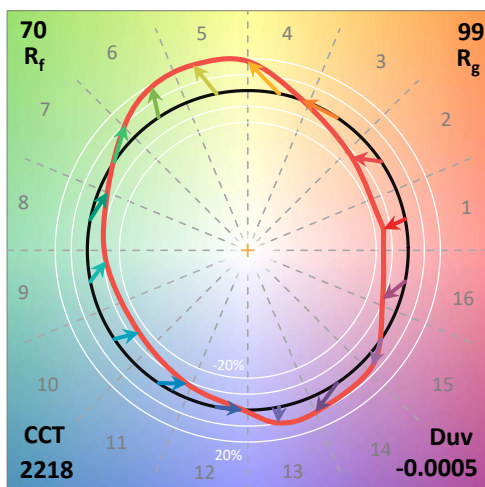
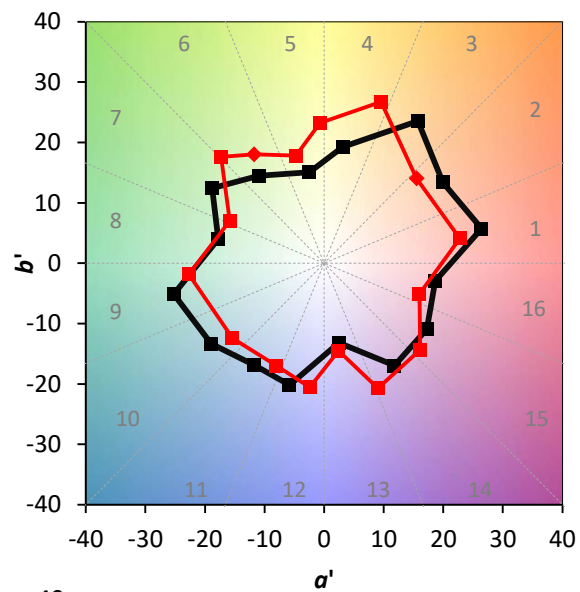
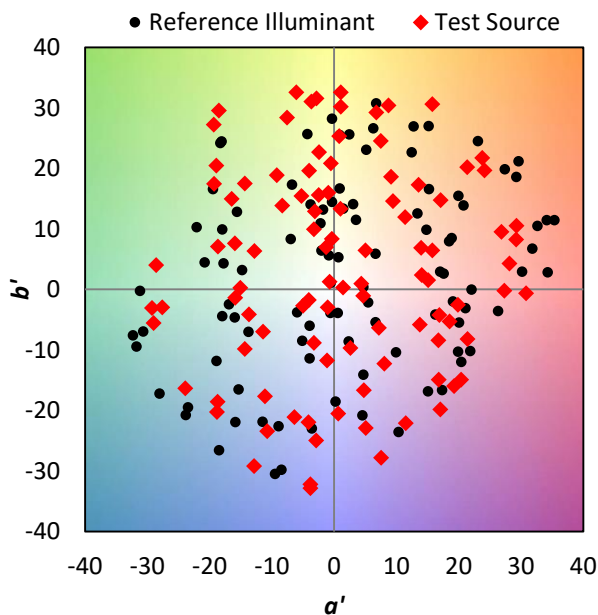
### Summary

$R_f = 70$   
 $R_g = 99.3$   
 CIE  $R_a = 72.2$   
 $R_g = -16.8$

### Spectral Power Distribution Comparison

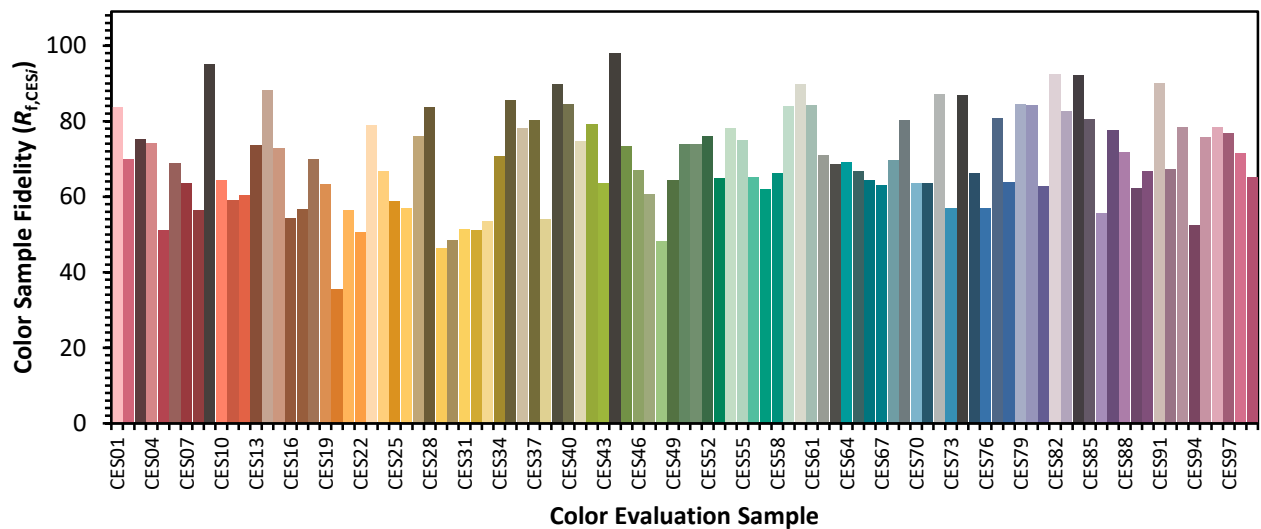


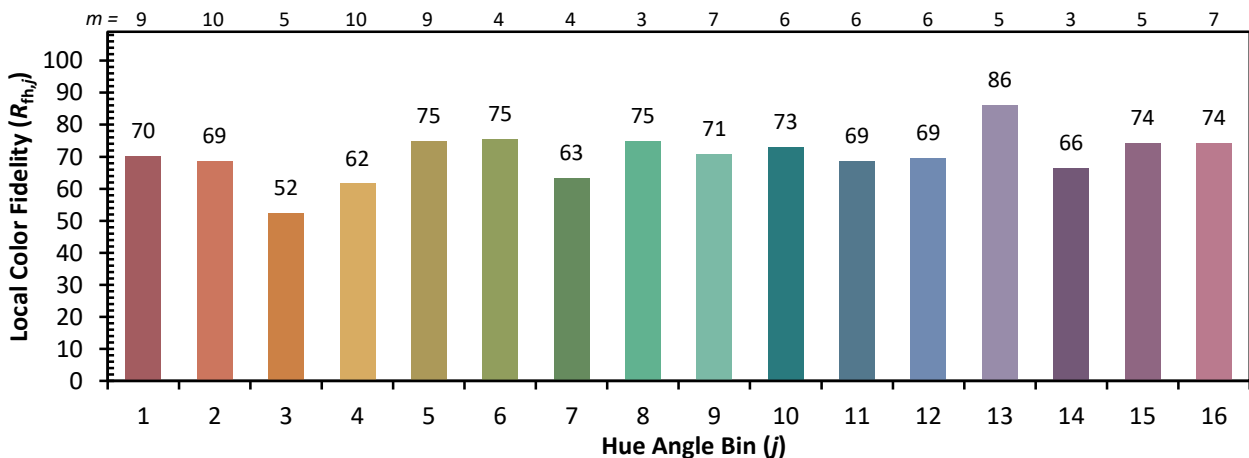
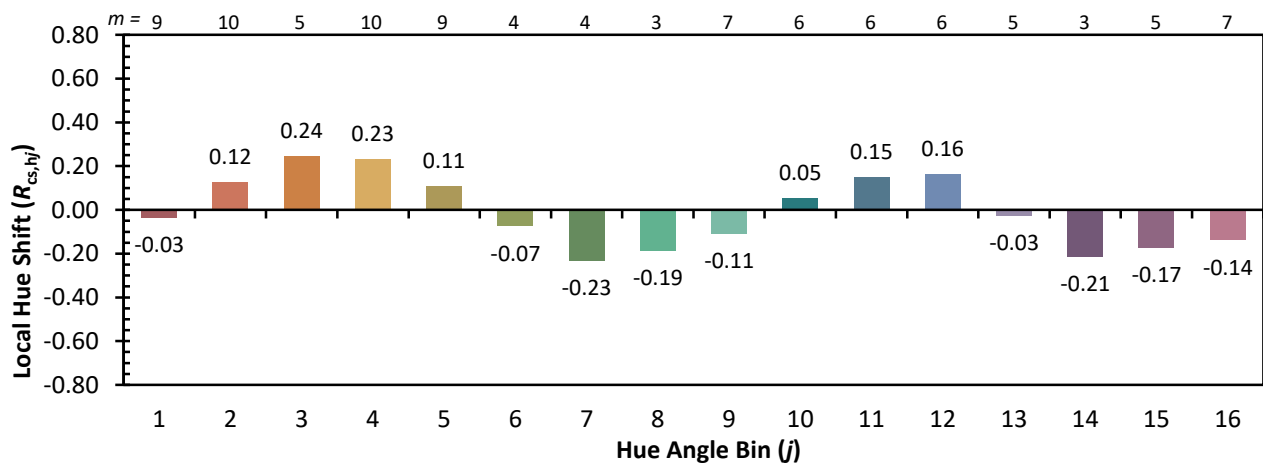
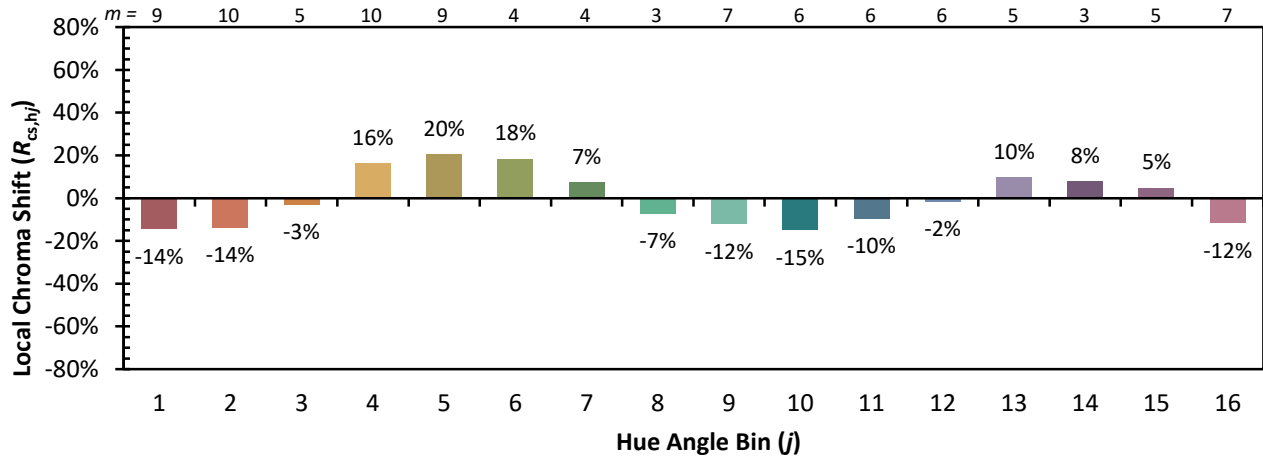
### Color Vector Graphics



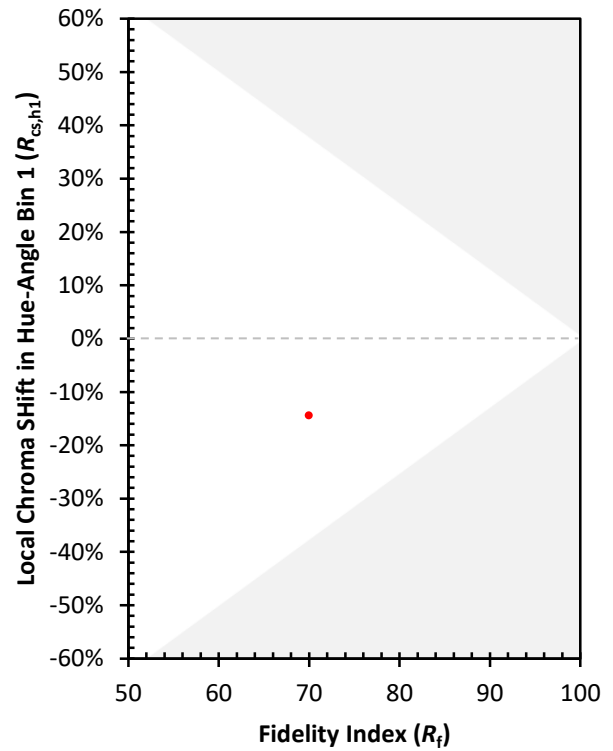
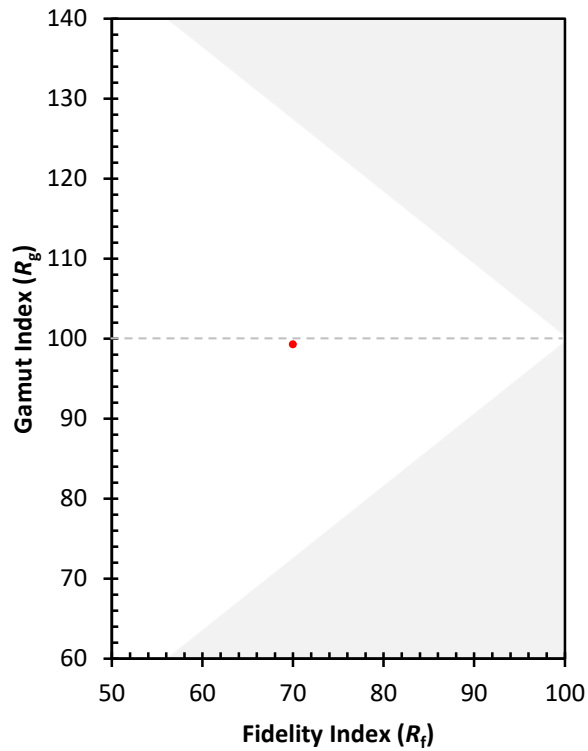
**Individual Sample Fidelity Index ( $R_{f,i}$ )**

|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 87 | CES26 = 57 | CES51 = 74 | CES76 = 57 |
| CES02 = 65 | CES27 = 76 | CES52 = 76 | CES77 = 81 |
| CES03 = 32 | CES28 = 84 | CES53 = 65 | CES78 = 64 |
| CES04 = 72 | CES29 = 46 | CES54 = 78 | CES79 = 85 |
| CES05 = 52 | CES30 = 48 | CES55 = 75 | CES80 = 84 |
| CES06 = 52 | CES31 = 52 | CES56 = 65 | CES81 = 63 |
| CES07 = 44 | CES32 = 51 | CES57 = 62 | CES82 = 92 |
| CES08 = 43 | CES33 = 54 | CES58 = 66 | CES83 = 83 |
| CES09 = 29 | CES34 = 71 | CES59 = 84 | CES84 = 92 |
| CES10 = 79 | CES35 = 86 | CES60 = 90 | CES85 = 81 |
| CES11 = 62 | CES36 = 78 | CES61 = 84 | CES86 = 56 |
| CES12 = 68 | CES37 = 80 | CES62 = 71 | CES87 = 78 |
| CES13 = 45 | CES38 = 54 | CES63 = 68 | CES88 = 72 |
| CES14 = 75 | CES39 = 90 | CES64 = 69 | CES89 = 62 |
| CES15 = 72 | CES40 = 85 | CES65 = 67 | CES90 = 67 |
| CES16 = 49 | CES41 = 75 | CES66 = 64 | CES91 = 90 |
| CES17 = 51 | CES42 = 79 | CES67 = 63 | CES92 = 67 |
| CES18 = 57 | CES43 = 64 | CES68 = 70 | CES93 = 78 |
| CES19 = 74 | CES44 = 98 | CES69 = 80 | CES94 = 52 |
| CES20 = 68 | CES45 = 73 | CES70 = 64 | CES95 = 76 |
| CES21 = 89 | CES46 = 67 | CES71 = 64 | CES96 = 78 |
| CES22 = 81 | CES47 = 61 | CES72 = 87 | CES97 = 77 |
| CES23 = 92 | CES48 = 48 | CES73 = 57 | CES98 = 72 |
| CES24 = 92 | CES49 = 64 | CES74 = 87 | CES99 = 65 |
| CES25 = 74 | CES50 = 74 | CES75 = 66 |            |



**Color Rendition by Hue-Angle Bin**


**Measure Comparisons**



(END OF REPORT)