

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: P387065

Luminaire Tested: **GWC-SA2D-735-U-SLR**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P387065  
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-SA2D-735-U-SLR  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3500K, 1200mA 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: 13368.5 lumens  
Efficiency: N/A  
Efficacy: 103.6 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): 129  
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



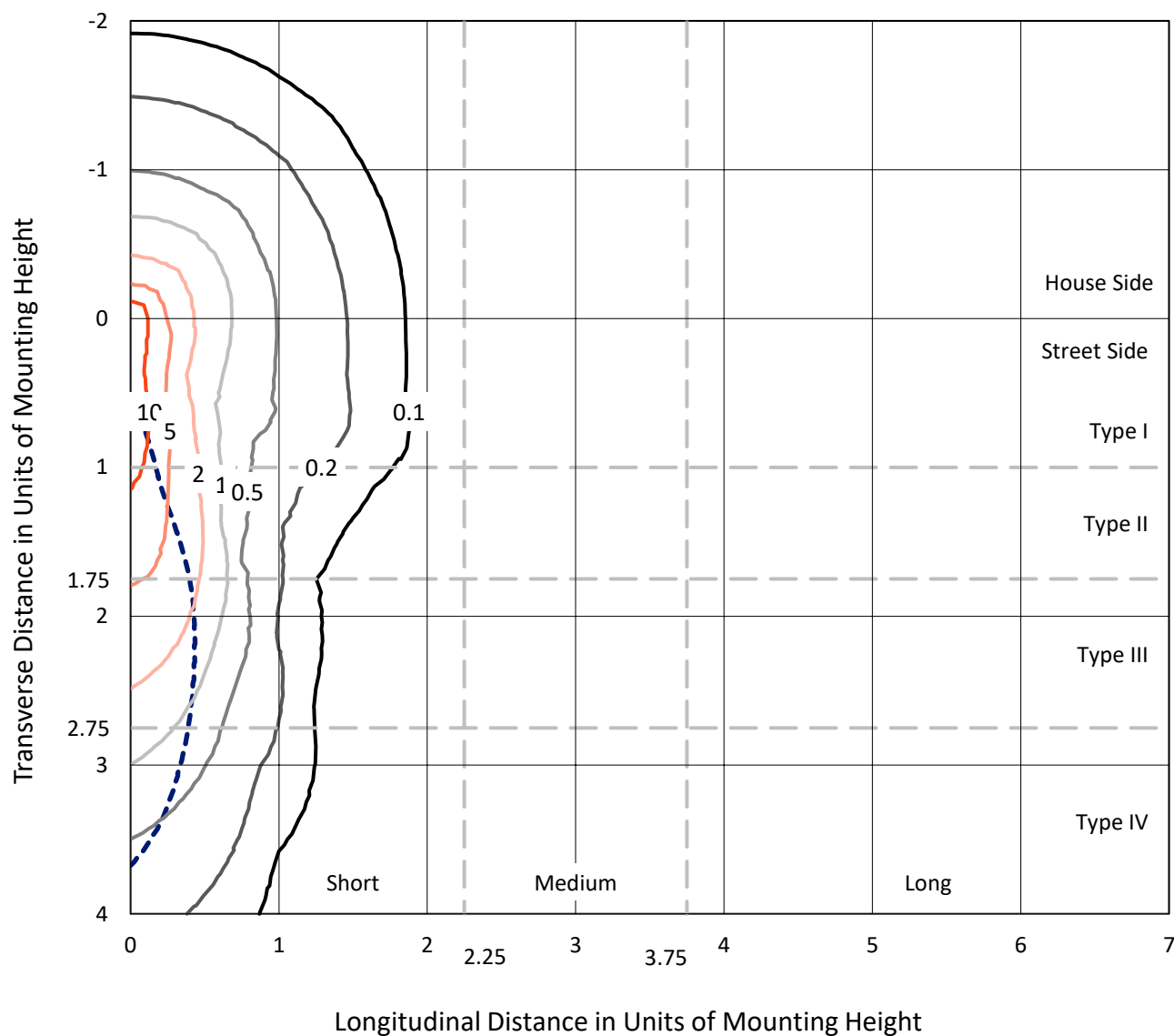
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

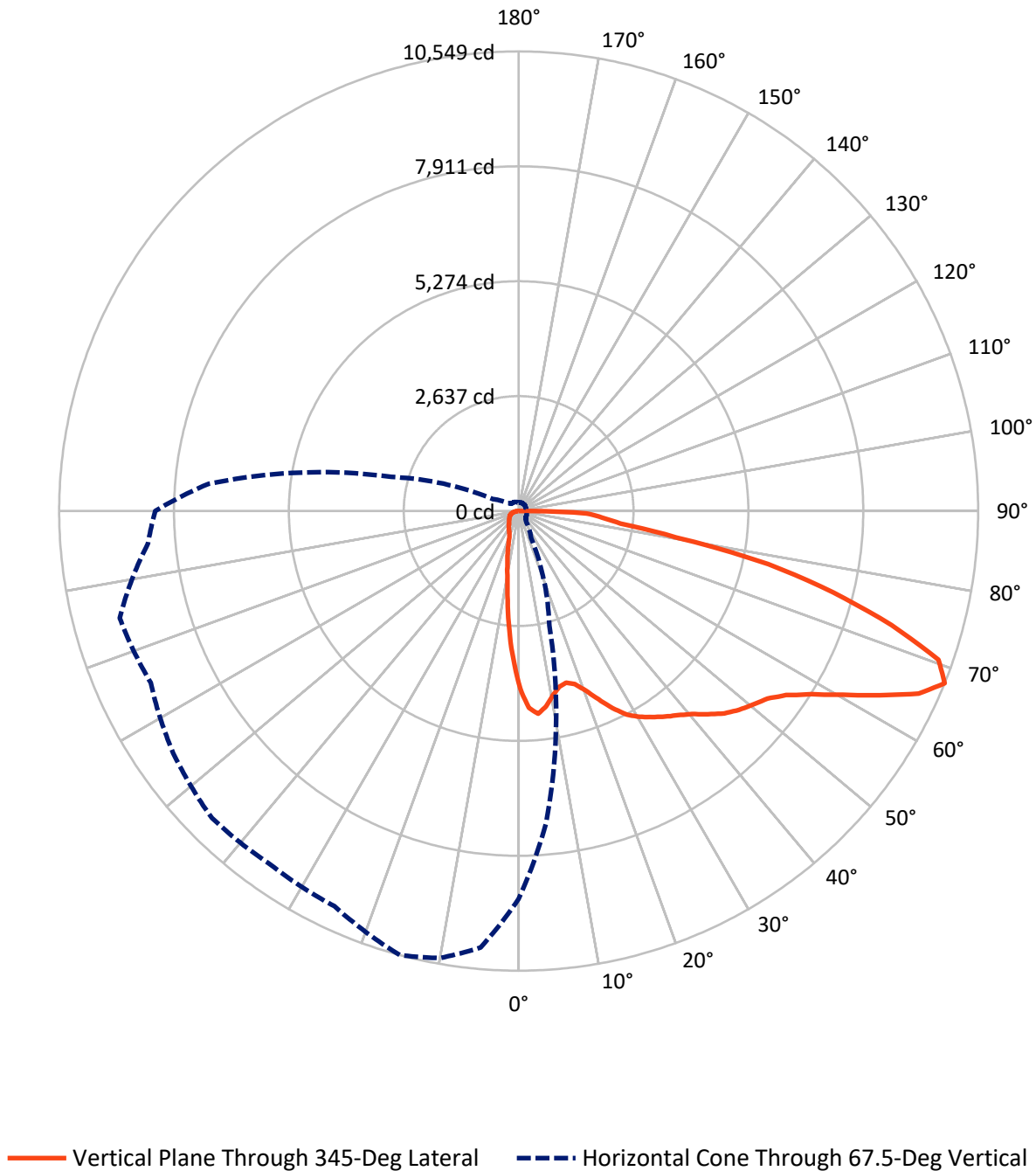
--- 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 18.1 fc  
 Type IV - Medium - N/A

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## Luminous Intensity Polar Plot



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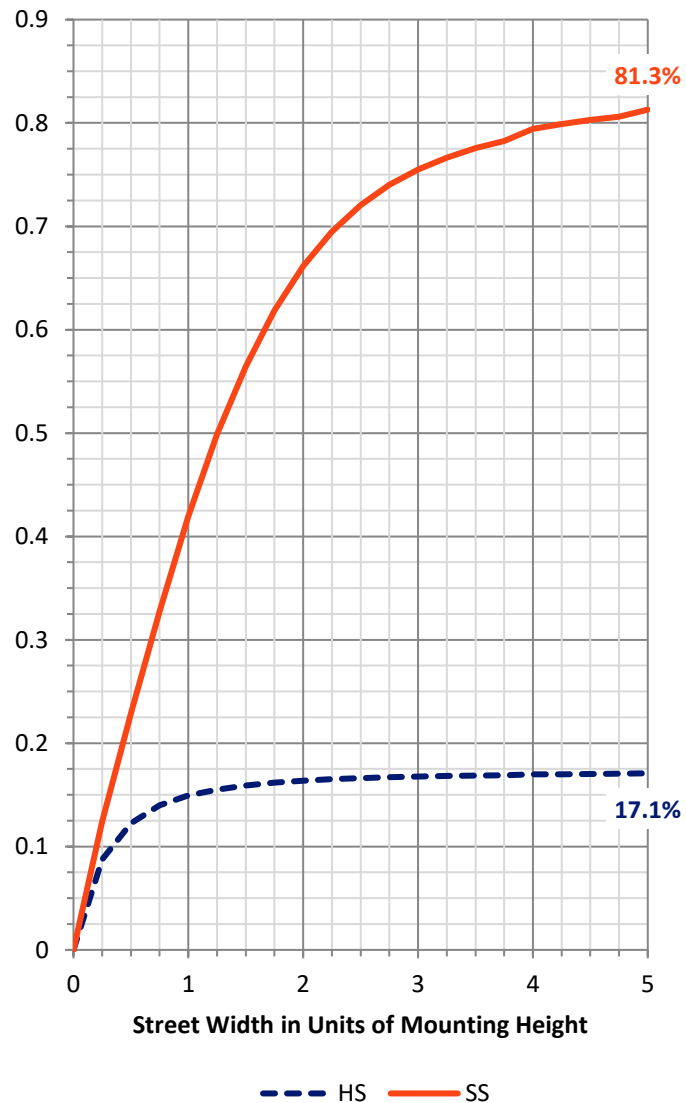
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2311.1   | 0.0    | 2311.1  |
|                    | % Fixture | 17.3     | 0.0    | 17.3    |
| <b>Street Side</b> | Lumens    | 11057.4  | 0.0    | 11057.4 |
|                    | % Fixture | 82.7     | 0.0    | 82.7    |
| <b>Total</b>       | Lumens    | 13368.5  | 0.0    | 13368.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 314.3   | 2.4       |
| 10°-20°   | 653.0   | 4.9       |
| 20°-30°   | 928.7   | 6.9       |
| 30°-40°   | 1338.2  | 10.0      |
| 40°-50°   | 1886.0  | 14.1      |
| 50°-60°   | 2621.8  | 19.6      |
| 60°-70°   | 3170.5  | 23.7      |
| 70°-80°   | 1948.9  | 14.6      |
| 80°-90°   | 507.1   | 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°    | 13368.5 | 100.0     |
| 0°-180°   | 13368.5 | 100.0     |

**Coefficient of Utilization**



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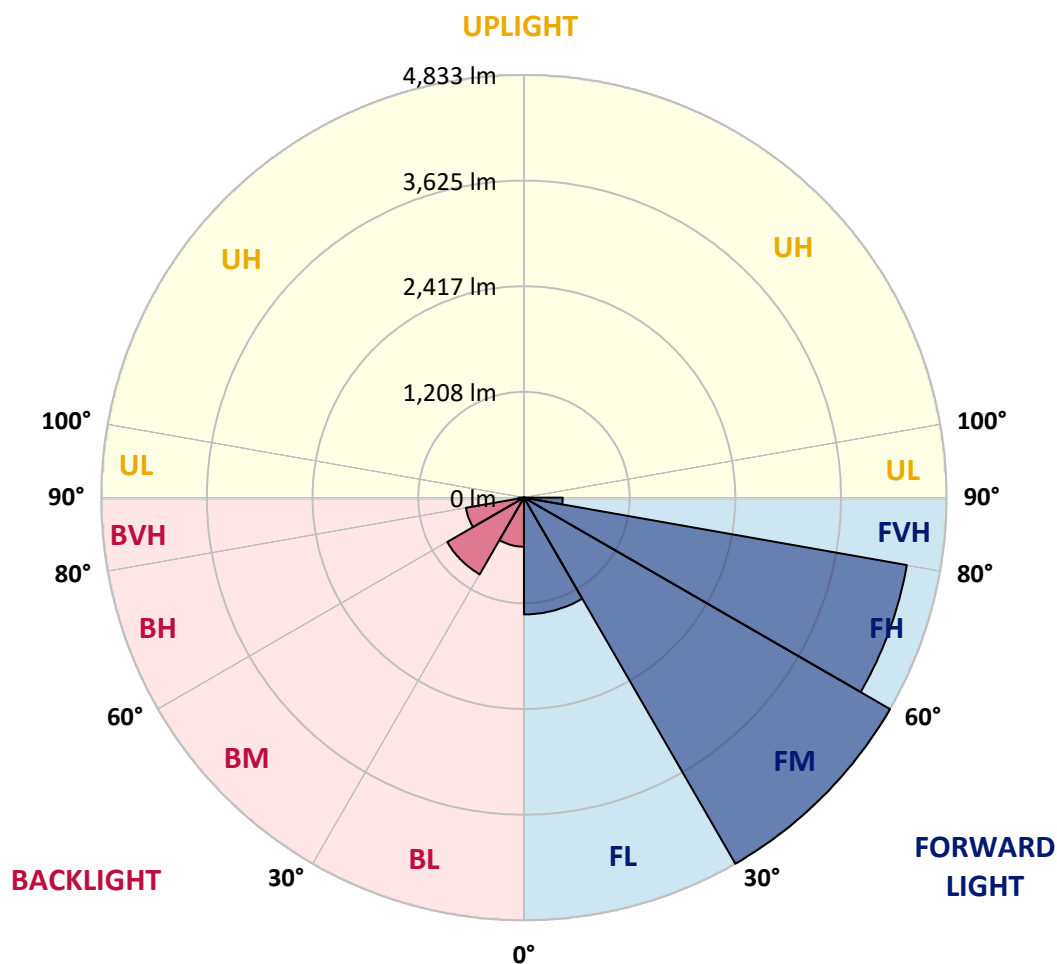
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1334.9 | 10.0      |                         |      |         |
| FM   | (30°-60°)   | 4833.1 | 36.2      |                         |      |         |
| FH   | (60°-80°)   | 4445.9 | 33.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 443.5  | 3.3       |                         |      | G3/500  |
| BL   | (0°-30°)    | 561.1  | 4.2       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1012.9 | 7.6       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 673.5  | 5.0       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 63.6   | 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°     | 4072.8 | 4072.8 | 4072.8 | 4072.8 | 4072.8 | 4072.8 | 4072.8 | 4072.8 | 4072.8 | 4072.8 | 4072.8 |
| 2.5°   | 4363.0 | 4324.6 | 4266.3 | 4208.0 | 4164.7 | 4120.9 | 4071.2 | 4021.5 | 3964.8 | 3907.7 | 3874.0 |
| 5°     | 4290.9 | 4184.0 | 4045.0 | 3906.1 | 3814.1 | 3722.2 | 3618.0 | 3513.7 | 3410.6 | 3307.4 | 3251.8 |
| 7.5°   | 3965.9 | 3805.6 | 3624.9 | 3444.3 | 3310.6 | 3176.5 | 3032.2 | 2887.3 | 2759.0 | 2630.2 | 2550.5 |
| 10°    | 3646.3 | 3453.9 | 3246.5 | 3038.6 | 2867.5 | 2696.5 | 2551.7 | 2406.3 | 2309.5 | 2212.7 | 2139.6 |
| 12.5°  | 3417.0 | 3203.7 | 2975.5 | 2746.8 | 2575.7 | 2404.7 | 2312.7 | 2220.8 | 2140.6 | 2060.5 | 1976.0 |
| 15°    | 3326.1 | 3085.1 | 2851.5 | 2617.4 | 2461.9 | 2306.3 | 2204.2 | 2101.6 | 1994.1 | 1886.2 | 1782.5 |
| 17.5°  | 3406.3 | 3124.0 | 2870.2 | 2616.3 | 2412.6 | 2209.1 | 2066.3 | 1923.1 | 1781.5 | 1639.8 | 1519.6 |
| 20°    | 3656.4 | 3296.2 | 2964.3 | 2631.8 | 2360.9 | 2089.9 | 1898.5 | 1706.6 | 1524.9 | 1343.1 | 1206.8 |
| 22.5°  | 4007.6 | 3530.8 | 3097.4 | 2663.9 | 2313.8 | 1963.1 | 1723.2 | 1482.6 | 1267.8 | 1053.0 | 919.3  |
| 25°    | 4434.1 | 3841.9 | 3289.3 | 2736.1 | 2294.6 | 1852.6 | 1557.5 | 1262.5 | 1035.9 | 808.7  | 713.6  |
| 27.5°  | 4883.6 | 4212.8 | 3527.6 | 2841.9 | 2297.8 | 1753.7 | 1418.0 | 1081.8 | 877.7  | 673.5  | 608.3  |
| 30°    | 5258.4 | 4636.7 | 3805.6 | 2973.9 | 2310.1 | 1646.2 | 1286.5 | 926.8  | 758.5  | 590.0  | 547.9  |
| 32.5°  | 5600.9 | 4932.3 | 4015.1 | 3097.4 | 2324.0 | 1550.0 | 1185.0 | 819.3  | 682.0  | 544.1  | 509.3  |
| 35°    | 5954.7 | 5194.7 | 4161.5 | 3127.8 | 2299.9 | 1471.5 | 1115.4 | 759.5  | 632.9  | 505.6  | 476.3  |
| 37.5°  | 6344.4 | 5478.5 | 4302.6 | 3126.2 | 2259.2 | 1392.4 | 1061.5 | 730.1  | 600.7  | 470.9  | 449.5  |
| 40°    | 6778.9 | 5792.3 | 4455.5 | 3118.8 | 2222.4 | 1325.6 | 1021.4 | 716.8  | 583.1  | 448.9  | 430.8  |
| 42.5°  | 7203.8 | 6091.6 | 4597.7 | 3103.8 | 2192.5 | 1280.7 | 981.9  | 683.0  | 567.1  | 450.5  | 424.9  |
| 45°    | 7522.9 | 6352.9 | 4721.1 | 3088.8 | 2170.0 | 1251.3 | 950.9  | 650.4  | 552.1  | 453.8  | 421.2  |
| 47.5°  | 7765.0 | 6615.4 | 4858.0 | 3100.0 | 2167.9 | 1235.8 | 929.0  | 622.2  | 523.8  | 424.9  | 411.5  |
| 50°    | 8073.0 | 6930.8 | 5057.3 | 3184.0 | 2197.2 | 1210.6 | 903.3  | 595.4  | 496.6  | 397.6  | 415.9  |
| 52.5°  | 8456.1 | 7380.7 | 5366.3 | 3351.3 | 2258.8 | 1166.3 | 862.6  | 559.0  | 463.4  | 367.2  | 395.5  |
| 55°    | 9018.9 | 7957.5 | 5761.3 | 3564.5 | 2333.1 | 1101.1 | 801.2  | 500.8  | 419.5  | 337.8  | 362.9  |
| 57.5°  | 9524.0 | 8540.0 | 6140.3 | 3739.8 | 2379.6 | 1018.8 | 723.7  | 428.6  | 370.4  | 312.2  | 326.5  |
| 60°    | 9749.1 | 8840.4 | 6317.7 | 3794.3 | 2351.8 | 909.1  | 636.5  | 363.5  | 327.1  | 290.7  | 288.1  |
| 62.5°  | 9661.5 | 8649.7 | 6142.9 | 3636.1 | 2216.0 | 795.9  | 559.6  | 323.3  | 296.1  | 268.3  | 262.5  |
| 65°    | 9404.8 | 8049.9 | 5653.3 | 3256.7 | 1986.7 | 716.8  | 510.9  | 305.2  | 274.8  | 244.2  | 237.9  |
| 67.5°  | 8899.3 | 7196.3 | 4959.5 | 2722.6 | 1695.4 | 668.1  | 483.2  | 298.3  | 261.3  | 224.0  | 216.4  |
| 70°    | 7991.7 | 6169.1 | 4160.5 | 2151.3 | 1395.0 | 638.2  | 465.0  | 291.9  | 247.0  | 201.5  | 194.5  |
| 72.5°  | 6564.1 | 4946.2 | 3322.4 | 1698.0 | 1166.3 | 634.5  | 462.8  | 291.3  | 235.1  | 179.0  | 172.7  |
| 75°    | 4699.8 | 3756.9 | 2536.2 | 1314.9 | 955.2  | 595.4  | 439.4  | 283.3  | 219.2  | 154.4  | 148.6  |
| 77.5°  | 3162.6 | 2600.3 | 1762.8 | 924.6  | 708.8  | 492.8  | 369.4  | 245.8  | 187.6  | 129.4  | 123.4  |
| 80°    | 2031.1 | 1799.6 | 1181.2 | 562.8  | 459.6  | 356.5  | 264.1  | 171.5  | 136.9  | 101.5  | 96.8   |
| 82.5°  | 1490.2 | 1339.4 | 820.9  | 302.5  | 255.5  | 207.9  | 161.4  | 114.9  | 93.6   | 72.1   | 70.0   |
| 85°    | 947.1  | 1044.4 | 604.5  | 164.6  | 134.7  | 104.7  | 86.6   | 68.4   | 54.0   | 39.5   | 39.5   |
| 87.5°  | 183.8  | 254.4  | 167.3  | 79.7   | 58.2   | 36.9   | 31.6   | 25.6   | 14.5   | 2.6    | 3.2    |
| 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°     | 4072.8 | 4072.8 | 4072.8 | 4072.8 | 4072.8 | 4072.8 | 4072.8 | 4072.8 | 4072.8 | 4072.8 | 4072.8 |
| 2.5°   | 3839.8 | 3802.9 | 3766.0 | 3724.3 | 3682.1 | 3643.1 | 3603.5 | 3560.2 | 3568.3 | 3535.1 | 3502.0 |
| 5°     | 3196.3 | 3137.5 | 3078.1 | 3026.8 | 2975.5 | 2931.1 | 2886.3 | 2846.2 | 2880.9 | 2857.4 | 2833.9 |
| 7.5°   | 2470.4 | 2397.7 | 2324.5 | 2263.0 | 2201.6 | 2154.0 | 2105.9 | 2072.8 | 2107.0 | 2102.6 | 2098.4 |
| 10°    | 2066.3 | 1995.7 | 1924.7 | 1856.8 | 1789.0 | 1731.2 | 1673.0 | 1623.7 | 1615.2 | 1590.7 | 1565.5 |
| 12.5°  | 1891.0 | 1794.2 | 1697.0 | 1625.9 | 1554.8 | 1485.8 | 1416.9 | 1359.2 | 1333.0 | 1292.4 | 1251.3 |
| 15°    | 1678.8 | 1564.5 | 1450.0 | 1369.4 | 1288.1 | 1221.3 | 1154.0 | 1104.3 | 1087.7 | 1056.2 | 1024.6 |
| 17.5°  | 1399.3 | 1274.2 | 1149.2 | 1067.3 | 985.0  | 931.6  | 877.7  | 844.5  | 844.5  | 835.4  | 826.3  |
| 20°    | 1070.6 | 958.8  | 847.1  | 784.7  | 722.1  | 693.7  | 664.9  | 651.0  | 655.3  | 655.8  | 655.8  |
| 22.5°  | 785.1  | 716.8  | 648.4  | 623.2  | 597.5  | 587.4  | 577.3  | 571.3  | 573.5  | 574.1  | 574.5  |
| 25°    | 618.4  | 592.2  | 565.5  | 552.6  | 539.3  | 532.9  | 526.4  | 524.4  | 529.2  | 529.7  | 529.7  |
| 27.5°  | 543.1  | 527.0  | 510.5  | 502.4  | 493.8  | 491.2  | 488.5  | 484.8  | 489.6  | 489.6  | 489.0  |
| 30°    | 505.1  | 488.0  | 470.9  | 460.8  | 450.5  | 451.7  | 452.2  | 451.1  | 454.3  | 456.5  | 458.0  |
| 32.5°  | 474.1  | 457.5  | 441.0  | 430.8  | 420.1  | 418.5  | 416.9  | 415.9  | 422.8  | 426.5  | 430.2  |
| 35°    | 446.3  | 428.1  | 410.0  | 400.4  | 390.7  | 386.9  | 383.3  | 380.5  | 386.9  | 391.8  | 396.6  |
| 37.5°  | 427.6  | 408.9  | 389.7  | 380.5  | 371.0  | 366.1  | 361.3  | 358.1  | 360.8  | 362.9  | 365.0  |
| 40°    | 412.6  | 393.4  | 373.6  | 362.9  | 352.3  | 347.4  | 342.6  | 340.0  | 341.6  | 342.0  | 342.6  |
| 42.5°  | 398.8  | 380.0  | 361.3  | 349.5  | 337.2  | 331.4  | 325.5  | 322.3  | 323.3  | 324.5  | 324.9  |
| 45°    | 388.5  | 369.8  | 350.6  | 336.8  | 322.3  | 315.9  | 309.4  | 305.8  | 306.2  | 306.2  | 306.2  |
| 47.5°  | 398.2  | 371.0  | 343.2  | 327.1  | 310.6  | 303.0  | 295.5  | 291.9  | 290.7  | 289.7  | 288.6  |
| 50°    | 433.4  | 386.9  | 340.0  | 319.6  | 298.8  | 290.7  | 282.2  | 278.0  | 275.2  | 274.2  | 273.1  |
| 52.5°  | 423.3  | 383.3  | 342.6  | 316.4  | 289.7  | 280.0  | 270.5  | 263.5  | 260.9  | 259.3  | 257.6  |
| 55°    | 387.5  | 362.4  | 336.8  | 305.2  | 273.6  | 265.1  | 256.0  | 251.2  | 246.4  | 245.4  | 244.2  |
| 57.5°  | 340.4  | 330.3  | 320.1  | 288.1  | 256.0  | 248.0  | 239.5  | 236.3  | 231.9  | 231.9  | 231.5  |
| 60°    | 284.9  | 299.9  | 314.8  | 278.0  | 240.5  | 231.5  | 222.4  | 219.6  | 218.0  | 217.6  | 217.0  |
| 62.5°  | 256.0  | 280.6  | 304.6  | 265.7  | 226.1  | 216.4  | 206.9  | 203.7  | 203.1  | 203.7  | 203.7  |
| 65°    | 231.5  | 238.9  | 246.4  | 228.3  | 210.0  | 200.5  | 190.3  | 187.0  | 188.2  | 189.8  | 191.4  |
| 67.5°  | 209.0  | 207.4  | 205.8  | 199.3  | 192.4  | 184.4  | 175.9  | 172.7  | 173.1  | 175.3  | 177.5  |
| 70°    | 187.6  | 185.4  | 182.8  | 178.0  | 173.1  | 166.3  | 159.3  | 157.2  | 156.6  | 159.3  | 161.4  |
| 72.5°  | 166.3  | 163.5  | 160.4  | 156.6  | 152.4  | 146.5  | 140.5  | 138.9  | 139.5  | 141.1  | 142.7  |
| 75°    | 142.7  | 140.5  | 137.9  | 134.7  | 131.0  | 125.6  | 120.2  | 119.2  | 120.2  | 121.8  | 123.4  |
| 77.5°  | 117.0  | 116.5  | 115.5  | 112.8  | 110.1  | 104.2  | 97.8   | 97.3   | 98.9   | 100.5  | 101.5  |
| 80°    | 91.4   | 92.0   | 92.4   | 90.4   | 88.2   | 81.8   | 74.9   | 74.3   | 75.9   | 77.5   | 79.1   |
| 82.5°  | 67.4   | 69.0   | 70.0   | 67.4   | 64.6   | 57.2   | 49.7   | 48.7   | 54.0   | 55.6   | 57.2   |
| 85°    | 39.0   | 41.1   | 43.3   | 41.1   | 39.0   | 31.6   | 24.0   | 23.5   | 28.4   | 31.0   | 33.6   |
| 87.5°  | 3.2    | 4.3    | 5.4    | 4.8    | 4.3    | 2.2    | 0.0    | 0.0    | 0.6    | 2.6    | 4.8    |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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CATALOG NUMBER: GWC-SA2D-735-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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CATALOG NUMBER: GWC-SA2D-735-U-SLR

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 4072.8 | 4072.8 | 4072.8 | 4072.8 | 4072.8 | 4072.8 | 4072.8 | 4072.8 | 4072.8 | 4072.8 | 4072.8 |
| 2.5°   | 3481.1 | 3460.3 | 3453.9 | 3447.5 | 3423.9 | 3399.9 | 3424.5 | 3448.5 | 3458.7 | 3468.8 | 3442.7 |
| 5°     | 2830.7 | 2826.9 | 2826.9 | 2826.4 | 2805.0 | 2783.0 | 2799.7 | 2815.6 | 2779.9 | 2744.1 | 2740.3 |
| 7.5°   | 2121.4 | 2144.4 | 2163.0 | 2181.3 | 2174.3 | 2167.4 | 2182.9 | 2198.4 | 2152.9 | 2107.0 | 2084.5 |
| 10°    | 1570.9 | 1575.6 | 1596.0 | 1616.3 | 1621.1 | 1625.3 | 1644.6 | 1663.3 | 1628.1 | 1592.7 | 1577.2 |
| 12.5°  | 1225.6 | 1199.9 | 1202.6 | 1204.8 | 1214.4 | 1223.5 | 1243.8 | 1263.6 | 1249.1 | 1234.2 | 1235.8 |
| 15°    | 992.6  | 960.0  | 946.6  | 932.7  | 943.3  | 954.0  | 968.5  | 982.4  | 982.9  | 982.9  | 996.8  |
| 17.5°  | 810.3  | 793.7  | 780.4  | 766.5  | 780.9  | 794.8  | 796.4  | 798.0  | 798.5  | 799.0  | 798.0  |
| 20°    | 663.9  | 671.9  | 667.5  | 663.3  | 668.7  | 673.5  | 677.8  | 681.4  | 676.6  | 671.3  | 658.0  |
| 22.5°  | 582.0  | 589.0  | 594.4  | 599.1  | 608.3  | 616.8  | 612.5  | 607.7  | 598.1  | 588.0  | 577.8  |
| 25°    | 534.5  | 539.3  | 544.7  | 550.0  | 557.4  | 564.4  | 557.0  | 549.5  | 542.5  | 535.5  | 528.6  |
| 27.5°  | 494.4  | 499.2  | 504.0  | 508.3  | 515.3  | 521.6  | 514.7  | 507.7  | 501.9  | 496.0  | 490.6  |
| 30°    | 461.8  | 465.0  | 468.8  | 472.5  | 478.9  | 484.8  | 478.9  | 472.5  | 468.2  | 463.4  | 459.6  |
| 32.5°  | 434.0  | 437.2  | 438.8  | 440.4  | 446.3  | 452.2  | 447.9  | 443.6  | 439.9  | 436.2  | 433.4  |
| 35°    | 403.6  | 410.0  | 411.0  | 412.1  | 417.9  | 423.9  | 421.2  | 417.9  | 413.7  | 409.4  | 404.6  |
| 37.5°  | 372.6  | 380.0  | 384.3  | 388.1  | 393.9  | 399.8  | 397.1  | 394.5  | 388.5  | 382.7  | 374.2  |
| 40°    | 346.4  | 349.5  | 357.5  | 365.0  | 374.6  | 383.7  | 378.4  | 372.6  | 363.5  | 354.3  | 350.1  |
| 42.5°  | 324.5  | 323.9  | 331.4  | 338.8  | 353.3  | 367.2  | 357.5  | 348.0  | 339.4  | 330.9  | 329.8  |
| 45°    | 305.2  | 303.6  | 307.4  | 311.0  | 326.5  | 341.6  | 331.9  | 321.7  | 317.0  | 312.2  | 312.2  |
| 47.5°  | 288.1  | 287.0  | 289.7  | 291.9  | 301.5  | 310.6  | 305.8  | 300.9  | 298.3  | 295.5  | 296.1  |
| 50°    | 272.6  | 271.5  | 274.2  | 276.4  | 280.0  | 283.3  | 284.4  | 284.9  | 283.3  | 281.6  | 282.8  |
| 52.5°  | 258.1  | 258.1  | 259.3  | 259.7  | 264.5  | 269.4  | 269.4  | 268.9  | 268.9  | 268.9  | 269.9  |
| 55°    | 245.8  | 247.0  | 247.0  | 247.0  | 254.4  | 261.3  | 259.3  | 257.1  | 257.6  | 257.6  | 258.7  |
| 57.5°  | 233.5  | 235.1  | 236.3  | 237.3  | 244.8  | 252.3  | 250.2  | 248.0  | 248.0  | 248.0  | 248.6  |
| 60°    | 219.6  | 221.8  | 224.0  | 226.1  | 233.5  | 241.0  | 238.9  | 236.3  | 236.8  | 237.3  | 237.9  |
| 62.5°  | 206.3  | 208.5  | 210.6  | 212.8  | 220.2  | 227.7  | 225.5  | 222.9  | 224.5  | 225.5  | 225.5  |
| 65°    | 193.5  | 195.1  | 197.3  | 199.3  | 206.3  | 213.2  | 211.1  | 209.0  | 211.1  | 212.8  | 213.8  |
| 67.5°  | 179.0  | 180.1  | 182.2  | 184.4  | 191.4  | 198.3  | 196.1  | 193.5  | 196.1  | 198.3  | 200.5  |
| 70°    | 162.5  | 163.5  | 166.3  | 168.3  | 175.3  | 182.2  | 179.6  | 176.9  | 179.6  | 182.2  | 184.4  |
| 72.5°  | 144.3  | 145.4  | 148.0  | 150.2  | 158.2  | 166.3  | 163.0  | 159.8  | 163.0  | 166.3  | 167.3  |
| 75°    | 124.6  | 125.6  | 128.8  | 131.5  | 139.5  | 147.5  | 144.9  | 141.7  | 144.3  | 147.0  | 147.5  |
| 77.5°  | 103.1  | 104.7  | 109.1  | 113.3  | 119.7  | 126.2  | 124.6  | 123.0  | 124.6  | 126.2  | 126.2  |
| 80°    | 80.7   | 82.3   | 87.6   | 92.4   | 96.2   | 100.0  | 100.5  | 101.0  | 101.5  | 102.1  | 101.5  |
| 82.5°  | 59.8   | 62.0   | 66.8   | 71.6   | 71.6   | 71.6   | 75.9   | 79.7   | 79.7   | 79.1   | 78.5   |
| 85°    | 36.9   | 39.5   | 43.9   | 48.1   | 45.5   | 42.7   | 49.7   | 56.1   | 56.1   | 55.6   | 54.5   |
| 87.5°  | 7.5    | 10.1   | 14.5   | 18.1   | 15.5   | 12.9   | 19.8   | 26.7   | 27.2   | 27.2   | 26.2   |
| 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°     | 4072.8 | 4072.8 | 4072.8 | 4072.8 | 4072.8 | 4072.8 | 4072.8 | 4072.8 | 4072.8 | 4072.8 | 4072.8 |
| 2.5°   | 3415.9 | 3457.6 | 3498.8 | 3509.5 | 3525.5 | 3532.4 | 3538.9 | 3591.2 | 3643.1 | 3704.0 | 3764.9 |
| 5°     | 2736.1 | 2767.1 | 2798.1 | 2802.9 | 2819.4 | 2828.0 | 2836.5 | 2900.1 | 2963.2 | 3048.2 | 3133.2 |
| 7.5°   | 2062.1 | 2069.6 | 2077.0 | 2076.0 | 2089.9 | 2108.6 | 2126.7 | 2194.6 | 2262.0 | 2353.4 | 2444.2 |
| 10°    | 1561.7 | 1578.8 | 1595.5 | 1611.0 | 1641.4 | 1676.7 | 1711.5 | 1780.9 | 1850.4 | 1940.7 | 2030.5 |
| 12.5°  | 1237.4 | 1257.1 | 1276.4 | 1293.5 | 1328.8 | 1375.7 | 1422.2 | 1505.7 | 1589.1 | 1697.0 | 1804.5 |
| 15°    | 1010.2 | 1008.6 | 1006.9 | 1018.8 | 1049.8 | 1101.1 | 1151.8 | 1240.0 | 1328.2 | 1446.9 | 1565.0 |
| 17.5°  | 796.9  | 788.9  | 780.9  | 789.9  | 818.9  | 861.0  | 902.8  | 977.6  | 1051.8 | 1166.8 | 1281.7 |
| 20°    | 644.6  | 639.3  | 633.9  | 642.5  | 660.7  | 678.2  | 695.9  | 749.9  | 803.4  | 896.8  | 989.8  |
| 22.5°  | 567.1  | 566.5  | 565.5  | 570.3  | 578.9  | 588.0  | 596.5  | 622.7  | 648.4  | 708.8  | 768.6  |
| 25°    | 521.6  | 521.1  | 520.6  | 522.8  | 529.7  | 536.6  | 543.5  | 560.7  | 577.8  | 606.7  | 635.5  |
| 27.5°  | 485.3  | 484.3  | 483.2  | 483.7  | 485.3  | 496.0  | 506.1  | 514.2  | 521.6  | 541.5  | 560.7  |
| 30°    | 455.9  | 455.4  | 454.9  | 454.9  | 453.3  | 457.0  | 460.8  | 473.0  | 484.8  | 505.1  | 525.4  |
| 32.5°  | 430.8  | 428.1  | 425.5  | 419.5  | 415.9  | 421.2  | 426.5  | 439.4  | 452.2  | 470.9  | 489.6  |
| 35°    | 399.2  | 392.3  | 384.9  | 381.6  | 382.1  | 387.5  | 392.9  | 405.7  | 417.9  | 438.3  | 458.0  |
| 37.5°  | 365.0  | 362.9  | 360.3  | 359.7  | 361.3  | 366.6  | 372.0  | 383.3  | 393.9  | 414.3  | 434.0  |
| 40°    | 345.8  | 344.8  | 343.6  | 342.6  | 343.6  | 349.0  | 354.3  | 365.0  | 375.2  | 395.0  | 414.3  |
| 42.5°  | 328.7  | 328.1  | 327.7  | 327.7  | 328.1  | 334.0  | 340.0  | 350.6  | 360.8  | 378.4  | 396.0  |
| 45°    | 312.2  | 312.6  | 312.6  | 313.8  | 315.4  | 321.3  | 326.5  | 338.4  | 350.1  | 367.2  | 384.3  |
| 47.5°  | 296.7  | 298.3  | 299.3  | 302.0  | 303.6  | 310.0  | 315.9  | 328.7  | 341.6  | 362.9  | 383.7  |
| 50°    | 283.3  | 284.9  | 286.0  | 288.1  | 292.3  | 299.9  | 307.4  | 322.9  | 337.8  | 373.6  | 408.9  |
| 52.5°  | 271.0  | 272.6  | 274.2  | 276.4  | 281.6  | 290.3  | 298.8  | 318.0  | 336.8  | 378.4  | 420.1  |
| 55°    | 259.7  | 261.3  | 262.5  | 265.7  | 271.0  | 278.4  | 285.4  | 309.0  | 332.5  | 362.9  | 393.4  |
| 57.5°  | 249.0  | 250.6  | 251.8  | 253.9  | 256.5  | 264.5  | 272.0  | 297.1  | 322.3  | 343.6  | 364.5  |
| 60°    | 237.9  | 238.9  | 239.5  | 239.5  | 241.6  | 250.6  | 259.7  | 291.9  | 323.3  | 319.6  | 315.4  |
| 62.5°  | 225.5  | 226.6  | 227.1  | 225.5  | 228.3  | 237.9  | 247.4  | 289.1  | 330.9  | 305.2  | 279.6  |
| 65°    | 214.4  | 213.8  | 213.2  | 211.6  | 214.8  | 224.5  | 233.5  | 254.4  | 275.2  | 265.1  | 255.0  |
| 67.5°  | 202.1  | 200.5  | 198.9  | 196.7  | 199.9  | 208.5  | 216.4  | 223.4  | 230.3  | 231.5  | 232.5  |
| 70°    | 186.6  | 184.4  | 182.2  | 181.8  | 183.4  | 190.3  | 197.3  | 202.1  | 206.3  | 208.5  | 210.0  |
| 72.5°  | 168.3  | 166.7  | 165.1  | 164.1  | 164.6  | 170.5  | 175.9  | 180.1  | 184.4  | 186.0  | 187.0  |
| 75°    | 148.0  | 148.0  | 147.5  | 144.3  | 144.3  | 149.1  | 153.4  | 157.2  | 160.9  | 163.0  | 165.1  |
| 77.5°  | 126.2  | 126.6  | 126.6  | 122.4  | 121.8  | 126.6  | 131.0  | 134.1  | 136.9  | 138.9  | 140.5  |
| 80°    | 101.0  | 100.0  | 98.9   | 96.2   | 95.2   | 101.0  | 106.3  | 109.1  | 111.1  | 111.7  | 111.7  |
| 82.5°  | 77.5   | 75.3   | 72.7   | 66.8   | 67.4   | 73.7   | 79.7   | 81.8   | 83.9   | 83.9   | 83.9   |
| 85°    | 52.9   | 48.7   | 43.9   | 39.0   | 39.5   | 46.5   | 52.9   | 55.0   | 57.2   | 58.2   | 58.8   |
| 87.5°  | 25.1   | 20.9   | 16.1   | 12.3   | 12.3   | 18.1   | 23.5   | 24.6   | 25.6   | 27.8   | 30.0   |
| 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):**

|        | 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°     | 4072.8 | 4072.8 | 4072.8 | 4072.8 | 4072.8 | 4072.8 | 4072.8 | 4072.8 | 4072.8 | 4072.8 | 4072.8 |
| 2.5°   | 3811.4 | 3857.4 | 3905.0 | 3952.6 | 4007.1 | 4061.6 | 4125.2 | 4188.3 | 4242.2 | 4296.2 | 4341.1 |
| 5°     | 3206.4 | 3279.6 | 3365.7 | 3451.7 | 3561.3 | 3670.9 | 3805.0 | 3938.7 | 4057.8 | 4177.0 | 4315.5 |
| 7.5°   | 2539.9 | 2635.0 | 2747.3 | 2859.5 | 3001.2 | 3142.8 | 3316.5 | 3490.2 | 3658.6 | 3826.4 | 4039.1 |
| 10°    | 2130.5 | 2230.4 | 2341.1 | 2451.2 | 2595.5 | 2739.3 | 2923.1 | 3106.5 | 3295.7 | 3484.3 | 3724.9 |
| 12.5°  | 1915.6 | 2026.3 | 2123.5 | 2220.8 | 2337.9 | 2454.4 | 2632.4 | 2810.4 | 3032.7 | 3254.5 | 3485.9 |
| 15°    | 1686.3 | 1807.1 | 1923.6 | 2040.2 | 2167.9 | 2295.1 | 2468.3 | 2641.5 | 2884.6 | 3127.8 | 3394.0 |
| 17.5°  | 1408.9 | 1536.1 | 1678.3 | 1820.0 | 1986.7 | 2152.9 | 2374.7 | 2596.6 | 2884.6 | 3172.2 | 3485.9 |
| 20°    | 1119.8 | 1249.7 | 1419.6 | 1589.5 | 1797.0 | 2003.8 | 2291.4 | 2578.9 | 2967.0 | 3354.5 | 3754.8 |
| 22.5°  | 883.5  | 997.9  | 1183.4 | 1368.3 | 1607.8 | 1847.2 | 2216.0 | 2584.3 | 3091.5 | 3598.2 | 4138.6 |
| 25°    | 716.2  | 796.9  | 979.2  | 1160.9 | 1437.3 | 1713.5 | 2170.0 | 2626.0 | 3272.7 | 3918.9 | 4589.1 |
| 27.5°  | 613.6  | 666.5  | 836.4  | 1005.9 | 1307.9 | 1609.4 | 2151.3 | 2692.8 | 3502.5 | 4312.3 | 5079.2 |
| 30°    | 562.3  | 599.1  | 743.0  | 886.2  | 1192.9 | 1499.7 | 2128.9 | 2758.0 | 3723.8 | 4689.1 | 5462.5 |
| 32.5°  | 519.5  | 548.9  | 671.9  | 794.3  | 1093.5 | 1392.8 | 2085.5 | 2777.8 | 3878.3 | 4978.8 | 5786.9 |
| 35°    | 483.2  | 507.7  | 614.6  | 721.5  | 1015.5 | 1309.5 | 2012.9 | 2716.3 | 3975.0 | 5233.7 | 6124.8 |
| 37.5°  | 453.8  | 473.0  | 571.9  | 670.8  | 948.2  | 1225.6 | 1930.1 | 2634.5 | 4061.1 | 5487.6 | 6504.7 |
| 40°    | 430.8  | 447.3  | 539.9  | 632.3  | 884.1  | 1135.8 | 1859.0 | 2581.5 | 4179.7 | 5777.8 | 6906.1 |
| 42.5°  | 417.9  | 439.4  | 512.1  | 584.2  | 823.1  | 1062.0 | 1801.8 | 2541.5 | 4289.8 | 6037.6 | 7257.3 |
| 45°    | 414.7  | 445.3  | 497.6  | 550.0  | 777.7  | 1005.3 | 1751.0 | 2496.1 | 4360.9 | 6225.7 | 7521.9 |
| 47.5°  | 409.4  | 434.6  | 486.4  | 538.3  | 755.3  | 971.7  | 1723.7 | 2475.2 | 4432.0 | 6388.3 | 7741.5 |
| 50°    | 412.6  | 415.9  | 477.3  | 538.3  | 752.0  | 965.8  | 1754.7 | 2543.6 | 4585.9 | 6627.7 | 7992.7 |
| 52.5°  | 406.8  | 392.9  | 460.2  | 527.6  | 751.5  | 975.5  | 1844.0 | 2712.5 | 4871.9 | 7030.7 | 8264.8 |
| 55°    | 375.8  | 357.5  | 428.1  | 498.7  | 740.2  | 981.3  | 1950.4 | 2918.9 | 5255.6 | 7591.9 | 8753.8 |
| 57.5°  | 348.5  | 331.9  | 391.8  | 451.1  | 706.0  | 961.0  | 2059.9 | 3158.3 | 5661.4 | 8163.8 | 9304.9 |
| 60°    | 312.2  | 308.4  | 351.1  | 393.9  | 653.2  | 911.9  | 2150.3 | 3388.1 | 5933.9 | 8479.2 | 9517.1 |
| 62.5°  | 282.2  | 284.4  | 315.9  | 347.4  | 586.8  | 825.8  | 2180.1 | 3534.0 | 5926.4 | 8318.8 | 9303.3 |
| 65°    | 259.3  | 262.9  | 293.9  | 324.9  | 530.2  | 735.5  | 2081.8 | 3427.7 | 5626.6 | 7825.0 | 8880.6 |
| 67.5°  | 236.8  | 241.0  | 278.0  | 314.3  | 479.9  | 645.2  | 1836.0 | 3026.3 | 5087.3 | 7147.8 | 8342.9 |
| 70°    | 215.4  | 220.8  | 260.9  | 300.9  | 443.6  | 585.8  | 1519.0 | 2452.2 | 4412.2 | 6371.6 | 7720.1 |
| 72.5°  | 192.4  | 197.7  | 240.5  | 283.3  | 420.7  | 557.4  | 1238.4 | 1918.8 | 3580.5 | 5241.7 | 6603.7 |
| 75°    | 168.9  | 172.7  | 219.2  | 265.1  | 389.1  | 513.1  | 971.7  | 1429.8 | 2740.3 | 4050.9 | 4987.9 |
| 77.5°  | 145.4  | 150.2  | 189.2  | 227.7  | 330.3  | 432.4  | 732.3  | 1032.1 | 2010.8 | 2988.9 | 3468.8 |
| 80°    | 116.0  | 120.2  | 148.0  | 175.3  | 255.0  | 334.0  | 503.5  | 672.9  | 1383.8 | 2094.7 | 2365.1 |
| 82.5°  | 88.7   | 93.6   | 112.3  | 130.4  | 181.8  | 233.1  | 305.2  | 377.4  | 919.3  | 1460.8 | 1483.2 |
| 85°    | 61.0   | 62.6   | 75.9   | 88.7   | 112.3  | 135.7  | 174.8  | 213.8  | 608.3  | 1002.7 | 835.4  |
| 87.5°  | 30.4   | 30.4   | 39.5   | 48.7   | 60.4   | 72.1   | 92.4   | 112.3  | 194.5  | 276.8  | 159.3  |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**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  |



REPORT NUMBER: P387065

CATALOG NUMBER: GWC-SA2D-735-U-SLR

**CANDELA DISTRIBUTION (continued):**

|        | 275°   | 280°   | 285°   | 290°   | 295°   | 300°   | 305°    | 310°    | 315°    | 320°    | 325°    |
|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0°     | 4072.8 | 4072.8 | 4072.8 | 4072.8 | 4072.8 | 4072.8 | 4072.8  | 4072.8  | 4072.8  | 4072.8  | 4072.8  |
| 2.5°   | 4398.3 | 4437.3 | 4476.9 | 4506.8 | 4537.3 | 4581.1 | 4624.9  | 4633.0  | 4641.5  | 4624.4  | 4607.3  |
| 5°     | 4455.0 | 4573.1 | 4691.7 | 4801.3 | 4910.9 | 4976.6 | 5042.4  | 5055.7  | 5069.1  | 5027.9  | 4986.2  |
| 7.5°   | 4244.9 | 4450.7 | 4656.5 | 4845.1 | 5033.8 | 5148.2 | 5263.1  | 5288.8  | 5315.0  | 5247.6  | 5180.3  |
| 10°    | 3964.3 | 4217.1 | 4469.9 | 4718.5 | 4967.0 | 5133.2 | 5299.5  | 5332.6  | 5365.7  | 5281.8  | 5197.9  |
| 12.5°  | 3747.3 | 4017.2 | 4287.1 | 4549.0 | 4811.5 | 4983.6 | 5155.7  | 5196.8  | 5238.0  | 5177.1  | 5115.6  |
| 15°    | 3680.5 | 3934.4 | 4188.3 | 4416.5 | 4645.2 | 4785.8 | 4926.9  | 4943.5  | 4960.6  | 4951.0  | 4941.4  |
| 17.5°  | 3801.8 | 4031.1 | 4261.0 | 4385.0 | 4509.5 | 4565.6 | 4622.3  | 4640.4  | 4659.1  | 4683.2  | 4707.8  |
| 20°    | 4095.8 | 4257.2 | 4419.2 | 4413.8 | 4407.9 | 4380.7 | 4352.9  | 4348.1  | 4343.3  | 4412.2  | 4481.7  |
| 22.5°  | 4534.6 | 4598.7 | 4663.4 | 4513.2 | 4363.0 | 4271.6 | 4179.7  | 4161.5  | 4142.8  | 4216.1  | 4289.8  |
| 25°    | 5010.8 | 4999.1 | 4986.8 | 4700.8 | 4414.3 | 4240.1 | 4065.9  | 4045.6  | 4025.2  | 4087.8  | 4150.8  |
| 27.5°  | 5482.3 | 5405.3 | 5328.3 | 4939.7 | 4551.2 | 4298.4 | 4045.6  | 4025.2  | 4004.9  | 4060.5  | 4116.1  |
| 30°    | 5828.1 | 5704.6 | 5581.1 | 5141.2 | 4701.4 | 4401.0 | 4100.6  | 4067.5  | 4033.8  | 4102.2  | 4170.6  |
| 32.5°  | 6098.0 | 5932.3 | 5766.6 | 5304.9 | 4843.0 | 4518.0 | 4193.1  | 4141.2  | 4089.4  | 4180.8  | 4272.2  |
| 35°    | 6367.4 | 6134.3 | 5900.8 | 5450.7 | 5000.1 | 4656.5 | 4312.3  | 4248.7  | 4185.1  | 4310.7  | 4436.3  |
| 37.5°  | 6706.2 | 6371.6 | 6036.5 | 5614.9 | 5193.1 | 4863.9 | 4534.1  | 4468.9  | 4403.7  | 4563.5  | 4723.8  |
| 40°    | 7074.0 | 6627.7 | 6181.4 | 5794.4 | 5407.4 | 5150.9 | 4893.8  | 4831.8  | 4769.2  | 4963.9  | 5158.4  |
| 42.5°  | 7379.7 | 6866.0 | 6352.4 | 6010.9 | 5668.8 | 5488.1 | 5306.9  | 5306.4  | 5305.3  | 5502.6  | 5699.8  |
| 45°    | 7628.3 | 7064.9 | 6501.0 | 6222.0 | 5942.4 | 5848.4 | 5754.4  | 5829.7  | 5905.0  | 6083.0  | 6261.5  |
| 47.5°  | 7813.7 | 7231.6 | 6649.0 | 6463.6 | 6278.2 | 6292.0 | 6305.9  | 6459.3  | 6612.7  | 6727.1  | 6842.0  |
| 50°    | 7934.5 | 7382.9 | 6830.8 | 6773.6 | 6716.4 | 6840.9 | 6966.0  | 7141.8  | 7318.3  | 7396.2  | 7474.3  |
| 52.5°  | 8110.4 | 7588.1 | 7065.5 | 7129.5 | 7193.7 | 7448.1 | 7702.6  | 7880.5  | 8058.5  | 8087.3  | 8116.7  |
| 55°    | 8517.1 | 7965.5 | 7413.4 | 7536.3 | 7659.7 | 8032.9 | 8406.4  | 8545.4  | 8684.4  | 8695.0  | 8705.7  |
| 57.5°  | 9094.8 | 8494.1 | 7893.4 | 8025.9 | 8158.4 | 8589.3 | 9020.6  | 9170.3  | 9320.4  | 9299.6  | 9278.2  |
| 60°    | 9527.2 | 8996.0 | 8464.2 | 8597.8 | 8731.4 | 9151.6 | 9571.7  | 9743.8  | 9916.4  | 9870.4  | 9824.5  |
| 62.5°  | 9554.0 | 9270.2 | 8985.9 | 9106.7 | 9227.9 | 9639.5 | 10051.0 | 10228.0 | 10404.9 | 10324.7 | 10244.6 |
| 65°    | 9129.1 | 9256.3 | 9383.5 | 9423.6 | 9463.6 | 9847.5 | 10231.7 | 10367.0 | 10502.7 | 10462.1 | 10421.4 |
| 67.5°  | 8543.8 | 9012.5 | 9481.9 | 9401.2 | 9320.4 | 9500.6 | 9680.6  | 9820.1  | 9959.6  | 9936.7  | 9913.1  |
| 70°    | 7959.6 | 8585.5 | 9211.4 | 8814.8 | 8417.7 | 8343.4 | 8269.1  | 8419.3  | 8570.0  | 8477.0  | 8383.4  |
| 72.5°  | 6964.9 | 7632.0 | 8299.5 | 7568.9 | 6838.2 | 6584.4 | 6330.5  | 6521.3  | 6712.2  | 6564.1  | 6415.5  |
| 75°    | 5467.3 | 6204.3 | 6941.9 | 6070.2 | 5198.4 | 4859.6 | 4520.7  | 4684.8  | 4848.9  | 4747.3  | 4645.2  |
| 77.5°  | 4070.1 | 4796.5 | 5522.9 | 4636.7 | 3750.0 | 3498.2 | 3246.0  | 3294.5  | 3343.8  | 3326.7  | 3309.0  |
| 80°    | 2760.6 | 3266.8 | 3773.5 | 3183.4 | 2593.4 | 2612.5 | 2632.4  | 2609.4  | 2585.9  | 2620.1  | 2654.3  |
| 82.5°  | 1761.6 | 2152.4 | 2543.6 | 2230.4 | 1917.2 | 2096.8 | 2276.4  | 2188.2  | 2099.5  | 2132.0  | 2165.2  |
| 85°    | 1005.3 | 1387.6 | 1770.2 | 1650.0 | 1529.1 | 1633.9 | 1739.2  | 1602.4  | 1465.5  | 1525.4  | 1585.8  |
| 87.5°  | 265.1  | 767.5  | 1270.4 | 1153.4 | 1036.3 | 900.6  | 764.9   | 583.6   | 402.4   | 588.0   | 773.4   |
| 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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CATALOG NUMBER: GWC-SA2D-735-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  |



REPORT NUMBER: P387065

CATALOG NUMBER: GWC-SA2D-735-U-SLR

**CANDELA DISTRIBUTION (continued):**

|        | 330°    | 335°    | 340°    | 345°    | 350°    | 355°    | 360°   |
|--------|---------|---------|---------|---------|---------|---------|--------|
| 0°     | 4072.8  | 4072.8  | 4072.8  | 4072.8  | 4072.8  | 4072.8  | 4072.8 |
| 2.5°   | 4598.2  | 4589.1  | 4556.5  | 4523.4  | 4474.2  | 4433.6  | 4363.0 |
| 5°     | 4928.5  | 4870.8  | 4771.4  | 4671.4  | 4560.3  | 4432.5  | 4290.9 |
| 7.5°   | 5045.6  | 4910.4  | 4719.5  | 4528.2  | 4356.1  | 4154.1  | 3965.9 |
| 10°    | 4995.9  | 4793.3  | 4545.3  | 4296.8  | 4087.8  | 3855.3  | 3646.3 |
| 12.5°  | 4900.7  | 4685.3  | 4412.2  | 4138.6  | 3900.7  | 3651.1  | 3417.0 |
| 15°    | 4769.8  | 4597.7  | 4341.7  | 4085.6  | 3846.2  | 3603.5  | 3326.1 |
| 17.5°  | 4626.5  | 4544.8  | 4359.8  | 4174.4  | 3967.0  | 3731.8  | 3406.3 |
| 20°    | 4511.1  | 4541.0  | 4467.3  | 4393.5  | 4227.3  | 4022.0  | 3656.4 |
| 22.5°  | 4433.1  | 4576.8  | 4633.5  | 4690.7  | 4590.7  | 4430.4  | 4007.6 |
| 25°    | 4389.2  | 4627.6  | 4817.4  | 5007.6  | 4963.3  | 4839.8  | 4434.1 |
| 27.5°  | 4408.5  | 4700.8  | 4995.3  | 5290.4  | 5331.5  | 5297.3  | 4883.6 |
| 30°    | 4466.2  | 4762.3  | 5120.9  | 5480.1  | 5644.3  | 5690.2  | 5258.4 |
| 32.5°  | 4562.4  | 4852.6  | 5243.3  | 5634.6  | 5882.6  | 6029.0  | 5600.9 |
| 35°    | 4707.8  | 4979.4  | 5386.6  | 5793.9  | 6114.5  | 6381.8  | 5954.7 |
| 37.5°  | 4957.4  | 5191.0  | 5566.8  | 5943.0  | 6358.9  | 6760.3  | 6344.4 |
| 40°    | 5323.0  | 5488.1  | 5805.6  | 6123.6  | 6646.9  | 7188.9  | 6778.9 |
| 42.5°  | 5784.2  | 5869.2  | 6121.0  | 6372.8  | 6947.9  | 7578.0  | 7203.8 |
| 45°    | 6284.0  | 6306.4  | 6464.6  | 6623.4  | 7186.2  | 7843.1  | 7522.9 |
| 47.5°  | 6765.0  | 6688.1  | 6751.1  | 6814.2  | 7369.0  | 8032.3  | 7765.0 |
| 50°    | 7260.0  | 7045.6  | 7012.5  | 6979.3  | 7551.8  | 8255.2  | 8073.0 |
| 52.5°  | 7763.4  | 7410.1  | 7279.2  | 7147.8  | 7769.9  | 8550.7  | 8456.1 |
| 55°    | 8256.2  | 7806.7  | 7630.4  | 7454.0  | 8103.4  | 8911.6  | 9018.9 |
| 57.5°  | 8768.9  | 8259.4  | 8095.9  | 7932.3  | 8593.5  | 9368.6  | 9524.0 |
| 60°    | 9320.4  | 8815.8  | 8684.9  | 8553.5  | 9202.9  | 9862.4  | 9749.1 |
| 62.5°  | 9843.7  | 9442.8  | 9373.8  | 9304.4  | 9819.1  | 10241.9 | 9661.5 |
| 65°    | 10193.3 | 9964.5  | 10028.6 | 10093.3 | 10285.1 | 10336.5 | 9404.8 |
| 67.5°  | 9959.6  | 10006.1 | 10277.2 | 10548.6 | 10416.7 | 10055.4 | 8899.3 |
| 70°    | 8662.0  | 8941.0  | 9582.9  | 10225.3 | 9932.4  | 9302.3  | 7991.7 |
| 72.5°  | 6728.7  | 7042.4  | 7995.5  | 8948.9  | 8679.1  | 7907.3  | 6564.1 |
| 75°    | 4999.1  | 5353.4  | 6405.4  | 7457.2  | 7082.6  | 5914.7  | 4699.8 |
| 77.5°  | 3546.3  | 3783.7  | 4822.2  | 5861.3  | 5250.3  | 3937.1  | 3162.6 |
| 80°    | 2581.5  | 2508.9  | 3087.8  | 3666.6  | 3565.0  | 2604.0  | 2031.1 |
| 82.5°  | 1987.8  | 1810.3  | 2082.9  | 2355.5  | 2340.5  | 1807.1  | 1490.2 |
| 85°    | 1514.8  | 1443.7  | 1684.7  | 1925.8  | 1719.5  | 1223.9  | 947.1  |
| 87.5°  | 882.9   | 993.1   | 1276.9  | 1561.3  | 1171.6  | 371.4   | 183.8  |
| 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: P387065

CATALOG NUMBER: GWC-SA2D-735-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: SP1-2104-224-2

Luminaire Tested: CCW-SA-2A-735-U-SL4

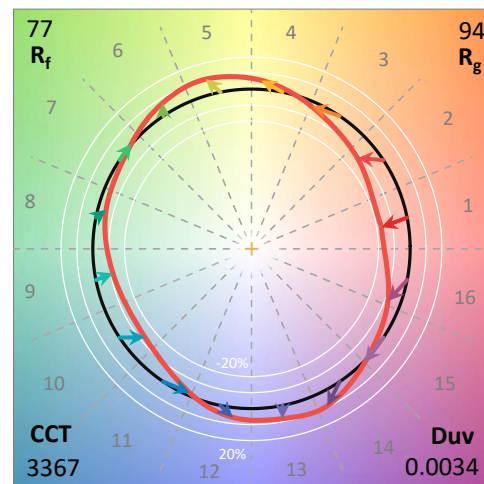
Test Date: 04/26/2021

### Test Information

Test Method: LM-79-08  
 Report Number: SP1-2104-224-2  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1  
 Measurement Geometry:  $4\pi$   
 Issue Date: 04/26/2021  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: INVUE  
 Catalog Number: **CCW-SA-2A-735-U-SL4**  
 Description: INVUE WALL PACK ClearCurve Light Square

### Spectral Parameters

|                           |        |           |      |      |       |
|---------------------------|--------|-----------|------|------|-------|
| CCT (K):                  | 3367   | CRI (Ra): | 73.3 |      |       |
| CIE u':                   | 0.2376 | R1:       | 69.1 | R9:  | -34.3 |
| CIE v':                   | 0.5184 | R2:       | 81.3 | R10: | 58.3  |
| Duv:                      | 0.0034 | R3:       | 93.4 | R11: | 69.1  |
| CIE x:                    | 0.4168 | R4:       | 71.8 | R12: | 54.2  |
| CIE y:                    | 0.4041 | R5:       | 69.6 | R13: | 71.1  |
| CIE z:                    | 0.1791 | R6:       | 75.4 | R14: | 96.4  |
| Peak Wavelength (nm):     | 590    | R7:       | 79.5 |      |       |
| Dominant Wavelength (nm): | 580    | R8:       | 46.4 |      |       |
| Purity:                   | 46.5   |           |      |      |       |
| Rf:                       | 77.2   |           |      |      |       |
| Rg:                       | 94.4   |           |      |      |       |



### Test Conditions

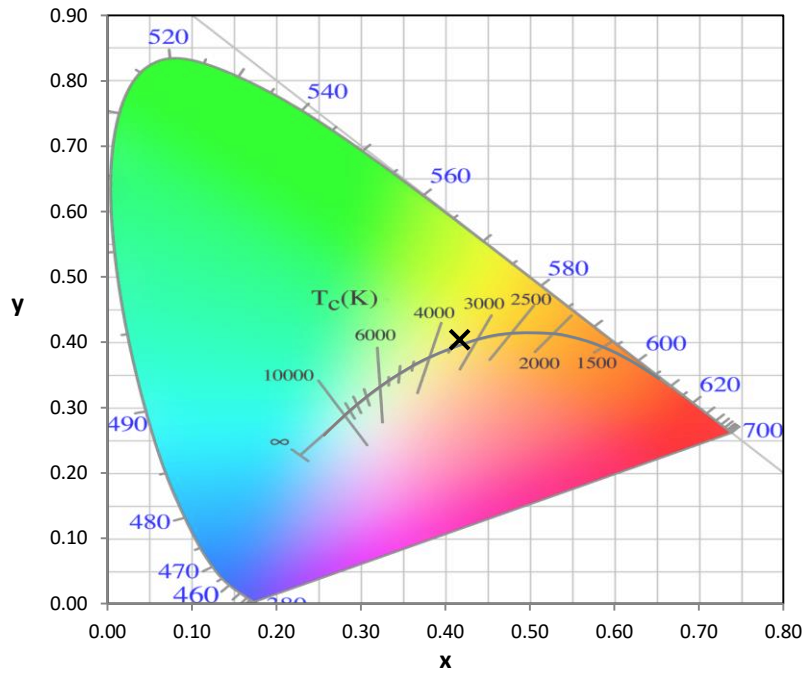
Stabilization Time: 71M  
 Operation Time: 12H  
 Room Temperature (°C) / RH%: 24.9/38%  
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2104-224-2

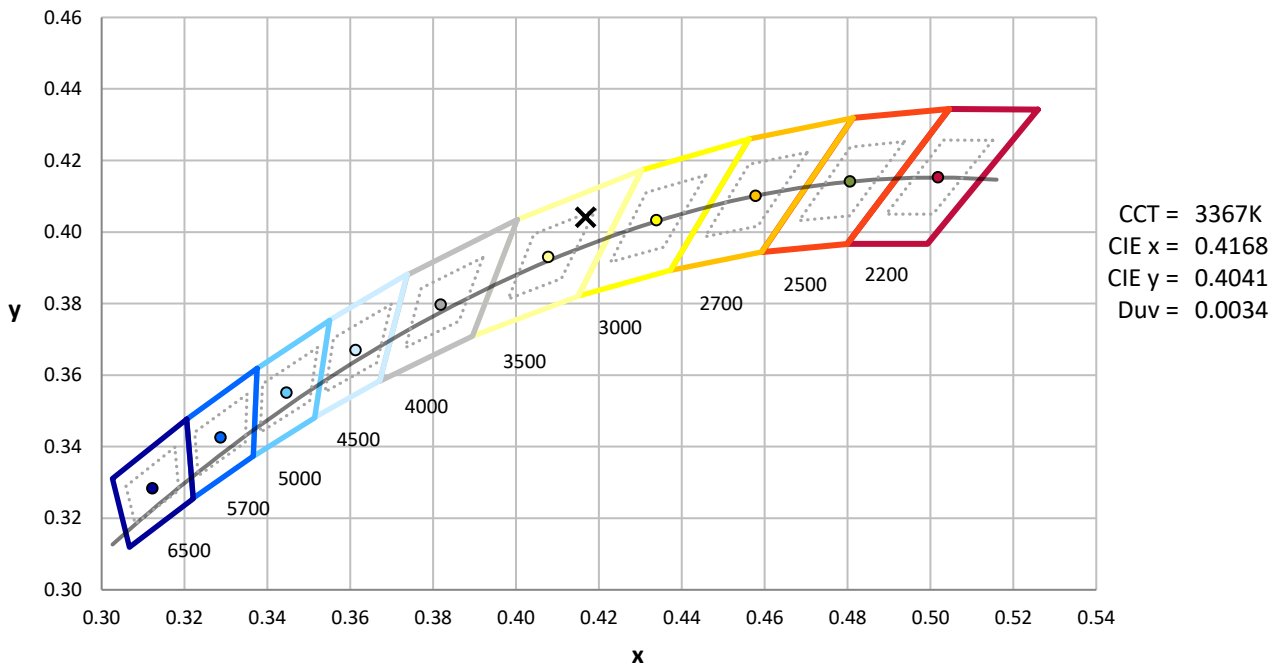
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date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

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**CIE 1931 Chromaticity Diagram**



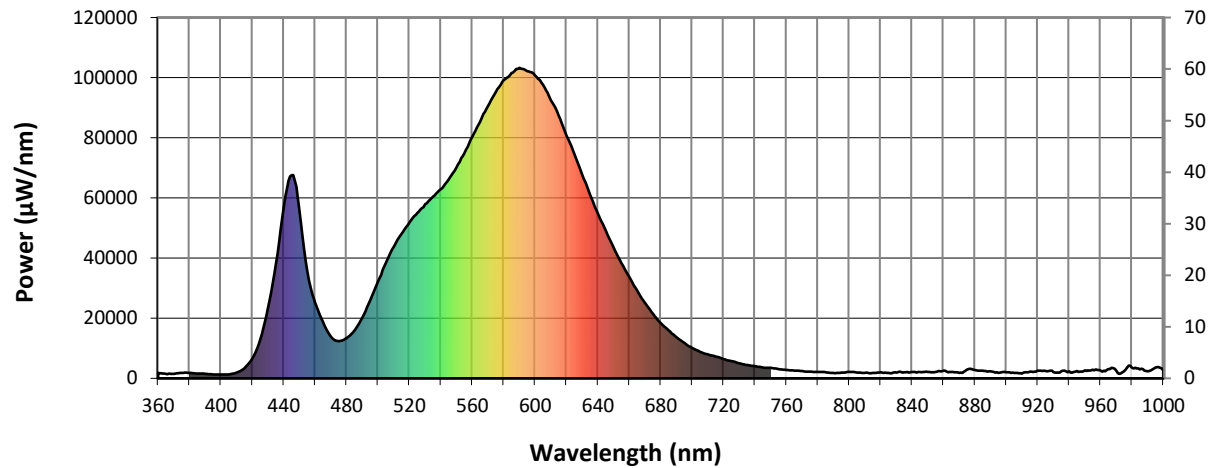
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 3500K 4-step quadrangle

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### Photopic Flux vs. Wavelength

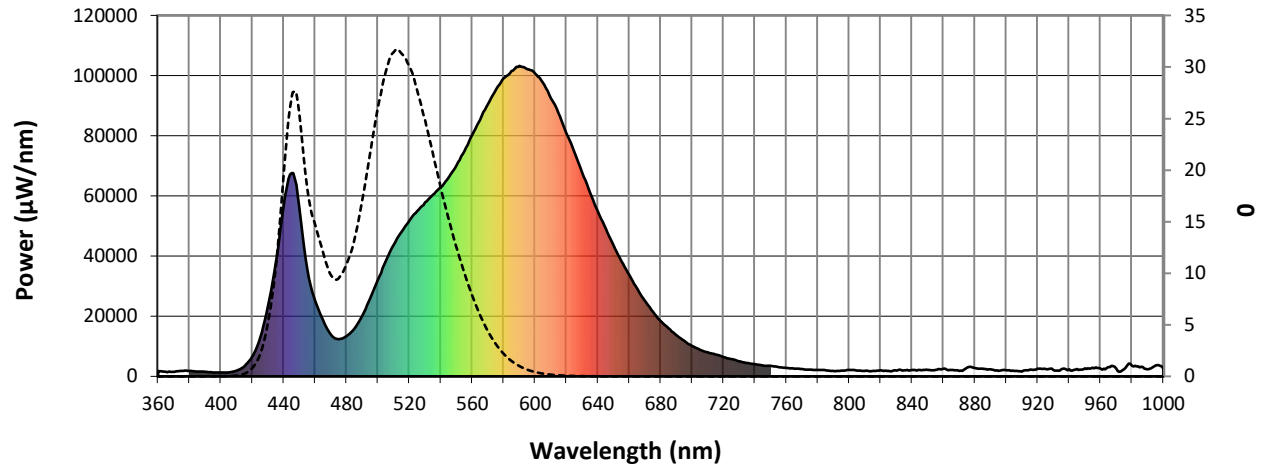


#####

| 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       | 1840             | 0.0              | 490       | 20271            | 2.9              | 620       | 80709            | 21.0             | 750       | 3465             | 0.0              | 880       | 2800             | 0.0              |
| 365       | 1514             | 0.0              | 495       | 25910            | 4.7              | 625       | 74695            | 16.5             | 755       | 3075             | 0.0              | 885       | 2582             | 0.0              |
| 370       | 1514             | 0.0              | 500       | 32216            | 7.1              | 630       | 67709            | 12.3             | 760       | 2794             | 0.0              | 890       | 2353             | 0.0              |
| 375       | 1843             | 0.0              | 505       | 38336            | 10.7             | 635       | 61156            | 9.2              | 765       | 2593             | 0.0              | 895       | 1819             | 0.0              |
| 380       | 1796             | 0.0              | 510       | 43738            | 15.0             | 640       | 54795            | 6.5              | 770       | 2401             | 0.0              | 900       | 2024             | 0.0              |
| 385       | 1575             | 0.0              | 515       | 47977            | 19.9             | 645       | 49111            | 4.7              | 775       | 2233             | 0.0              | 905       | 1851             | 0.0              |
| 390       | 1527             | 0.0              | 520       | 51818            | 25.1             | 650       | 43533            | 3.2              | 780       | 2166             | 0.0              | 910       | 1602             | 0.0              |
| 395       | 1326             | 0.0              | 525       | 54890            | 29.5             | 655       | 38234            | 2.2              | 785       | 2051             | 0.0              | 915       | 2200             | 0.0              |
| 400       | 1233             | 0.0              | 530       | 57872            | 34.1             | 660       | 33754            | 1.4              | 790       | 1765             | 0.0              | 920       | 2530             | 0.0              |
| 405       | 1329             | 0.0              | 535       | 60410            | 37.5             | 665       | 29162            | 0.9              | 795       | 1903             | 0.0              | 925       | 2487             | 0.0              |
| 410       | 1902             | 0.0              | 540       | 62857            | 41.0             | 670       | 25117            | 0.5              | 800       | 2127             | 0.0              | 930       | 2089             | 0.0              |
| 415       | 3436             | 0.0              | 545       | 66165            | 44.0             | 675       | 21511            | 0.4              | 805       | 1867             | 0.0              | 935       | 2293             | 0.0              |
| 420       | 6571             | 0.0              | 550       | 70124            | 47.7             | 680       | 18435            | 0.2              | 810       | 1775             | 0.0              | 940       | 2315             | 0.0              |
| 425       | 12957            | 0.1              | 555       | 74973            | 51.2             | 685       | 16004            | 0.1              | 815       | 1812             | 0.0              | 945       | 2481             | 0.0              |
| 430       | 23376            | 0.2              | 560       | 80227            | 54.5             | 690       | 13701            | 0.1              | 820       | 1973             | 0.0              | 950       | 2701             | 0.0              |
| 435       | 38205            | 0.5              | 565       | 85358            | 56.8             | 695       | 11765            | 0.0              | 825       | 1773             | 0.0              | 955       | 2892             | 0.0              |
| 440       | 56691            | 0.9              | 570       | 90422            | 58.8             | 700       | 10145            | 0.0              | 830       | 1925             | 0.0              | 960       | 2609             | 0.0              |
| 445       | 67585            | 1.4              | 575       | 95259            | 59.3             | 705       | 8865             | 0.0              | 835       | 2001             | 0.0              | 965       | 3066             | 0.0              |
| 450       | 55963            | 1.5              | 580       | 99033            | 58.8             | 710       | 7954             | 0.0              | 840       | 2142             | 0.0              | 970       | 2566             | 0.0              |
| 455       | 35549            | 1.2              | 585       | 101572           | 56.4             | 715       | 7285             | 0.0              | 845       | 2101             | 0.0              | 975       | 2375             | 0.0              |
| 460       | 25268            | 1.0              | 590       | 103264           | 53.4             | 720       | 6412             | 0.0              | 850       | 2097             | 0.0              | 980       | 3526             | 0.0              |
| 465       | 18712            | 1.0              | 595       | 102194           | 48.4             | 725       | 5721             | 0.0              | 855       | 2090             | 0.0              | 985       | 2982             | 0.0              |
| 470       | 13835            | 0.9              | 600       | 100645           | 43.4             | 730       | 5017             | 0.0              | 860       | 2535             | 0.0              | 990       | 2305             | 0.0              |
| 475       | 12398            | 1.0              | 605       | 97644            | 37.8             | 735       | 4459             | 0.0              | 865       | 2101             | 0.0              | 995       | 3671             | 0.0              |
| 480       | 13406            | 1.3              | 610       | 92487            | 31.8             | 740       | 4062             | 0.0              | 870       | 1798             | 0.0              | 1000      | 2560             | 0.0              |
| 485       | 15865            | 1.9              | 615       | 87436            | 26.4             | 745       | 3636             | 0.0              | 875       | 2857             | 0.0              |           |                  |                  |

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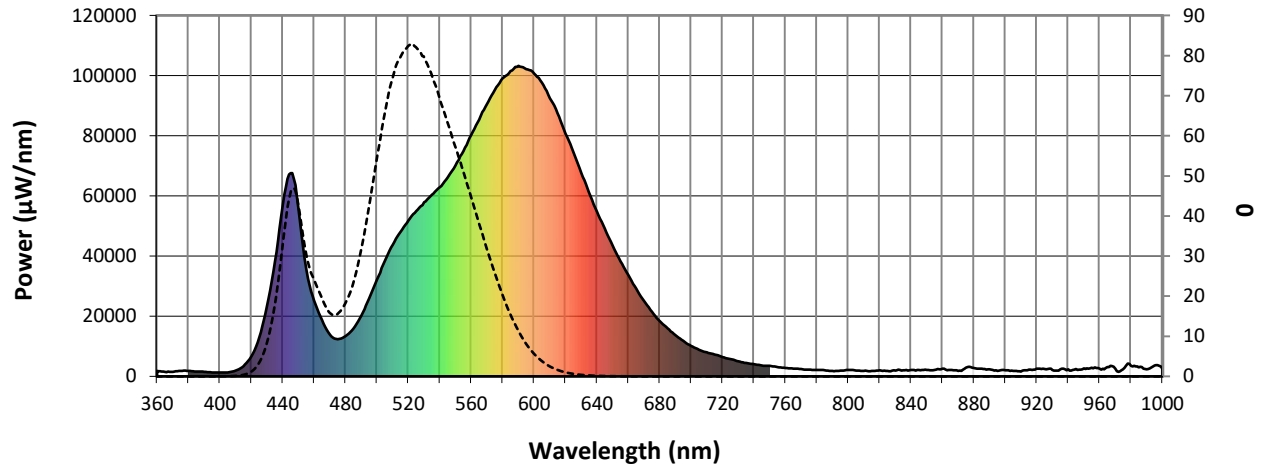
### Scotopic Flux vs. Wavelength


**Scotopic Lumens: 7088.7**
**S/P: 1.35**

| 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       | 1840             | 0.0              | 490       | 20271            | 31.2             | 620       | 80709            | 1.0              | 750       | 3465             | 0.0              | 880       | 2800             | 0.0              |
| 365       | 1514             | 0.0              | 495       | 25910            | 41.9             | 625       | 74695            | 0.6              | 755       | 3075             | 0.0              | 885       | 2582             | 0.0              |
| 370       | 1514             | 0.0              | 500       | 32216            | 53.9             | 630       | 67709            | 0.4              | 760       | 2794             | 0.0              | 890       | 2353             | 0.0              |
| 375       | 1843             | 0.0              | 505       | 38336            | 65.2             | 635       | 61156            | 0.2              | 765       | 2593             | 0.0              | 895       | 1819             | 0.0              |
| 380       | 1796             | 0.0              | 510       | 43738            | 74.1             | 640       | 54795            | 0.1              | 770       | 2401             | 0.0              | 900       | 2024             | 0.0              |
| 385       | 1575             | 0.0              | 515       | 47977            | 79.5             | 645       | 49111            | 0.1              | 775       | 2233             | 0.0              | 905       | 1851             | 0.0              |
| 390       | 1527             | 0.0              | 520       | 51818            | 82.4             | 650       | 43533            | 0.1              | 780       | 2166             | 0.0              | 910       | 1602             | 0.0              |
| 395       | 1326             | 0.0              | 525       | 54890            | 82.1             | 655       | 38234            | 0.0              | 785       | 2051             | 0.0              | 915       | 2200             | 0.0              |
| 400       | 1233             | 0.0              | 530       | 57872            | 79.8             | 660       | 33754            | 0.0              | 790       | 1765             | 0.0              | 920       | 2530             | 0.0              |
| 405       | 1329             | 0.0              | 535       | 60410            | 75.3             | 665       | 29162            | 0.0              | 795       | 1903             | 0.0              | 925       | 2487             | 0.0              |
| 410       | 1902             | 0.1              | 540       | 62857            | 69.5             | 670       | 25117            | 0.0              | 800       | 2127             | 0.0              | 930       | 2089             | 0.0              |
| 415       | 3436             | 0.4              | 545       | 66165            | 63.4             | 675       | 21511            | 0.0              | 805       | 1867             | 0.0              | 935       | 2293             | 0.0              |
| 420       | 6571             | 1.1              | 550       | 70124            | 57.3             | 680       | 18435            | 0.0              | 810       | 1775             | 0.0              | 940       | 2315             | 0.0              |
| 425       | 12957            | 3.2              | 555       | 74973            | 51.2             | 685       | 16004            | 0.0              | 815       | 1812             | 0.0              | 945       | 2481             | 0.0              |
| 430       | 23376            | 8.0              | 560       | 80227            | 44.8             | 690       | 13701            | 0.0              | 820       | 1973             | 0.0              | 950       | 2701             | 0.0              |
| 435       | 38205            | 17.1             | 565       | 85358            | 38.3             | 695       | 11765            | 0.0              | 825       | 1773             | 0.0              | 955       | 2892             | 0.0              |
| 440       | 56691            | 31.7             | 570       | 90422            | 31.9             | 700       | 10145            | 0.0              | 830       | 1925             | 0.0              | 960       | 2609             | 0.0              |
| 445       | 67585            | 45.3             | 575       | 95259            | 25.9             | 705       | 8865             | 0.0              | 835       | 2001             | 0.0              | 965       | 3066             | 0.0              |
| 450       | 55963            | 43.4             | 580       | 99033            | 20.4             | 710       | 7954             | 0.0              | 840       | 2142             | 0.0              | 970       | 2566             | 0.0              |
| 455       | 35549            | 31.1             | 585       | 101572           | 15.5             | 715       | 7285             | 0.0              | 845       | 2101             | 0.0              | 975       | 2375             | 0.0              |
| 460       | 25268            | 24.4             | 590       | 103264           | 11.5             | 720       | 6412             | 0.0              | 850       | 2097             | 0.0              | 980       | 3526             | 0.0              |
| 465       | 18712            | 19.8             | 595       | 102194           | 8.1              | 725       | 5721             | 0.0              | 855       | 2090             | 0.0              | 985       | 2982             | 0.0              |
| 470       | 13835            | 15.9             | 600       | 100645           | 5.7              | 730       | 5017             | 0.0              | 860       | 2535             | 0.0              | 990       | 2305             | 0.0              |
| 475       | 12398            | 15.5             | 605       | 97644            | 3.8              | 735       | 4459             | 0.0              | 865       | 2101             | 0.0              | 995       | 3671             | 0.0              |
| 480       | 13406            | 18.1             | 610       | 92487            | 2.5              | 740       | 4062             | 0.0              | 870       | 1798             | 0.0              | 1000      | 2560             | 0.0              |
| 485       | 15865            | 23.0             | 615       | 87436            | 1.6              | 745       | 3636             | 0.0              | 875       | 2857             | 0.0              |           |                  |                  |

REPORT NUMBER: SP1-2104-224-2

### Melanopic Flux vs. Wavelength



Melanopic Lumens: 2621

M/P: 0.5

| 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       | 1840             | 0.0              | 490       | 20271            | 16.9             | 620       | 80709            | 0.1              | 750       | 3465             | 0.0              | 880       | 2800             | 0.0              |
| 365       | 1514             | 0.0              | 495       | 25910            | 21.4             | 625       | 74695            | 0.0              | 755       | 3075             | 0.0              | 885       | 2582             | 0.0              |
| 370       | 1514             | 0.0              | 500       | 32216            | 25.9             | 630       | 67709            | 0.0              | 760       | 2794             | 0.0              | 890       | 2353             | 0.0              |
| 375       | 1843             | 0.0              | 505       | 38336            | 29.4             | 635       | 61156            | 0.0              | 765       | 2593             | 0.0              | 895       | 1819             | 0.0              |
| 380       | 1796             | 0.0              | 510       | 43738            | 31.4             | 640       | 54795            | 0.0              | 770       | 2401             | 0.0              | 900       | 2024             | 0.0              |
| 385       | 1575             | 0.0              | 515       | 47977            | 31.3             | 645       | 49111            | 0.0              | 775       | 2233             | 0.0              | 905       | 1851             | 0.0              |
| 390       | 1527             | 0.0              | 520       | 51818            | 30.2             | 650       | 43533            | 0.0              | 780       | 2166             | 0.0              | 910       | 1602             | 0.0              |
| 395       | 1326             | 0.0              | 525       | 54890            | 27.8             | 655       | 38234            | 0.0              | 785       | 2051             | 0.0              | 915       | 2200             | 0.0              |
| 400       | 1233             | 0.0              | 530       | 57872            | 25.0             | 660       | 33754            | 0.0              | 790       | 1765             | 0.0              | 920       | 2530             | 0.0              |
| 405       | 1329             | 0.0              | 535       | 60410            | 21.7             | 665       | 29162            | 0.0              | 795       | 1903             | 0.0              | 925       | 2487             | 0.0              |
| 410       | 1902             | 0.1              | 540       | 62857            | 18.4             | 670       | 25117            | 0.0              | 800       | 2127             | 0.0              | 930       | 2089             | 0.0              |
| 415       | 3436             | 0.2              | 545       | 66165            | 15.4             | 675       | 21511            | 0.0              | 805       | 1867             | 0.0              | 935       | 2293             | 0.0              |
| 420       | 6571             | 0.8              | 550       | 70124            | 12.6             | 680       | 18435            | 0.0              | 810       | 1775             | 0.0              | 940       | 2315             | 0.0              |
| 425       | 12957            | 2.0              | 555       | 74973            | 10.1             | 685       | 16004            | 0.0              | 815       | 1812             | 0.0              | 945       | 2481             | 0.0              |
| 430       | 23376            | 4.9              | 560       | 80227            | 7.9              | 690       | 13701            | 0.0              | 820       | 1973             | 0.0              | 950       | 2701             | 0.0              |
| 435       | 38205            | 10.2             | 565       | 85358            | 6.0              | 695       | 11765            | 0.0              | 825       | 1773             | 0.0              | 955       | 2892             | 0.0              |
| 440       | 56691            | 18.9             | 570       | 90422            | 4.4              | 700       | 10145            | 0.0              | 830       | 1925             | 0.0              | 960       | 2609             | 0.0              |
| 445       | 67585            | 26.7             | 575       | 95259            | 3.2              | 705       | 8865             | 0.0              | 835       | 2001             | 0.0              | 965       | 3066             | 0.0              |
| 450       | 55963            | 25.8             | 580       | 99033            | 2.2              | 710       | 7954             | 0.0              | 840       | 2142             | 0.0              | 970       | 2566             | 0.0              |
| 455       | 35549            | 18.6             | 585       | 101572           | 1.5              | 715       | 7285             | 0.0              | 845       | 2101             | 0.0              | 975       | 2375             | 0.0              |
| 460       | 25268            | 14.9             | 590       | 103264           | 1.0              | 720       | 6412             | 0.0              | 850       | 2097             | 0.0              | 980       | 3526             | 0.0              |
| 465       | 18712            | 12.2             | 595       | 102194           | 0.7              | 725       | 5721             | 0.0              | 855       | 2090             | 0.0              | 985       | 2982             | 0.0              |
| 470       | 13835            | 9.9              | 600       | 100645           | 0.4              | 730       | 5017             | 0.0              | 860       | 2535             | 0.0              | 990       | 2305             | 0.0              |
| 475       | 12398            | 9.5              | 605       | 97644            | 0.3              | 735       | 4459             | 0.0              | 865       | 2101             | 0.0              | 995       | 3671             | 0.0              |
| 480       | 13406            | 10.8             | 610       | 92487            | 0.2              | 740       | 4062             | 0.0              | 870       | 1798             | 0.0              | 1000      | 2560             | 0.0              |
| 485       | 15865            | 13.1             | 615       | 87436            | 0.1              | 745       | 3636             | 0.0              | 875       | 2857             | 0.0              |           |                  |                  |

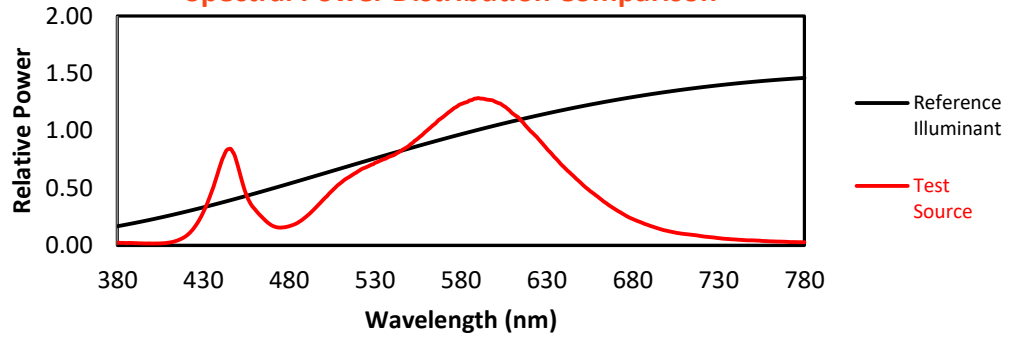
REPORT NUMBER: SP1-2104-224-2

TM-30-18

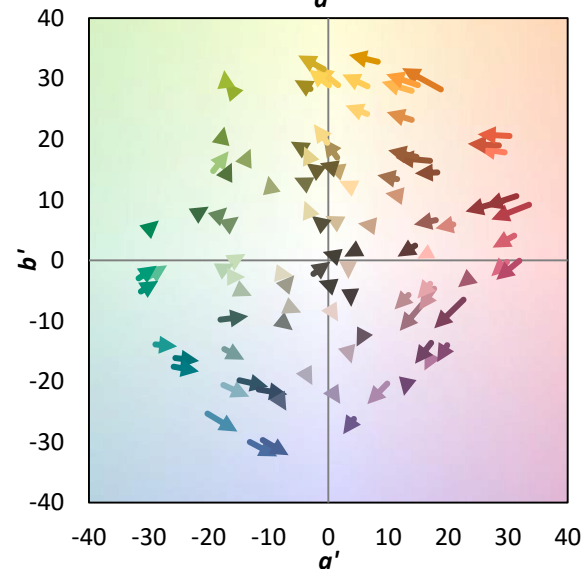
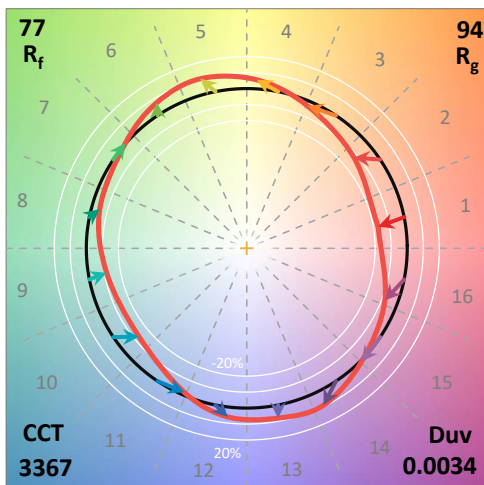
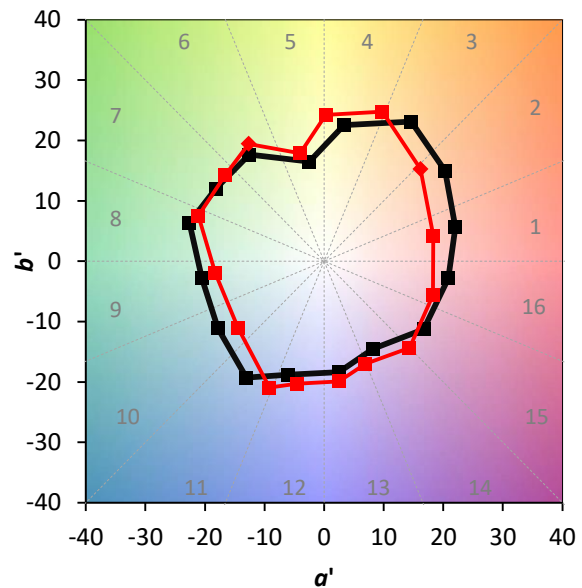
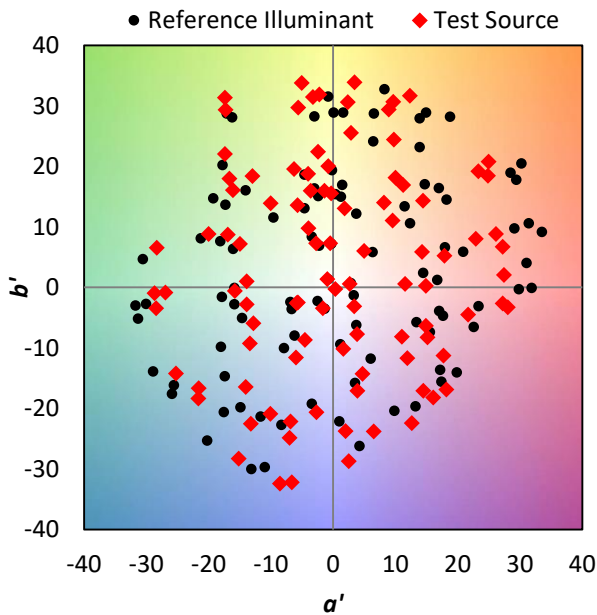
### Summary

$R_f = 77.2$   
 $R_g = 94.4$   
 CIE  $R_a = 73.3$   
 $R_g = -34.3$

### Spectral Power Distribution Comparison

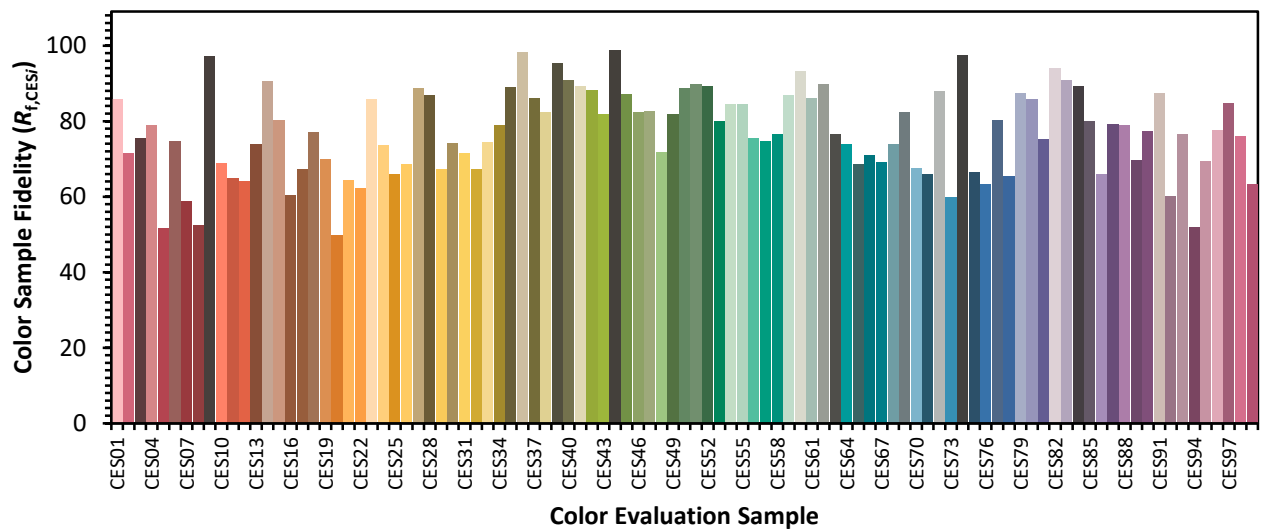


### Color Vector Graphics

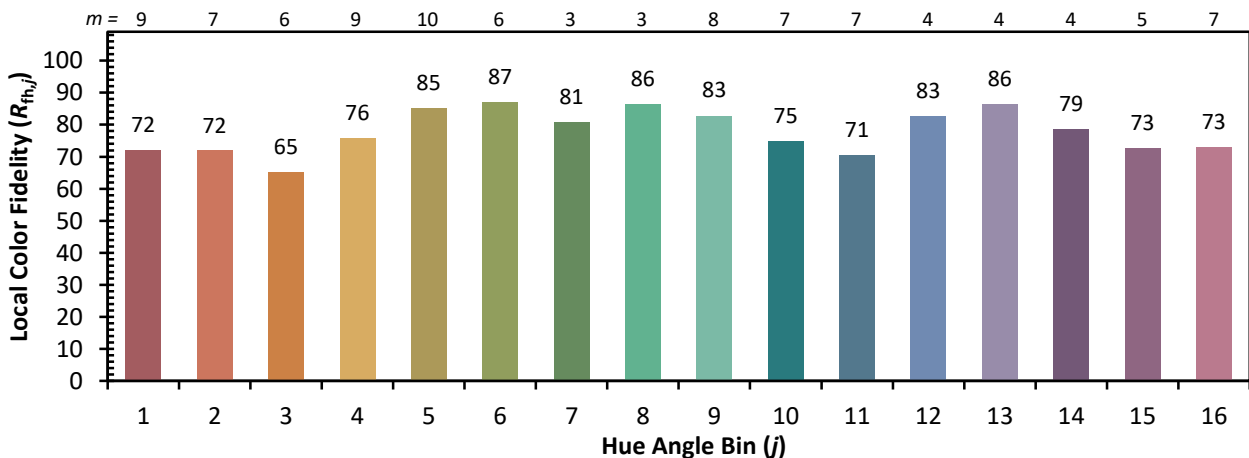
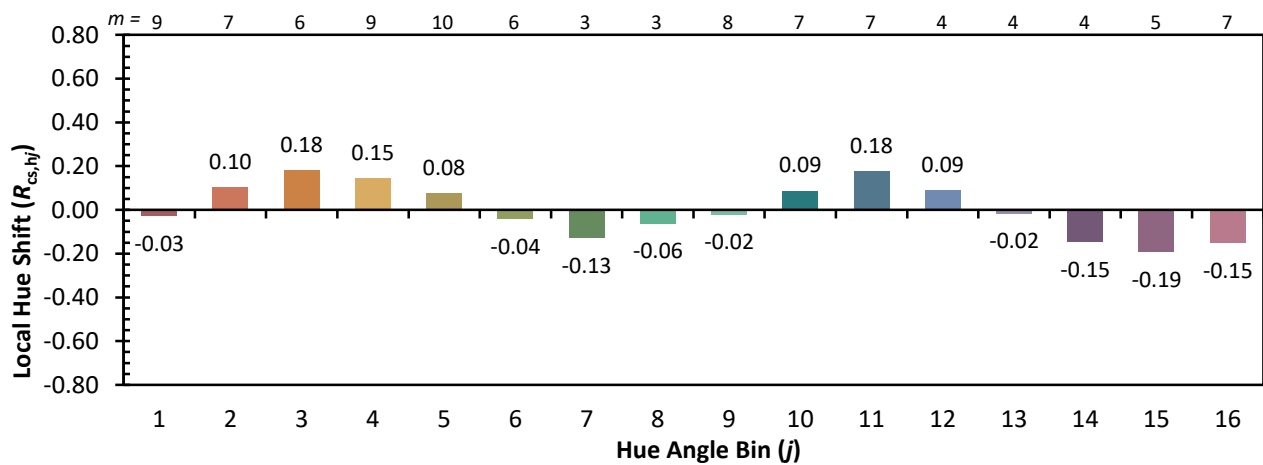
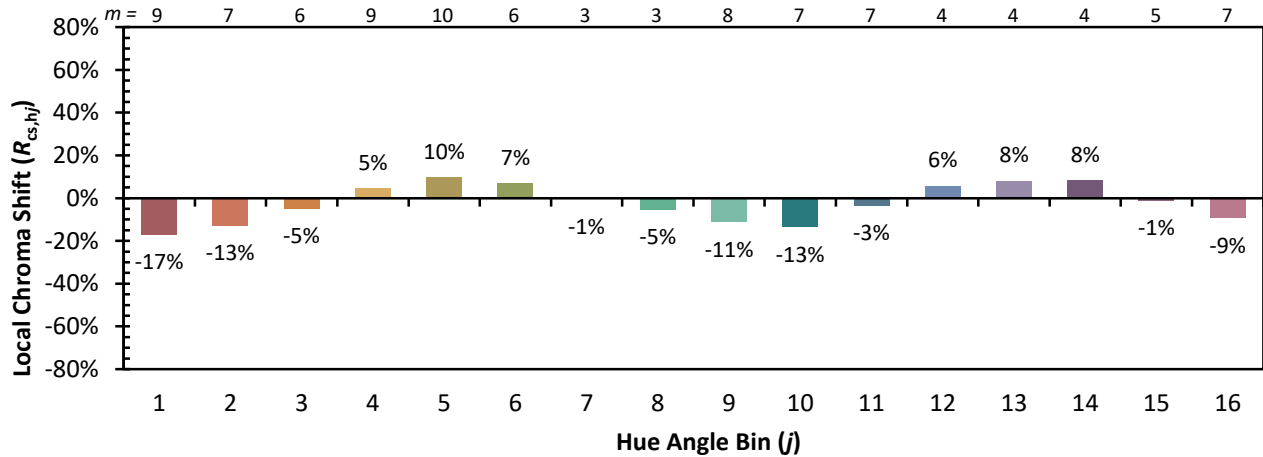


Individual Sample Fidelity Index ( $R_{f,i}$ )

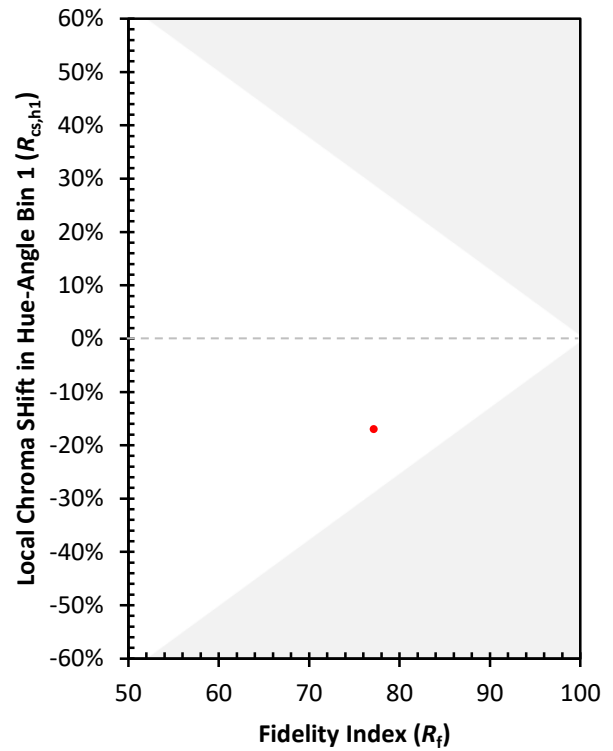
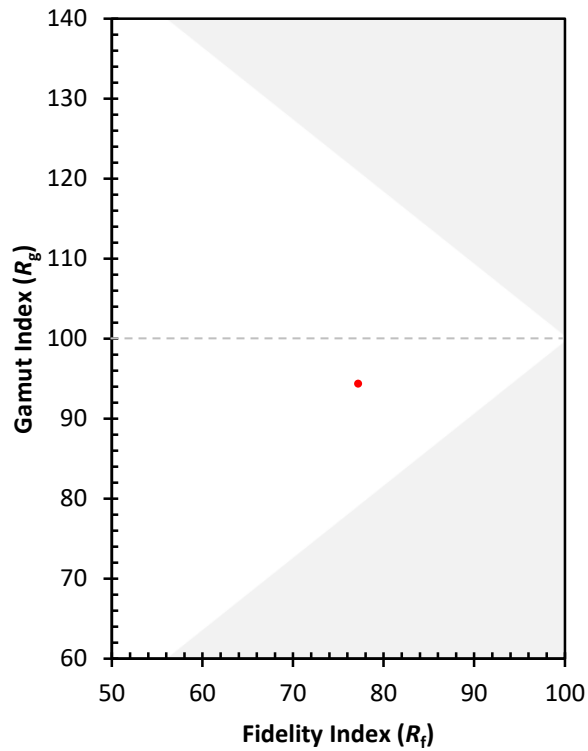
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 69 | CES51 = 90 | CES76 = 63 |
| CES02 = 62 | CES27 = 89 | CES52 = 89 | CES77 = 80 |
| CES03 = 31 | CES28 = 87 | CES53 = 80 | CES78 = 65 |
| CES04 = 70 | CES29 = 67 | CES54 = 85 | CES79 = 87 |
| CES05 = 48 | CES30 = 74 | CES55 = 84 | CES80 = 86 |
| CES06 = 51 | CES31 = 71 | CES56 = 76 | CES81 = 75 |
| CES07 = 41 | CES32 = 67 | CES57 = 75 | CES82 = 94 |
| CES08 = 39 | CES33 = 75 | CES58 = 77 | CES83 = 91 |
| CES09 = 29 | CES34 = 79 | CES59 = 87 | CES84 = 89 |
| CES10 = 75 | CES35 = 89 | CES60 = 93 | CES85 = 80 |
| CES11 = 58 | CES36 = 98 | CES61 = 86 | CES86 = 66 |
| CES12 = 64 | CES37 = 86 | CES62 = 90 | CES87 = 79 |
| CES13 = 43 | CES38 = 82 | CES63 = 77 | CES88 = 79 |
| CES14 = 74 | CES39 = 95 | CES64 = 74 | CES89 = 70 |
| CES15 = 71 | CES40 = 91 | CES65 = 69 | CES90 = 77 |
| CES16 = 47 | CES41 = 89 | CES66 = 71 | CES91 = 87 |
| CES17 = 50 | CES42 = 88 | CES67 = 69 | CES92 = 60 |
| CES18 = 56 | CES43 = 82 | CES68 = 74 | CES93 = 76 |
| CES19 = 72 | CES44 = 99 | CES69 = 82 | CES94 = 52 |
| CES20 = 65 | CES45 = 87 | CES70 = 67 | CES95 = 69 |
| CES21 = 86 | CES46 = 82 | CES71 = 66 | CES96 = 78 |
| CES22 = 79 | CES47 = 83 | CES72 = 88 | CES97 = 85 |
| CES23 = 92 | CES48 = 72 | CES73 = 60 | CES98 = 76 |
| CES24 = 91 | CES49 = 82 | CES74 = 97 | CES99 = 63 |
| CES25 = 72 | CES50 = 89 | CES75 = 67 |            |



### Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)