

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: P386813

Luminaire Tested: **GWC-SA2C-730-U-SLR**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P386813  
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-SA2C-730-U-SLR  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11814 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 113  
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

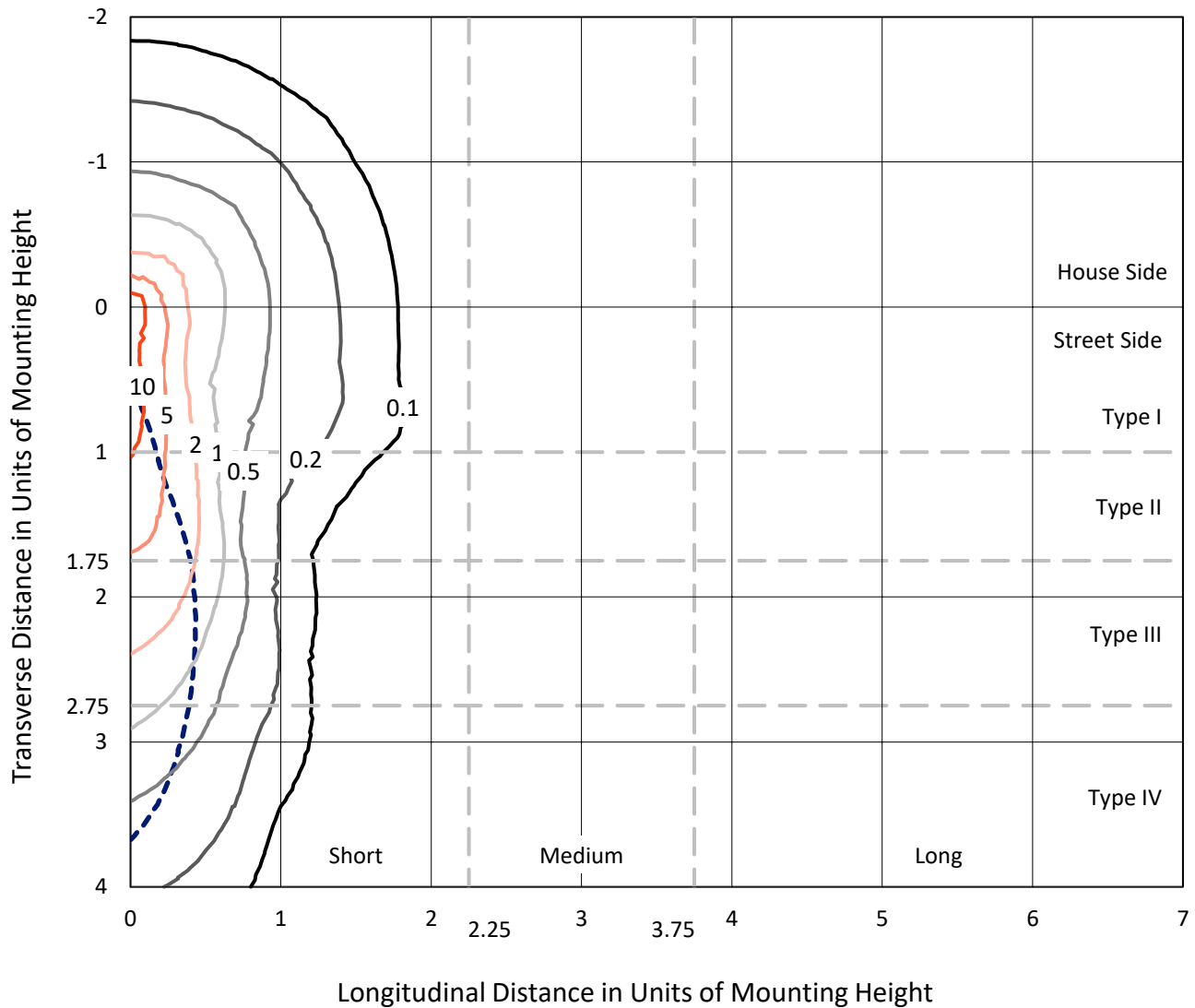


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

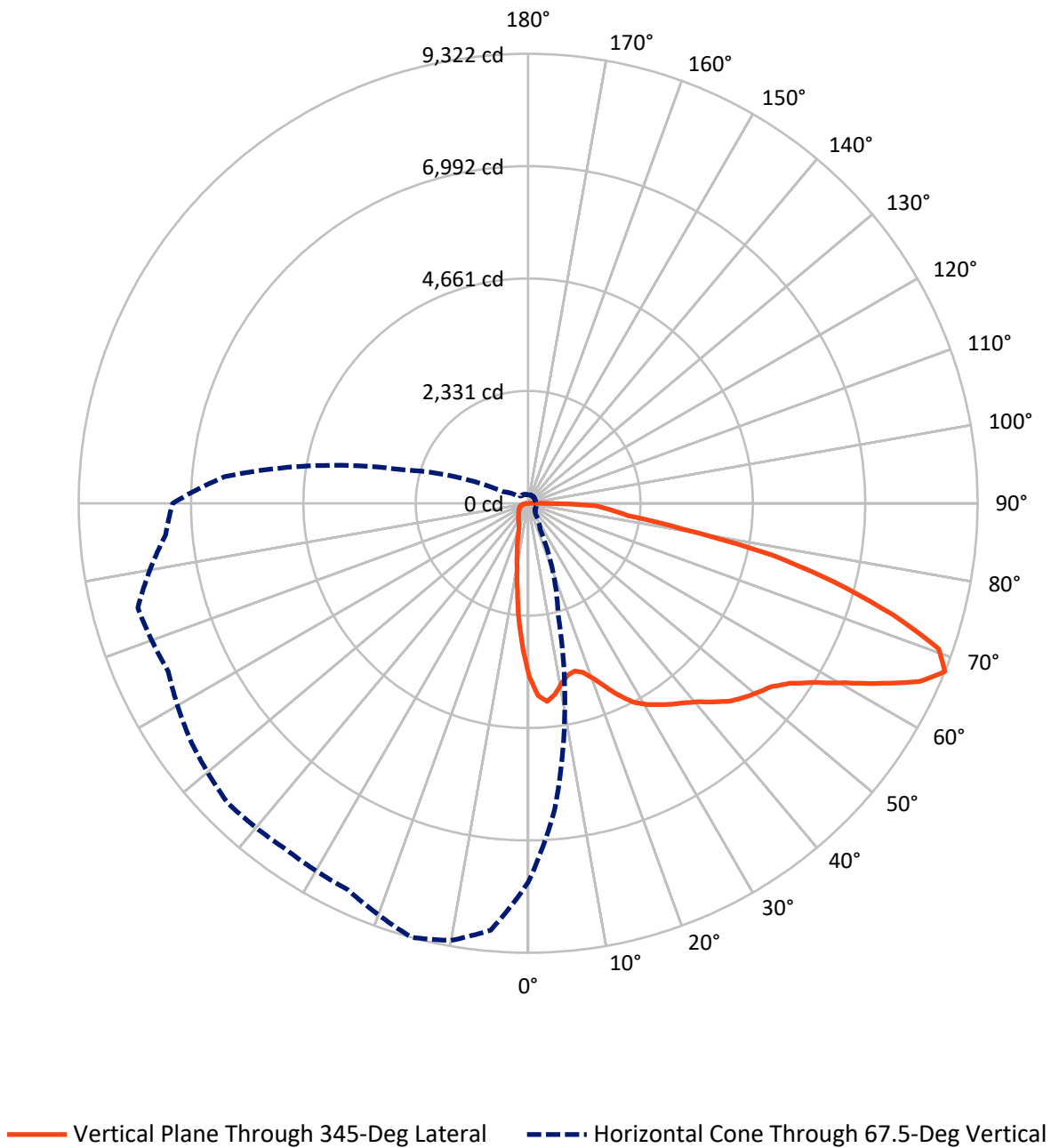


Based on 15 foot mounting height. Maximum calculated value = 16 fc  
 Type IV - Medium - N/A

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## Luminous Intensity Polar Plot



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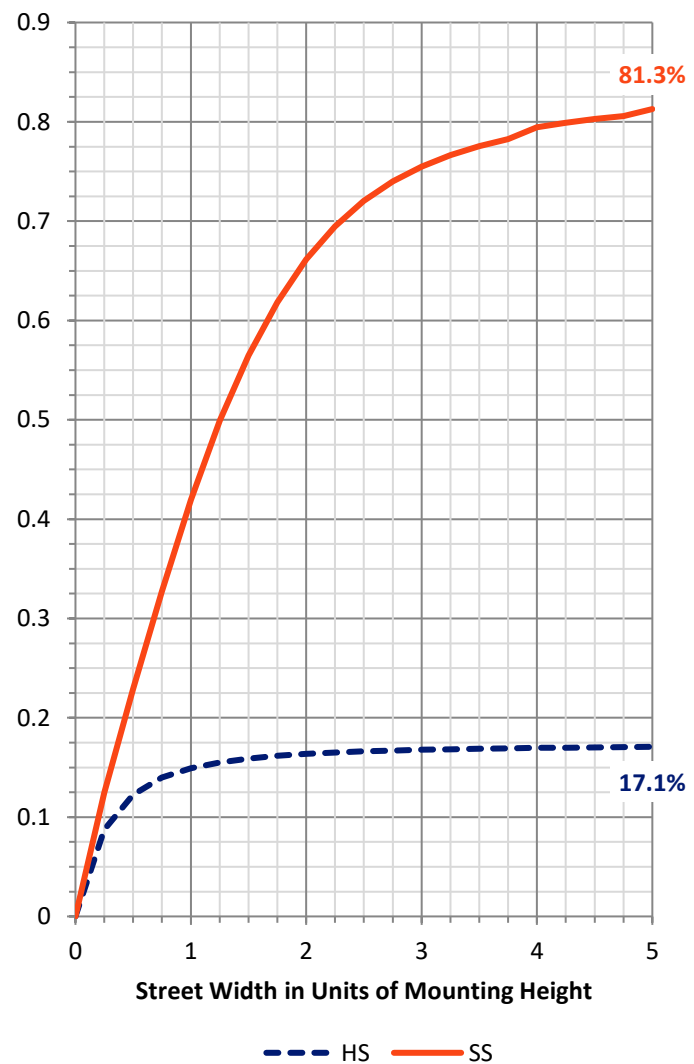
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2042.4   | 0.0    | 2042.4  |
|                    | % Fixture | 17.3     | 0.0    | 17.3    |
| <b>Street Side</b> | Lumens    | 9771.6   | 0.0    | 9771.6  |
|                    | % Fixture | 82.7     | 0.0    | 82.7    |
| <b>Total</b>       | Lumens    | 11814.0  | 0.0    | 11814.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 277.8   | 2.4       |
| 10°-20°   | 577.1   | 4.9       |
| 20°-30°   | 820.7   | 6.9       |
| 30°-40°   | 1182.6  | 10.0      |
| 40°-50°   | 1666.7  | 14.1      |
| 50°-60°   | 2316.9  | 19.6      |
| 60°-70°   | 2801.9  | 23.7      |
| 70°-80°   | 1722.3  | 14.6      |
| 80°-90°   | 448.2   | 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°    | 11814.0 | 100.0     |
| 0°-180°   | 11814.0 | 100.0     |

**Coefficient of Utilization**



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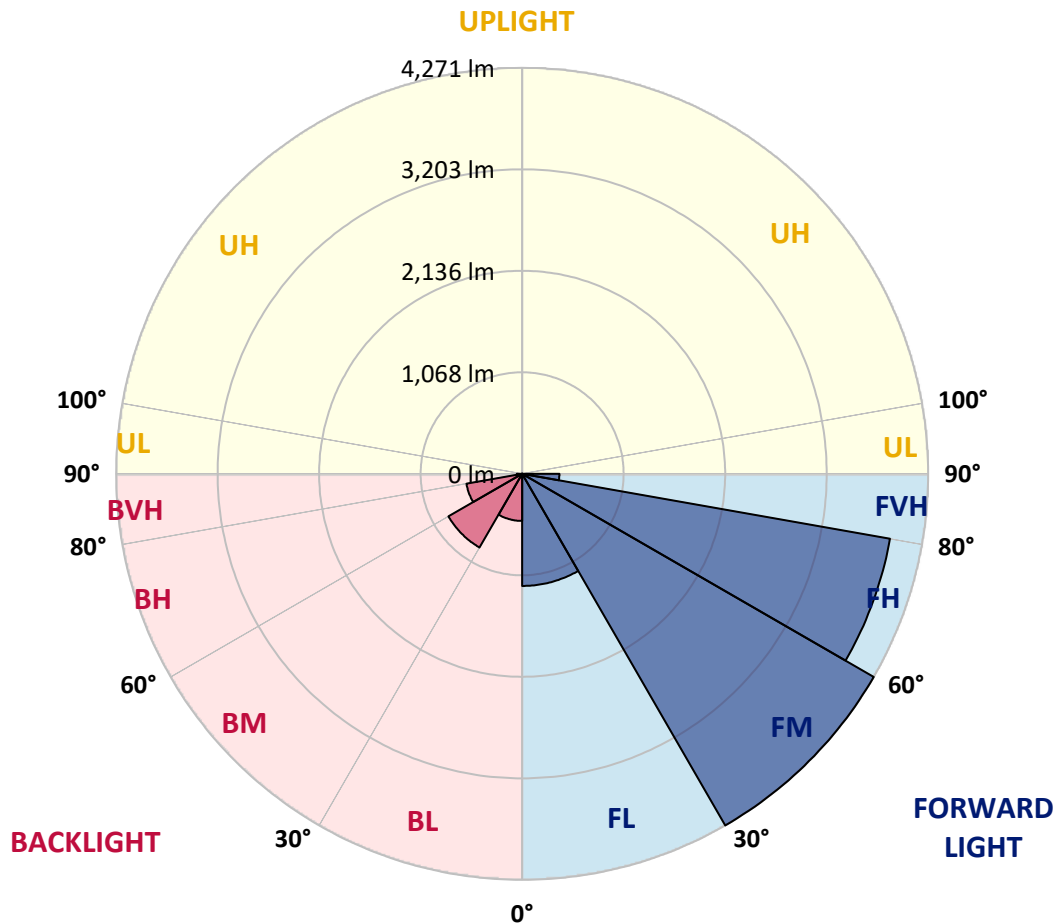
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1179.7 | 10.0      |                         |      |         |
| FM   | (30°-60°)   | 4271.1 | 36.2      |                         |      |         |
| FH   | (60°-80°)   | 3928.9 | 33.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 392.0  | 3.3       |                         |      | G3/500  |
| BL   | (0°-30°)    | 495.9  | 4.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 895.1  | 7.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 595.2  | 5.0       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 56.2   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 |
| 2.5°   | 3855.7 | 3821.7 | 3770.2 | 3718.7 | 3680.5 | 3641.7 | 3597.8 | 3553.9 | 3503.8 | 3453.3 | 3423.5 |
| 5°     | 3791.9 | 3697.5 | 3574.7 | 3451.8 | 3370.6 | 3289.4 | 3197.3 | 3105.2 | 3014.0 | 2922.8 | 2873.7 |
| 7.5°   | 3504.7 | 3363.0 | 3203.4 | 3043.7 | 2925.7 | 2807.1 | 2679.6 | 2551.6 | 2438.2 | 2324.4 | 2254.0 |
| 10°    | 3222.3 | 3052.2 | 2869.0 | 2685.2 | 2534.1 | 2382.9 | 2254.9 | 2126.5 | 2041.0 | 1955.5 | 1890.8 |
| 12.5°  | 3019.7 | 2831.2 | 2629.5 | 2427.3 | 2276.2 | 2125.0 | 2043.8 | 1962.6 | 1891.7 | 1820.9 | 1746.2 |
| 15°    | 2939.4 | 2726.3 | 2519.9 | 2313.0 | 2175.6 | 2038.1 | 1947.9 | 1857.2 | 1762.3 | 1666.9 | 1575.2 |
| 17.5°  | 3010.2 | 2760.8 | 2536.5 | 2312.1 | 2132.1 | 1952.2 | 1826.1 | 1699.5 | 1574.3 | 1449.1 | 1342.9 |
| 20°    | 3231.3 | 2912.9 | 2619.6 | 2325.8 | 2086.3 | 1846.8 | 1677.7 | 1508.2 | 1347.6 | 1187.0 | 1066.5 |
| 22.5°  | 3541.6 | 3120.3 | 2737.2 | 2354.1 | 2044.8 | 1734.9 | 1522.8 | 1310.3 | 1120.4 | 930.5  | 812.4  |
| 25°    | 3918.5 | 3395.2 | 2906.8 | 2417.9 | 2027.7 | 1637.1 | 1376.4 | 1115.7 | 915.4  | 714.6  | 630.6  |
| 27.5°  | 4315.8 | 3723.0 | 3117.4 | 2511.4 | 2030.6 | 1549.7 | 1253.1 | 956.0  | 775.6  | 595.1  | 537.5  |
| 30°    | 4646.9 | 4097.5 | 3363.0 | 2628.1 | 2041.4 | 1454.8 | 1136.9 | 819.0  | 670.2  | 521.5  | 484.1  |
| 32.5°  | 4949.6 | 4358.7 | 3548.2 | 2737.2 | 2053.7 | 1369.8 | 1047.2 | 724.1  | 602.7  | 480.8  | 450.1  |
| 35°    | 5262.3 | 4590.7 | 3677.6 | 2764.1 | 2032.5 | 1300.3 | 985.8  | 671.2  | 559.2  | 446.8  | 420.9  |
| 37.5°  | 5606.7 | 4841.5 | 3802.3 | 2762.7 | 1996.6 | 1230.4 | 938.1  | 645.2  | 530.9  | 416.1  | 397.2  |
| 40°    | 5990.7 | 5118.7 | 3937.4 | 2756.1 | 1964.0 | 1171.4 | 902.6  | 633.4  | 515.3  | 396.8  | 380.7  |
| 42.5°  | 6366.2 | 5383.2 | 4063.1 | 2742.9 | 1937.5 | 1131.7 | 867.7  | 603.6  | 501.2  | 398.2  | 375.5  |
| 45°    | 6648.2 | 5614.2 | 4172.2 | 2729.6 | 1917.7 | 1105.7 | 840.3  | 574.8  | 487.9  | 401.0  | 372.2  |
| 47.5°  | 6862.1 | 5846.1 | 4293.1 | 2739.6 | 1915.8 | 1092.0 | 820.9  | 549.8  | 462.9  | 375.5  | 363.7  |
| 50°    | 7134.2 | 6124.8 | 4469.3 | 2813.7 | 1941.8 | 1069.8 | 798.3  | 526.2  | 438.8  | 351.4  | 367.5  |
| 52.5°  | 7472.9 | 6522.5 | 4742.3 | 2961.6 | 1996.1 | 1030.6 | 762.4  | 494.1  | 409.5  | 324.5  | 349.5  |
| 55°    | 7970.2 | 7032.2 | 5091.3 | 3150.0 | 2061.8 | 973.0  | 708.0  | 442.6  | 370.8  | 298.5  | 320.7  |
| 57.5°  | 8416.6 | 7547.0 | 5426.2 | 3305.0 | 2102.8 | 900.3  | 639.5  | 378.8  | 327.3  | 275.8  | 288.6  |
| 60°    | 8615.4 | 7812.5 | 5583.0 | 3353.1 | 2078.3 | 803.4  | 562.6  | 321.2  | 289.1  | 257.0  | 254.6  |
| 62.5°  | 8538.0 | 7643.8 | 5428.6 | 3213.3 | 1958.3 | 703.3  | 494.5  | 285.8  | 261.7  | 237.1  | 231.9  |
| 65°    | 8311.3 | 7113.9 | 4995.9 | 2878.0 | 1755.7 | 633.4  | 451.6  | 269.7  | 242.8  | 215.9  | 210.2  |
| 67.5°  | 7864.4 | 6359.6 | 4382.8 | 2406.1 | 1498.3 | 590.4  | 427.0  | 263.6  | 231.0  | 197.9  | 191.3  |
| 70°    | 7062.4 | 5451.7 | 3676.7 | 1901.2 | 1232.8 | 564.0  | 410.9  | 257.9  | 218.2  | 178.1  | 171.9  |
| 72.5°  | 5800.8 | 4371.0 | 2936.1 | 1500.6 | 1030.6 | 560.7  | 409.0  | 257.4  | 207.8  | 158.2  | 152.6  |
| 75°    | 4153.3 | 3320.1 | 2241.2 | 1162.0 | 844.1  | 526.2  | 388.3  | 250.3  | 193.7  | 136.5  | 131.3  |
| 77.5°  | 2794.8 | 2297.9 | 1557.8 | 817.1  | 626.3  | 435.5  | 326.4  | 217.3  | 165.8  | 114.3  | 109.1  |
| 80°    | 1794.9 | 1590.4 | 1043.9 | 497.4  | 406.2  | 315.0  | 233.3  | 151.6  | 120.9  | 89.7   | 85.5   |
| 82.5°  | 1316.9 | 1183.7 | 725.5  | 267.3  | 225.8  | 183.7  | 142.6  | 101.6  | 82.7   | 63.8   | 61.9   |
| 85°    | 837.0  | 922.9  | 534.2  | 145.5  | 119.0  | 92.6   | 76.5   | 60.5   | 47.7   | 35.0   | 35.0   |
| 87.5°  | 162.5  | 224.8  | 147.8  | 70.4   | 51.5   | 32.6   | 27.9   | 22.7   | 12.8   | 2.4    | 2.8    |
| 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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**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°     | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 |
| 2.5°   | 3393.3 | 3360.7 | 3328.1 | 3291.3 | 3253.9 | 3219.5 | 3184.5 | 3146.2 | 3153.3 | 3124.0 | 3094.8 |
| 5°     | 2824.6 | 2772.6 | 2720.2 | 2674.9 | 2629.5 | 2590.3 | 2550.6 | 2515.2 | 2545.9 | 2525.1 | 2504.3 |
| 7.5°   | 2183.1 | 2118.9 | 2054.2 | 1999.9 | 1945.6 | 1903.5 | 1861.0 | 1831.7 | 1862.0 | 1858.2 | 1854.4 |
| 10°    | 1826.1 | 1763.7 | 1700.9 | 1640.9 | 1580.9 | 1529.9 | 1478.4 | 1435.0 | 1427.4 | 1405.7 | 1383.5 |
| 12.5°  | 1671.1 | 1585.6 | 1499.7 | 1436.9 | 1374.0 | 1313.1 | 1252.2 | 1201.2 | 1178.0 | 1142.1 | 1105.7 |
| 15°    | 1483.6 | 1382.5 | 1281.5 | 1210.1 | 1138.3 | 1079.3 | 1019.8 | 975.9  | 961.2  | 933.3  | 905.5  |
| 17.5°  | 1236.6 | 1126.1 | 1015.5 | 943.3  | 870.5  | 823.3  | 775.6  | 746.3  | 746.3  | 738.3  | 730.2  |
| 20°    | 946.1  | 847.4  | 748.7  | 693.4  | 638.1  | 613.1  | 587.6  | 575.3  | 579.1  | 579.6  | 579.6  |
| 22.5°  | 693.9  | 633.4  | 572.9  | 550.7  | 528.1  | 519.1  | 510.1  | 504.9  | 506.8  | 507.3  | 507.8  |
| 25°    | 546.5  | 523.4  | 499.7  | 488.4  | 476.6  | 470.9  | 465.3  | 463.4  | 467.6  | 468.1  | 468.1  |
| 27.5°  | 479.9  | 465.7  | 451.1  | 444.0  | 436.4  | 434.1  | 431.7  | 428.4  | 432.7  | 432.7  | 432.2  |
| 30°    | 446.4  | 431.2  | 416.1  | 407.2  | 398.2  | 399.1  | 399.6  | 398.7  | 401.5  | 403.4  | 404.8  |
| 32.5°  | 419.0  | 404.3  | 389.7  | 380.7  | 371.3  | 369.8  | 368.4  | 367.5  | 373.6  | 376.9  | 380.2  |
| 35°    | 394.4  | 378.3  | 362.3  | 353.8  | 345.3  | 342.0  | 338.7  | 336.3  | 342.0  | 346.2  | 350.5  |
| 37.5°  | 377.9  | 361.3  | 344.3  | 336.3  | 327.8  | 323.6  | 319.3  | 316.5  | 318.8  | 320.7  | 322.6  |
| 40°    | 364.6  | 347.6  | 330.2  | 320.7  | 311.3  | 307.0  | 302.8  | 300.4  | 301.8  | 302.3  | 302.8  |
| 42.5°  | 352.4  | 335.8  | 319.3  | 308.9  | 298.0  | 292.8  | 287.7  | 284.8  | 285.8  | 286.7  | 287.2  |
| 45°    | 343.4  | 326.9  | 309.9  | 297.6  | 284.8  | 279.2  | 273.5  | 270.2  | 270.6  | 270.6  | 270.6  |
| 47.5°  | 351.9  | 327.8  | 303.2  | 289.1  | 274.4  | 267.8  | 261.2  | 257.9  | 257.0  | 256.0  | 255.1  |
| 50°    | 383.1  | 342.0  | 300.4  | 282.5  | 264.0  | 257.0  | 249.4  | 245.6  | 243.3  | 242.3  | 241.4  |
| 52.5°  | 374.1  | 338.7  | 302.8  | 279.6  | 256.0  | 247.5  | 239.0  | 232.9  | 230.5  | 229.1  | 227.7  |
| 55°    | 342.4  | 320.2  | 297.6  | 269.7  | 241.8  | 234.3  | 226.2  | 222.0  | 217.7  | 216.8  | 215.9  |
| 57.5°  | 300.9  | 291.9  | 282.9  | 254.6  | 226.2  | 219.2  | 211.6  | 208.8  | 205.0  | 205.0  | 204.5  |
| 60°    | 251.8  | 265.0  | 278.2  | 245.6  | 212.6  | 204.5  | 196.5  | 194.1  | 192.7  | 192.2  | 191.8  |
| 62.5°  | 226.2  | 248.0  | 269.2  | 234.8  | 199.8  | 191.3  | 182.8  | 180.0  | 179.5  | 180.0  | 180.0  |
| 65°    | 204.5  | 211.1  | 217.7  | 201.7  | 185.6  | 177.1  | 168.2  | 165.3  | 166.3  | 167.7  | 169.1  |
| 67.5°  | 184.7  | 183.3  | 181.9  | 176.2  | 170.0  | 163.0  | 155.4  | 152.6  | 153.0  | 154.9  | 156.8  |
| 70°    | 165.8  | 163.9  | 161.5  | 157.3  | 153.0  | 146.9  | 140.8  | 138.9  | 138.4  | 140.8  | 142.6  |
| 72.5°  | 146.9  | 144.5  | 141.7  | 138.4  | 134.6  | 129.4  | 124.2  | 122.8  | 123.3  | 124.7  | 126.1  |
| 75°    | 126.1  | 124.2  | 121.9  | 119.0  | 115.7  | 111.0  | 106.3  | 105.3  | 106.3  | 107.7  | 109.1  |
| 77.5°  | 103.4  | 103.0  | 102.0  | 99.7   | 97.3   | 92.1   | 86.4   | 86.0   | 87.4   | 88.8   | 89.7   |
| 80°    | 80.8   | 81.2   | 81.7   | 79.8   | 77.9   | 72.3   | 66.1   | 65.7   | 67.1   | 68.5   | 69.9   |
| 82.5°  | 59.5   | 60.9   | 61.9   | 59.5   | 57.2   | 50.5   | 43.9   | 43.0   | 47.7   | 49.1   | 50.5   |
| 85°    | 34.5   | 36.4   | 38.3   | 36.4   | 34.5   | 27.9   | 21.3   | 20.8   | 25.0   | 27.4   | 29.8   |
| 87.5°  | 2.8    | 3.8    | 4.7    | 4.3    | 3.8    | 1.9    | 0.0    | 0.0    | 0.5    | 2.4    | 4.3    |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P386813

CATALOG NUMBER: GWC-SA2C-730-U-SLR

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

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 |
| 2.5°   | 3076.3 | 3057.9 | 3052.2 | 3046.6 | 3025.8 | 3004.5 | 3026.3 | 3047.5 | 3056.5 | 3065.5 | 3042.3 |
| 5°     | 2501.5 | 2498.2 | 2498.2 | 2497.7 | 2478.8 | 2459.5 | 2474.1 | 2488.3 | 2456.6 | 2425.0 | 2421.7 |
| 7.5°   | 1874.7 | 1895.0 | 1911.6 | 1927.6 | 1921.5 | 1915.3 | 1929.0 | 1942.7 | 1902.6 | 1862.0 | 1842.1 |
| 10°    | 1388.2 | 1392.5 | 1410.4 | 1428.4 | 1432.6 | 1436.4 | 1453.4 | 1469.9 | 1438.7 | 1407.6 | 1393.9 |
| 12.5°  | 1083.1 | 1060.4 | 1062.8 | 1064.7 | 1073.2 | 1081.2 | 1099.1 | 1116.6 | 1103.9 | 1090.6 | 1092.0 |
| 15°    | 877.1  | 848.3  | 836.5  | 824.2  | 833.7  | 843.1  | 855.9  | 868.2  | 868.6  | 868.6  | 880.9  |
| 17.5°  | 716.1  | 701.4  | 689.6  | 677.3  | 690.1  | 702.4  | 703.8  | 705.2  | 705.7  | 706.1  | 705.2  |
| 20°    | 586.6  | 593.7  | 590.0  | 586.2  | 590.9  | 595.1  | 598.9  | 602.2  | 598.0  | 593.3  | 581.4  |
| 22.5°  | 514.4  | 520.5  | 525.2  | 529.5  | 537.5  | 545.1  | 541.3  | 537.0  | 528.5  | 519.6  | 510.6  |
| 25°    | 472.3  | 476.6  | 481.3  | 486.0  | 492.6  | 498.8  | 492.2  | 485.6  | 479.4  | 473.3  | 467.1  |
| 27.5°  | 436.9  | 441.2  | 445.4  | 449.2  | 455.3  | 461.0  | 454.9  | 448.7  | 443.5  | 438.3  | 433.6  |
| 30°    | 408.1  | 410.9  | 414.2  | 417.5  | 423.2  | 428.4  | 423.2  | 417.5  | 413.8  | 409.5  | 406.2  |
| 32.5°  | 383.5  | 386.4  | 387.8  | 389.2  | 394.4  | 399.6  | 395.8  | 392.0  | 388.7  | 385.4  | 383.1  |
| 35°    | 356.6  | 362.3  | 363.2  | 364.2  | 369.4  | 374.6  | 372.2  | 369.4  | 365.6  | 361.8  | 357.6  |
| 37.5°  | 329.2  | 335.8  | 339.6  | 342.9  | 348.1  | 353.3  | 350.9  | 348.6  | 343.4  | 338.2  | 330.6  |
| 40°    | 306.1  | 308.9  | 316.0  | 322.6  | 331.1  | 339.1  | 334.4  | 329.2  | 321.2  | 313.2  | 309.4  |
| 42.5°  | 286.7  | 286.2  | 292.8  | 299.5  | 312.2  | 324.5  | 316.0  | 307.5  | 299.9  | 292.4  | 291.4  |
| 45°    | 269.7  | 268.3  | 271.6  | 274.9  | 288.6  | 301.8  | 293.3  | 284.3  | 280.1  | 275.8  | 275.8  |
| 47.5°  | 254.6  | 253.6  | 256.0  | 257.9  | 266.4  | 274.4  | 270.2  | 265.9  | 263.6  | 261.2  | 261.7  |
| 50°    | 240.9  | 239.9  | 242.3  | 244.2  | 247.5  | 250.3  | 251.3  | 251.8  | 250.3  | 248.9  | 249.9  |
| 52.5°  | 228.1  | 228.1  | 229.1  | 229.6  | 233.8  | 238.1  | 238.1  | 237.6  | 237.6  | 237.6  | 238.5  |
| 55°    | 217.3  | 218.2  | 218.2  | 218.2  | 224.8  | 231.0  | 229.1  | 227.2  | 227.7  | 227.7  | 228.6  |
| 57.5°  | 206.4  | 207.8  | 208.8  | 209.7  | 216.3  | 222.9  | 221.1  | 219.2  | 219.2  | 219.2  | 219.6  |
| 60°    | 194.1  | 196.0  | 197.9  | 199.8  | 206.4  | 213.0  | 211.1  | 208.8  | 209.2  | 209.7  | 210.2  |
| 62.5°  | 182.3  | 184.2  | 186.1  | 188.0  | 194.6  | 201.2  | 199.3  | 197.0  | 198.4  | 199.3  | 199.3  |
| 65°    | 171.0  | 172.4  | 174.3  | 176.2  | 182.3  | 188.5  | 186.6  | 184.7  | 186.6  | 188.0  | 188.9  |
| 67.5°  | 158.2  | 159.2  | 161.1  | 163.0  | 169.1  | 175.2  | 173.3  | 171.0  | 173.3  | 175.2  | 177.1  |
| 70°    | 143.6  | 144.5  | 146.9  | 148.8  | 154.9  | 161.1  | 158.7  | 156.3  | 158.7  | 161.1  | 163.0  |
| 72.5°  | 127.5  | 128.5  | 130.8  | 132.7  | 139.8  | 146.9  | 144.1  | 141.2  | 144.1  | 146.9  | 147.8  |
| 75°    | 110.1  | 111.0  | 113.8  | 116.2  | 123.3  | 130.4  | 128.0  | 125.2  | 127.5  | 129.9  | 130.4  |
| 77.5°  | 91.2   | 92.6   | 96.4   | 100.1  | 105.8  | 111.5  | 110.1  | 108.6  | 110.1  | 111.5  | 111.5  |
| 80°    | 71.3   | 72.7   | 77.5   | 81.7   | 85.0   | 88.3   | 88.8   | 89.3   | 89.7   | 90.2   | 89.7   |
| 82.5°  | 52.9   | 54.8   | 59.0   | 63.3   | 63.3   | 63.3   | 67.1   | 70.4   | 70.4   | 69.9   | 69.4   |
| 85°    | 32.6   | 35.0   | 38.7   | 42.5   | 40.1   | 37.8   | 43.9   | 49.6   | 49.6   | 49.1   | 48.2   |
| 87.5°  | 6.6    | 9.0    | 12.8   | 16.1   | 13.7   | 11.3   | 17.5   | 23.6   | 24.1   | 24.1   | 23.1   |
| 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    |



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**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°     | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 |
| 2.5°   | 3018.7 | 3055.6 | 3091.9 | 3101.4 | 3115.5 | 3121.7 | 3127.4 | 3173.6 | 3219.5 | 3273.3 | 3327.2 |
| 5°     | 2417.9 | 2445.3 | 2472.7 | 2476.9 | 2491.6 | 2499.1 | 2506.7 | 2562.9 | 2618.6 | 2693.7 | 2768.8 |
| 7.5°   | 1822.3 | 1828.9 | 1835.5 | 1834.6 | 1846.8 | 1863.4 | 1879.4 | 1939.4 | 1998.9 | 2079.7 | 2160.0 |
| 10°    | 1380.2 | 1395.3 | 1409.9 | 1423.6 | 1450.6 | 1481.7 | 1512.4 | 1573.8 | 1635.2 | 1715.1 | 1794.4 |
| 12.5°  | 1093.5 | 1110.9 | 1127.9 | 1143.1 | 1174.2 | 1215.8 | 1256.9 | 1330.6 | 1404.3 | 1499.7 | 1594.6 |
| 15°    | 892.7  | 891.3  | 889.9  | 900.3  | 927.7  | 973.0  | 1017.9 | 1095.8 | 1173.8 | 1278.6 | 1383.0 |
| 17.5°  | 704.3  | 697.2  | 690.1  | 698.1  | 723.6  | 760.9  | 797.8  | 863.9  | 929.6  | 1031.1 | 1132.7 |
| 20°    | 569.6  | 564.9  | 560.2  | 567.8  | 583.8  | 599.4  | 615.0  | 662.7  | 709.9  | 792.6  | 874.8  |
| 22.5°  | 501.2  | 500.7  | 499.7  | 504.0  | 511.5  | 519.6  | 527.1  | 550.3  | 572.9  | 626.3  | 679.2  |
| 25°    | 461.0  | 460.5  | 460.1  | 461.9  | 468.1  | 474.2  | 480.4  | 495.5  | 510.6  | 536.1  | 561.6  |
| 27.5°  | 428.9  | 427.9  | 427.0  | 427.5  | 428.9  | 438.3  | 447.3  | 454.4  | 461.0  | 478.5  | 495.5  |
| 30°    | 402.9  | 402.4  | 402.0  | 402.0  | 400.5  | 403.8  | 407.2  | 418.0  | 428.4  | 446.4  | 464.3  |
| 32.5°  | 380.7  | 378.3  | 376.0  | 370.8  | 367.5  | 372.2  | 376.9  | 388.3  | 399.6  | 416.1  | 432.7  |
| 35°    | 352.8  | 346.7  | 340.1  | 337.2  | 337.7  | 342.4  | 347.2  | 358.5  | 369.4  | 387.3  | 404.8  |
| 37.5°  | 322.6  | 320.7  | 318.4  | 317.9  | 319.3  | 324.0  | 328.7  | 338.7  | 348.1  | 366.1  | 383.5  |
| 40°    | 305.6  | 304.7  | 303.7  | 302.8  | 303.7  | 308.4  | 313.2  | 322.6  | 331.6  | 349.1  | 366.1  |
| 42.5°  | 290.5  | 290.0  | 289.5  | 289.5  | 290.0  | 295.2  | 300.4  | 309.9  | 318.8  | 334.4  | 350.0  |
| 45°    | 275.8  | 276.3  | 276.3  | 277.3  | 278.7  | 283.9  | 288.6  | 299.0  | 309.4  | 324.5  | 339.6  |
| 47.5°  | 262.1  | 263.6  | 264.5  | 266.9  | 268.3  | 274.0  | 279.2  | 290.5  | 301.8  | 320.7  | 339.1  |
| 50°    | 250.3  | 251.8  | 252.7  | 254.6  | 258.4  | 265.0  | 271.6  | 285.3  | 298.5  | 330.2  | 361.3  |
| 52.5°  | 239.5  | 240.9  | 242.3  | 244.2  | 248.9  | 256.5  | 264.0  | 281.0  | 297.6  | 334.4  | 371.3  |
| 55°    | 229.6  | 231.0  | 231.9  | 234.8  | 239.5  | 246.1  | 252.2  | 273.0  | 293.8  | 320.7  | 347.6  |
| 57.5°  | 220.1  | 221.5  | 222.5  | 224.4  | 226.7  | 233.8  | 240.4  | 262.6  | 284.8  | 303.7  | 322.1  |
| 60°    | 210.2  | 211.1  | 211.6  | 211.6  | 213.5  | 221.5  | 229.6  | 257.9  | 285.8  | 282.5  | 278.7  |
| 62.5°  | 199.3  | 200.3  | 200.7  | 199.3  | 201.7  | 210.2  | 218.7  | 255.5  | 292.4  | 269.7  | 247.0  |
| 65°    | 189.4  | 188.9  | 188.5  | 187.0  | 189.9  | 198.4  | 206.4  | 224.8  | 243.3  | 234.3  | 225.3  |
| 67.5°  | 178.5  | 177.1  | 175.7  | 173.8  | 176.7  | 184.2  | 191.3  | 197.4  | 203.6  | 204.5  | 205.5  |
| 70°    | 164.8  | 163.0  | 161.1  | 160.6  | 162.0  | 168.2  | 174.3  | 178.5  | 182.3  | 184.2  | 185.6  |
| 72.5°  | 148.8  | 147.4  | 146.0  | 145.0  | 145.5  | 150.7  | 155.4  | 159.2  | 163.0  | 164.4  | 165.3  |
| 75°    | 130.8  | 130.8  | 130.4  | 127.5  | 127.5  | 131.8  | 135.6  | 138.9  | 142.2  | 144.1  | 146.0  |
| 77.5°  | 111.5  | 111.9  | 111.9  | 108.2  | 107.7  | 111.9  | 115.7  | 118.6  | 120.9  | 122.8  | 124.2  |
| 80°    | 89.3   | 88.3   | 87.4   | 85.0   | 84.1   | 89.3   | 94.0   | 96.4   | 98.2   | 98.7   | 98.7   |
| 82.5°  | 68.5   | 66.6   | 64.2   | 59.0   | 59.5   | 65.2   | 70.4   | 72.3   | 74.2   | 74.2   | 74.2   |
| 85°    | 46.8   | 43.0   | 38.7   | 34.5   | 35.0   | 41.1   | 46.8   | 48.7   | 50.5   | 51.5   | 52.0   |
| 87.5°  | 22.2   | 18.4   | 14.2   | 10.9   | 10.9   | 16.1   | 20.8   | 21.7   | 22.7   | 24.6   | 26.5   |
| 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):**

|        | 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°     | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 |
| 2.5°   | 3368.2 | 3408.9 | 3450.9 | 3492.9 | 3541.1 | 3589.3 | 3645.5 | 3701.2 | 3748.9 | 3796.7 | 3836.3 |
| 5°     | 2833.6 | 2898.3 | 2974.3 | 3050.4 | 3147.2 | 3244.0 | 3362.6 | 3480.7 | 3586.0 | 3691.3 | 3813.7 |
| 7.5°   | 2244.6 | 2328.6 | 2427.8 | 2527.0 | 2652.2 | 2777.3 | 2930.9 | 3084.4 | 3233.2 | 3381.5 | 3569.5 |
| 10°    | 1882.7 | 1971.1 | 2068.8 | 2166.1 | 2293.7 | 2420.7 | 2583.2 | 2745.2 | 2912.4 | 3079.2 | 3291.7 |
| 12.5°  | 1692.9 | 1790.6 | 1876.6 | 1962.6 | 2066.0 | 2169.0 | 2326.3 | 2483.6 | 2680.0 | 2876.1 | 3080.6 |
| 15°    | 1490.2 | 1597.0 | 1699.9 | 1802.9 | 1915.8 | 2028.2 | 2181.3 | 2334.3 | 2549.2 | 2764.1 | 2999.3 |
| 17.5°  | 1245.1 | 1357.5 | 1483.1 | 1608.3 | 1755.7 | 1902.6 | 2098.6 | 2294.6 | 2549.2 | 2803.3 | 3080.6 |
| 20°    | 989.5  | 1104.3 | 1254.5 | 1404.7 | 1588.0 | 1770.8 | 2024.9 | 2279.0 | 2621.9 | 2964.4 | 3318.2 |
| 22.5°  | 780.8  | 881.9  | 1045.8 | 1209.2 | 1420.8 | 1632.4 | 1958.3 | 2283.8 | 2732.0 | 3179.8 | 3657.3 |
| 25°    | 632.9  | 704.3  | 865.3  | 1025.9 | 1270.1 | 1514.3 | 1917.7 | 2320.6 | 2892.1 | 3463.2 | 4055.5 |
| 27.5°  | 542.2  | 589.0  | 739.2  | 888.9  | 1155.8 | 1422.2 | 1901.2 | 2379.6 | 3095.2 | 3810.8 | 4488.6 |
| 30°    | 496.9  | 529.5  | 656.6  | 783.1  | 1054.3 | 1325.4 | 1881.3 | 2437.3 | 3290.8 | 4143.8 | 4827.3 |
| 32.5°  | 459.1  | 485.1  | 593.7  | 701.9  | 966.4  | 1230.9 | 1843.1 | 2454.7 | 3427.3 | 4399.8 | 5114.0 |
| 35°    | 427.0  | 448.7  | 543.2  | 637.7  | 897.4  | 1157.2 | 1778.8 | 2400.4 | 3512.8 | 4625.1 | 5412.5 |
| 37.5°  | 401.0  | 418.0  | 505.4  | 592.8  | 837.9  | 1083.1 | 1705.6 | 2328.2 | 3588.8 | 4849.5 | 5748.4 |
| 40°    | 380.7  | 395.3  | 477.1  | 558.8  | 781.2  | 1003.7 | 1642.8 | 2281.4 | 3693.7 | 5106.0 | 6103.1 |
| 42.5°  | 369.4  | 388.3  | 452.5  | 516.3  | 727.4  | 938.5  | 1592.3 | 2246.0 | 3791.0 | 5335.5 | 6413.4 |
| 45°    | 366.5  | 393.5  | 439.7  | 486.0  | 687.3  | 888.5  | 1547.4 | 2205.8 | 3853.8 | 5501.8 | 6647.2 |
| 47.5°  | 361.8  | 384.0  | 429.8  | 475.6  | 667.4  | 858.7  | 1523.3 | 2187.4 | 3916.6 | 5645.4 | 6841.3 |
| 50°    | 364.6  | 367.5  | 421.8  | 475.6  | 664.6  | 853.5  | 1550.7 | 2247.9 | 4052.7 | 5857.0 | 7063.3 |
| 52.5°  | 359.4  | 347.2  | 406.7  | 466.2  | 664.1  | 862.0  | 1629.6 | 2397.1 | 4305.4 | 6213.1 | 7303.8 |
| 55°    | 332.1  | 316.0  | 378.3  | 440.7  | 654.2  | 867.2  | 1723.6 | 2579.4 | 4644.5 | 6709.1 | 7736.0 |
| 57.5°  | 308.0  | 293.3  | 346.2  | 398.7  | 624.0  | 849.3  | 1820.4 | 2791.0 | 5003.0 | 7214.5 | 8222.9 |
| 60°    | 275.8  | 272.5  | 310.3  | 348.1  | 577.2  | 805.8  | 1900.2 | 2994.2 | 5243.9 | 7493.2 | 8410.5 |
| 62.5°  | 249.4  | 251.3  | 279.2  | 307.0  | 518.6  | 729.8  | 1926.7 | 3123.1 | 5237.3 | 7351.5 | 8221.5 |
| 65°    | 229.1  | 232.4  | 259.8  | 287.2  | 468.6  | 649.9  | 1839.8 | 3029.1 | 4972.3 | 6915.0 | 7847.9 |
| 67.5°  | 209.2  | 213.0  | 245.6  | 277.7  | 424.2  | 570.1  | 1622.5 | 2674.4 | 4495.7 | 6316.6 | 7372.7 |
| 70°    | 190.4  | 195.1  | 230.5  | 265.9  | 392.0  | 517.7  | 1342.4 | 2167.1 | 3899.2 | 5630.7 | 6822.5 |
| 72.5°  | 170.0  | 174.8  | 212.6  | 250.3  | 371.7  | 492.6  | 1094.4 | 1695.7 | 3164.2 | 4632.2 | 5835.7 |
| 75°    | 149.3  | 152.6  | 193.7  | 234.3  | 343.9  | 453.4  | 858.7  | 1263.5 | 2421.7 | 3579.9 | 4407.9 |
| 77.5°  | 128.5  | 132.7  | 167.2  | 201.2  | 291.9  | 382.1  | 647.1  | 912.1  | 1776.9 | 2641.3 | 3065.5 |
| 80°    | 102.5  | 106.3  | 130.8  | 154.9  | 225.3  | 295.2  | 444.9  | 594.7  | 1222.9 | 1851.1 | 2090.1 |
| 82.5°  | 78.4   | 82.7   | 99.2   | 115.3  | 160.6  | 205.9  | 269.7  | 333.5  | 812.4  | 1290.9 | 1310.7 |
| 85°    | 53.8   | 55.3   | 67.1   | 78.4   | 99.2   | 120.0  | 154.5  | 188.9  | 537.5  | 886.1  | 738.3  |
| 87.5°  | 26.9   | 26.9   | 35.0   | 43.0   | 53.4   | 63.8   | 81.7   | 99.2   | 171.9  | 244.7  | 140.8  |
| 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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**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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CATALOG NUMBER: GWC-SA2C-730-U-SLR

**CANDELA DISTRIBUTION (continued):**

|        | 275°   | 280°   | 285°   | 290°   | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 |
| 2.5°   | 3886.9 | 3921.4 | 3956.3 | 3982.8 | 4009.7 | 4048.4 | 4087.1 | 4094.2 | 4101.8 | 4086.7 | 4071.6 |
| 5°     | 3936.9 | 4041.3 | 4146.2 | 4243.0 | 4339.8 | 4397.9 | 4456.0 | 4467.8 | 4479.7 | 4443.3 | 4406.4 |
| 7.5°   | 3751.3 | 3933.2 | 4115.0 | 4281.7 | 4448.5 | 4549.6 | 4651.1 | 4673.8 | 4696.9 | 4637.4 | 4577.9 |
| 10°    | 3503.3 | 3726.7 | 3950.2 | 4169.8 | 4389.4 | 4536.3 | 4683.2 | 4712.5 | 4741.8 | 4667.6 | 4593.5 |
| 12.5°  | 3311.6 | 3550.1 | 3788.6 | 4020.1 | 4252.0 | 4404.1 | 4556.2 | 4592.5 | 4628.9 | 4575.1 | 4520.7 |
| 15°    | 3252.5 | 3476.9 | 3701.2 | 3902.9 | 4105.1 | 4229.3 | 4354.0 | 4368.7 | 4383.8 | 4375.3 | 4366.8 |
| 17.5°  | 3359.7 | 3562.4 | 3765.5 | 3875.1 | 3985.1 | 4034.7 | 4084.8 | 4100.8 | 4117.4 | 4138.6 | 4160.4 |
| 20°    | 3619.5 | 3762.2 | 3905.3 | 3900.6 | 3895.4 | 3871.3 | 3846.7 | 3842.5 | 3838.2 | 3899.2 | 3960.6 |
| 22.5°  | 4007.3 | 4064.0 | 4121.2 | 3988.4 | 3855.7 | 3774.9 | 3693.7 | 3677.6 | 3661.1 | 3725.8 | 3791.0 |
| 25°    | 4428.2 | 4417.8 | 4406.9 | 4154.2 | 3901.0 | 3747.1 | 3593.1 | 3575.1 | 3557.2 | 3612.4 | 3668.2 |
| 27.5°  | 4844.8 | 4776.8 | 4708.7 | 4365.3 | 4022.0 | 3798.5 | 3575.1 | 3557.2 | 3539.2 | 3588.4 | 3637.5 |
| 30°    | 5150.4 | 5041.3 | 4932.2 | 4543.4 | 4154.7 | 3889.2 | 3623.8 | 3594.5 | 3564.7 | 3625.2 | 3685.7 |
| 32.5°  | 5388.9 | 5242.5 | 5096.1 | 4688.0 | 4279.9 | 3992.7 | 3705.5 | 3659.7 | 3613.9 | 3694.6 | 3775.4 |
| 35°    | 5627.0 | 5421.0 | 5214.6 | 4816.9 | 4418.7 | 4115.0 | 3810.8 | 3754.6 | 3698.4 | 3809.4 | 3920.4 |
| 37.5°  | 5926.4 | 5630.7 | 5334.6 | 4961.9 | 4589.2 | 4298.3 | 4006.8 | 3949.2 | 3891.6 | 4032.8 | 4174.5 |
| 40°    | 6251.4 | 5857.0 | 5462.6 | 5120.6 | 4778.6 | 4551.9 | 4324.7 | 4269.9 | 4214.7 | 4386.6 | 4558.5 |
| 42.5°  | 6521.6 | 6067.7 | 5613.7 | 5311.9 | 5009.6 | 4850.0 | 4689.8 | 4689.4 | 4688.4 | 4862.7 | 5037.0 |
| 45°    | 6741.2 | 6243.4 | 5745.0 | 5498.5 | 5251.5 | 5168.3 | 5085.2 | 5151.8 | 5218.4 | 5375.7 | 5533.4 |
| 47.5°  | 6905.1 | 6390.7 | 5875.9 | 5712.0 | 5548.1 | 5560.4 | 5572.6 | 5708.2 | 5843.8 | 5944.8 | 6046.4 |
| 50°    | 7011.9 | 6524.4 | 6036.5 | 5985.9 | 5935.4 | 6045.5 | 6156.0 | 6311.4 | 6467.3 | 6536.2 | 6605.2 |
| 52.5°  | 7167.3 | 6705.8 | 6243.8 | 6300.5 | 6357.2 | 6582.0 | 6806.9 | 6964.2 | 7121.4 | 7146.9 | 7172.9 |
| 55°    | 7526.7 | 7039.3 | 6551.3 | 6660.0 | 6769.1 | 7098.8 | 7428.9 | 7551.7 | 7674.6 | 7684.0 | 7693.4 |
| 57.5°  | 8037.3 | 7506.4 | 6975.5 | 7092.6 | 7209.8 | 7590.5 | 7971.7 | 8103.9 | 8236.6 | 8218.2 | 8199.3 |
| 60°    | 8419.4 | 7949.9 | 7479.9 | 7598.0 | 7716.1 | 8087.4 | 8458.6 | 8610.7 | 8763.3 | 8722.7 | 8682.0 |
| 62.5°  | 8443.0 | 8192.2 | 7940.9 | 8047.7 | 8154.9 | 8518.6 | 8882.3 | 9038.7 | 9195.0 | 9124.2 | 9053.3 |
| 65°    | 8067.5 | 8180.0 | 8292.4 | 8327.8 | 8363.2 | 8702.4 | 9042.0 | 9161.5 | 9281.4 | 9245.5 | 9209.6 |
| 67.5°  | 7550.3 | 7964.6 | 8379.3 | 8308.0 | 8236.6 | 8395.8 | 8555.0 | 8678.3 | 8801.5 | 8781.2 | 8760.5 |
| 70°    | 7034.1 | 7587.2 | 8140.3 | 7789.8 | 7438.9 | 7373.2 | 7307.5 | 7440.3 | 7573.5 | 7491.3 | 7408.6 |
| 72.5°  | 6155.0 | 6744.5 | 7334.5 | 6688.8 | 6043.1 | 5818.7 | 5594.4 | 5763.0 | 5931.6 | 5800.8 | 5669.5 |
| 75°    | 4831.5 | 5482.9 | 6134.7 | 5364.3 | 4594.0 | 4294.5 | 3995.0 | 4140.0 | 4285.1 | 4195.3 | 4105.1 |
| 77.5°  | 3596.9 | 4238.8 | 4880.7 | 4097.5 | 3313.9 | 3091.5 | 2868.5 | 2911.5 | 2954.9 | 2939.8 | 2924.2 |
| 80°    | 2439.6 | 2886.9 | 3334.7 | 2813.2 | 2291.8 | 2308.8 | 2326.3 | 2306.0 | 2285.2 | 2315.4 | 2345.6 |
| 82.5°  | 1556.8 | 1902.1 | 2247.9 | 1971.1 | 1694.3 | 1853.0 | 2011.7 | 1933.8 | 1855.3 | 1884.2 | 1913.4 |
| 85°    | 888.5  | 1226.2 | 1564.4 | 1458.1 | 1351.4 | 1443.9 | 1537.0 | 1416.1 | 1295.2 | 1348.1 | 1401.4 |
| 87.5°  | 234.3  | 678.3  | 1122.7 | 1019.3 | 915.9  | 795.9  | 675.9  | 515.8  | 355.7  | 519.6  | 683.5  |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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CATALOG NUMBER: GWC-SA2C-730-U-SLR

**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°     | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 | 3599.2 |
| 2.5°   | 4063.5 | 4055.5 | 4026.7 | 3997.4 | 3953.9 | 3918.0 | 3855.7 |
| 5°     | 4355.4 | 4304.4 | 4216.6 | 4128.2 | 4030.0 | 3917.1 | 3791.9 |
| 7.5°   | 4458.9 | 4339.4 | 4170.7 | 4001.6 | 3849.6 | 3671.0 | 3504.7 |
| 10°    | 4414.9 | 4235.9 | 4016.8 | 3797.1 | 3612.4 | 3407.0 | 3222.3 |
| 12.5°  | 4330.9 | 4140.5 | 3899.2 | 3657.3 | 3447.1 | 3226.5 | 3019.7 |
| 15°    | 4215.1 | 4063.1 | 3836.8 | 3610.6 | 3398.9 | 3184.5 | 2939.4 |
| 17.5°  | 4088.6 | 4016.3 | 3852.9 | 3689.0 | 3505.7 | 3297.9 | 3010.2 |
| 20°    | 3986.5 | 4013.0 | 3947.8 | 3882.6 | 3735.7 | 3554.3 | 3231.3 |
| 22.5°  | 3917.6 | 4044.6 | 4094.7 | 4145.2 | 4056.9 | 3915.2 | 3541.6 |
| 25°    | 3878.8 | 4089.5 | 4257.2 | 4425.3 | 4386.1 | 4277.0 | 3918.5 |
| 27.5°  | 3895.8 | 4154.2 | 4414.5 | 4675.2 | 4711.6 | 4681.3 | 4315.8 |
| 30°    | 3946.9 | 4208.5 | 4525.5 | 4842.9 | 4987.9 | 5028.5 | 4646.9 |
| 32.5°  | 4031.9 | 4288.4 | 4633.6 | 4979.4 | 5198.6 | 5328.0 | 4949.6 |
| 35°    | 4160.4 | 4400.3 | 4760.2 | 5120.1 | 5403.5 | 5639.7 | 5262.3 |
| 37.5°  | 4380.9 | 4587.3 | 4919.4 | 5251.9 | 5619.4 | 5974.1 | 5606.7 |
| 40°    | 4704.0 | 4850.0 | 5130.5 | 5411.6 | 5874.0 | 6352.9 | 5990.7 |
| 42.5°  | 5111.6 | 5186.7 | 5409.2 | 5631.7 | 6139.9 | 6696.8 | 6366.2 |
| 45°    | 5553.3 | 5573.1 | 5712.9 | 5853.2 | 6350.6 | 6931.1 | 6648.2 |
| 47.5°  | 5978.4 | 5910.4 | 5966.1 | 6021.8 | 6512.1 | 7098.3 | 6862.1 |
| 50°    | 6415.8 | 6226.4 | 6197.1 | 6167.8 | 6673.7 | 7295.3 | 7134.2 |
| 52.5°  | 6860.7 | 6548.5 | 6432.8 | 6316.6 | 6866.4 | 7556.5 | 7472.9 |
| 55°    | 7296.2 | 6899.0 | 6743.1 | 6587.2 | 7161.1 | 7875.3 | 7970.2 |
| 57.5°  | 7749.2 | 7299.0 | 7154.5 | 7010.0 | 7594.3 | 8279.1 | 8416.6 |
| 60°    | 8236.6 | 7790.7 | 7675.0 | 7558.8 | 8132.7 | 8715.6 | 8615.4 |
| 62.5°  | 8699.1 | 8344.8 | 8283.9 | 8222.5 | 8677.3 | 9050.9 | 8538.0 |
| 65°    | 9008.0 | 8805.8 | 8862.5 | 8919.6 | 9089.2 | 9134.5 | 8311.3 |
| 67.5°  | 8801.5 | 8842.6 | 9082.1 | 9322.1 | 9205.4 | 8886.1 | 7864.4 |
| 70°    | 7654.7 | 7901.3 | 8468.6 | 9036.3 | 8777.5 | 8220.6 | 7062.4 |
| 72.5°  | 5946.3 | 6223.5 | 7065.7 | 7908.4 | 7669.8 | 6987.8 | 5800.8 |
| 75°    | 4417.8 | 4730.9 | 5660.5 | 6590.1 | 6259.0 | 5226.9 | 4153.3 |
| 77.5°  | 3134.0 | 3343.7 | 4261.4 | 5179.7 | 4639.8 | 3479.2 | 2794.8 |
| 80°    | 2281.4 | 2217.2 | 2728.7 | 3240.2 | 3150.5 | 2301.2 | 1794.9 |
| 82.5°  | 1756.6 | 1599.8 | 1840.7 | 2081.6 | 2068.4 | 1597.0 | 1316.9 |
| 85°    | 1338.6 | 1275.8 | 1488.8 | 1701.8 | 1519.5 | 1081.7 | 837.0  |
| 87.5°  | 780.3  | 877.6  | 1128.4 | 1379.7 | 1035.4 | 328.3  | 162.5  |
| 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: P386813

CATALOG NUMBER: GWC-SA2C-730-U-SLR

**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: SP1-2012-088-7

Luminaire Tested: WIS-SA-730-2A-U-SL3-HSS

Test Date: 01/20/2021

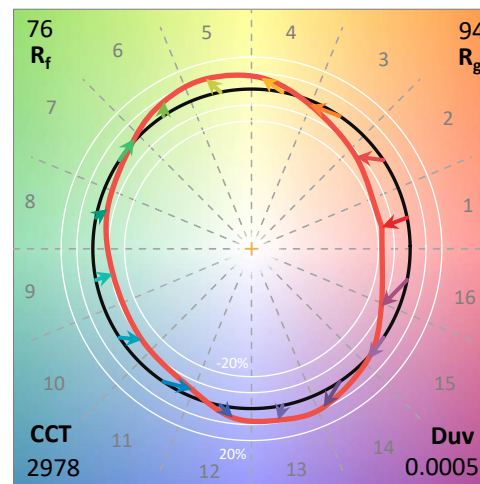
### Test Information

Test Method: LM-79-08  
 Report Number: SP1-2012-088-7  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1  
 Measurement Geometry:  $4\pi$   
 Issue Date: 01/20/2021  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: INVUE  
 Catalog Number: **WIS-SA-730-2A-U-SL3-HSS**  
 Description: INVUE WALL PACK

SHIELD

### Spectral Parameters

|                           |        |           |      |      |       |
|---------------------------|--------|-----------|------|------|-------|
| CCT (K):                  | 2978   | CRI (Ra): | 72.4 |      |       |
| CIE u':                   | 0.2511 | R1:       | 68.2 | R9:  | -36.8 |
| CIE v':                   | 0.5225 | R2:       | 83.1 | R10: | 63.2  |
| Duv:                      | 0.0005 | R3:       | 94.9 | R11: | 65.5  |
| CIE x:                    | 0.4391 | R4:       | 68.7 | R12: | 58.5  |
| CIE y:                    | 0.4060 | R5:       | 68.6 | R13: | 71.0  |
| CIE z:                    | 0.1549 | R6:       | 78.2 | R14: | 97.4  |
| Peak Wavelength (nm):     | 596    | R7:       | 76.3 |      |       |
| Dominant Wavelength (nm): | 582    | R8:       | 41.2 |      |       |
| Purity:                   | 54     |           |      |      |       |
|                           |        |           |      |      |       |
| Rf:                       | 76.2   |           |      |      |       |
| Rg:                       | 94.2   |           |      |      |       |



### Test Conditions

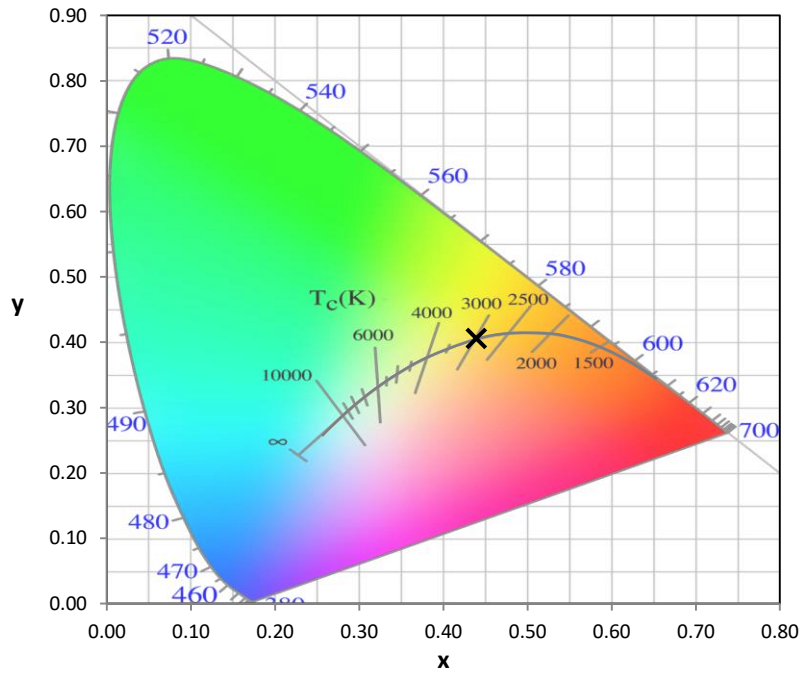
Stabilization Time: 82M  
 Operation Time: 12H  
 Room Temperature (°C) / RH%: 25.6/28%  
 Sphere Temperature (°C): 25.5

REPORT NUMBER: SP1-2012-088-7

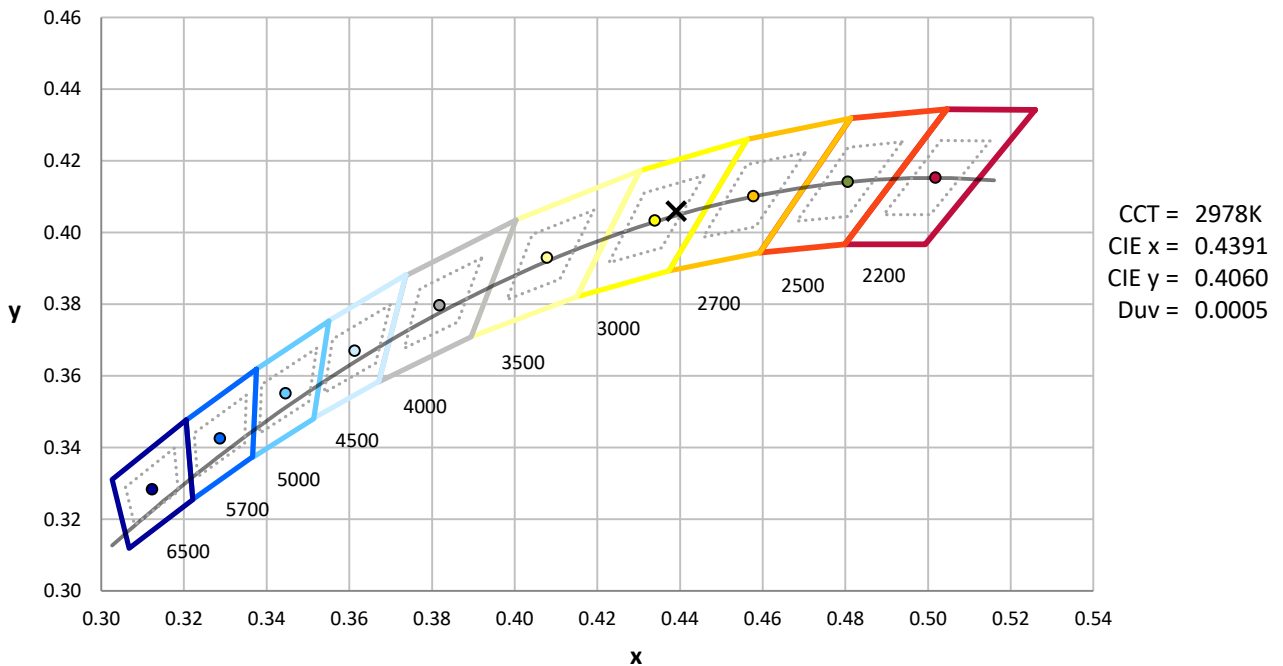
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| 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: SP1-2012-088-7

**CIE 1931 Chromaticity Diagram**



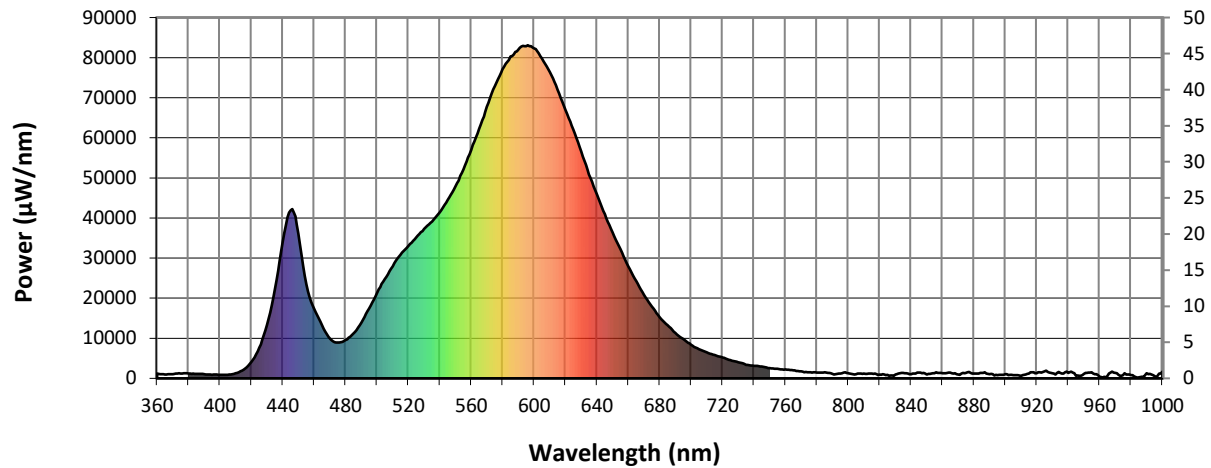
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 3000K 4-step quadrangle

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### Photopic Flux vs. Wavelength

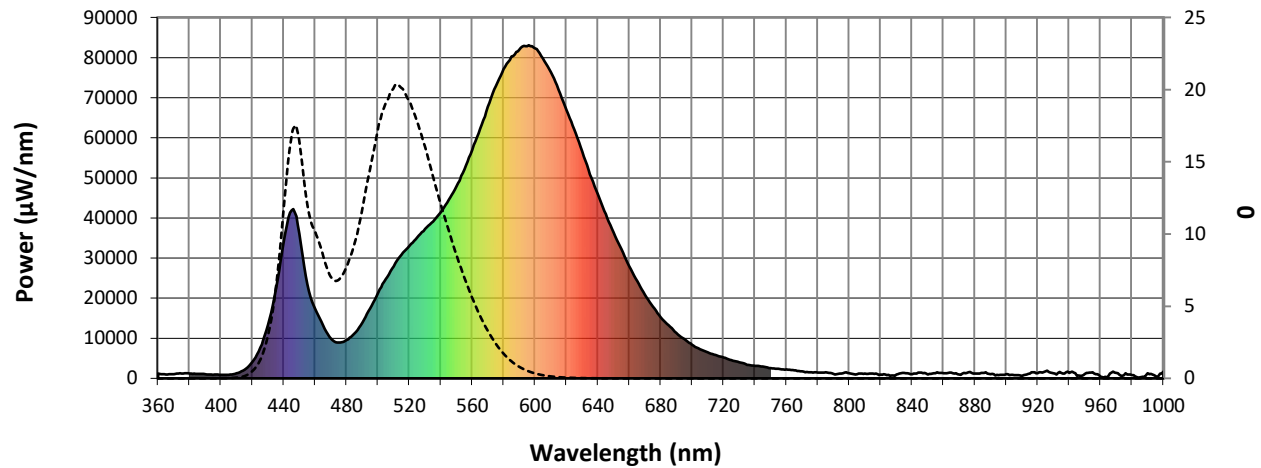


#####

| 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       | 1195             | 0.0              | 490       | 13880            | 2.0              | 620       | 66879            | 17.4             | 750       | 2571             | 0.0              | 880       | 1235             | 0.0              |
| 365       | 985              | 0.0              | 495       | 17408            | 3.2              | 625       | 62111            | 13.7             | 755       | 2394             | 0.0              | 885       | 1368             | 0.0              |
| 370       | 1066             | 0.0              | 500       | 21285            | 4.7              | 630       | 56551            | 10.2             | 760       | 2199             | 0.0              | 890       | 1027             | 0.0              |
| 375       | 1227             | 0.0              | 505       | 24779            | 6.9              | 635       | 50866            | 7.6              | 765       | 2031             | 0.0              | 895       | 822              | 0.0              |
| 380       | 1176             | 0.0              | 510       | 27951            | 9.6              | 640       | 45859            | 5.5              | 770       | 1735             | 0.0              | 900       | 1068             | 0.0              |
| 385       | 1115             | 0.0              | 515       | 30815            | 12.8             | 645       | 40924            | 3.9              | 775       | 1538             | 0.0              | 905       | 823              | 0.0              |
| 390       | 1039             | 0.0              | 520       | 33040            | 16.0             | 650       | 36434            | 2.7              | 780       | 1455             | 0.0              | 910       | 531              | 0.0              |
| 395       | 908              | 0.0              | 525       | 35159            | 18.9             | 655       | 32132            | 1.8              | 785       | 1506             | 0.0              | 915       | 1184             | 0.0              |
| 400       | 903              | 0.0              | 530       | 37292            | 22.0             | 660       | 27953            | 1.2              | 790       | 1154             | 0.0              | 920       | 1320             | 0.0              |
| 405       | 911              | 0.0              | 535       | 39123            | 24.3             | 665       | 24284            | 0.8              | 795       | 1232             | 0.0              | 925       | 1757             | 0.0              |
| 410       | 1264             | 0.0              | 540       | 41391            | 27.0             | 670       | 20822            | 0.5              | 800       | 1247             | 0.0              | 930       | 1279             | 0.0              |
| 415       | 2142             | 0.0              | 545       | 44515            | 29.6             | 675       | 17848            | 0.3              | 805       | 1043             | 0.0              | 935       | 1399             | 0.0              |
| 420       | 4052             | 0.0              | 550       | 47864            | 32.5             | 680       | 15278            | 0.2              | 810       | 1235             | 0.0              | 940       | 1325             | 0.0              |
| 425       | 7647             | 0.0              | 555       | 52101            | 35.6             | 685       | 13213            | 0.1              | 815       | 1173             | 0.0              | 945       | 612              | 0.0              |
| 430       | 13366            | 0.1              | 560       | 56892            | 38.7             | 690       | 11304            | 0.1              | 820       | 948              | 0.0              | 950       | 1094             | 0.0              |
| 435       | 22367            | 0.3              | 565       | 62242            | 41.4             | 695       | 9794             | 0.0              | 825       | 846              | 0.0              | 955       | 1493             | 0.0              |
| 440       | 34007            | 0.5              | 570       | 67731            | 44.0             | 700       | 8390             | 0.0              | 830       | 987              | 0.0              | 960       | 385              | 0.0              |
| 445       | 41889            | 0.9              | 575       | 72883            | 45.3             | 705       | 7303             | 0.0              | 835       | 1395             | 0.0              | 965       | 585              | 0.0              |
| 450       | 36090            | 0.9              | 580       | 77104            | 45.8             | 710       | 6501             | 0.0              | 840       | 1079             | 0.0              | 970       | 1360             | 0.0              |
| 455       | 23459            | 0.8              | 585       | 80305            | 44.6             | 715       | 5811             | 0.0              | 845       | 1430             | 0.0              | 975       | 805              | 0.0              |
| 460       | 17429            | 0.7              | 590       | 82039            | 42.4             | 720       | 5196             | 0.0              | 850       | 984              | 0.0              | 980       | 813              | 0.0              |
| 465       | 13265            | 0.7              | 595       | 82883            | 39.3             | 725       | 4576             | 0.0              | 855       | 1315             | 0.0              | 985       | 214              | 0.0              |
| 470       | 9887             | 0.6              | 600       | 82307            | 35.5             | 730       | 4031             | 0.0              | 860       | 1245             | 0.0              | 990       | 1247             | 0.0              |
| 475       | 8912             | 0.7              | 605       | 79818            | 30.9             | 735       | 3393             | 0.0              | 865       | 1445             | 0.0              | 995       | 597              | 0.0              |
| 480       | 9543             | 0.9              | 610       | 76405            | 26.2             | 740       | 3117             | 0.0              | 870       | 998              | 0.0              | 1000      | 1691             | 0.0              |
| 485       | 11169            | 1.3              | 615       | 71967            | 21.7             | 745       | 2946             | 0.0              | 875       | 1326             | 0.0              |           |                  |                  |

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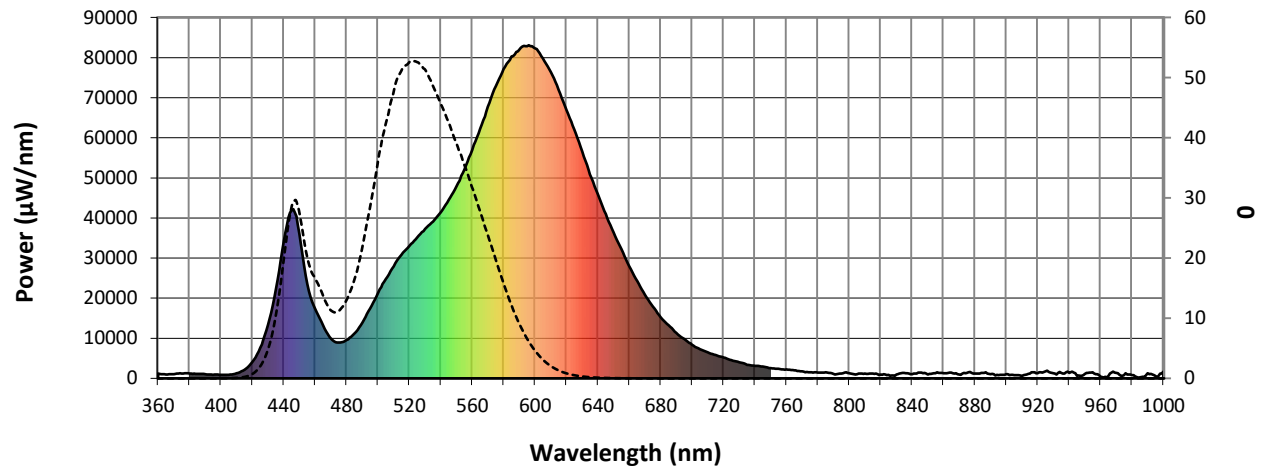
### Scotopic Flux vs. Wavelength


**Scotopic Lumens: 1728.4**
**S/P: 0.45**

| 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       | 1195             | 0.0              | 490       | 13880            | 21.4             | 620       | 66879            | 0.8              | 750       | 2571             | 0.0              | 880       | 1235             | 0.0              |
| 365       | 985              | 0.0              | 495       | 17408            | 28.1             | 625       | 62111            | 0.5              | 755       | 2394             | 0.0              | 885       | 1368             | 0.0              |
| 370       | 1066             | 0.0              | 500       | 21285            | 35.6             | 630       | 56551            | 0.3              | 760       | 2199             | 0.0              | 890       | 1027             | 0.0              |
| 375       | 1227             | 0.0              | 505       | 24779            | 42.1             | 635       | 50866            | 0.2              | 765       | 2031             | 0.0              | 895       | 822              | 0.0              |
| 380       | 1176             | 0.0              | 510       | 27951            | 47.4             | 640       | 45859            | 0.1              | 770       | 1735             | 0.0              | 900       | 1068             | 0.0              |
| 385       | 1115             | 0.0              | 515       | 30815            | 51.1             | 645       | 40924            | 0.1              | 775       | 1538             | 0.0              | 905       | 823              | 0.0              |
| 390       | 1039             | 0.0              | 520       | 33040            | 52.5             | 650       | 36434            | 0.0              | 780       | 1455             | 0.0              | 910       | 531              | 0.0              |
| 395       | 908              | 0.0              | 525       | 35159            | 52.6             | 655       | 32132            | 0.0              | 785       | 1506             | 0.0              | 915       | 1184             | 0.0              |
| 400       | 903              | 0.0              | 530       | 37292            | 51.4             | 660       | 27953            | 0.0              | 790       | 1154             | 0.0              | 920       | 1320             | 0.0              |
| 405       | 911              | 0.0              | 535       | 39123            | 48.8             | 665       | 24284            | 0.0              | 795       | 1232             | 0.0              | 925       | 1757             | 0.0              |
| 410       | 1264             | 0.1              | 540       | 41391            | 45.7             | 670       | 20822            | 0.0              | 800       | 1247             | 0.0              | 930       | 1279             | 0.0              |
| 415       | 2142             | 0.2              | 545       | 44515            | 42.7             | 675       | 17848            | 0.0              | 805       | 1043             | 0.0              | 935       | 1399             | 0.0              |
| 420       | 4052             | 0.7              | 550       | 47864            | 39.1             | 680       | 15278            | 0.0              | 810       | 1235             | 0.0              | 940       | 1325             | 0.0              |
| 425       | 7647             | 1.9              | 555       | 52101            | 35.6             | 685       | 13213            | 0.0              | 815       | 1173             | 0.0              | 945       | 612              | 0.0              |
| 430       | 13366            | 4.5              | 560       | 56892            | 31.8             | 690       | 11304            | 0.0              | 820       | 948              | 0.0              | 950       | 1094             | 0.0              |
| 435       | 22367            | 10.0             | 565       | 62242            | 27.9             | 695       | 9794             | 0.0              | 825       | 846              | 0.0              | 955       | 1493             | 0.0              |
| 440       | 34007            | 19.0             | 570       | 67731            | 23.9             | 700       | 8390             | 0.0              | 830       | 987              | 0.0              | 960       | 385              | 0.0              |
| 445       | 41889            | 28.0             | 575       | 72883            | 19.8             | 705       | 7303             | 0.0              | 835       | 1395             | 0.0              | 965       | 585              | 0.0              |
| 450       | 36090            | 28.0             | 580       | 77104            | 15.9             | 710       | 6501             | 0.0              | 840       | 1079             | 0.0              | 970       | 1360             | 0.0              |
| 455       | 23459            | 20.5             | 585       | 80305            | 12.3             | 715       | 5811             | 0.0              | 845       | 1430             | 0.0              | 975       | 805              | 0.0              |
| 460       | 17429            | 16.8             | 590       | 82039            | 9.1              | 720       | 5196             | 0.0              | 850       | 984              | 0.0              | 980       | 813              | 0.0              |
| 465       | 13265            | 14.0             | 595       | 82883            | 6.6              | 725       | 4576             | 0.0              | 855       | 1315             | 0.0              | 985       | 214              | 0.0              |
| 470       | 9887             | 11.4             | 600       | 82307            | 4.6              | 730       | 4031             | 0.0              | 860       | 1245             | 0.0              | 990       | 1247             | 0.0              |
| 475       | 8912             | 11.1             | 605       | 79818            | 3.1              | 735       | 3393             | 0.0              | 865       | 1445             | 0.0              | 995       | 597              | 0.0              |
| 480       | 9543             | 12.9             | 610       | 76405            | 2.1              | 740       | 3117             | 0.0              | 870       | 998              | 0.0              | 1000      | 1691             | 0.0              |
| 485       | 11169            | 16.2             | 615       | 71967            | 1.3              | 745       | 2946             | 0.0              | 875       | 1326             | 0.0              |           |                  |                  |

REPORT NUMBER: SP1-2012-088-7

### Melanopic Flux vs. Wavelength


**Melanopic Lumens: 4752**
**S/P: 1.23**

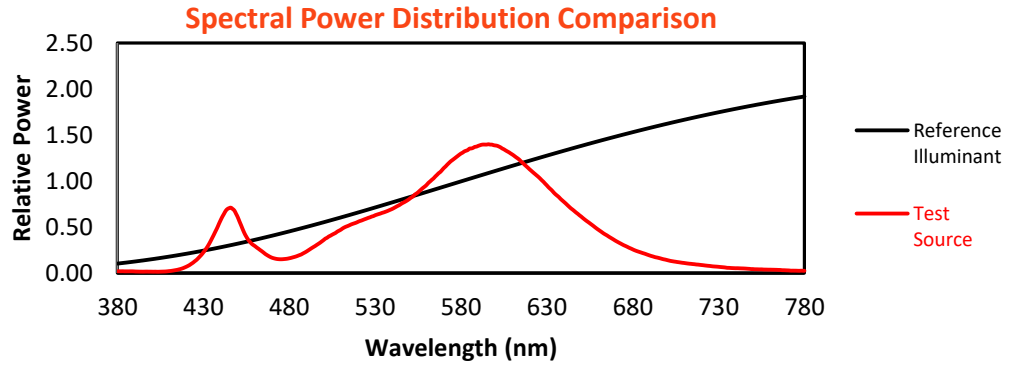
| λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) |
|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|
| 360       | 1195             | 0.0              | 490       | 13880            | 11.5             | 620       | 66879            | 0.1              | 750       | 2571             | 0.0              | 880       | 1235             | 0.0              |
| 365       | 985              | 0.0              | 495       | 17408            | 14.4             | 625       | 62111            | 0.0              | 755       | 2394             | 0.0              | 885       | 1368             | 0.0              |
| 370       | 1066             | 0.0              | 500       | 21285            | 17.1             | 630       | 56551            | 0.0              | 760       | 2199             | 0.0              | 890       | 1027             | 0.0              |
| 375       | 1227             | 0.0              | 505       | 24779            | 19.0             | 635       | 50866            | 0.0              | 765       | 2031             | 0.0              | 895       | 822              | 0.0              |
| 380       | 1176             | 0.0              | 510       | 27951            | 20.1             | 640       | 45859            | 0.0              | 770       | 1735             | 0.0              | 900       | 1068             | 0.0              |
| 385       | 1115             | 0.0              | 515       | 30815            | 20.1             | 645       | 40924            | 0.0              | 775       | 1538             | 0.0              | 905       | 823              | 0.0              |
| 390       | 1039             | 0.0              | 520       | 33040            | 19.2             | 650       | 36434            | 0.0              | 780       | 1455             | 0.0              | 910       | 531              | 0.0              |
| 395       | 908              | 0.0              | 525       | 35159            | 17.8             | 655       | 32132            | 0.0              | 785       | 1506             | 0.0              | 915       | 1184             | 0.0              |
| 400       | 903              | 0.0              | 530       | 37292            | 16.1             | 660       | 27953            | 0.0              | 790       | 1154             | 0.0              | 920       | 1320             | 0.0              |
| 405       | 911              | 0.0              | 535       | 39123            | 14.1             | 665       | 24284            | 0.0              | 795       | 1232             | 0.0              | 925       | 1757             | 0.0              |
| 410       | 1264             | 0.0              | 540       | 41391            | 12.1             | 670       | 20822            | 0.0              | 800       | 1247             | 0.0              | 930       | 1279             | 0.0              |
| 415       | 2142             | 0.1              | 545       | 44515            | 10.3             | 675       | 17848            | 0.0              | 805       | 1043             | 0.0              | 935       | 1399             | 0.0              |
| 420       | 4052             | 0.5              | 550       | 47864            | 8.6              | 680       | 15278            | 0.0              | 810       | 1235             | 0.0              | 940       | 1325             | 0.0              |
| 425       | 7647             | 1.2              | 555       | 52101            | 7.0              | 685       | 13213            | 0.0              | 815       | 1173             | 0.0              | 945       | 612              | 0.0              |
| 430       | 13366            | 2.8              | 560       | 56892            | 5.6              | 690       | 11304            | 0.0              | 820       | 948              | 0.0              | 950       | 1094             | 0.0              |
| 435       | 22367            | 6.0              | 565       | 62242            | 4.4              | 695       | 9794             | 0.0              | 825       | 846              | 0.0              | 955       | 1493             | 0.0              |
| 440       | 34007            | 11.4             | 570       | 67731            | 3.3              | 700       | 8390             | 0.0              | 830       | 987              | 0.0              | 960       | 385              | 0.0              |
| 445       | 41889            | 16.5             | 575       | 72883            | 2.4              | 705       | 7303             | 0.0              | 835       | 1395             | 0.0              | 965       | 585              | 0.0              |
| 450       | 36090            | 16.6             | 580       | 77104            | 1.7              | 710       | 6501             | 0.0              | 840       | 1079             | 0.0              | 970       | 1360             | 0.0              |
| 455       | 23459            | 12.3             | 585       | 80305            | 1.2              | 715       | 5811             | 0.0              | 845       | 1430             | 0.0              | 975       | 805              | 0.0              |
| 460       | 17429            | 10.3             | 590       | 82039            | 0.8              | 720       | 5196             | 0.0              | 850       | 984              | 0.0              | 980       | 813              | 0.0              |
| 465       | 13265            | 8.7              | 595       | 82883            | 0.5              | 725       | 4576             | 0.0              | 855       | 1315             | 0.0              | 985       | 214              | 0.0              |
| 470       | 9887             | 7.1              | 600       | 82307            | 0.3              | 730       | 4031             | 0.0              | 860       | 1245             | 0.0              | 990       | 1247             | 0.0              |
| 475       | 8912             | 6.8              | 605       | 79818            | 0.2              | 735       | 3393             | 0.0              | 865       | 1445             | 0.0              | 995       | 597              | 0.0              |
| 480       | 9543             | 7.7              | 610       | 76405            | 0.1              | 740       | 3117             | 0.0              | 870       | 998              | 0.0              | 1000      | 1691             | 0.0              |
| 485       | 11169            | 9.2              | 615       | 71967            | 0.1              | 745       | 2946             | 0.0              | 875       | 1326             | 0.0              |           |                  |                  |

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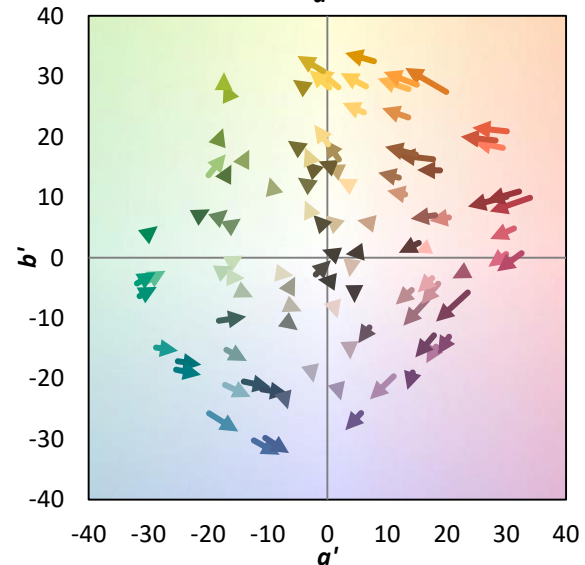
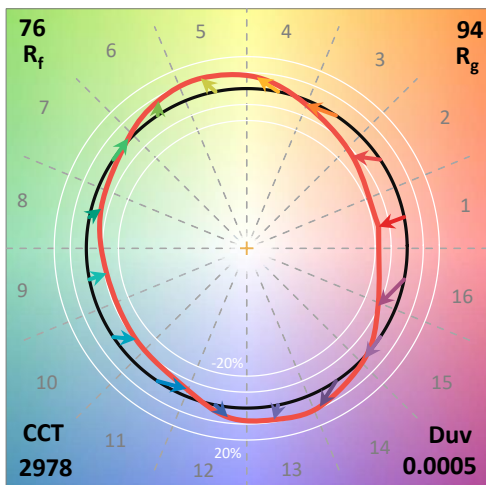
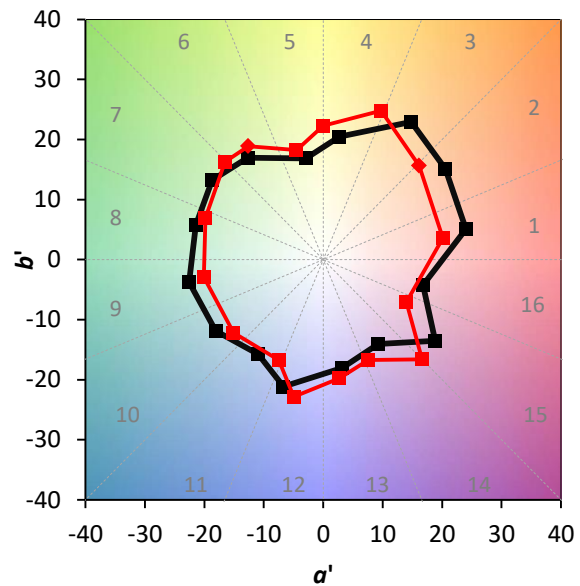
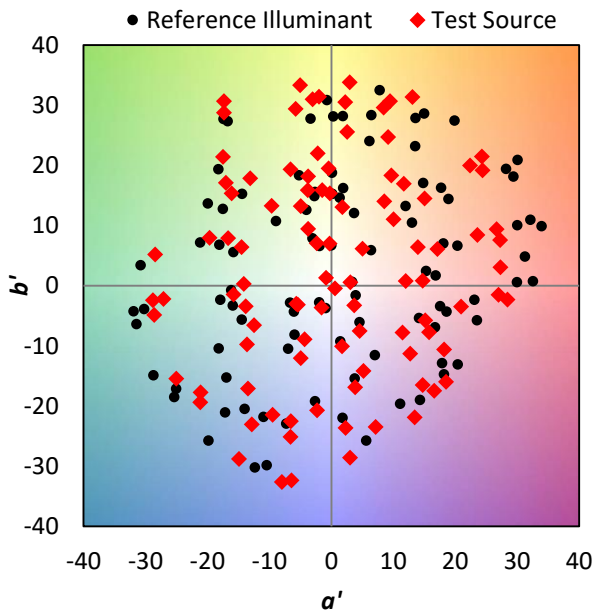
TM-30-18

### Summary

$R_f = 76.2$   
 $R_g = 94.2$   
 CIE  $R_a = 72.4$   
 $R_g = -36.8$

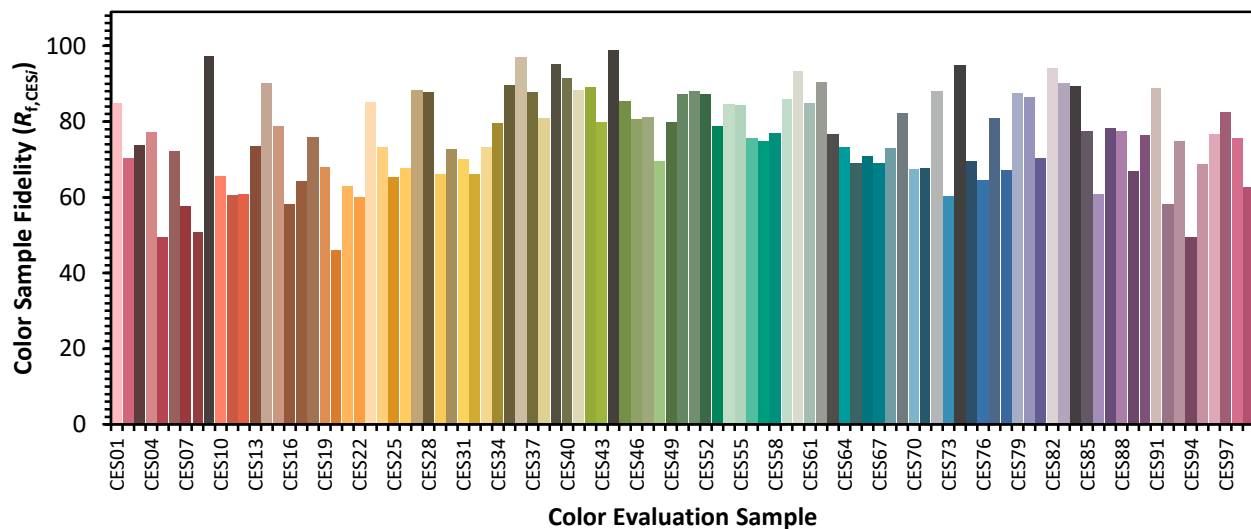


### Color Vector Graphics

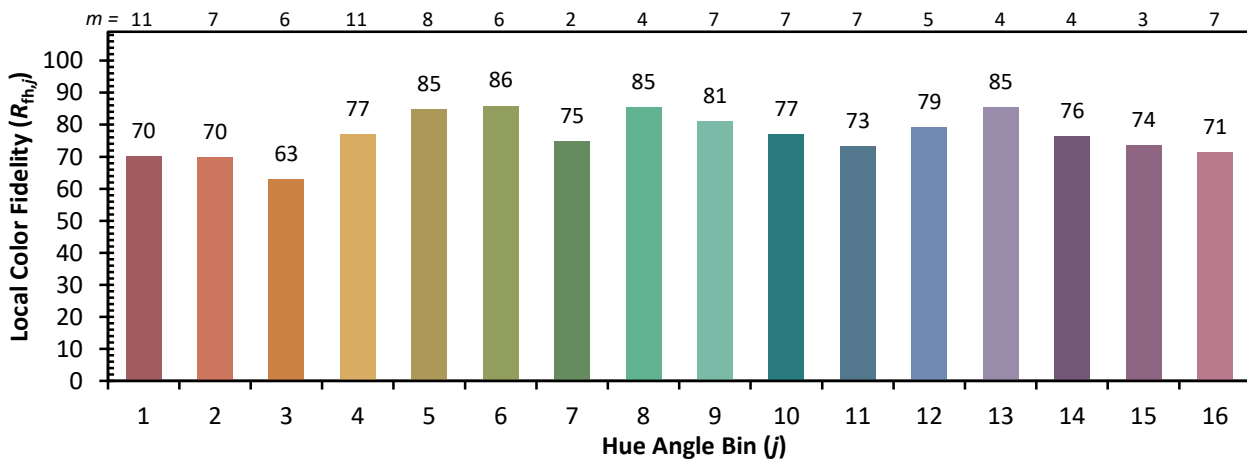
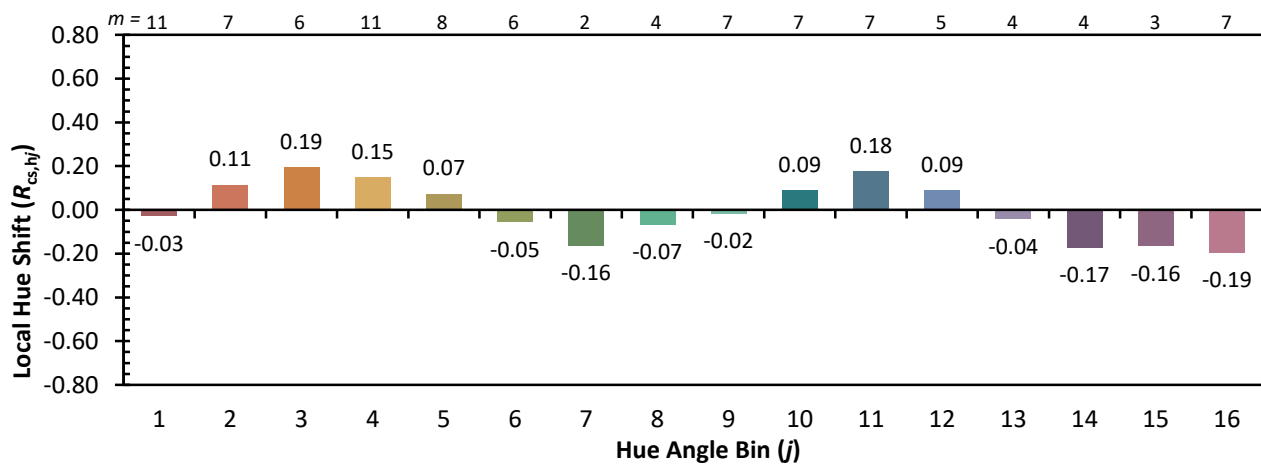
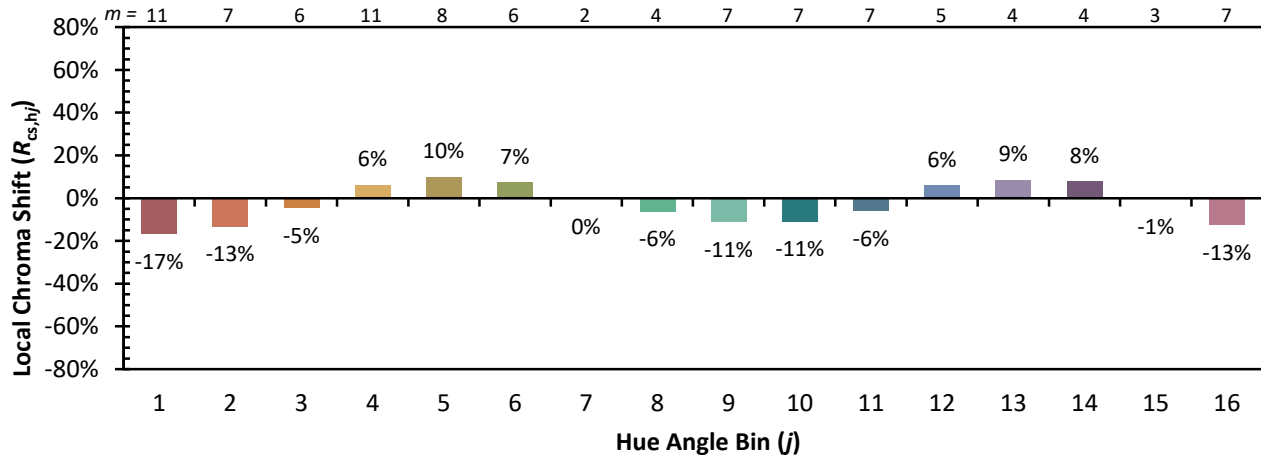


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

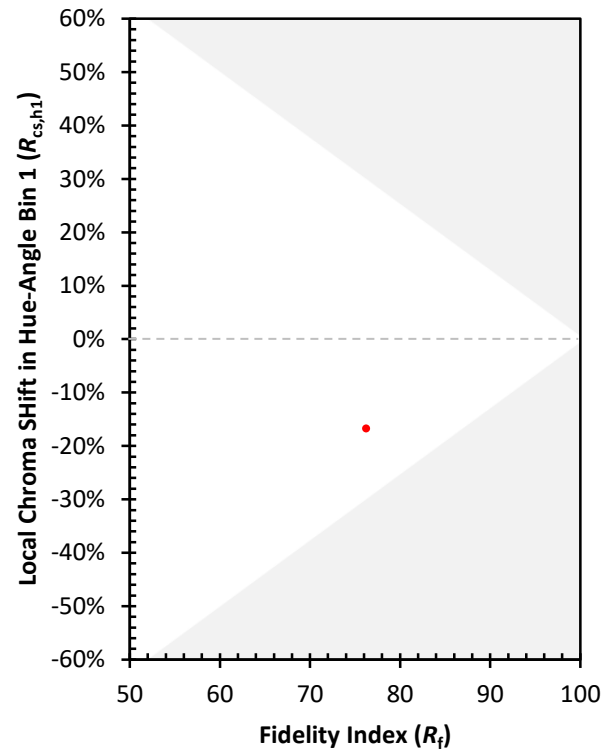
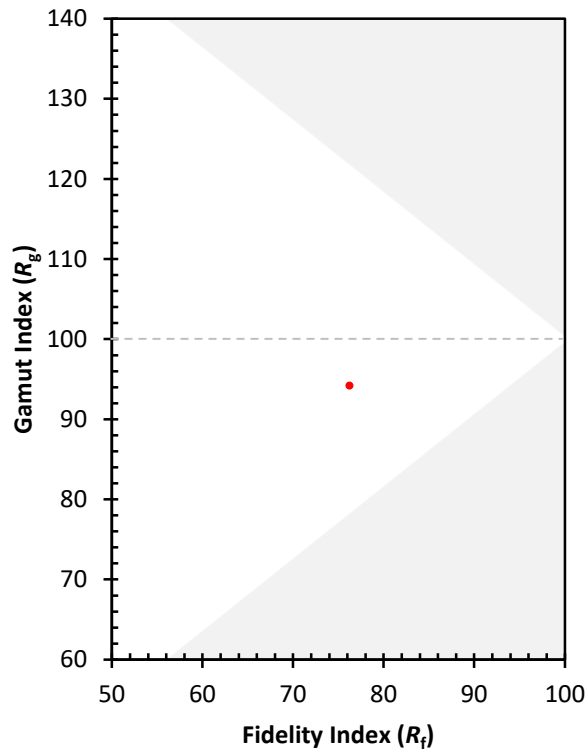
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 68 | CES51 = 88 | CES76 = 65 |
| CES02 = 63 | CES27 = 88 | CES52 = 87 | CES77 = 81 |
| CES03 = 31 | CES28 = 88 | CES53 = 79 | CES78 = 67 |
| CES04 = 71 | CES29 = 66 | CES54 = 85 | CES79 = 87 |
| CES05 = 49 | CES30 = 73 | CES55 = 84 | CES80 = 87 |
| CES06 = 51 | CES31 = 70 | CES56 = 76 | CES81 = 70 |
| CES07 = 41 | CES32 = 66 | CES57 = 75 | CES82 = 94 |
| CES08 = 40 | CES33 = 73 | CES58 = 77 | CES83 = 90 |
| CES09 = 29 | CES34 = 80 | CES59 = 86 | CES84 = 89 |
| CES10 = 76 | CES35 = 90 | CES60 = 93 | CES85 = 77 |
| CES11 = 59 | CES36 = 97 | CES61 = 85 | CES86 = 61 |
| CES12 = 65 | CES37 = 88 | CES62 = 90 | CES87 = 78 |
| CES13 = 43 | CES38 = 81 | CES63 = 77 | CES88 = 78 |
| CES14 = 74 | CES39 = 95 | CES64 = 73 | CES89 = 67 |
| CES15 = 71 | CES40 = 91 | CES65 = 69 | CES90 = 76 |
| CES16 = 47 | CES41 = 88 | CES66 = 71 | CES91 = 89 |
| CES17 = 50 | CES42 = 89 | CES67 = 69 | CES92 = 58 |
| CES18 = 56 | CES43 = 80 | CES68 = 73 | CES93 = 75 |
| CES19 = 73 | CES44 = 99 | CES69 = 82 | CES94 = 49 |
| CES20 = 66 | CES45 = 85 | CES70 = 67 | CES95 = 69 |
| CES21 = 87 | CES46 = 81 | CES71 = 68 | CES96 = 77 |
| CES22 = 79 | CES47 = 81 | CES72 = 88 | CES97 = 83 |
| CES23 = 92 | CES48 = 69 | CES73 = 60 | CES98 = 75 |
| CES24 = 91 | CES49 = 80 | CES74 = 95 | CES99 = 63 |
| CES25 = 73 | CES50 = 87 | CES75 = 69 |            |



Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)