

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: P385551

Luminaire Tested: **GWC-SA1A-760-U-SLL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385551  
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-SA1A-760-U-SLL  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 5700K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4374 lumens  
Efficiency: N/A  
Efficacy: 128.6 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): 34  
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

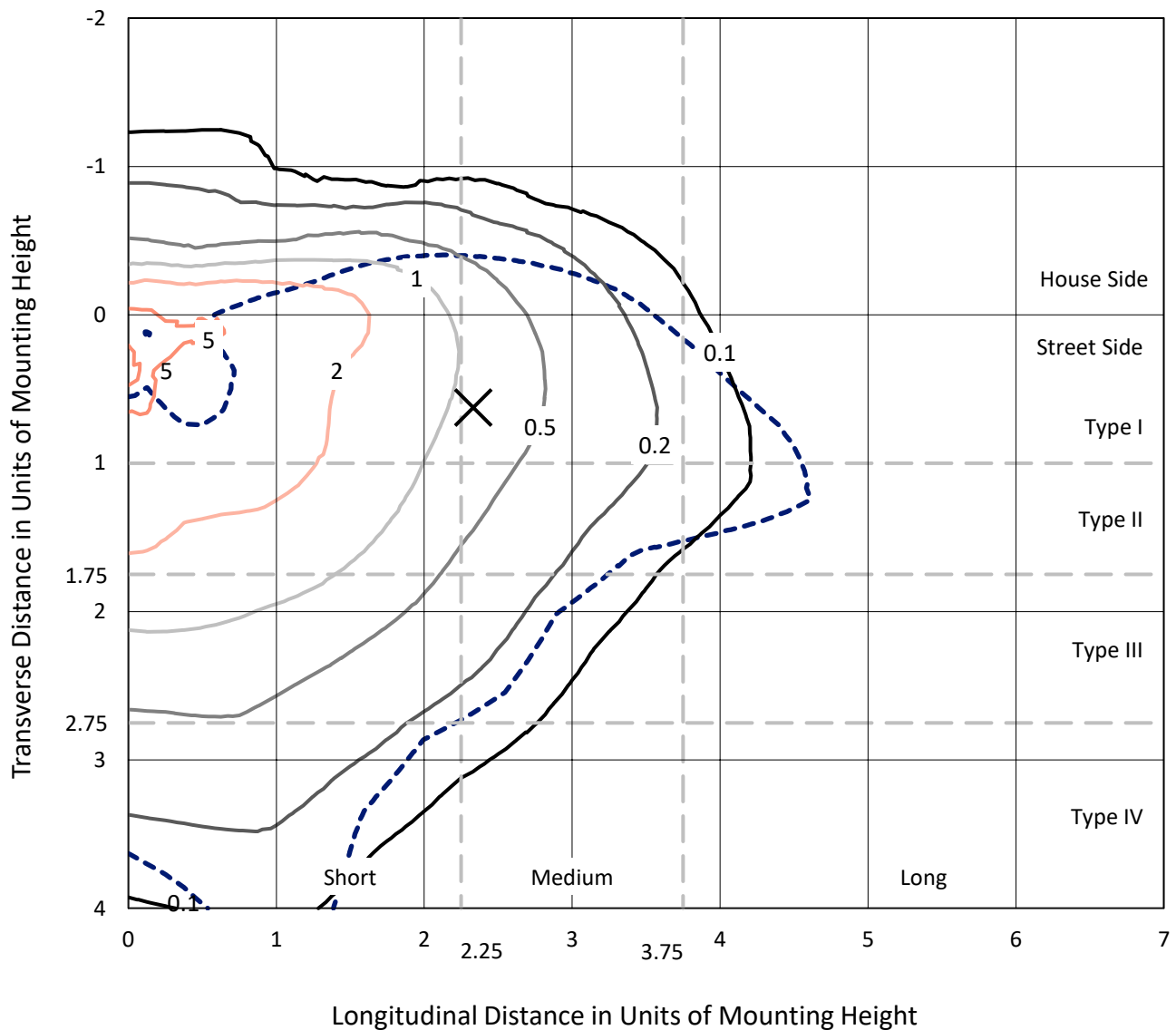


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

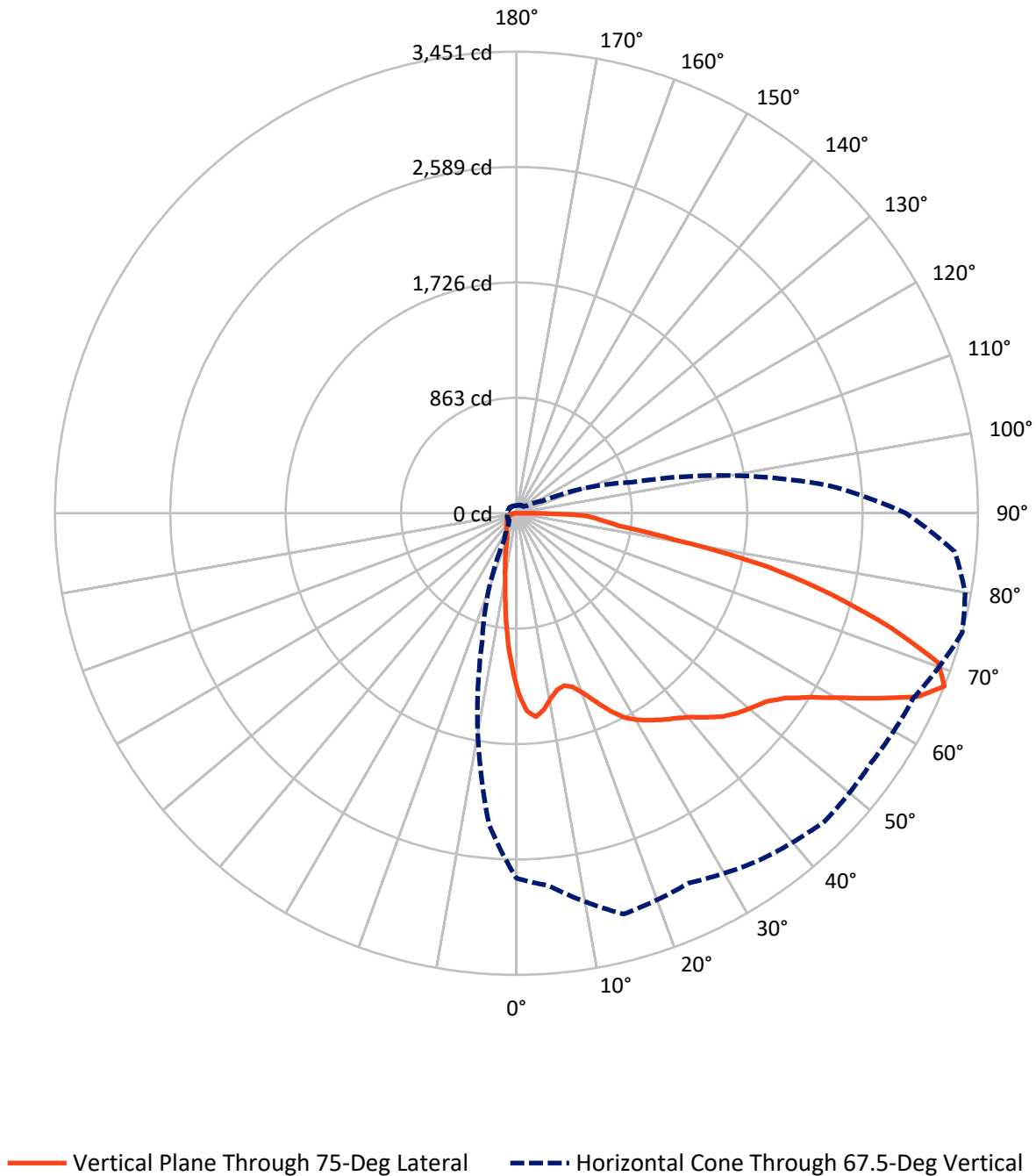


Based on 15 foot mounting height. Maximum calculated value = 7.4 fc  
 Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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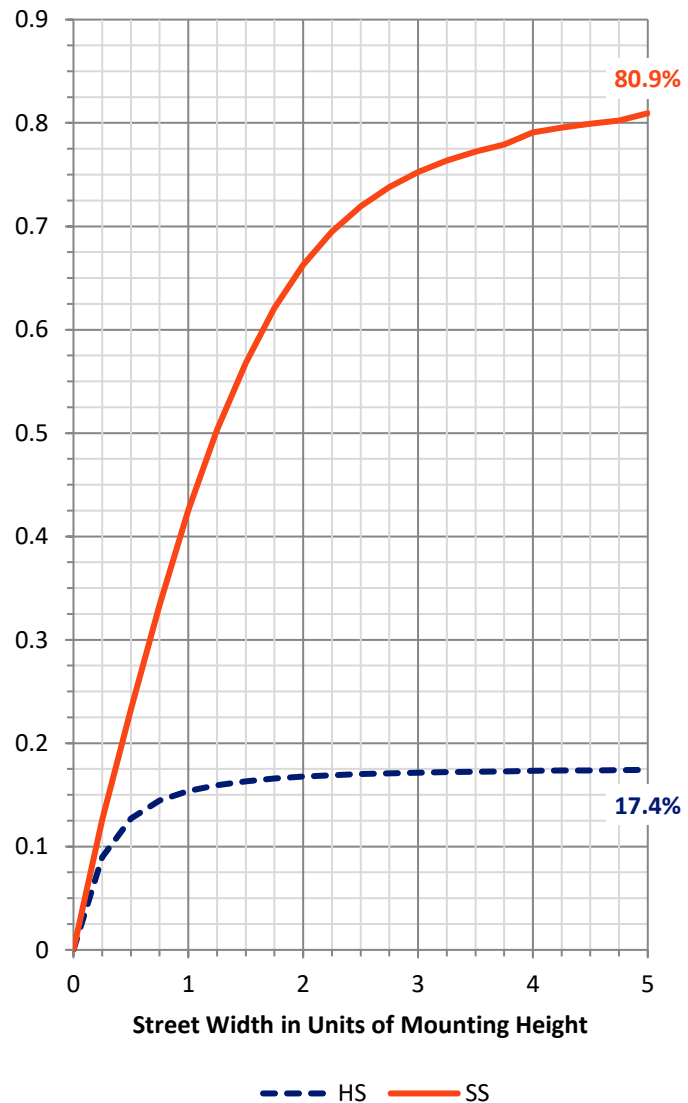
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 770.4    | 0.0    | 770.4  |
|                    | % Fixture | 17.6     | 0.0    | 17.6   |
| <b>Street Side</b> | Lumens    | 3603.6   | 0.0    | 3603.6 |
|                    | % Fixture | 82.4     | 0.0    | 82.4   |
| <b>Total</b>       | Lumens    | 4374.0   | 0.0    | 4374.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 102.8  | 2.4       |
| 10°-20°   | 213.6  | 4.9       |
| 20°-30°   | 303.9  | 6.9       |
| 30°-40°   | 437.9  | 10.0      |
| 40°-50°   | 617.1  | 14.1      |
| 50°-60°   | 857.8  | 19.6      |
| 60°-70°   | 1037.4 | 23.7      |
| 70°-80°   | 637.6  | 14.6      |
| 80°-90°   | 165.9  | 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°    | 4374.0 | 100.0     |
| 0°-180°   | 4374.0 | 100.0     |

**Coefficient of Utilization**



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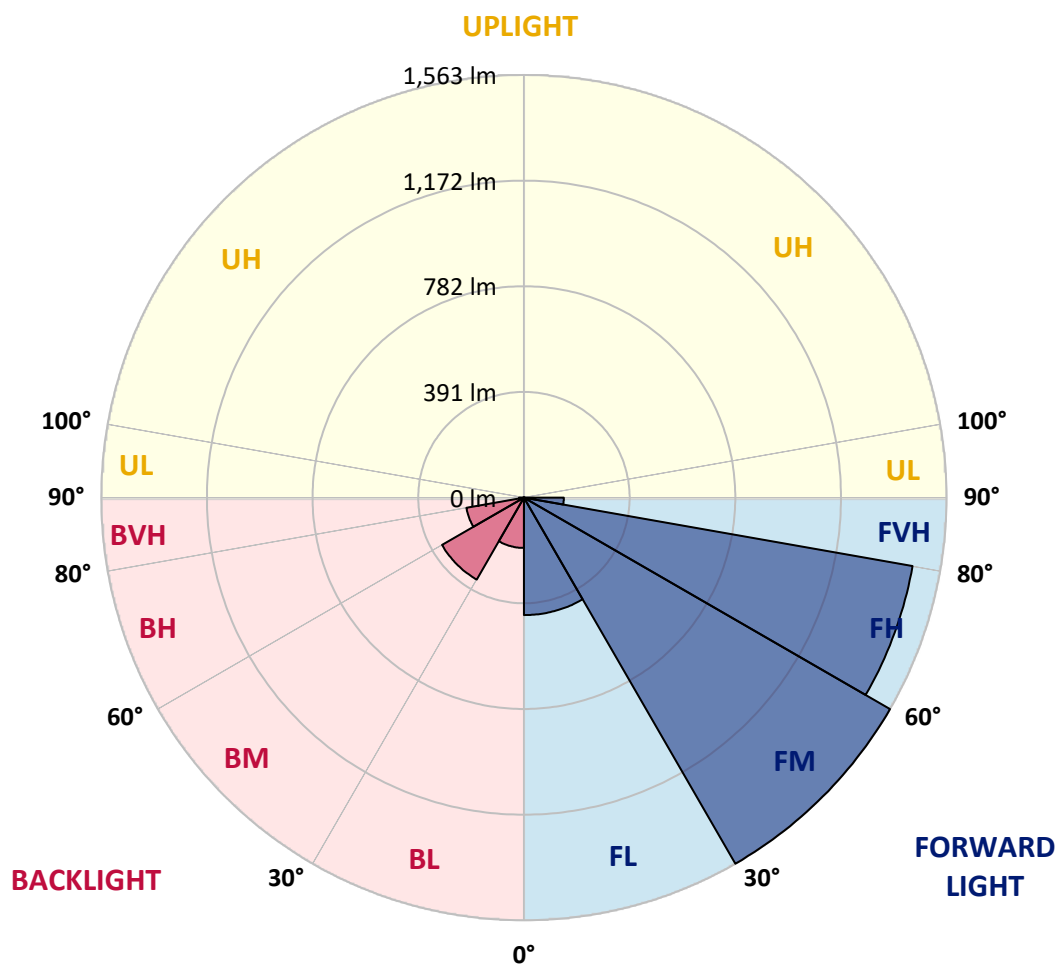
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 434.3  | 9.9       |                         |      |         |
| FM   | (30°-60°)   | 1563.0 | 35.7      |                         |      |         |
| FH   | (60°-80°)   | 1459.0 | 33.4      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 147.3  | 3.4       |                         |      | G2/225  |
| BL   | (0°-30°)    | 186.1  | 4.3       | B1/500                  |      |         |
| BM   | (30°-60°)   | 349.7  | 8.0       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 216.0  | 4.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 18.6   | 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°     | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 |
| 2.5°   | 1420.3 | 1439.1 | 1452.0 | 1464.8 | 1474.7 | 1484.5 | 1498.9 | 1513.2 | 1516.0 | 1518.6 | 1513.0 |
| 5°     | 1412.0 | 1457.6 | 1496.4 | 1535.1 | 1570.9 | 1606.8 | 1628.3 | 1649.8 | 1654.2 | 1658.5 | 1645.1 |
| 7.5°   | 1321.5 | 1388.9 | 1456.2 | 1523.5 | 1585.3 | 1647.0 | 1684.6 | 1722.0 | 1730.6 | 1739.0 | 1716.9 |
| 10°    | 1218.7 | 1297.1 | 1379.8 | 1462.5 | 1543.8 | 1625.1 | 1679.5 | 1733.9 | 1744.7 | 1755.6 | 1728.1 |
| 12.5°  | 1140.5 | 1226.1 | 1314.4 | 1402.7 | 1488.5 | 1574.2 | 1630.5 | 1686.9 | 1700.3 | 1713.8 | 1693.9 |
| 15°    | 1110.5 | 1204.2 | 1287.3 | 1370.3 | 1445.2 | 1519.9 | 1566.0 | 1612.0 | 1617.6 | 1623.0 | 1619.9 |
| 17.5°  | 1140.5 | 1243.9 | 1319.1 | 1394.1 | 1434.9 | 1475.4 | 1494.0 | 1512.3 | 1518.5 | 1524.4 | 1532.4 |
| 20°    | 1228.5 | 1340.1 | 1393.1 | 1445.9 | 1444.1 | 1442.2 | 1433.3 | 1424.2 | 1422.6 | 1421.0 | 1443.8 |
| 22.5°  | 1354.1 | 1483.7 | 1504.8 | 1525.8 | 1476.7 | 1427.5 | 1397.6 | 1367.5 | 1361.6 | 1355.5 | 1379.6 |
| 25°    | 1501.5 | 1639.5 | 1635.6 | 1631.6 | 1538.0 | 1444.3 | 1387.3 | 1330.3 | 1323.6 | 1317.0 | 1337.6 |
| 27.5°  | 1661.9 | 1793.7 | 1768.5 | 1743.3 | 1616.2 | 1489.1 | 1406.4 | 1323.6 | 1317.0 | 1310.4 | 1328.5 |
| 30°    | 1787.2 | 1906.9 | 1866.5 | 1826.1 | 1682.1 | 1538.2 | 1439.9 | 1341.7 | 1330.8 | 1319.8 | 1342.2 |
| 32.5°  | 1893.4 | 1995.2 | 1941.0 | 1886.7 | 1735.7 | 1584.6 | 1478.2 | 1371.9 | 1354.9 | 1338.0 | 1367.9 |
| 35°    | 2003.9 | 2083.3 | 2007.1 | 1930.6 | 1783.4 | 1636.0 | 1523.5 | 1410.9 | 1390.1 | 1369.3 | 1410.4 |
| 37.5°  | 2128.2 | 2194.2 | 2084.7 | 1975.1 | 1837.1 | 1699.1 | 1591.4 | 1483.5 | 1462.1 | 1440.8 | 1493.3 |
| 40°    | 2259.6 | 2314.5 | 2168.5 | 2022.4 | 1895.8 | 1769.2 | 1685.3 | 1601.2 | 1580.9 | 1560.4 | 1624.1 |
| 42.5°  | 2374.5 | 2414.5 | 2246.5 | 2078.4 | 1966.7 | 1854.7 | 1795.6 | 1736.3 | 1736.2 | 1735.8 | 1800.4 |
| 45°    | 2461.0 | 2495.8 | 2311.5 | 2127.0 | 2035.7 | 1944.3 | 1913.5 | 1882.7 | 1907.4 | 1932.0 | 1990.4 |
| 47.5°  | 2532.9 | 2556.5 | 2366.1 | 2175.5 | 2114.8 | 2054.1 | 2058.6 | 2063.2 | 2113.4 | 2163.6 | 2201.2 |
| 50°    | 2615.1 | 2596.0 | 2415.6 | 2234.9 | 2216.2 | 2197.5 | 2238.4 | 2279.2 | 2336.9 | 2394.4 | 2419.9 |
| 52.5°  | 2704.1 | 2653.6 | 2482.7 | 2311.7 | 2332.7 | 2353.7 | 2436.9 | 2520.1 | 2578.4 | 2636.6 | 2646.2 |
| 55°    | 2864.1 | 2786.7 | 2606.2 | 2425.5 | 2465.9 | 2506.2 | 2628.4 | 2750.5 | 2795.9 | 2841.4 | 2844.9 |
| 57.5°  | 3044.4 | 2975.7 | 2779.1 | 2582.6 | 2625.9 | 2669.3 | 2810.4 | 2951.4 | 3000.5 | 3049.5 | 3042.7 |
| 60°    | 3113.9 | 3117.2 | 2943.3 | 2769.3 | 2813.1 | 2856.8 | 2994.2 | 3131.7 | 3188.2 | 3244.5 | 3229.4 |
| 62.5°  | 3043.9 | 3125.9 | 3033.1 | 2940.0 | 2979.7 | 3019.2 | 3153.9 | 3288.6 | 3346.4 | 3404.3 | 3378.1 |
| 65°    | 2905.6 | 2986.9 | 3028.5 | 3070.1 | 3083.2 | 3096.4 | 3222.1 | 3347.7 | 3392.1 | 3436.3 | 3423.0 |
| 67.5°  | 2729.6 | 2795.4 | 2948.9 | 3102.3 | 3075.9 | 3049.5 | 3108.4 | 3167.4 | 3213.0 | 3258.7 | 3251.1 |
| 70°    | 2525.9 | 2604.3 | 2809.0 | 3013.8 | 2884.1 | 2754.1 | 2729.8 | 2705.5 | 2754.8 | 2804.0 | 2773.5 |
| 72.5°  | 2160.6 | 2278.8 | 2497.2 | 2715.5 | 2476.4 | 2237.4 | 2154.3 | 2071.2 | 2133.7 | 2196.1 | 2147.7 |
| 75°    | 1631.9 | 1788.8 | 2030.1 | 2271.3 | 1986.1 | 1700.8 | 1590.0 | 1479.1 | 1532.8 | 1586.5 | 1553.3 |
| 77.5°  | 1134.9 | 1331.7 | 1569.3 | 1807.0 | 1517.1 | 1226.9 | 1144.6 | 1062.0 | 1078.1 | 1094.0 | 1088.4 |
| 80°    | 773.8  | 903.2  | 1069.0 | 1234.6 | 1041.6 | 848.5  | 855.0  | 861.3  | 853.7  | 846.1  | 857.2  |
| 82.5°  | 485.3  | 576.4  | 704.4  | 832.2  | 729.8  | 627.3  | 686.0  | 744.8  | 715.9  | 686.9  | 697.8  |
| 85°    | 273.3  | 328.9  | 454.2  | 579.2  | 539.8  | 500.3  | 534.8  | 569.0  | 524.3  | 479.5  | 499.3  |
| 87.5°  | 52.1   | 86.7   | 251.3  | 415.7  | 377.4  | 339.1  | 294.7  | 250.2  | 191.0  | 131.7  | 192.4  |
| 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°     | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 |
| 2.5°   | 1507.4 | 1504.5 | 1501.5 | 1490.8 | 1480.0 | 1463.9 | 1450.6 | 1427.5 | 1414.9 | 1395.9 | 1376.8 |
| 5°     | 1631.4 | 1612.5 | 1593.7 | 1561.1 | 1528.4 | 1492.0 | 1450.3 | 1403.9 | 1368.9 | 1323.5 | 1278.0 |
| 7.5°   | 1694.9 | 1650.8 | 1606.6 | 1544.2 | 1481.6 | 1425.2 | 1359.1 | 1297.6 | 1245.1 | 1186.0 | 1126.9 |
| 10°    | 1700.7 | 1634.6 | 1568.3 | 1487.2 | 1405.8 | 1337.5 | 1261.4 | 1193.0 | 1130.1 | 1062.2 | 994.2  |
| 12.5°  | 1673.7 | 1603.4 | 1533.0 | 1443.6 | 1354.1 | 1276.4 | 1194.6 | 1118.0 | 1048.2 | 973.5  | 898.7  |
| 15°    | 1616.7 | 1560.6 | 1504.3 | 1420.5 | 1336.8 | 1258.4 | 1179.0 | 1088.3 | 1009.4 | 933.0  | 856.4  |
| 17.5°  | 1540.3 | 1513.7 | 1487.0 | 1426.5 | 1365.8 | 1297.9 | 1221.0 | 1114.5 | 1022.2 | 939.1  | 856.0  |
| 20°    | 1466.3 | 1476.1 | 1485.8 | 1461.6 | 1437.5 | 1383.1 | 1315.9 | 1196.3 | 1078.5 | 969.9  | 861.1  |
| 22.5°  | 1403.6 | 1450.6 | 1497.5 | 1516.2 | 1534.7 | 1502.0 | 1449.6 | 1311.2 | 1155.2 | 1013.4 | 871.6  |
| 25°    | 1358.1 | 1436.1 | 1514.1 | 1576.3 | 1638.4 | 1623.9 | 1583.5 | 1450.8 | 1257.0 | 1076.2 | 895.2  |
| 27.5°  | 1346.7 | 1442.4 | 1538.0 | 1634.6 | 1730.9 | 1744.4 | 1733.2 | 1597.8 | 1378.4 | 1154.2 | 929.8  |
| 30°    | 1364.6 | 1461.4 | 1558.2 | 1675.7 | 1793.0 | 1846.7 | 1861.7 | 1720.4 | 1517.1 | 1245.1 | 973.0  |
| 32.5°  | 1397.8 | 1492.7 | 1587.7 | 1715.7 | 1843.5 | 1924.7 | 1972.6 | 1832.5 | 1613.8 | 1313.7 | 1013.4 |
| 35°    | 1451.5 | 1540.3 | 1629.2 | 1762.4 | 1895.7 | 2000.6 | 2088.0 | 1948.3 | 1699.6 | 1361.6 | 1023.4 |
| 37.5°  | 1545.6 | 1622.0 | 1698.4 | 1821.5 | 1944.5 | 2080.5 | 2211.8 | 2075.8 | 1792.5 | 1407.8 | 1022.9 |
| 40°    | 1687.7 | 1741.8 | 1795.6 | 1899.7 | 2003.6 | 2174.8 | 2352.1 | 2218.0 | 1895.1 | 1457.8 | 1020.4 |
| 42.5°  | 1864.9 | 1892.7 | 1920.3 | 2002.7 | 2085.1 | 2273.2 | 2479.4 | 2357.0 | 1993.1 | 1504.3 | 1015.5 |
| 45°    | 2048.7 | 2056.0 | 2063.4 | 2115.3 | 2167.1 | 2351.2 | 2566.1 | 2461.4 | 2078.6 | 1544.7 | 1010.6 |
| 47.5°  | 2238.6 | 2213.4 | 2188.2 | 2208.9 | 2229.5 | 2411.0 | 2628.0 | 2540.6 | 2164.4 | 1589.5 | 1014.3 |
| 50°    | 2445.5 | 2375.3 | 2305.2 | 2294.4 | 2283.5 | 2470.8 | 2701.0 | 2641.3 | 2267.6 | 1654.7 | 1041.7 |
| 52.5°  | 2655.7 | 2540.1 | 2424.5 | 2381.6 | 2338.6 | 2542.2 | 2797.7 | 2766.7 | 2414.9 | 1755.8 | 1096.5 |
| 55°    | 2848.4 | 2701.3 | 2554.2 | 2496.5 | 2438.8 | 2651.3 | 2915.7 | 2950.9 | 2603.6 | 1885.0 | 1166.3 |
| 57.5°  | 3035.7 | 2869.0 | 2702.4 | 2648.9 | 2595.3 | 2811.7 | 3065.2 | 3116.1 | 2794.2 | 2009.0 | 1223.6 |
| 60°    | 3214.4 | 3049.5 | 2884.4 | 2841.6 | 2798.6 | 3011.0 | 3226.8 | 3189.7 | 2892.5 | 2067.0 | 1241.4 |
| 62.5°  | 3351.9 | 3220.7 | 3089.5 | 3067.0 | 3044.3 | 3212.7 | 3351.0 | 3161.1 | 2830.0 | 2009.9 | 1189.7 |
| 65°    | 3409.7 | 3335.1 | 3260.2 | 3281.4 | 3302.4 | 3365.2 | 3381.9 | 3077.1 | 2633.8 | 1849.7 | 1065.5 |
| 67.5°  | 3243.4 | 3258.7 | 3273.9 | 3362.7 | 3451.4 | 3408.2 | 3290.0 | 2911.7 | 2354.5 | 1622.7 | 890.8  |
| 70°    | 2742.9 | 2834.2 | 2925.3 | 3135.5 | 3345.6 | 3249.7 | 3043.6 | 2614.8 | 2018.4 | 1361.2 | 703.9  |
| 72.5°  | 2099.0 | 2201.7 | 2304.2 | 2616.2 | 2928.0 | 2839.6 | 2587.1 | 2147.7 | 1618.3 | 1087.0 | 555.6  |
| 75°    | 1519.9 | 1635.8 | 1751.6 | 2095.7 | 2439.9 | 2317.3 | 1935.2 | 1537.7 | 1229.2 | 829.8  | 430.2  |
| 77.5°  | 1082.7 | 1160.3 | 1238.0 | 1577.9 | 1917.7 | 1718.0 | 1288.1 | 1034.7 | 850.8  | 576.7  | 302.5  |
| 80°    | 868.4  | 844.7  | 820.9  | 1010.3 | 1199.7 | 1166.4 | 852.0  | 664.5  | 588.8  | 386.5  | 184.1  |
| 82.5°  | 708.4  | 650.4  | 592.3  | 681.5  | 770.7  | 765.8  | 591.3  | 487.6  | 438.2  | 268.6  | 99.0   |
| 85°    | 518.9  | 495.6  | 472.3  | 551.2  | 630.1  | 562.8  | 400.5  | 309.9  | 341.7  | 197.8  | 53.9   |
| 87.5°  | 253.0  | 289.1  | 324.9  | 418.0  | 510.8  | 383.5  | 121.5  | 60.2   | 83.2   | 54.7   | 26.1   |
| 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: P385551

CATALOG NUMBER: GWC-SA1A-760-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-SA1A-760-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 |
| 2.5°   | 1362.6 | 1348.3 | 1332.0 | 1315.8 | 1297.2 | 1278.5 | 1267.5 | 1256.3 | 1244.2 | 1232.2 | 1218.5 |
| 5°     | 1247.9 | 1217.8 | 1183.7 | 1149.6 | 1115.9 | 1082.1 | 1063.9 | 1045.8 | 1026.5 | 1007.1 | 990.3  |
| 7.5°   | 1083.2 | 1039.3 | 992.1  | 944.7  | 902.7  | 860.6  | 834.5  | 808.3  | 784.5  | 760.5  | 740.4  |
| 10°    | 938.2  | 882.3  | 834.9  | 787.3  | 755.6  | 724.0  | 700.0  | 676.1  | 653.0  | 629.7  | 607.5  |
| 12.5°  | 842.7  | 786.8  | 756.7  | 726.6  | 700.4  | 674.1  | 646.5  | 618.7  | 587.1  | 555.2  | 532.0  |
| 15°    | 805.5  | 754.6  | 721.2  | 687.6  | 652.5  | 617.1  | 583.2  | 549.3  | 511.9  | 474.4  | 448.0  |
| 17.5°  | 789.4  | 722.8  | 676.1  | 629.2  | 582.9  | 536.5  | 497.2  | 457.8  | 416.9  | 376.0  | 349.2  |
| 20°    | 772.4  | 683.8  | 621.2  | 558.4  | 498.9  | 439.5  | 394.9  | 350.3  | 313.7  | 277.2  | 256.7  |
| 22.5°  | 757.0  | 642.3  | 563.8  | 485.1  | 414.8  | 344.5  | 300.8  | 256.9  | 234.5  | 212.1  | 203.9  |
| 25°    | 750.7  | 606.1  | 509.6  | 413.1  | 338.9  | 264.6  | 233.5  | 202.3  | 193.8  | 185.0  | 180.8  |
| 27.5°  | 751.8  | 573.8  | 463.9  | 354.0  | 287.1  | 220.3  | 199.0  | 177.7  | 172.4  | 167.0  | 164.4  |
| 30°    | 755.8  | 538.6  | 420.9  | 303.2  | 248.1  | 193.1  | 179.2  | 165.3  | 159.7  | 154.1  | 150.7  |
| 32.5°  | 760.4  | 507.1  | 387.7  | 268.1  | 223.1  | 178.0  | 166.7  | 155.1  | 149.7  | 144.3  | 141.0  |
| 35°    | 752.5  | 481.4  | 365.0  | 248.5  | 207.1  | 165.4  | 155.8  | 146.0  | 140.1  | 134.1  | 131.0  |
| 37.5°  | 739.2  | 455.6  | 347.3  | 238.9  | 196.6  | 154.1  | 147.1  | 139.9  | 133.8  | 127.5  | 124.5  |
| 40°    | 727.1  | 433.7  | 334.2  | 234.5  | 190.8  | 146.9  | 141.0  | 135.0  | 128.7  | 122.2  | 118.7  |
| 42.5°  | 717.3  | 419.0  | 321.2  | 223.5  | 185.5  | 147.4  | 139.0  | 130.5  | 124.3  | 118.2  | 114.4  |
| 45°    | 710.0  | 409.4  | 311.1  | 212.8  | 180.6  | 148.5  | 137.8  | 127.1  | 121.0  | 114.7  | 110.2  |
| 47.5°  | 709.3  | 404.3  | 303.9  | 203.6  | 171.4  | 139.0  | 134.7  | 130.3  | 121.4  | 112.3  | 107.0  |
| 50°    | 718.9  | 396.1  | 295.5  | 194.8  | 162.5  | 130.1  | 136.1  | 141.8  | 126.6  | 111.2  | 104.6  |
| 52.5°  | 739.0  | 381.6  | 282.3  | 182.9  | 151.6  | 120.1  | 129.4  | 138.5  | 125.4  | 112.1  | 103.5  |
| 55°    | 763.3  | 360.2  | 262.1  | 163.9  | 137.3  | 110.5  | 118.7  | 126.8  | 118.6  | 110.2  | 99.9   |
| 57.5°  | 778.6  | 333.3  | 236.8  | 140.3  | 121.2  | 102.1  | 106.8  | 111.4  | 108.1  | 104.8  | 94.3   |
| 60°    | 769.5  | 297.5  | 208.3  | 118.9  | 107.0  | 95.1   | 94.3   | 93.2   | 98.1   | 103.0  | 90.9   |
| 62.5°  | 725.0  | 260.4  | 183.1  | 105.8  | 96.9   | 87.8   | 85.9   | 83.8   | 91.8   | 99.7   | 86.9   |
| 65°    | 650.0  | 234.5  | 167.2  | 99.9   | 89.9   | 79.9   | 77.8   | 75.7   | 78.2   | 80.6   | 74.7   |
| 67.5°  | 554.7  | 218.6  | 158.1  | 97.6   | 85.5   | 73.3   | 70.8   | 68.4   | 67.9   | 67.3   | 65.2   |
| 70°    | 456.4  | 208.8  | 152.1  | 95.5   | 80.8   | 65.9   | 63.7   | 61.4   | 60.7   | 59.8   | 58.2   |
| 72.5°  | 381.6  | 207.6  | 151.4  | 95.3   | 76.9   | 58.6   | 56.5   | 54.4   | 53.5   | 52.5   | 51.2   |
| 75°    | 312.5  | 194.8  | 143.7  | 92.7   | 71.7   | 50.5   | 48.6   | 46.7   | 46.0   | 45.1   | 44.1   |
| 77.5°  | 231.9  | 161.2  | 120.8  | 80.4   | 61.4   | 42.3   | 40.4   | 38.3   | 38.1   | 37.8   | 36.9   |
| 80°    | 150.4  | 116.6  | 86.4   | 56.1   | 44.8   | 33.2   | 31.7   | 29.9   | 30.1   | 30.3   | 29.6   |
| 82.5°  | 83.6   | 68.0   | 52.8   | 37.6   | 30.6   | 23.6   | 22.9   | 22.0   | 22.6   | 22.9   | 22.0   |
| 85°    | 44.1   | 34.3   | 28.3   | 22.4   | 17.7   | 12.9   | 12.9   | 12.8   | 13.5   | 14.2   | 13.5   |
| 87.5°  | 19.1   | 12.1   | 10.3   | 8.4    | 4.7    | 0.9    | 1.0    | 1.0    | 1.4    | 1.7    | 1.6    |
| 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    |



REPORT NUMBER: P385551

CATALOG NUMBER: GWC-SA1A-760-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°     | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 |
| 2.5°   | 1204.7 | 1192.0 | 1179.0 | 1164.9 | 1167.5 | 1156.6 | 1145.8 | 1139.0 | 1132.2 | 1130.1 | 1128.0 |
| 5°     | 973.5  | 959.0  | 944.3  | 931.2  | 942.6  | 934.9  | 927.2  | 926.1  | 924.9  | 924.9  | 924.7  |
| 7.5°   | 720.3  | 704.8  | 689.0  | 678.2  | 689.4  | 688.0  | 686.6  | 694.1  | 701.6  | 707.7  | 713.7  |
| 10°    | 585.3  | 566.4  | 547.4  | 531.3  | 528.5  | 520.4  | 512.2  | 514.0  | 515.5  | 522.2  | 528.8  |
| 12.5°  | 508.7  | 486.2  | 463.6  | 444.7  | 436.1  | 422.9  | 409.4  | 401.0  | 392.6  | 393.5  | 394.2  |
| 15°    | 421.5  | 399.6  | 377.6  | 361.3  | 355.9  | 345.6  | 335.2  | 324.7  | 314.1  | 309.7  | 305.2  |
| 17.5°  | 322.3  | 304.8  | 287.1  | 276.3  | 276.3  | 273.3  | 270.4  | 265.1  | 259.7  | 255.3  | 250.8  |
| 20°    | 236.3  | 227.0  | 217.5  | 213.0  | 214.4  | 214.6  | 214.6  | 217.2  | 219.8  | 218.4  | 217.0  |
| 22.5°  | 195.5  | 192.2  | 188.9  | 186.9  | 187.6  | 187.8  | 188.0  | 190.4  | 192.7  | 194.5  | 196.0  |
| 25°    | 176.5  | 174.4  | 172.3  | 171.6  | 173.1  | 173.3  | 173.3  | 174.9  | 176.5  | 178.2  | 179.9  |
| 27.5°  | 161.6  | 160.7  | 159.8  | 158.6  | 160.2  | 160.2  | 160.0  | 161.8  | 163.3  | 164.9  | 166.3  |
| 30°    | 147.4  | 147.8  | 147.9  | 147.6  | 148.6  | 149.3  | 149.9  | 151.1  | 152.1  | 153.4  | 154.6  |
| 32.5°  | 137.5  | 136.9  | 136.4  | 136.1  | 138.3  | 139.6  | 140.8  | 142.0  | 143.0  | 143.6  | 144.1  |
| 35°    | 127.8  | 126.6  | 125.4  | 124.5  | 126.6  | 128.2  | 129.8  | 132.0  | 134.1  | 134.5  | 134.8  |
| 37.5°  | 121.4  | 119.8  | 118.2  | 117.2  | 118.0  | 118.7  | 119.4  | 121.9  | 124.3  | 125.7  | 127.0  |
| 40°    | 115.2  | 113.7  | 112.1  | 111.2  | 111.7  | 111.9  | 112.1  | 113.3  | 114.4  | 117.0  | 119.4  |
| 42.5°  | 110.3  | 108.4  | 106.5  | 105.5  | 105.8  | 106.2  | 106.3  | 106.2  | 106.0  | 108.4  | 110.9  |
| 45°    | 105.5  | 103.4  | 101.3  | 100.0  | 100.2  | 100.2  | 100.2  | 99.9   | 99.3   | 100.6  | 101.8  |
| 47.5°  | 101.6  | 99.2   | 96.7   | 95.5   | 95.1   | 94.8   | 94.4   | 94.3   | 93.9   | 94.8   | 95.5   |
| 50°    | 97.8   | 95.1   | 92.3   | 90.9   | 90.1   | 89.7   | 89.4   | 89.2   | 88.8   | 89.7   | 90.4   |
| 52.5°  | 94.8   | 91.6   | 88.5   | 86.2   | 85.3   | 84.8   | 84.3   | 84.5   | 84.5   | 84.8   | 85.0   |
| 55°    | 89.5   | 86.7   | 83.8   | 82.2   | 80.6   | 80.3   | 79.9   | 80.4   | 80.8   | 80.8   | 80.8   |
| 57.5°  | 83.8   | 81.1   | 78.3   | 77.3   | 75.9   | 75.9   | 75.7   | 76.4   | 76.9   | 77.3   | 77.6   |
| 60°    | 78.7   | 75.7   | 72.7   | 71.9   | 71.3   | 71.2   | 71.0   | 71.9   | 72.6   | 73.3   | 74.0   |
| 62.5°  | 74.0   | 70.8   | 67.7   | 66.6   | 66.5   | 66.6   | 66.6   | 67.5   | 68.2   | 68.9   | 69.6   |
| 65°    | 68.7   | 65.6   | 62.3   | 61.2   | 61.6   | 62.1   | 62.6   | 63.3   | 63.8   | 64.5   | 65.2   |
| 67.5°  | 63.0   | 60.3   | 57.5   | 56.5   | 56.7   | 57.4   | 58.1   | 58.6   | 58.9   | 59.6   | 60.3   |
| 70°    | 56.7   | 54.4   | 52.1   | 51.4   | 51.2   | 52.1   | 52.8   | 53.2   | 53.5   | 54.4   | 55.1   |
| 72.5°  | 49.8   | 47.9   | 46.0   | 45.5   | 45.6   | 46.2   | 46.7   | 47.2   | 47.6   | 48.4   | 49.1   |
| 75°    | 42.8   | 41.1   | 39.3   | 39.0   | 39.3   | 39.9   | 40.4   | 40.7   | 41.1   | 42.1   | 43.0   |
| 77.5°  | 36.0   | 34.1   | 32.0   | 31.8   | 32.4   | 32.9   | 33.2   | 33.8   | 34.3   | 35.7   | 37.1   |
| 80°    | 28.9   | 26.8   | 24.5   | 24.3   | 24.8   | 25.4   | 25.9   | 26.4   | 26.9   | 28.7   | 30.3   |
| 82.5°  | 21.2   | 18.7   | 16.3   | 15.9   | 17.7   | 18.2   | 18.7   | 19.6   | 20.3   | 21.9   | 23.4   |
| 85°    | 12.8   | 10.3   | 7.9    | 7.7    | 9.3    | 10.1   | 11.0   | 12.1   | 12.9   | 14.3   | 15.7   |
| 87.5°  | 1.4    | 0.7    | 0.0    | 0.0    | 0.2    | 0.9    | 1.6    | 2.4    | 3.3    | 4.7    | 5.9    |
| 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):**

|        | 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°     | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 |
| 2.5°   | 1120.3 | 1112.4 | 1120.4 | 1128.3 | 1131.6 | 1134.9 | 1126.4 | 1117.6 | 1131.3 | 1144.7 | 1148.2 |
| 5°     | 917.8  | 910.6  | 916.0  | 921.2  | 909.5  | 897.8  | 896.6  | 895.2  | 905.3  | 915.5  | 917.1  |
| 7.5°   | 711.4  | 709.1  | 714.2  | 719.3  | 704.4  | 689.4  | 682.0  | 674.7  | 677.1  | 679.6  | 679.2  |
| 10°    | 530.4  | 531.8  | 538.1  | 544.2  | 532.7  | 521.1  | 516.1  | 511.0  | 516.6  | 522.0  | 527.1  |
| 12.5°  | 397.3  | 400.3  | 406.9  | 413.4  | 408.7  | 403.8  | 404.3  | 404.8  | 411.3  | 417.6  | 423.2  |
| 15°    | 308.7  | 312.2  | 316.9  | 321.4  | 321.6  | 321.6  | 326.1  | 330.5  | 330.0  | 329.5  | 333.3  |
| 17.5°  | 255.5  | 260.0  | 260.6  | 261.1  | 261.3  | 261.4  | 261.1  | 260.7  | 258.1  | 255.5  | 258.5  |
| 20°    | 218.8  | 220.3  | 221.7  | 223.0  | 221.4  | 219.6  | 215.3  | 210.9  | 209.2  | 207.4  | 210.2  |
| 22.5°  | 199.0  | 201.8  | 200.4  | 198.8  | 195.7  | 192.4  | 189.0  | 185.5  | 185.4  | 185.0  | 186.6  |
| 25°    | 182.4  | 184.7  | 182.2  | 179.8  | 177.5  | 175.2  | 173.0  | 170.7  | 170.5  | 170.3  | 171.0  |
| 27.5°  | 168.6  | 170.7  | 168.4  | 166.1  | 164.2  | 162.3  | 160.5  | 158.8  | 158.4  | 158.1  | 158.3  |
| 30°    | 156.7  | 158.6  | 156.7  | 154.6  | 153.2  | 151.6  | 150.4  | 149.2  | 149.0  | 148.8  | 148.8  |
| 32.5°  | 146.0  | 147.9  | 146.5  | 145.1  | 143.9  | 142.7  | 141.8  | 141.0  | 140.1  | 139.2  | 137.3  |
| 35°    | 136.8  | 138.7  | 137.8  | 136.8  | 135.4  | 134.0  | 132.4  | 130.6  | 128.4  | 125.9  | 124.9  |
| 37.5°  | 128.9  | 130.8  | 129.9  | 129.1  | 127.1  | 125.2  | 122.4  | 119.4  | 118.7  | 117.9  | 117.7  |
| 40°    | 122.6  | 125.6  | 123.8  | 121.9  | 118.9  | 115.9  | 114.5  | 113.1  | 112.8  | 112.4  | 112.1  |
| 42.5°  | 115.6  | 120.1  | 117.0  | 113.8  | 111.0  | 108.2  | 107.9  | 107.5  | 107.4  | 107.2  | 107.2  |
| 45°    | 106.8  | 111.7  | 108.6  | 105.3  | 103.7  | 102.1  | 102.1  | 102.1  | 102.3  | 102.3  | 102.7  |
| 47.5°  | 98.6   | 101.6  | 100.0  | 98.5   | 97.6   | 96.7   | 96.9   | 97.1   | 97.6   | 97.9   | 98.8   |
| 50°    | 91.6   | 92.7   | 93.0   | 93.2   | 92.7   | 92.2   | 92.5   | 92.7   | 93.2   | 93.6   | 94.3   |
| 52.5°  | 86.6   | 88.1   | 88.1   | 88.0   | 88.0   | 88.0   | 88.3   | 88.7   | 89.2   | 89.7   | 90.4   |
| 55°    | 83.2   | 85.5   | 84.8   | 84.1   | 84.3   | 84.3   | 84.6   | 85.0   | 85.5   | 85.9   | 86.9   |
| 57.5°  | 80.1   | 82.5   | 81.8   | 81.1   | 81.1   | 81.1   | 81.3   | 81.5   | 82.0   | 82.4   | 83.1   |
| 60°    | 76.4   | 78.9   | 78.2   | 77.3   | 77.5   | 77.6   | 77.8   | 77.8   | 78.2   | 78.3   | 78.3   |
| 62.5°  | 72.0   | 74.5   | 73.8   | 72.9   | 73.4   | 73.8   | 73.8   | 73.8   | 74.1   | 74.3   | 73.8   |
| 65°    | 67.5   | 69.8   | 69.1   | 68.4   | 69.1   | 69.6   | 70.0   | 70.1   | 70.0   | 69.8   | 69.3   |
| 67.5°  | 62.6   | 64.9   | 64.2   | 63.3   | 64.2   | 64.9   | 65.6   | 66.1   | 65.6   | 65.1   | 64.4   |
| 70°    | 57.4   | 59.6   | 58.8   | 57.9   | 58.8   | 59.6   | 60.3   | 61.0   | 60.3   | 59.6   | 59.5   |
| 72.5°  | 51.8   | 54.4   | 53.3   | 52.3   | 53.3   | 54.4   | 54.7   | 55.1   | 54.6   | 54.0   | 53.7   |
| 75°    | 45.6   | 48.3   | 47.4   | 46.3   | 47.2   | 48.1   | 48.3   | 48.4   | 48.4   | 48.3   | 47.2   |
| 77.5°  | 39.2   | 41.3   | 40.7   | 40.2   | 40.7   | 41.3   | 41.3   | 41.3   | 41.4   | 41.4   | 40.0   |
| 80°    | 31.5   | 32.7   | 32.9   | 33.1   | 33.2   | 33.4   | 33.2   | 33.1   | 32.7   | 32.4   | 31.5   |
| 82.5°  | 23.4   | 23.4   | 24.8   | 26.1   | 26.1   | 25.9   | 25.7   | 25.4   | 24.7   | 23.8   | 21.9   |
| 85°    | 14.9   | 14.0   | 16.3   | 18.4   | 18.4   | 18.2   | 17.8   | 17.3   | 15.9   | 14.3   | 12.8   |
| 87.5°  | 5.1    | 4.2    | 6.5    | 8.7    | 8.9    | 8.9    | 8.6    | 8.2    | 6.8    | 5.2    | 4.0    |
| 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    |



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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°     | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 |
| 2.5°   | 1153.5 | 1155.8 | 1157.9 | 1175.0 | 1192.0 | 1211.9 | 1231.8 | 1247.0 | 1262.1 | 1277.6 | 1293.2 |
| 5°     | 922.5  | 925.3  | 928.1  | 948.9  | 969.5  | 997.3  | 1025.1 | 1049.1 | 1073.0 | 1101.2 | 1129.4 |
| 7.5°   | 683.8  | 689.9  | 695.8  | 718.0  | 740.1  | 770.0  | 799.7  | 831.0  | 862.1  | 898.9  | 935.6  |
| 10°    | 537.0  | 548.6  | 560.0  | 582.7  | 605.4  | 635.0  | 664.4  | 697.1  | 729.8  | 766.0  | 802.0  |
| 12.5°  | 434.7  | 450.1  | 465.3  | 492.6  | 519.9  | 555.2  | 590.4  | 626.8  | 663.0  | 694.8  | 726.6  |
| 15°    | 343.5  | 360.2  | 376.9  | 405.7  | 434.6  | 473.4  | 512.0  | 551.7  | 591.3  | 629.4  | 667.5  |
| 17.5°  | 267.9  | 281.7  | 295.4  | 319.8  | 344.2  | 381.8  | 419.4  | 461.0  | 502.6  | 549.1  | 595.5  |
| 20°    | 216.1  | 221.9  | 227.7  | 245.4  | 262.8  | 293.4  | 323.9  | 366.4  | 408.9  | 464.5  | 520.1  |
| 22.5°  | 189.4  | 192.4  | 195.2  | 203.7  | 212.1  | 231.9  | 251.5  | 289.1  | 326.5  | 387.2  | 447.7  |
| 25°    | 173.3  | 175.6  | 177.8  | 183.4  | 189.0  | 198.5  | 207.9  | 234.3  | 260.7  | 320.4  | 379.8  |
| 27.5°  | 158.8  | 162.3  | 165.6  | 168.2  | 170.7  | 177.1  | 183.4  | 200.8  | 218.1  | 273.7  | 329.1  |
| 30°    | 148.3  | 149.5  | 150.7  | 154.8  | 158.6  | 165.3  | 171.9  | 184.0  | 196.0  | 243.1  | 289.9  |
| 32.5°  | 136.1  | 137.8  | 139.6  | 143.7  | 147.9  | 154.1  | 160.2  | 170.0  | 179.6  | 219.8  | 259.9  |
| 35°    | 125.0  | 126.8  | 128.5  | 132.7  | 136.8  | 143.4  | 149.9  | 158.1  | 166.1  | 201.1  | 236.1  |
| 37.5°  | 118.2  | 120.0  | 121.7  | 125.4  | 128.9  | 135.5  | 142.0  | 148.5  | 154.8  | 187.1  | 219.5  |
| 40°    | 112.4  | 114.2  | 115.9  | 119.4  | 122.8  | 129.2  | 135.5  | 141.0  | 146.4  | 176.6  | 206.9  |
| 42.5°  | 107.4  | 109.3  | 111.2  | 114.7  | 118.0  | 123.8  | 129.6  | 136.8  | 143.7  | 167.5  | 191.1  |
| 45°    | 103.2  | 105.1  | 106.8  | 110.7  | 114.5  | 120.1  | 125.7  | 135.7  | 145.7  | 162.8  | 179.9  |
| 47.5°  | 99.3   | 101.4  | 103.4  | 107.5  | 111.7  | 118.7  | 125.6  | 134.0  | 142.2  | 159.1  | 176.1  |
| 50°    | 95.7   | 98.1   | 100.6  | 105.6  | 110.5  | 122.2  | 133.8  | 135.0  | 136.1  | 156.2  | 176.1  |
| 52.5°  | 92.2   | 95.0   | 97.8   | 104.1  | 110.2  | 123.8  | 137.5  | 133.1  | 128.5  | 150.6  | 172.6  |
| 55°    | 88.7   | 91.1   | 93.4   | 101.1  | 108.8  | 118.7  | 128.7  | 122.9  | 117.0  | 140.1  | 163.2  |
| 57.5°  | 83.9   | 86.6   | 89.0   | 97.2   | 105.5  | 112.4  | 119.3  | 114.0  | 108.6  | 128.2  | 147.6  |
| 60°    | 79.0   | 82.0   | 85.0   | 95.5   | 105.8  | 104.6  | 103.2  | 102.1  | 100.9  | 114.9  | 128.9  |
| 62.5°  | 74.7   | 77.8   | 81.0   | 94.6   | 108.2  | 99.9   | 91.5   | 92.3   | 93.0   | 103.4  | 113.7  |
| 65°    | 70.3   | 73.4   | 76.4   | 83.2   | 90.1   | 86.7   | 83.4   | 84.8   | 86.0   | 96.2   | 106.3  |
| 67.5°  | 65.4   | 68.2   | 70.8   | 73.1   | 75.4   | 75.7   | 76.1   | 77.5   | 78.9   | 90.9   | 102.8  |
| 70°    | 60.0   | 62.3   | 64.5   | 66.1   | 67.5   | 68.2   | 68.7   | 70.5   | 72.2   | 85.3   | 98.5   |
| 72.5°  | 53.9   | 55.8   | 57.5   | 58.9   | 60.3   | 60.9   | 61.2   | 63.0   | 64.7   | 78.7   | 92.7   |
| 75°    | 47.2   | 48.8   | 50.2   | 51.4   | 52.6   | 53.3   | 54.0   | 55.3   | 56.5   | 71.7   | 86.7   |
| 77.5°  | 39.9   | 41.4   | 42.8   | 43.9   | 44.8   | 45.5   | 46.0   | 47.6   | 49.1   | 61.9   | 74.5   |
| 80°    | 31.1   | 33.1   | 34.8   | 35.7   | 36.4   | 36.5   | 36.5   | 37.9   | 39.3   | 48.4   | 57.4   |
| 82.5°  | 22.0   | 24.1   | 26.1   | 26.8   | 27.5   | 27.5   | 27.5   | 29.0   | 30.6   | 36.7   | 42.7   |
| 85°    | 12.9   | 15.2   | 17.3   | 18.0   | 18.7   | 19.1   | 19.2   | 19.9   | 20.5   | 24.8   | 29.0   |
| 87.5°  | 4.0    | 5.9    | 7.7    | 8.0    | 8.4    | 9.1    | 9.8    | 10.0   | 10.0   | 12.9   | 15.9   |
| 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-SA1A-760-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°     | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 |
| 2.5°   | 1311.0 | 1328.9 | 1349.7 | 1370.3 | 1388.0 | 1405.7 | 1420.3 |
| 5°     | 1165.2 | 1201.1 | 1244.9 | 1288.7 | 1327.7 | 1366.7 | 1412.0 |
| 7.5°   | 981.9  | 1028.3 | 1085.1 | 1141.9 | 1197.0 | 1251.9 | 1321.5 |
| 10°    | 849.2  | 896.2  | 956.4  | 1016.4 | 1078.3 | 1140.0 | 1218.7 |
| 12.5°  | 764.9  | 803.0  | 861.3  | 919.5  | 992.2  | 1064.8 | 1140.5 |
| 15°    | 709.3  | 750.9  | 807.6  | 864.2  | 943.8  | 1023.4 | 1110.5 |
| 17.5°  | 650.0  | 704.4  | 777.0  | 849.6  | 943.8  | 1037.9 | 1140.5 |
| 20°    | 587.9  | 655.6  | 749.7  | 843.8  | 970.7  | 1097.5 | 1228.5 |
| 22.5°  | 526.0  | 604.4  | 725.0  | 845.5  | 1011.5 | 1177.3 | 1354.1 |
| 25°    | 470.2  | 560.7  | 710.0  | 859.2  | 1070.8 | 1282.2 | 1501.5 |
| 27.5°  | 427.9  | 526.6  | 703.9  | 881.0  | 1146.0 | 1410.9 | 1661.9 |
| 30°    | 390.3  | 490.7  | 696.5  | 902.4  | 1218.4 | 1534.2 | 1787.2 |
| 32.5°  | 357.8  | 455.7  | 682.4  | 908.8  | 1268.9 | 1629.0 | 1893.4 |
| 35°    | 332.3  | 428.4  | 658.6  | 888.7  | 1300.6 | 1712.4 | 2003.9 |
| 37.5°  | 310.2  | 401.0  | 631.5  | 862.0  | 1328.7 | 1795.5 | 2128.2 |
| 40°    | 289.2  | 371.6  | 608.2  | 844.7  | 1367.5 | 1890.4 | 2259.6 |
| 42.5°  | 269.3  | 347.5  | 589.5  | 831.5  | 1403.6 | 1975.4 | 2374.5 |
| 45°    | 254.4  | 328.9  | 572.9  | 816.7  | 1426.8 | 2037.0 | 2461.0 |
| 47.5°  | 247.1  | 317.9  | 564.0  | 809.9  | 1450.1 | 2090.1 | 2532.9 |
| 50°    | 246.1  | 316.0  | 574.1  | 832.2  | 1500.4 | 2168.5 | 2615.1 |
| 52.5°  | 245.9  | 319.1  | 603.3  | 887.5  | 1594.0 | 2300.3 | 2704.1 |
| 55°    | 242.2  | 321.1  | 638.1  | 955.0  | 1719.6 | 2483.9 | 2864.1 |
| 57.5°  | 231.0  | 314.4  | 674.0  | 1033.3 | 1852.3 | 2671.1 | 3044.4 |
| 60°    | 213.7  | 298.3  | 703.5  | 1108.5 | 1941.5 | 2774.2 | 3113.9 |
| 62.5°  | 192.0  | 270.2  | 713.3  | 1156.3 | 1939.0 | 2721.8 | 3043.9 |
| 65°    | 173.5  | 240.6  | 681.1  | 1121.5 | 1840.9 | 2560.2 | 2905.6 |
| 67.5°  | 157.0  | 211.1  | 600.7  | 990.2  | 1664.5 | 2338.6 | 2729.6 |
| 70°    | 145.1  | 191.7  | 497.0  | 802.3  | 1443.6 | 2084.7 | 2525.9 |
| 72.5°  | 137.6  | 182.4  | 405.2  | 627.8  | 1171.5 | 1715.0 | 2160.6 |
| 75°    | 127.3  | 167.9  | 317.9  | 467.8  | 896.6  | 1325.4 | 1631.9 |
| 77.5°  | 108.1  | 141.5  | 239.6  | 337.7  | 657.9  | 977.9  | 1134.9 |
| 80°    | 83.4   | 109.3  | 164.7  | 220.2  | 452.8  | 685.3  | 773.8  |
| 82.5°  | 59.5   | 76.2   | 99.9   | 123.5  | 300.8  | 477.9  | 485.3  |
| 85°    | 36.7   | 44.4   | 57.2   | 70.0   | 199.0  | 328.1  | 273.3  |
| 87.5°  | 19.8   | 23.6   | 30.3   | 36.7   | 63.7   | 90.6   | 52.1   |
| 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: P385551

CATALOG NUMBER: GWC-SA1A-760-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: SP1-2012-088-5-R3

Luminaire Tested: CCW-SA1A-760-U-SL2-HSS

Test Date: 01/19/2021

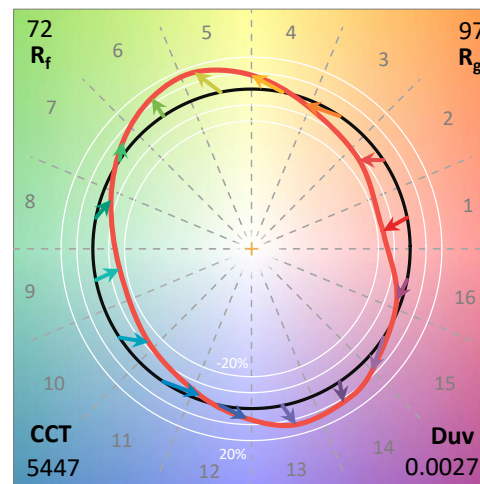
### Test Information

Test Method: LM-79-08  
 Report Number: SP1-2012-088-5-R3  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1  
 Measurement Geometry:  $4\pi$   
 Issue Date: 01/19/2021  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: INVUE  
 Catalog Number: **CCW-SA1A-760-U-SL2-HSS**  
 Description: INVUE WALL PACK

\*\*\*THIS IS A REVISION OF SP1-2012-088-5-R2. TO UPDATE THE CATALOG  
 INFORMATION.\*\*\*TESTED IN SITU. INVUE WALL PACK LIGHT SQUARE T2 OPTICS 1-SQUARE WITH  
 HOUSE SIDE SHIELD

### Spectral Parameters

|                           |        |           |      |      |       |
|---------------------------|--------|-----------|------|------|-------|
| CCT (K):                  | 5447   | CRI (Ra): | 71.9 |      |       |
| CIE u':                   | 0.2053 | R1:       | 70.7 | R9:  | -27.5 |
| CIE v':                   | 0.4809 | R2:       | 74.8 | R10: | 41.5  |
| Duv:                      | 0.0027 | R3:       | 78.7 | R11: | 74.9  |
| CIE x:                    | 0.3337 | R4:       | 74.0 | R12: | 49.9  |
| CIE y:                    | 0.3473 | R5:       | 72.5 | R13: | 70.2  |
| CIE z:                    | 0.3190 | R6:       | 67.7 | R14: | 88.1  |
| Peak Wavelength (nm):     | 443    | R7:       | 77.7 |      |       |
| Dominant Wavelength (nm): | 556    | R8:       | 58.8 |      |       |
| Purity:                   | 4.5    |           |      |      |       |
| Rf:                       | 72.3   |           |      |      |       |
| Rg:                       | 97.2   |           |      |      |       |



### Test Conditions

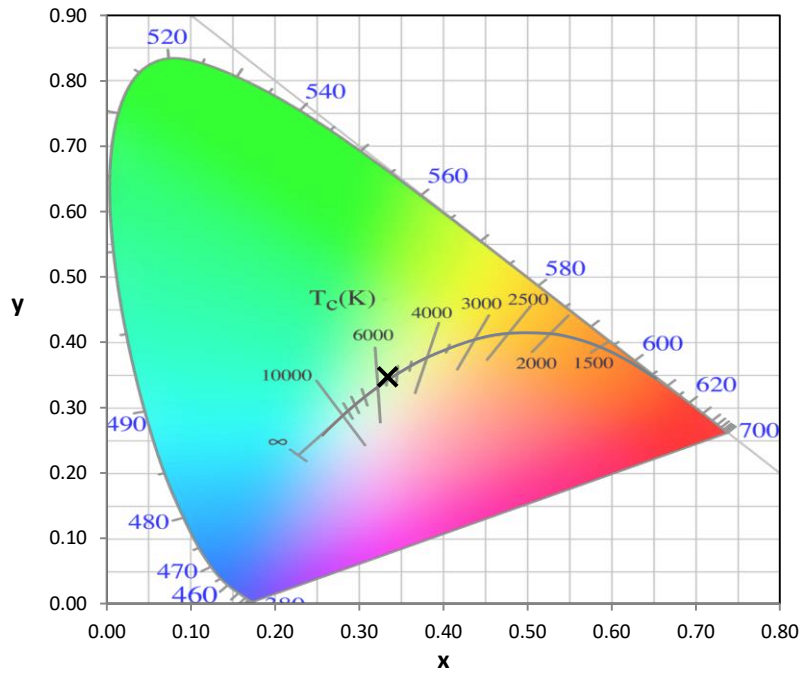
Stabilization Time: 75M  
 Operation Time: 12H  
 Room Temperature (°C) / RH%: 25.4/18%  
 Sphere Temperature (°C): 25.3

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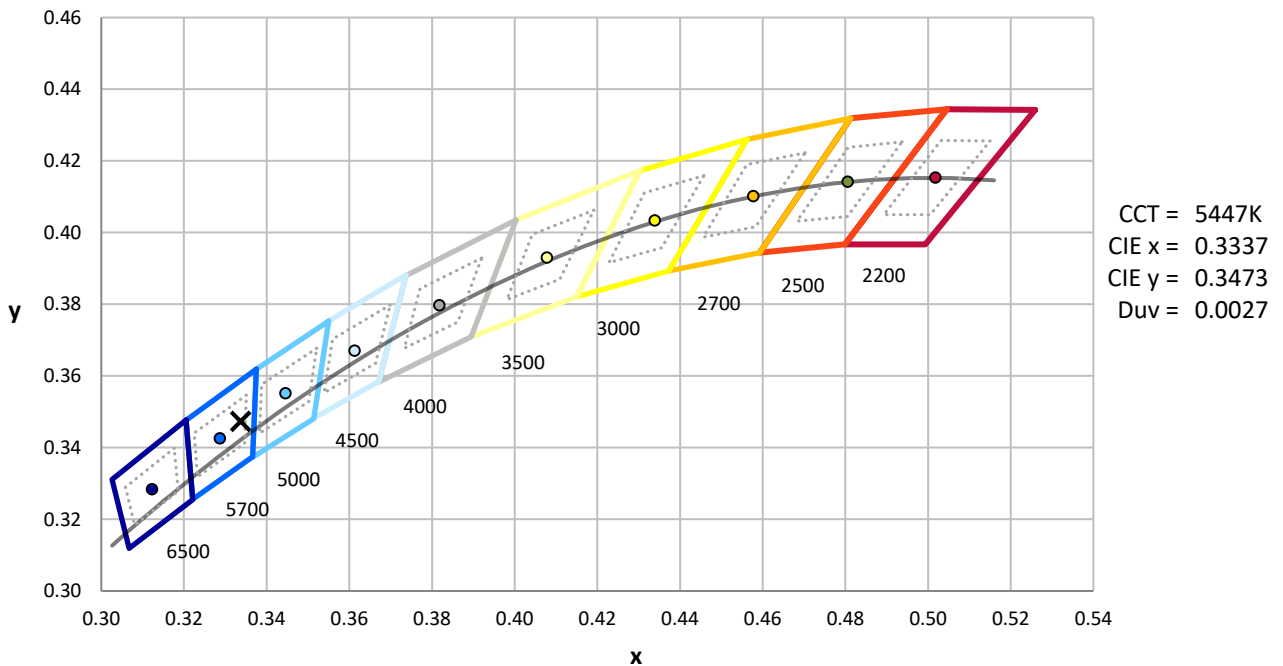
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| Photometer                     | IN0058                | 7/29/2020        | 1/29/2021            |
| 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: SP1-2012-088-5-R3

**CIE 1931 Chromaticity Diagram**



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

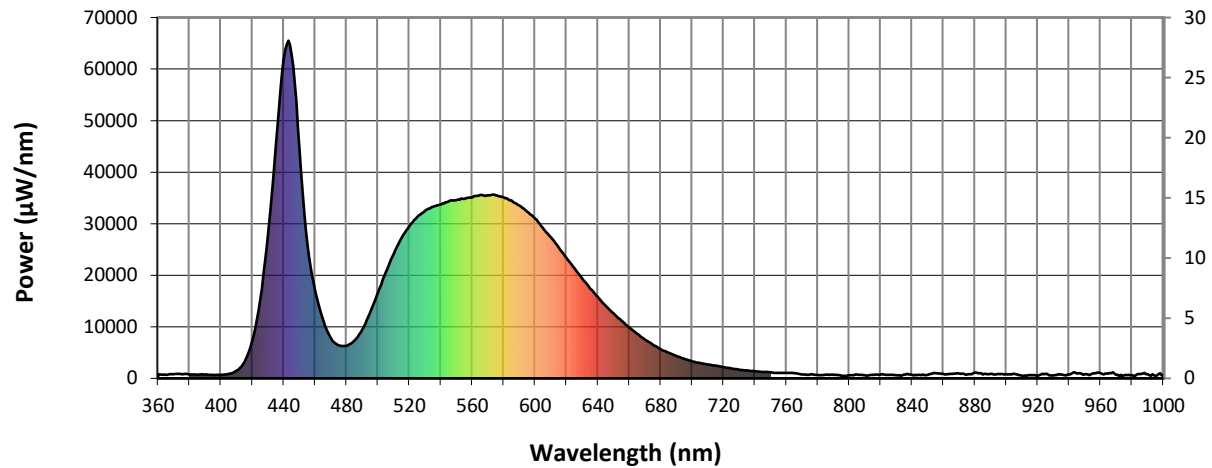


Point lies inside the ANSI 5700K 4-step quadrangle



REPORT NUMBER: SP1-2012-088-5-R3

### Photopic Flux vs. Wavelength

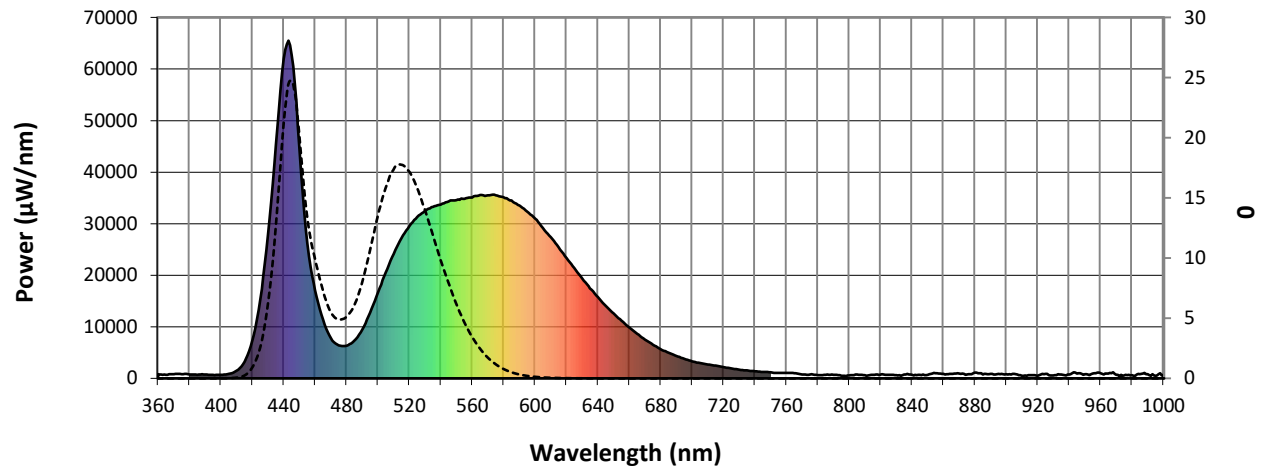


#####

| 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       | 828              | 0.0              | 490       | 9471             | 1.3              | 620       | 23317            | 6.1              | 750       | 1157             | 0.0              | 880       | 1136             | 0.0              |
| 365       | 696              | 0.0              | 495       | 12752            | 2.3              | 625       | 21413            | 4.7              | 755       | 1067             | 0.0              | 885       | 773              | 0.0              |
| 370       | 807              | 0.0              | 500       | 16685            | 3.7              | 630       | 19344            | 3.5              | 760       | 1059             | 0.0              | 890       | 872              | 0.0              |
| 375       | 837              | 0.0              | 505       | 20565            | 5.8              | 635       | 17464            | 2.6              | 765       | 1009             | 0.0              | 895       | 891              | 0.0              |
| 380       | 757              | 0.0              | 510       | 24119            | 8.3              | 640       | 15745            | 1.9              | 770       | 774              | 0.0              | 900       | 807              | 0.0              |
| 385       | 706              | 0.0              | 515       | 27181            | 11.3             | 645       | 14060            | 1.4              | 775       | 761              | 0.0              | 905       | 899              | 0.0              |
| 390       | 746              | 0.0              | 520       | 29555            | 14.3             | 650       | 12579            | 0.9              | 780       | 653              | 0.0              | 910       | 506              | 0.0              |
| 395       | 660              | 0.0              | 525       | 31307            | 16.8             | 655       | 11181            | 0.6              | 785       | 704              | 0.0              | 915       | 598              | 0.0              |
| 400       | 671              | 0.0              | 530       | 32558            | 19.2             | 660       | 9847             | 0.4              | 790       | 663              | 0.0              | 920       | 510              | 0.0              |
| 405       | 848              | 0.0              | 535       | 33301            | 20.7             | 665       | 8641             | 0.3              | 795       | 493              | 0.0              | 925       | 874              | 0.0              |
| 410       | 1490             | 0.0              | 540       | 33727            | 22.0             | 670       | 7535             | 0.2              | 800       | 584              | 0.0              | 930       | 549              | 0.0              |
| 415       | 3203             | 0.0              | 545       | 34356            | 22.9             | 675       | 6542             | 0.1              | 805       | 739              | 0.0              | 935       | 720              | 0.0              |
| 420       | 7298             | 0.0              | 550       | 34589            | 23.5             | 680       | 5664             | 0.1              | 810       | 601              | 0.0              | 940       | 754              | 0.0              |
| 425       | 15315            | 0.1              | 555       | 34855            | 23.8             | 685       | 4962             | 0.0              | 815       | 677              | 0.0              | 945       | 931              | 0.0              |
| 430       | 27886            | 0.2              | 560       | 35083            | 23.8             | 690       | 4369             | 0.0              | 820       | 726              | 0.0              | 950       | 811              | 0.0              |
| 435       | 45485            | 0.5              | 565       | 35553            | 23.6             | 695       | 3785             | 0.0              | 825       | 693              | 0.0              | 955       | 955              | 0.0              |
| 440       | 61965            | 1.0              | 570       | 35511            | 23.1             | 700       | 3318             | 0.0              | 830       | 619              | 0.0              | 960       | 1025             | 0.0              |
| 445       | 62721            | 1.3              | 575       | 35515            | 22.1             | 705       | 2962             | 0.0              | 835       | 738              | 0.0              | 965       | 916              | 0.0              |
| 450       | 44754            | 1.2              | 580       | 35114            | 20.9             | 710       | 2689             | 0.0              | 840       | 681              | 0.0              | 970       | 695              | 0.0              |
| 455       | 26152            | 0.9              | 585       | 34546            | 19.2             | 715       | 2476             | 0.0              | 845       | 691              | 0.0              | 975       | 568              | 0.0              |
| 460       | 17101            | 0.7              | 590       | 33522            | 17.3             | 720       | 2192             | 0.0              | 850       | 710              | 0.0              | 980       | 643              | 0.0              |
| 465       | 11400            | 0.6              | 595       | 32326            | 15.3             | 725       | 1939             | 0.0              | 855       | 1025             | 0.0              | 985       | 804              | 0.0              |
| 470       | 7763             | 0.5              | 600       | 30973            | 13.3             | 730       | 1698             | 0.0              | 860       | 889              | 0.0              | 990       | 812              | 0.0              |
| 475       | 6419             | 0.5              | 605       | 29160            | 11.3             | 735       | 1533             | 0.0              | 865       | 885              | 0.0              | 995       | 496              | 0.0              |
| 480       | 6330             | 0.6              | 610       | 27373            | 9.4              | 740       | 1375             | 0.0              | 870       | 905              | 0.0              | 1000      | 659              | 0.0              |
| 485       | 7299             | 0.9              | 615       | 25423            | 7.7              | 745       | 1254             | 0.0              | 875       | 739              | 0.0              |           |                  |                  |

REPORT NUMBER: SP1-2012-088-5-R3

### Scotopic Flux vs. Wavelength



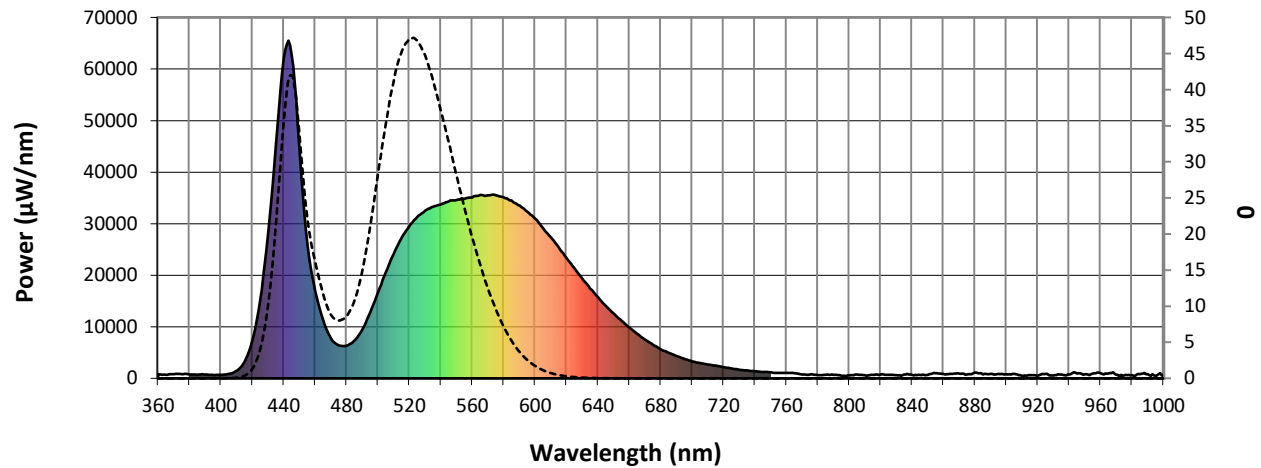
Scotopic Lumens: 1610.2

S/P: 0.74

| 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       | 828              | 0.0              | 490       | 9471             | 14.6             | 620       | 23317            | 0.3              | 750       | 1157             | 0.0              | 880       | 1136             | 0.0              |
| 365       | 696              | 0.0              | 495       | 12752            | 20.6             | 625       | 21413            | 0.2              | 755       | 1067             | 0.0              | 885       | 773              | 0.0              |
| 370       | 807              | 0.0              | 500       | 16685            | 27.9             | 630       | 19344            | 0.1              | 760       | 1059             | 0.0              | 890       | 872              | 0.0              |
| 375       | 837              | 0.0              | 505       | 20565            | 35.0             | 635       | 17464            | 0.1              | 765       | 1009             | 0.0              | 895       | 891              | 0.0              |
| 380       | 757              | 0.0              | 510       | 24119            | 40.9             | 640       | 15745            | 0.0              | 770       | 774              | 0.0              | 900       | 807              | 0.0              |
| 385       | 706              | 0.0              | 515       | 27181            | 45.1             | 645       | 14060            | 0.0              | 775       | 761              | 0.0              | 905       | 899              | 0.0              |
| 390       | 746              | 0.0              | 520       | 29555            | 47.0             | 650       | 12579            | 0.0              | 780       | 653              | 0.0              | 910       | 506              | 0.0              |
| 395       | 660              | 0.0              | 525       | 31307            | 46.8             | 655       | 11181            | 0.0              | 785       | 704              | 0.0              | 915       | 598              | 0.0              |
| 400       | 671              | 0.0              | 530       | 32558            | 44.9             | 660       | 9847             | 0.0              | 790       | 663              | 0.0              | 920       | 510              | 0.0              |
| 405       | 848              | 0.0              | 535       | 33301            | 41.5             | 665       | 8641             | 0.0              | 795       | 493              | 0.0              | 925       | 874              | 0.0              |
| 410       | 1490             | 0.1              | 540       | 33727            | 37.3             | 670       | 7535             | 0.0              | 800       | 584              | 0.0              | 930       | 549              | 0.0              |
| 415       | 3203             | 0.3              | 545       | 34356            | 32.9             | 675       | 6542             | 0.0              | 805       | 739              | 0.0              | 935       | 720              | 0.0              |
| 420       | 7298             | 1.2              | 550       | 34589            | 28.3             | 680       | 5664             | 0.0              | 810       | 601              | 0.0              | 940       | 754              | 0.0              |
| 425       | 15315            | 3.7              | 555       | 34855            | 23.8             | 685       | 4962             | 0.0              | 815       | 677              | 0.0              | 945       | 931              | 0.0              |
| 430       | 27886            | 9.5              | 560       | 35083            | 19.6             | 690       | 4369             | 0.0              | 820       | 726              | 0.0              | 950       | 811              | 0.0              |
| 435       | 45485            | 20.3             | 565       | 35553            | 16.0             | 695       | 3785             | 0.0              | 825       | 693              | 0.0              | 955       | 955              | 0.0              |
| 440       | 61965            | 34.6             | 570       | 35511            | 12.5             | 700       | 3318             | 0.0              | 830       | 619              | 0.0              | 960       | 1025             | 0.0              |
| 445       | 62721            | 42.0             | 575       | 35515            | 9.7              | 705       | 2962             | 0.0              | 835       | 738              | 0.0              | 965       | 916              | 0.0              |
| 450       | 44754            | 34.7             | 580       | 35114            | 7.2              | 710       | 2689             | 0.0              | 840       | 681              | 0.0              | 970       | 695              | 0.0              |
| 455       | 26152            | 22.9             | 585       | 34546            | 5.3              | 715       | 2476             | 0.0              | 845       | 691              | 0.0              | 975       | 568              | 0.0              |
| 460       | 17101            | 16.5             | 590       | 33522            | 3.7              | 720       | 2192             | 0.0              | 850       | 710              | 0.0              | 980       | 643              | 0.0              |
| 465       | 11400            | 12.0             | 595       | 32326            | 2.6              | 725       | 1939             | 0.0              | 855       | 1025             | 0.0              | 985       | 804              | 0.0              |
| 470       | 7763             | 8.9              | 600       | 30973            | 1.7              | 730       | 1698             | 0.0              | 860       | 889              | 0.0              | 990       | 812              | 0.0              |
| 475       | 6419             | 8.0              | 605       | 29160            | 1.1              | 735       | 1533             | 0.0              | 865       | 885              | 0.0              | 995       | 496              | 0.0              |
| 480       | 6330             | 8.5              | 610       | 27373            | 0.7              | 740       | 1375             | 0.0              | 870       | 905              | 0.0              | 1000      | 659              | 0.0              |
| 485       | 7299             | 10.6             | 615       | 25423            | 0.5              | 745       | 1254             | 0.0              | 875       | 739              | 0.0              |           |                  |                  |

REPORT NUMBER: SP1-2012-088-5-R3

### Melanopic Flux vs. Wavelength

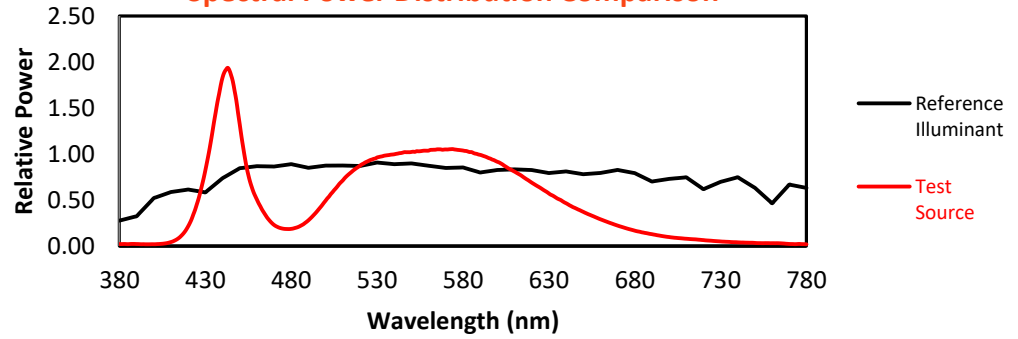

**Melanopic Lumens: 4010.3      S/P: 1.85**

| 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       | 828              | 0.0              | 490       | 9471             | 7.9              | 620       | 23317            | 0.0              | 750       | 1157             | 0.0              | 880       | 1136             | 0.0              |
| 365       | 696              | 0.0              | 495       | 12752            | 10.5             | 625       | 21413            | 0.0              | 755       | 1067             | 0.0              | 885       | 773              | 0.0              |
| 370       | 807              | 0.0              | 500       | 16685            | 13.4             | 630       | 19344            | 0.0              | 760       | 1059             | 0.0              | 890       | 872              | 0.0              |
| 375       | 837              | 0.0              | 505       | 20565            | 15.8             | 635       | 17464            | 0.0              | 765       | 1009             | 0.0              | 895       | 891              | 0.0              |
| 380       | 757              | 0.0              | 510       | 24119            | 17.3             | 640       | 15745            | 0.0              | 770       | 774              | 0.0              | 900       | 807              | 0.0              |
| 385       | 706              | 0.0              | 515       | 27181            | 17.8             | 645       | 14060            | 0.0              | 775       | 761              | 0.0              | 905       | 899              | 0.0              |
| 390       | 746              | 0.0              | 520       | 29555            | 17.2             | 650       | 12579            | 0.0              | 780       | 653              | 0.0              | 910       | 506              | 0.0              |
| 395       | 660              | 0.0              | 525       | 31307            | 15.9             | 655       | 11181            | 0.0              | 785       | 704              | 0.0              | 915       | 598              | 0.0              |
| 400       | 671              | 0.0              | 530       | 32558            | 14.1             | 660       | 9847             | 0.0              | 790       | 663              | 0.0              | 920       | 510              | 0.0              |
| 405       | 848              | 0.0              | 535       | 33301            | 12.0             | 665       | 8641             | 0.0              | 795       | 493              | 0.0              | 925       | 874              | 0.0              |
| 410       | 1490             | 0.1              | 540       | 33727            | 9.9              | 670       | 7535             | 0.0              | 800       | 584              | 0.0              | 930       | 549              | 0.0              |
| 415       | 3203             | 0.2              | 545       | 34356            | 8.0              | 675       | 6542             | 0.0              | 805       | 739              | 0.0              | 935       | 720              | 0.0              |
| 420       | 7298             | 0.8              | 550       | 34589            | 6.2              | 680       | 5664             | 0.0              | 810       | 601              | 0.0              | 940       | 754              | 0.0              |
| 425       | 15315            | 2.4              | 555       | 34855            | 4.7              | 685       | 4962             | 0.0              | 815       | 677              | 0.0              | 945       | 931              | 0.0              |
| 430       | 27886            | 5.9              | 560       | 35083            | 3.5              | 690       | 4369             | 0.0              | 820       | 726              | 0.0              | 950       | 811              | 0.0              |
| 435       | 45485            | 12.1             | 565       | 35553            | 2.5              | 695       | 3785             | 0.0              | 825       | 693              | 0.0              | 955       | 955              | 0.0              |
| 440       | 61965            | 20.7             | 570       | 35511            | 1.7              | 700       | 3318             | 0.0              | 830       | 619              | 0.0              | 960       | 1025             | 0.0              |
| 445       | 62721            | 24.7             | 575       | 35515            | 1.2              | 705       | 2962             | 0.0              | 835       | 738              | 0.0              | 965       | 916              | 0.0              |
| 450       | 44754            | 20.6             | 580       | 35114            | 0.8              | 710       | 2689             | 0.0              | 840       | 681              | 0.0              | 970       | 695              | 0.0              |
| 455       | 26152            | 13.7             | 585       | 34546            | 0.5              | 715       | 2476             | 0.0              | 845       | 691              | 0.0              | 975       | 568              | 0.0              |
| 460       | 17101            | 10.1             | 590       | 33522            | 0.3              | 720       | 2192             | 0.0              | 850       | 710              | 0.0              | 980       | 643              | 0.0              |
| 465       | 11400            | 7.4              | 595       | 32326            | 0.2              | 725       | 1939             | 0.0              | 855       | 1025             | 0.0              | 985       | 804              | 0.0              |
| 470       | 7763             | 5.6              | 600       | 30973            | 0.1              | 730       | 1698             | 0.0              | 860       | 889              | 0.0              | 990       | 812              | 0.0              |
| 475       | 6419             | 4.9              | 605       | 29160            | 0.1              | 735       | 1533             | 0.0              | 865       | 885              | 0.0              | 995       | 496              | 0.0              |
| 480       | 6330             | 5.1              | 610       | 27373            | 0.0              | 740       | 1375             | 0.0              | 870       | 905              | 0.0              | 1000      | 659              | 0.0              |
| 485       | 7299             | 6.0              | 615       | 25423            | 0.0              | 745       | 1254             | 0.0              | 875       | 739              | 0.0              |           |                  |                  |

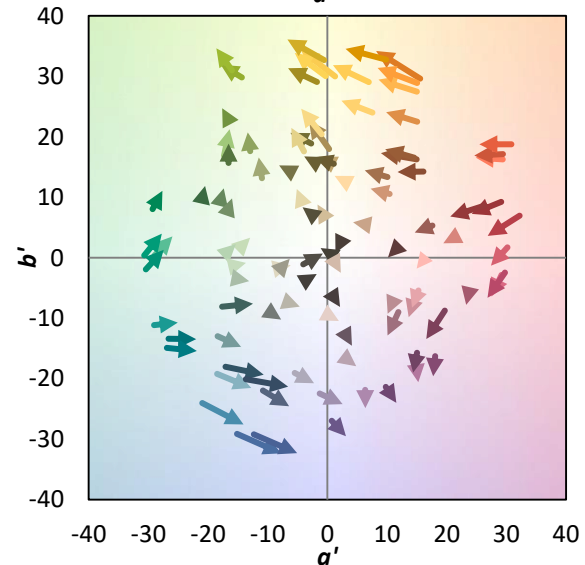
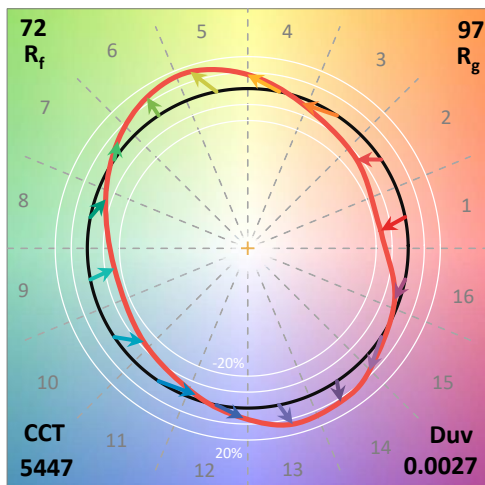
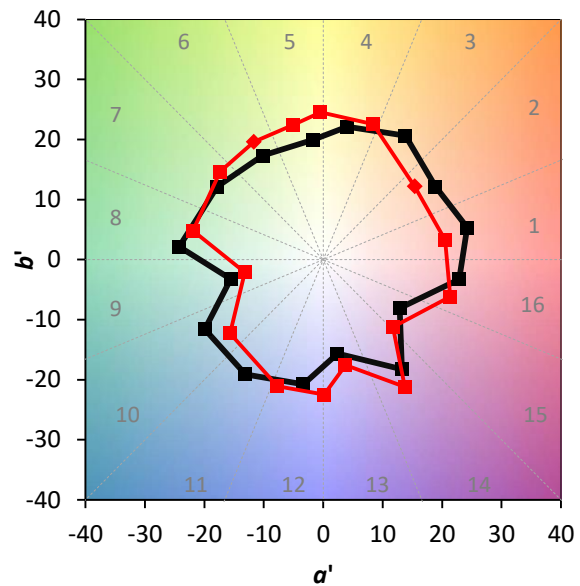
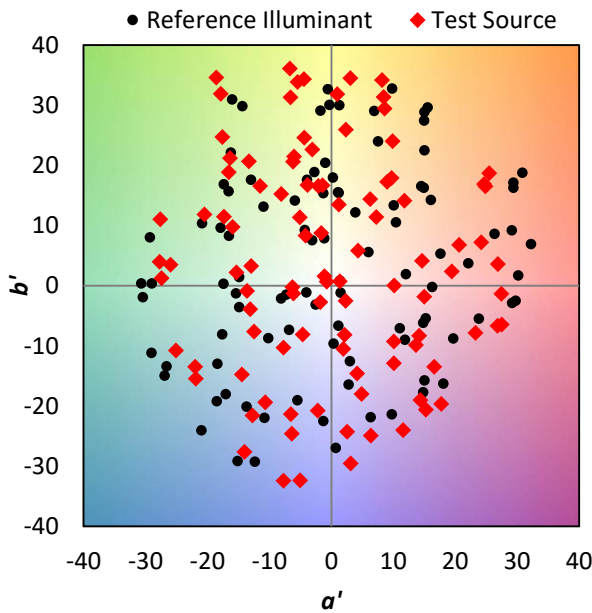
### Summary

$R_f = 72.3$   
 $R_g = 97.2$   
 CIE  $R_a = 71.9$   
 $R_g = -27.5$

### Spectral Power Distribution Comparison

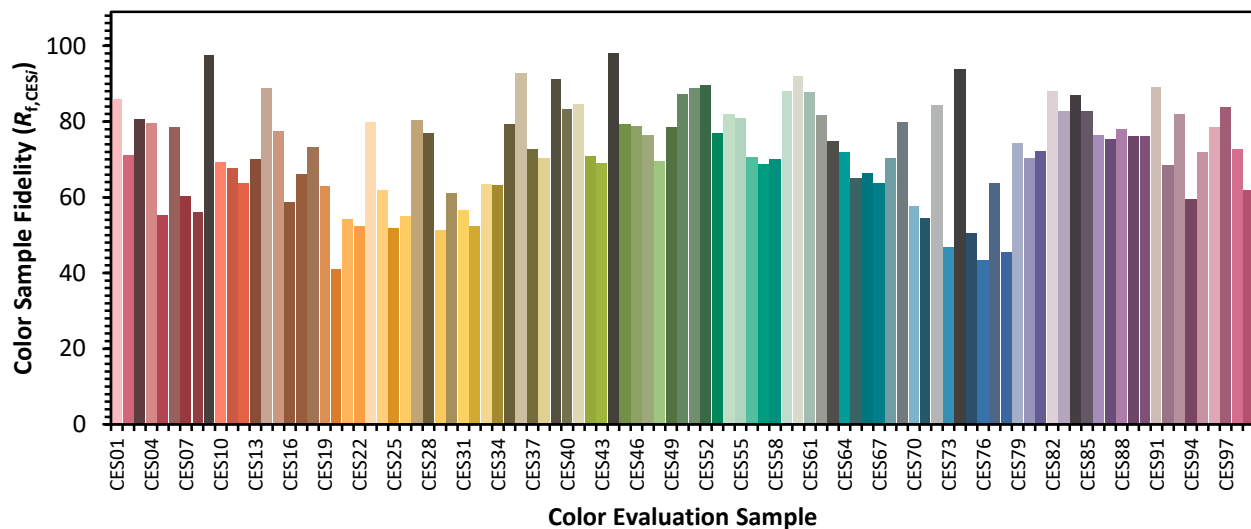


### Color Vector Graphics

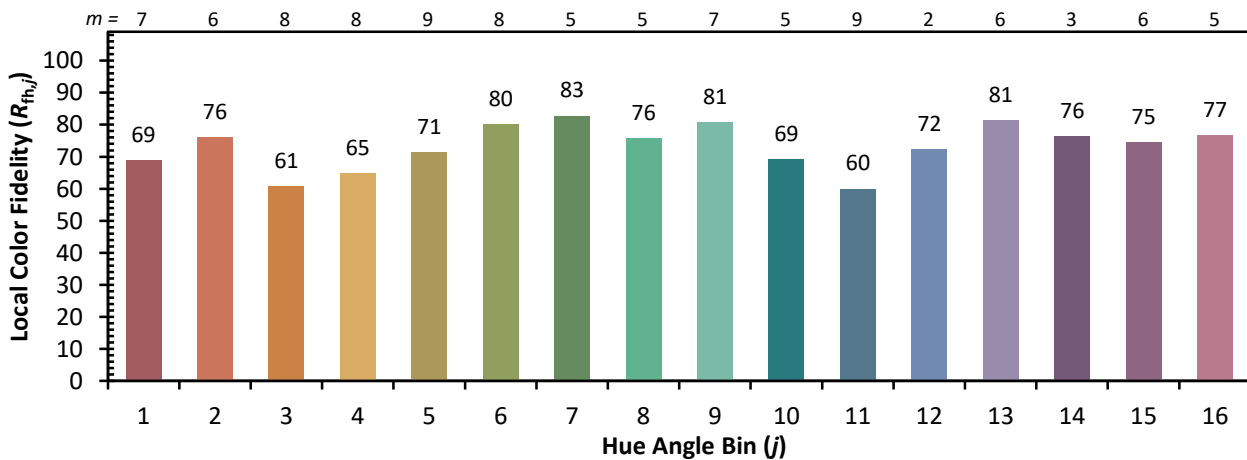
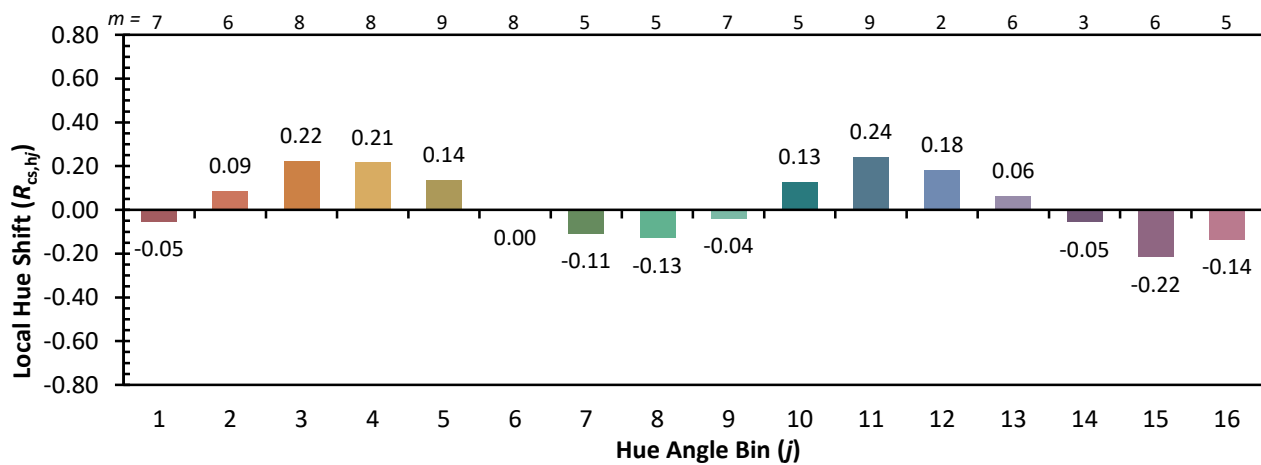
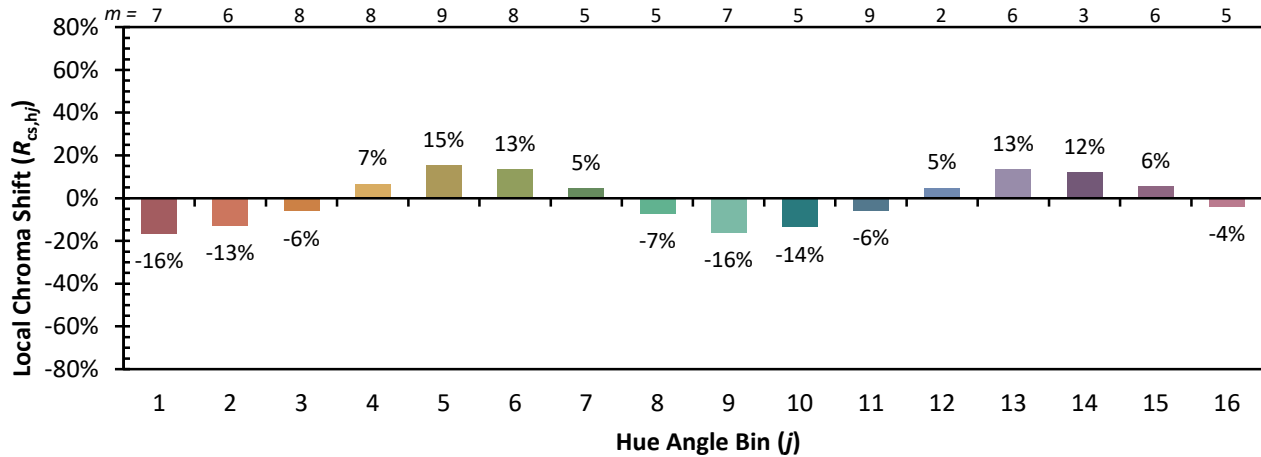


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

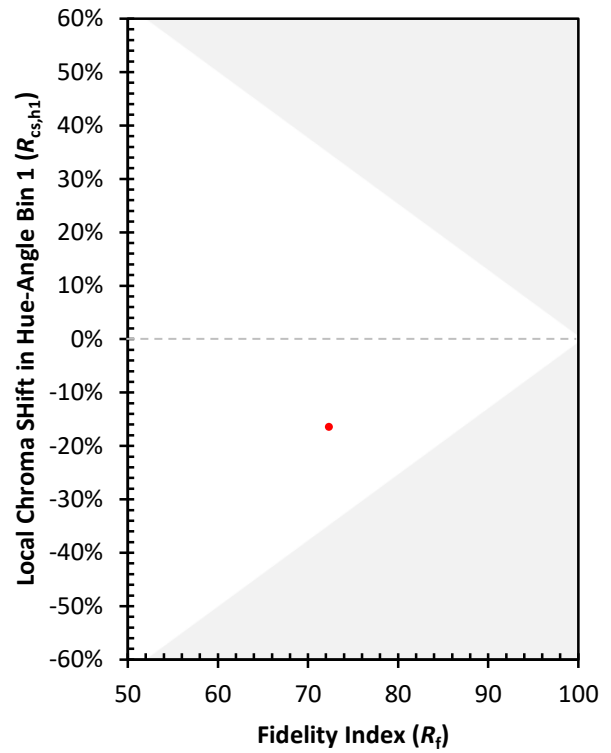
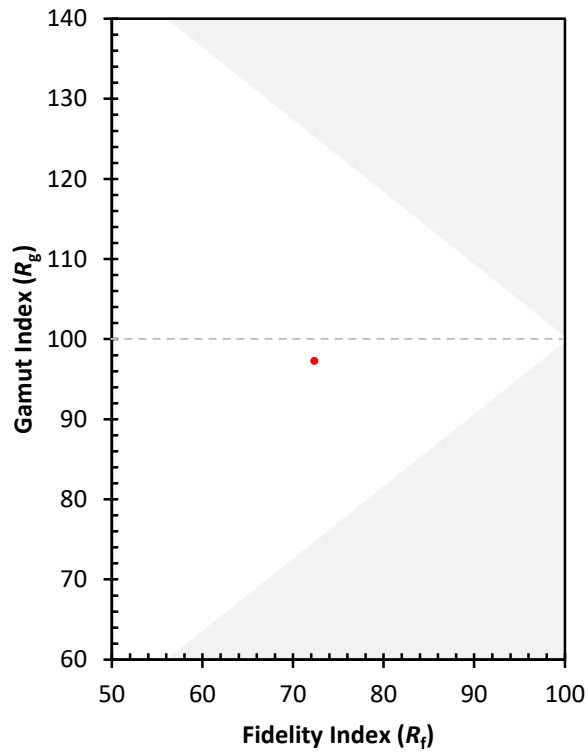
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 55 | CES51 = 89 | CES76 = 43 |
| CES02 = 59 | CES27 = 80 | CES52 = 90 | CES77 = 64 |
| CES03 = 30 | CES28 = 77 | CES53 = 77 | CES78 = 46 |
| CES04 = 69 | CES29 = 51 | CES54 = 82 | CES79 = 74 |
| CES05 = 46 | CES30 = 61 | CES55 = 81 | CES80 = 70 |
| CES06 = 50 | CES31 = 56 | CES56 = 71 | CES81 = 72 |
| CES07 = 38 | CES32 = 52 | CES57 = 69 | CES82 = 88 |
| CES08 = 38 | CES33 = 63 | CES58 = 70 | CES83 = 83 |
| CES09 = 29 | CES34 = 63 | CES59 = 88 | CES84 = 87 |
| CES10 = 72 | CES35 = 79 | CES60 = 92 | CES85 = 83 |
| CES11 = 55 | CES36 = 93 | CES61 = 88 | CES86 = 76 |
| CES12 = 61 | CES37 = 73 | CES62 = 82 | CES87 = 75 |
| CES13 = 41 | CES38 = 70 | CES63 = 75 | CES88 = 78 |
| CES14 = 74 | CES39 = 91 | CES64 = 72 | CES89 = 76 |
| CES15 = 70 | CES40 = 83 | CES65 = 65 | CES90 = 76 |
| CES16 = 46 | CES41 = 85 | CES66 = 66 | CES91 = 89 |
| CES17 = 48 | CES42 = 71 | CES67 = 64 | CES92 = 69 |
| CES18 = 55 | CES43 = 69 | CES68 = 70 | CES93 = 82 |
| CES19 = 71 | CES44 = 98 | CES69 = 80 | CES94 = 60 |
| CES20 = 64 | CES45 = 79 | CES70 = 58 | CES95 = 72 |
| CES21 = 85 | CES46 = 79 | CES71 = 54 | CES96 = 79 |
| CES22 = 77 | CES47 = 76 | CES72 = 84 | CES97 = 84 |
| CES23 = 91 | CES48 = 69 | CES73 = 47 | CES98 = 73 |
| CES24 = 90 | CES49 = 79 | CES74 = 94 | CES99 = 62 |
| CES25 = 71 | CES50 = 87 | CES75 = 50 |            |



Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)