

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: P386587

Luminaire Tested: **GWC-SA2B-730-U-SLL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P386587  
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-SA2B-730-U-SLL  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9545 lumens  
Efficiency: N/A  
Efficacy: 111.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G3

Input Watts (W): 86  
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

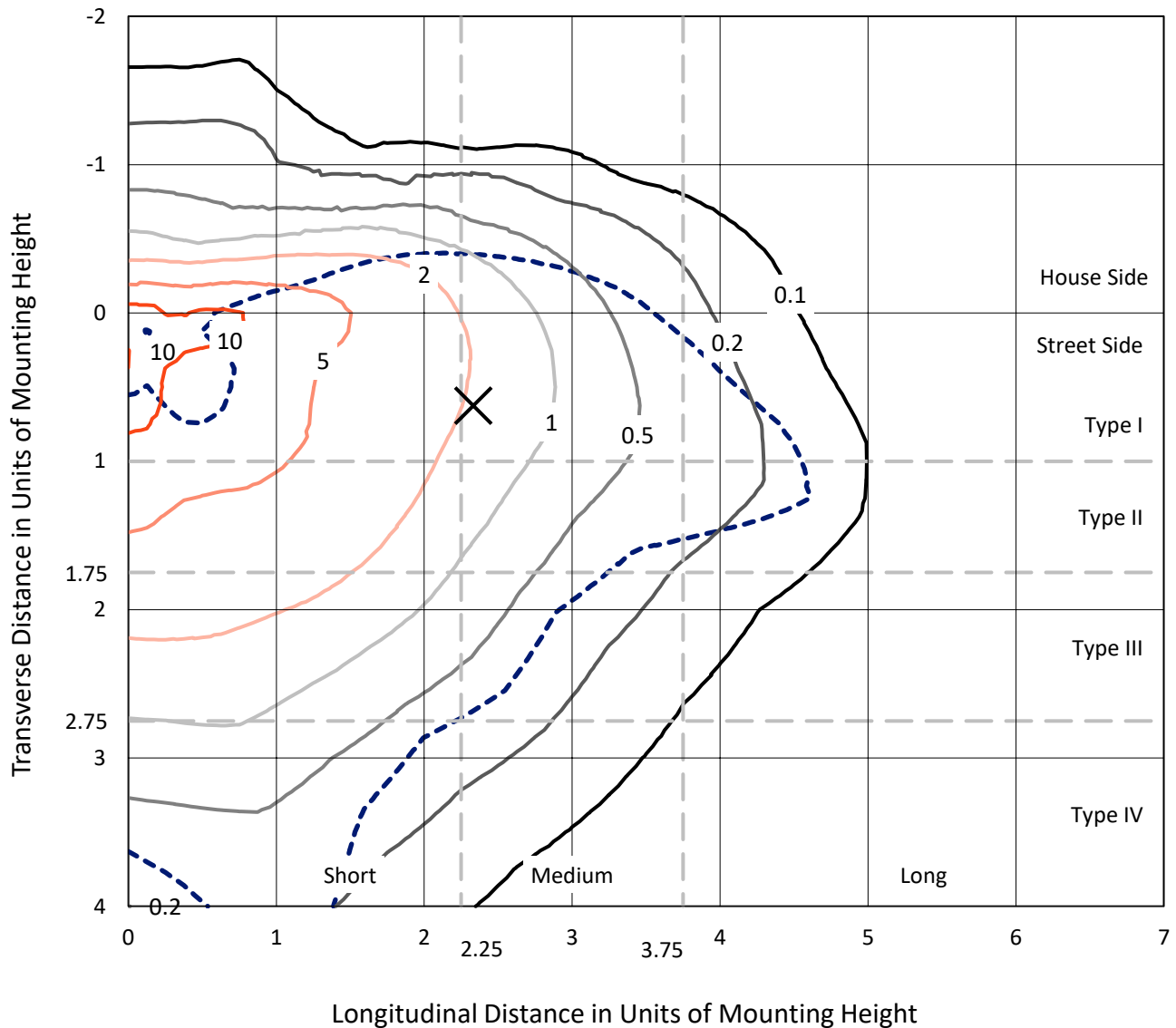


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

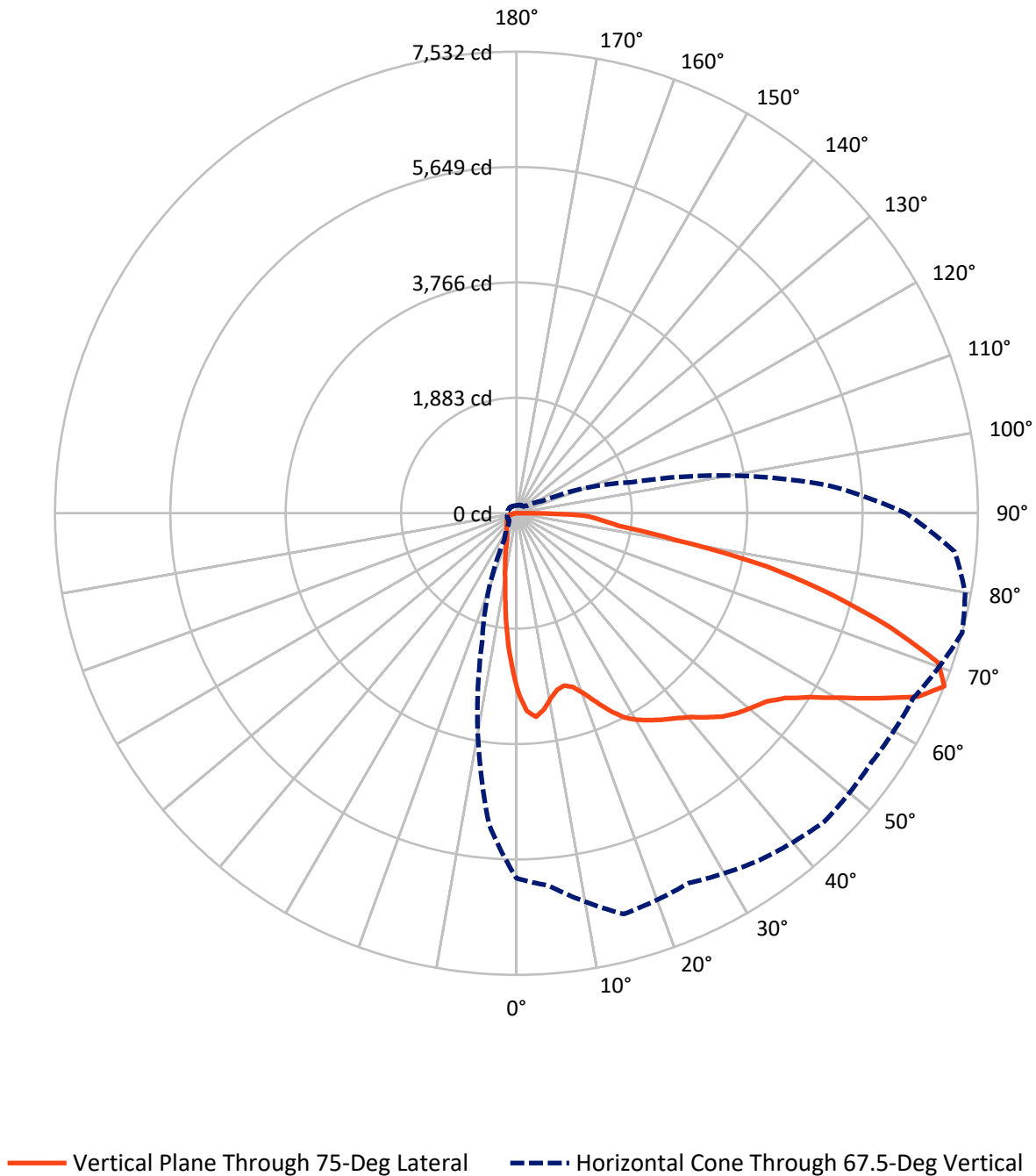


Based on 15 foot mounting height. Maximum calculated value = 16.3 fc  
 Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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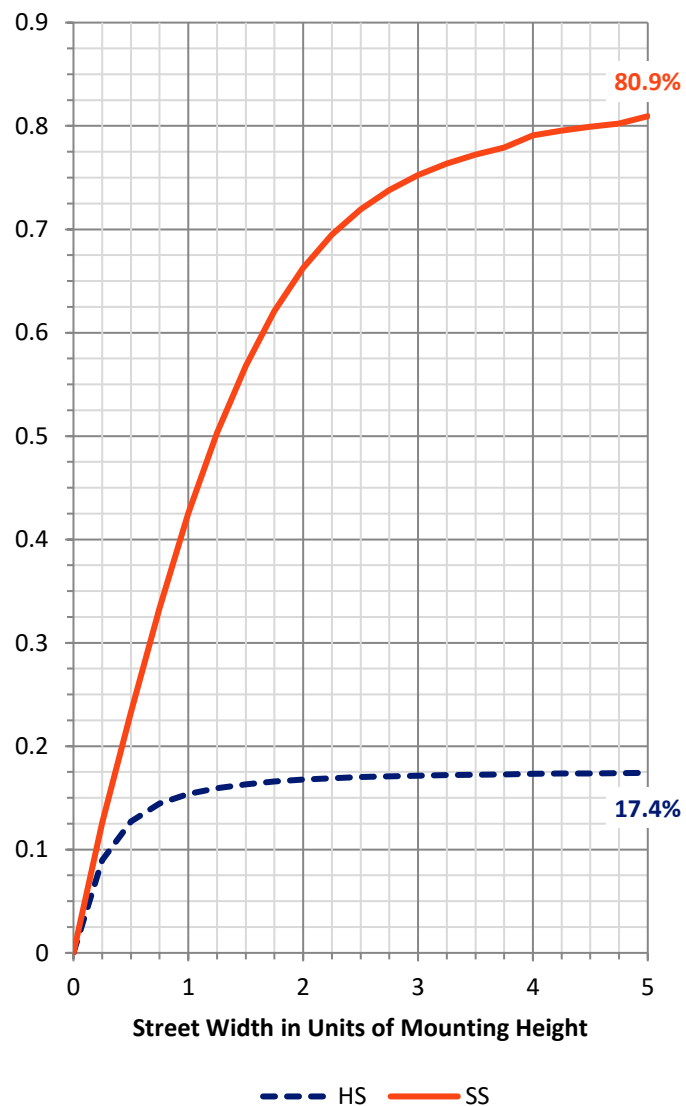
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1681.1   | 0.0    | 1681.1 |
|                    | % Fixture | 17.6     | 0.0    | 17.6   |
| <b>Street Side</b> | Lumens    | 7863.9   | 0.0    | 7863.9 |
|                    | % Fixture | 82.4     | 0.0    | 82.4   |
| <b>Total</b>       | Lumens    | 9545.0   | 0.0    | 9545.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 224.4  | 2.4       |
| 10°-20°   | 466.2  | 4.9       |
| 20°-30°   | 663.1  | 6.9       |
| 30°-40°   | 955.5  | 10.0      |
| 40°-50°   | 1346.6 | 14.1      |
| 50°-60°   | 1871.9 | 19.6      |
| 60°-70°   | 2263.7 | 23.7      |
| 70°-80°   | 1391.5 | 14.6      |
| 80°-90°   | 362.1  | 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°    | 9545.0 | 100.0     |
| 0°-180°   | 9545.0 | 100.0     |

**Coefficient of Utilization**



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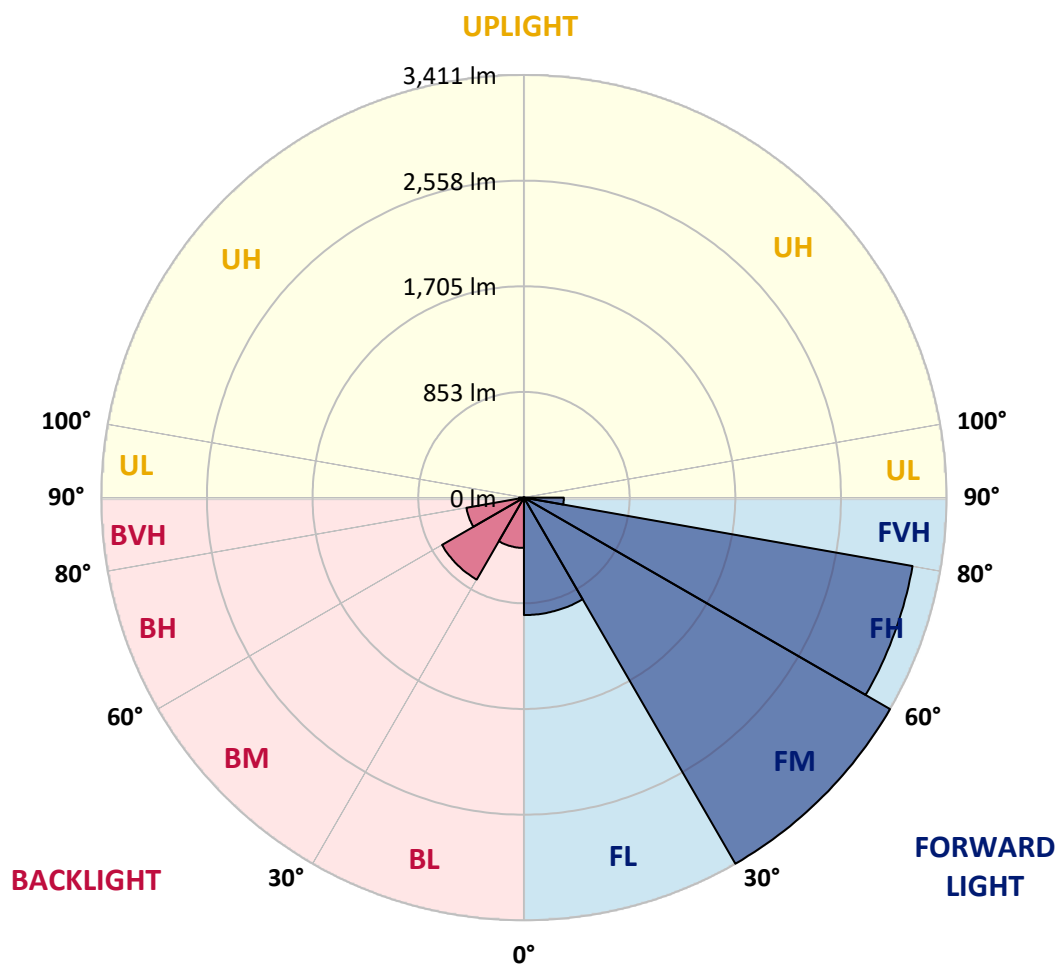
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 947.7  | 9.9       |                         |      |         |
| FM   | (30°-60°)   | 3410.9 | 35.7      |                         |      |         |
| FH   | (60°-80°)   | 3183.9 | 33.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 321.4  | 3.4       |                         |      | G3/500  |
| BL   | (0°-30°)    | 406.0  | 4.3       | B1/500                  |      |         |
| BM   | (30°-60°)   | 763.1  | 8.0       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 471.3  | 4.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 40.7   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 |
| 2.5°   | 3099.5 | 3140.3 | 3168.6 | 3196.4 | 3218.2 | 3239.6 | 3270.8 | 3302.1 | 3308.2 | 3314.0 | 3301.8 |
| 5°     | 3081.2 | 3180.8 | 3265.5 | 3349.8 | 3428.1 | 3506.3 | 3553.2 | 3600.2 | 3609.7 | 3619.3 | 3589.9 |
| 7.5°   | 2883.9 | 3030.8 | 3177.7 | 3324.7 | 3459.4 | 3594.1 | 3676.1 | 3757.8 | 3776.5 | 3794.8 | 3746.7 |
| 10°    | 2659.5 | 2830.5 | 3011.0 | 3191.5 | 3368.9 | 3546.4 | 3665.1 | 3783.7 | 3807.4 | 3831.1 | 3771.1 |
| 12.5°  | 2488.9 | 2675.5 | 2868.2 | 3061.0 | 3248.3 | 3435.3 | 3558.2 | 3681.1 | 3710.5 | 3739.9 | 3696.4 |
| 15°    | 2423.3 | 2627.8 | 2809.1 | 2990.4 | 3153.7 | 3316.6 | 3417.4 | 3517.8 | 3530.0 | 3541.8 | 3534.9 |
| 17.5°  | 2488.9 | 2714.4 | 2878.5 | 3042.3 | 3131.2 | 3219.7 | 3260.2 | 3300.2 | 3313.6 | 3326.6 | 3344.1 |
| 20°    | 2680.9 | 2924.3 | 3040.0 | 3155.2 | 3151.4 | 3147.2 | 3127.7 | 3107.9 | 3104.5 | 3101.0 | 3150.6 |
| 22.5°  | 2954.9 | 3237.6 | 3283.8 | 3329.6 | 3222.4 | 3115.1 | 3049.9 | 2984.3 | 2971.3 | 2957.9 | 3010.6 |
| 25°    | 3276.6 | 3577.7 | 3569.3 | 3560.5 | 3356.3 | 3151.8 | 3027.4 | 2903.0 | 2888.5 | 2874.0 | 2919.0 |
| 27.5°  | 3626.5 | 3914.3 | 3859.3 | 3804.3 | 3526.9 | 3249.5 | 3069.0 | 2888.5 | 2874.0 | 2859.5 | 2899.2 |
| 30°    | 3900.1 | 4161.2 | 4073.0 | 3984.9 | 3670.8 | 3356.7 | 3142.2 | 2927.8 | 2904.1 | 2880.1 | 2928.9 |
| 32.5°  | 4131.8 | 4353.9 | 4235.6 | 4117.3 | 3787.6 | 3457.8 | 3225.8 | 2993.8 | 2956.8 | 2919.8 | 2985.0 |
| 35°    | 4373.0 | 4546.2 | 4379.8 | 4213.1 | 3891.7 | 3570.0 | 3324.7 | 3078.9 | 3033.5 | 2988.1 | 3077.7 |
| 37.5°  | 4644.3 | 4788.2 | 4549.3 | 4310.0 | 4008.9 | 3707.8 | 3472.7 | 3237.3 | 3190.7 | 3144.2 | 3258.6 |
| 40°    | 4930.9 | 5050.7 | 4732.1 | 4413.4 | 4137.1 | 3860.8 | 3677.7 | 3494.1 | 3449.8 | 3405.2 | 3544.1 |
| 42.5°  | 5181.6 | 5269.0 | 4902.3 | 4535.5 | 4291.7 | 4047.4 | 3918.5 | 3789.1 | 3788.7 | 3787.9 | 3928.8 |
| 45°    | 5370.5 | 5446.5 | 5044.2 | 4641.6 | 4442.4 | 4242.8 | 4175.7 | 4108.5 | 4162.3 | 4216.1 | 4343.6 |
| 47.5°  | 5527.4 | 5578.9 | 5163.3 | 4747.3 | 4614.9 | 4482.5 | 4492.4 | 4502.3 | 4611.9 | 4721.4 | 4803.4 |
| 50°    | 5706.7 | 5665.1 | 5271.3 | 4877.1 | 4836.2 | 4795.4 | 4884.7 | 4973.6 | 5099.6 | 5225.1 | 5280.8 |
| 52.5°  | 5901.0 | 5790.7 | 5417.8 | 5044.6 | 5090.4 | 5136.2 | 5317.8 | 5499.5 | 5626.6 | 5753.7 | 5774.6 |
| 55°    | 6250.1 | 6081.1 | 5687.3 | 5293.0 | 5381.2 | 5469.0 | 5735.7 | 6002.1 | 6101.3 | 6200.5 | 6208.2 |
| 57.5°  | 6643.6 | 6493.6 | 6064.7 | 5635.7 | 5730.4 | 5825.0 | 6133.0 | 6440.6 | 6547.8 | 6654.7 | 6639.8 |
| 60°    | 6795.1 | 6802.3 | 6423.0 | 6043.3 | 6138.7 | 6234.1 | 6534.1 | 6834.0 | 6957.3 | 7080.2 | 7047.3 |
| 62.5°  | 6642.4 | 6821.4 | 6618.8 | 6415.8 | 6502.4 | 6588.6 | 6882.5 | 7176.3 | 7302.6 | 7429.0 | 7371.7 |
| 65°    | 6340.6 | 6518.0 | 6608.9 | 6699.7 | 6728.3 | 6756.9 | 7031.3 | 7305.3 | 7402.2 | 7498.8 | 7469.8 |
| 67.5°  | 5956.7 | 6100.2 | 6435.2 | 6769.9 | 6712.3 | 6654.7 | 6783.3 | 6911.9 | 7011.5 | 7111.1 | 7094.7 |
| 70°    | 5512.1 | 5683.1 | 6129.9 | 6576.8 | 6293.6 | 6010.1 | 5957.1 | 5904.0 | 6011.6 | 6118.9 | 6052.5 |
| 72.5°  | 4714.9 | 4972.9 | 5449.5 | 5925.8 | 5404.1 | 4882.4 | 4701.2 | 4519.9 | 4656.1 | 4792.4 | 4686.7 |
| 75°    | 3561.3 | 3903.6 | 4430.2 | 4956.5 | 4334.0 | 3711.6 | 3469.7 | 3227.7 | 3344.9 | 3462.0 | 3389.5 |
| 77.5°  | 2476.7 | 2906.0 | 3424.6 | 3943.3 | 3310.5 | 2677.4 | 2497.7 | 2317.6 | 2352.7 | 2387.4 | 2375.2 |
| 80°    | 1688.7 | 1971.1 | 2332.8 | 2694.2 | 2272.9 | 1851.6 | 1865.7 | 1879.5 | 1863.1 | 1846.3 | 1870.7 |
| 82.5°  | 1059.0 | 1257.8 | 1537.2 | 1816.1 | 1592.5 | 1368.9 | 1497.1 | 1625.3 | 1562.3 | 1499.0 | 1522.7 |
| 85°    | 596.5  | 717.8  | 991.1  | 1263.9 | 1178.1 | 1091.8 | 1167.0 | 1241.8 | 1144.1 | 1046.4 | 1089.5 |
| 87.5°  | 113.7  | 189.3  | 548.4  | 907.1  | 823.5  | 740.0  | 643.0  | 546.1  | 416.7  | 287.4  | 419.8  |
| 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-SA2B-730-U-SLL

**CANDELA DISTRIBUTION (continued):**

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

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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 |
| 2.5°   | 3289.5 | 3283.1 | 3276.6 | 3253.3 | 3229.6 | 3194.5 | 3165.5 | 3115.1 | 3087.7 | 3046.1 | 3004.5 |
| 5°     | 3560.1 | 3518.9 | 3477.7 | 3406.7 | 3335.3 | 3256.0 | 3164.8 | 3063.6 | 2987.3 | 2888.1 | 2788.9 |
| 7.5°   | 3698.6 | 3602.5 | 3505.9 | 3369.7 | 3233.1 | 3110.2 | 2965.9 | 2831.6 | 2717.1 | 2588.1 | 2459.1 |
| 10°    | 3711.2 | 3567.0 | 3422.4 | 3245.3 | 3067.8 | 2918.6 | 2752.6 | 2603.4 | 2466.0 | 2317.9 | 2169.5 |
| 12.5°  | 3652.5 | 3499.1 | 3345.3 | 3150.3 | 2954.9 | 2785.4 | 2606.8 | 2439.7 | 2287.4 | 2124.5 | 1961.1 |
| 15°    | 3528.1 | 3405.6 | 3282.7 | 3099.9 | 2917.1 | 2746.1 | 2572.9 | 2374.8 | 2202.7 | 2035.9 | 1868.8 |
| 17.5°  | 3361.3 | 3303.3 | 3244.9 | 3112.9 | 2980.4 | 2832.4 | 2664.5 | 2432.1 | 2230.6 | 2049.3 | 1868.0 |
| 20°    | 3199.9 | 3221.2 | 3242.2 | 3189.6 | 3136.9 | 3018.2 | 2871.7 | 2610.6 | 2353.4 | 2116.5 | 1879.1 |
| 22.5°  | 3062.9 | 3165.5 | 3267.8 | 3308.6 | 3349.1 | 3277.7 | 3163.2 | 2861.4 | 2521.0 | 2211.5 | 1902.0 |
| 25°    | 2963.6 | 3133.8 | 3304.0 | 3439.9 | 3575.4 | 3543.7 | 3455.6 | 3165.9 | 2743.1 | 2348.5 | 1953.5 |
| 27.5°  | 2938.8 | 3147.6 | 3356.3 | 3567.0 | 3777.3 | 3806.6 | 3782.2 | 3486.8 | 3007.9 | 2518.7 | 2029.1 |
| 30°    | 2977.8 | 3189.2 | 3400.2 | 3656.7 | 3912.7 | 4029.9 | 4062.7 | 3754.4 | 3310.5 | 2717.1 | 2123.3 |
| 32.5°  | 3050.3 | 3257.5 | 3464.7 | 3744.1 | 4023.0 | 4200.1 | 4304.7 | 3999.0 | 3521.6 | 2866.7 | 2211.5 |
| 35°    | 3167.4 | 3361.3 | 3555.2 | 3845.9 | 4136.7 | 4365.7 | 4556.5 | 4251.6 | 3708.9 | 2971.3 | 2233.2 |
| 37.5°  | 3372.7 | 3539.5 | 3706.3 | 3974.9 | 4243.2 | 4540.1 | 4826.7 | 4529.8 | 3911.6 | 3072.0 | 2232.1 |
| 40°    | 3683.0 | 3800.9 | 3918.5 | 4145.5 | 4372.2 | 4745.8 | 5132.8 | 4840.1 | 4135.6 | 3181.2 | 2226.7 |
| 42.5°  | 4069.6 | 4130.3 | 4190.5 | 4370.3 | 4550.0 | 4960.7 | 5410.6 | 5143.4 | 4349.3 | 3282.7 | 2216.1 |
| 45°    | 4470.7 | 4486.7 | 4502.7 | 4616.1 | 4729.0 | 5130.9 | 5599.9 | 5371.3 | 4535.9 | 3370.8 | 2205.4 |
| 47.5°  | 4885.1 | 4830.1 | 4775.2 | 4820.2 | 4865.2 | 5261.4 | 5735.0 | 5544.1 | 4723.3 | 3468.5 | 2213.4 |
| 50°    | 5336.5 | 5183.5 | 5030.5 | 5006.8 | 4983.2 | 5391.9 | 5894.1 | 5764.0 | 4948.4 | 3610.9 | 2273.3 |
| 52.5°  | 5795.3 | 5543.0 | 5290.8 | 5197.3 | 5103.4 | 5547.6 | 6105.1 | 6037.6 | 5269.8 | 3831.4 | 2392.7 |
| 55°    | 6215.8 | 5894.9 | 5573.9 | 5448.0 | 5322.0 | 5785.7 | 6362.7 | 6439.4 | 5681.5 | 4113.5 | 2545.0 |
| 57.5°  | 6624.5 | 6260.8 | 5897.1 | 5780.4 | 5663.6 | 6135.7 | 6689.0 | 6800.1 | 6097.5 | 4384.0 | 2670.2 |
| 60°    | 7014.5 | 6654.7 | 6294.4 | 6200.9 | 6107.0 | 6570.7 | 7041.6 | 6960.7 | 6312.0 | 4510.7 | 2709.1 |
| 62.5°  | 7314.5 | 7028.3 | 6742.0 | 6692.8 | 6643.2 | 7010.7 | 7312.6 | 6898.1 | 6175.7 | 4385.9 | 2596.1 |
| 65°    | 7440.8 | 7277.8 | 7114.5 | 7160.7 | 7206.5 | 7343.5 | 7380.1 | 6714.9 | 5747.5 | 4036.4 | 2325.2 |
| 67.5°  | 7077.9 | 7111.1 | 7144.3 | 7338.1 | 7531.6 | 7437.4 | 7179.4 | 6353.9 | 5138.1 | 3541.0 | 1944.0 |
| 70°    | 5985.7 | 6184.9 | 6383.7 | 6842.4 | 7300.7 | 7091.6 | 6641.7 | 5706.0 | 4404.6 | 2970.5 | 1536.0 |
| 72.5°  | 4580.6 | 4804.6 | 5028.2 | 5709.0 | 6389.4 | 6196.7 | 5645.7 | 4686.7 | 3531.5 | 2372.1 | 1212.4 |
| 75°    | 3316.6 | 3569.7 | 3822.3 | 4573.3 | 5324.3 | 5056.8 | 4223.0 | 3355.6 | 2682.4 | 1810.8 | 938.8  |
| 77.5°  | 2362.6 | 2532.0 | 2701.5 | 3443.3 | 4184.8 | 3749.0 | 2811.0 | 2258.0 | 1856.6 | 1258.6 | 660.2  |
| 80°    | 1895.1 | 1843.2 | 1791.3 | 2204.6 | 2617.9 | 2545.4 | 1859.2 | 1450.1 | 1284.9 | 843.4  | 401.8  |
| 82.5°  | 1545.9 | 1419.2 | 1292.5 | 1487.2 | 1681.8 | 1671.1 | 1290.3 | 1064.0 | 956.3  | 586.2  | 216.0  |
| 85°    | 1132.3 | 1081.5 | 1030.8 | 1202.9 | 1375.0 | 1228.0 | 873.9  | 676.2  | 745.7  | 431.6  | 117.5  |
| 87.5°  | 552.2  | 630.8  | 709.0  | 912.1  | 1114.7 | 836.9  | 265.2  | 131.3  | 181.7  | 119.4  | 56.9   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P386587

CATALOG NUMBER: GWC-SA2B-730-U-SLL

**CANDELA DISTRIBUTION (continued):**

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

REPORT NUMBER: P386587

CATALOG NUMBER: GWC-SA2B-730-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 |
| 2.5°   | 2973.6 | 2942.3 | 2906.8 | 2871.3 | 2830.8 | 2790.0 | 2766.0 | 2741.5 | 2715.2 | 2688.9 | 2659.1 |
| 5°     | 2723.2 | 2657.6 | 2583.2 | 2508.8 | 2435.1 | 2361.5 | 2321.8 | 2282.1 | 2240.1 | 2197.7 | 2161.1 |
| 7.5°   | 2363.7 | 2268.0 | 2164.9 | 2061.5 | 1969.9 | 1877.9 | 1821.1 | 1763.8 | 1711.9 | 1659.7 | 1615.8 |
| 10°    | 2047.4 | 1925.3 | 1821.8 | 1718.0 | 1649.0 | 1579.9 | 1527.6 | 1475.3 | 1425.0 | 1374.2 | 1325.7 |
| 12.5°  | 1839.0 | 1716.9 | 1651.3 | 1585.6 | 1528.4 | 1471.1 | 1410.8 | 1350.2 | 1281.1 | 1211.6 | 1160.9 |
| 15°    | 1757.7 | 1646.7 | 1573.8 | 1500.5 | 1423.8 | 1346.7 | 1272.7 | 1198.7 | 1117.0 | 1035.3 | 977.7  |
| 17.5°  | 1722.6 | 1577.2 | 1475.3 | 1373.1 | 1271.9 | 1170.8 | 1084.9 | 999.1  | 909.8  | 820.5  | 762.1  |
| 20°    | 1685.6 | 1492.1 | 1355.5 | 1218.5 | 1088.8 | 959.0  | 861.7  | 764.4  | 684.6  | 604.9  | 560.2  |
| 22.5°  | 1652.0 | 1401.7 | 1230.3 | 1058.6 | 905.2  | 751.8  | 656.4  | 560.6  | 511.7  | 462.9  | 445.0  |
| 25°    | 1638.3 | 1322.7 | 1112.0 | 901.4  | 739.6  | 577.4  | 509.5  | 441.5  | 422.8  | 403.8  | 394.6  |
| 27.5°  | 1640.6 | 1252.1 | 1012.4 | 772.4  | 626.6  | 480.8  | 434.3  | 387.7  | 376.3  | 364.4  | 358.7  |
| 30°    | 1649.4 | 1175.4 | 918.6  | 661.7  | 541.5  | 421.3  | 391.2  | 360.6  | 348.4  | 336.2  | 329.0  |
| 32.5°  | 1659.3 | 1106.7 | 846.0  | 585.0  | 486.9  | 388.5  | 363.7  | 338.5  | 326.7  | 314.8  | 307.6  |
| 35°    | 1642.1 | 1050.6 | 796.4  | 542.3  | 451.8  | 361.0  | 340.0  | 318.7  | 305.7  | 292.7  | 285.8  |
| 37.5°  | 1613.1 | 994.1  | 757.9  | 521.3  | 428.9  | 336.2  | 320.9  | 305.3  | 291.9  | 278.2  | 271.7  |
| 40°    | 1586.8 | 946.4  | 729.3  | 511.7  | 416.3  | 320.6  | 307.6  | 294.6  | 280.9  | 266.8  | 259.1  |
| 42.5°  | 1565.4 | 914.4  | 701.0  | 487.7  | 404.9  | 321.7  | 303.4  | 284.7  | 271.3  | 258.0  | 249.6  |
| 45°    | 1549.4 | 893.4  | 678.9  | 464.4  | 394.2  | 324.0  | 300.7  | 277.4  | 264.1  | 250.3  | 240.4  |
| 47.5°  | 1547.8 | 882.3  | 663.3  | 444.2  | 374.0  | 303.4  | 293.8  | 284.3  | 264.8  | 245.0  | 233.6  |
| 50°    | 1568.8 | 864.4  | 644.9  | 425.1  | 354.5  | 283.9  | 296.9  | 309.5  | 276.3  | 242.7  | 228.2  |
| 52.5°  | 1612.7 | 832.7  | 615.9  | 399.2  | 330.9  | 262.2  | 282.4  | 302.2  | 273.6  | 244.6  | 225.9  |
| 55°    | 1665.8 | 786.1  | 572.0  | 357.6  | 299.6  | 241.2  | 259.1  | 276.7  | 258.7  | 240.4  | 217.9  |
| 57.5°  | 1699.0 | 727.4  | 516.7  | 306.1  | 264.5  | 222.9  | 233.2  | 243.1  | 235.8  | 228.6  | 205.7  |
| 60°    | 1679.1 | 649.1  | 454.5  | 259.5  | 233.6  | 207.6  | 205.7  | 203.4  | 214.1  | 224.8  | 198.4  |
| 62.5°  | 1582.2 | 568.2  | 399.6  | 230.9  | 211.4  | 191.6  | 187.4  | 182.8  | 200.3  | 217.5  | 189.7  |
| 65°    | 1418.5 | 511.7  | 364.8  | 217.9  | 196.2  | 174.4  | 169.8  | 165.2  | 170.6  | 175.9  | 163.0  |
| 67.5°  | 1210.5 | 477.0  | 345.0  | 212.9  | 186.6  | 159.9  | 154.6  | 149.2  | 148.1  | 146.9  | 142.3  |
| 70°    | 996.0  | 455.7  | 332.0  | 208.4  | 176.3  | 143.9  | 138.9  | 133.9  | 132.4  | 130.5  | 127.1  |
| 72.5°  | 832.7  | 453.0  | 330.5  | 208.0  | 167.9  | 127.8  | 123.3  | 118.7  | 116.8  | 114.5  | 111.8  |
| 75°    | 682.0  | 425.1  | 313.7  | 202.3  | 156.5  | 110.3  | 106.1  | 101.9  | 100.4  | 98.5   | 96.2   |
| 77.5°  | 506.0  | 351.9  | 263.7  | 175.5  | 133.9  | 92.4   | 88.2   | 83.6   | 83.2   | 82.4   | 80.5   |
| 80°    | 328.2  | 254.5  | 188.5  | 122.5  | 97.7   | 72.5   | 69.1   | 65.3   | 65.6   | 66.0   | 64.5   |
| 82.5°  | 182.4  | 148.4  | 115.2  | 82.0   | 66.8   | 51.5   | 50.0   | 48.1   | 49.2   | 50.0   | 48.1   |
| 85°    | 96.2   | 74.8   | 61.8   | 48.8   | 38.5   | 28.2   | 28.2   | 27.9   | 29.4   | 30.9   | 29.4   |
| 87.5°  | 41.6   | 26.3   | 22.5   | 18.3   | 10.3   | 1.9    | 2.3    | 2.3    | 3.1    | 3.8    | 3.4    |
| 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-SA2B-730-U-SLL

**CANDELA DISTRIBUTION (continued):**

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

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CATALOG NUMBER: GWC-SA2B-730-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   | 200°   | 205°   | 210°   | 215°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 |
| 2.5°   | 2629.0 | 2601.1 | 2572.9 | 2542.0 | 2547.7 | 2524.0 | 2500.4 | 2485.5 | 2470.6 | 2466.0 | 2461.4 |
| 5°     | 2124.5 | 2092.8 | 2060.7 | 2032.1 | 2056.9 | 2040.1 | 2023.3 | 2021.0 | 2018.4 | 2018.4 | 2018.0 |
| 7.5°   | 1571.9 | 1537.9 | 1503.6 | 1479.9 | 1504.3 | 1501.3 | 1498.2 | 1514.6 | 1531.1 | 1544.4 | 1557.4 |
| 10°    | 1277.3 | 1236.1 | 1194.5 | 1159.4 | 1153.2 | 1135.7 | 1117.8 | 1121.6 | 1125.0 | 1139.5 | 1154.0 |
| 12.5°  | 1110.1 | 1060.9 | 1011.7 | 970.5  | 951.8  | 922.8  | 893.4  | 875.1  | 856.7  | 858.6  | 860.2  |
| 15°    | 919.7  | 872.0  | 823.9  | 788.4  | 776.6  | 754.1  | 731.6  | 708.7  | 685.4  | 675.8  | 665.9  |
| 17.5°  | 703.3  | 665.2  | 626.6  | 603.0  | 603.0  | 596.5  | 590.0  | 578.5  | 566.7  | 557.2  | 547.2  |
| 20°    | 515.6  | 495.3  | 474.7  | 464.8  | 467.9  | 468.2  | 468.2  | 474.0  | 479.7  | 476.6  | 473.6  |
| 22.5°  | 426.6  | 419.4  | 412.1  | 407.9  | 409.5  | 409.9  | 410.2  | 415.6  | 420.5  | 424.4  | 427.8  |
| 25°    | 385.1  | 380.5  | 375.9  | 374.4  | 377.8  | 378.2  | 378.2  | 381.6  | 385.1  | 388.9  | 392.7  |
| 27.5°  | 352.6  | 350.7  | 348.8  | 346.1  | 349.6  | 349.6  | 349.2  | 353.0  | 356.4  | 359.9  | 362.9  |
| 30°    | 321.7  | 322.5  | 322.8  | 322.1  | 324.4  | 325.9  | 327.0  | 329.7  | 332.0  | 334.7  | 337.4  |
| 32.5°  | 300.0  | 298.8  | 297.7  | 296.9  | 301.9  | 304.5  | 307.2  | 309.9  | 312.2  | 313.3  | 314.5  |
| 35°    | 279.0  | 276.3  | 273.6  | 271.7  | 276.3  | 279.7  | 283.2  | 288.1  | 292.7  | 293.5  | 294.2  |
| 37.5°  | 264.8  | 261.4  | 258.0  | 255.7  | 257.6  | 259.1  | 260.6  | 266.0  | 271.3  | 274.4  | 277.1  |
| 40°    | 251.5  | 248.1  | 244.6  | 242.7  | 243.9  | 244.2  | 244.6  | 247.3  | 249.6  | 255.3  | 260.6  |
| 42.5°  | 240.8  | 236.6  | 232.4  | 230.1  | 230.9  | 231.6  | 232.0  | 231.6  | 231.3  | 236.6  | 241.9  |
| 45°    | 230.1  | 225.5  | 221.0  | 218.3  | 218.7  | 218.7  | 218.7  | 217.9  | 216.8  | 219.4  | 222.1  |
| 47.5°  | 221.7  | 216.4  | 211.0  | 208.4  | 207.6  | 206.8  | 206.1  | 205.7  | 204.9  | 206.8  | 208.4  |
| 50°    | 213.3  | 207.6  | 201.5  | 198.4  | 196.5  | 195.8  | 195.0  | 194.6  | 193.9  | 195.8  | 197.3  |
| 52.5°  | 206.8  | 200.0  | 193.1  | 188.1  | 186.2  | 185.1  | 183.9  | 184.3  | 184.3  | 185.1  | 185.5  |
| 55°    | 195.4  | 189.3  | 182.8  | 179.4  | 175.9  | 175.2  | 174.4  | 175.5  | 176.3  | 176.3  | 176.3  |
| 57.5°  | 182.8  | 177.1  | 171.0  | 168.7  | 165.6  | 165.6  | 165.2  | 166.8  | 167.9  | 168.7  | 169.4  |
| 60°    | 171.7  | 165.2  | 158.8  | 156.8  | 155.7  | 155.3  | 154.9  | 156.8  | 158.4  | 159.9  | 161.4  |
| 62.5°  | 161.4  | 154.6  | 147.7  | 145.4  | 145.0  | 145.4  | 145.4  | 147.3  | 148.8  | 150.4  | 151.9  |
| 65°    | 150.0  | 143.1  | 135.9  | 133.6  | 134.3  | 135.5  | 136.6  | 138.1  | 139.3  | 140.8  | 142.3  |
| 67.5°  | 137.4  | 131.7  | 125.6  | 123.3  | 123.6  | 125.2  | 126.7  | 127.8  | 128.6  | 130.1  | 131.7  |
| 70°    | 123.6  | 118.7  | 113.7  | 112.2  | 111.8  | 113.7  | 115.2  | 116.0  | 116.8  | 118.7  | 120.2  |
| 72.5°  | 108.8  | 104.6  | 100.4  | 99.2   | 99.6   | 100.7  | 101.9  | 103.0  | 103.8  | 105.7  | 107.2  |
| 75°    | 93.5   | 89.7   | 85.9   | 85.1   | 85.9   | 87.0   | 88.2   | 88.9   | 89.7   | 92.0   | 93.9   |
| 77.5°  | 78.6   | 74.4   | 69.8   | 69.5   | 70.6   | 71.7   | 72.5   | 73.7   | 74.8   | 77.9   | 80.9   |
| 80°    | 63.0   | 58.4   | 53.4   | 53.0   | 54.2   | 55.3   | 56.5   | 57.6   | 58.8   | 62.6   | 66.0   |
| 82.5°  | 46.2   | 40.8   | 35.5   | 34.7   | 38.5   | 39.7   | 40.8   | 42.7   | 44.3   | 47.7   | 51.1   |
| 85°    | 27.9   | 22.5   | 17.2   | 16.8   | 20.2   | 22.1   | 24.0   | 26.3   | 28.2   | 31.3   | 34.3   |
| 87.5°  | 3.1    | 1.5    | 0.0    | 0.0    | 0.4    | 1.9    | 3.4    | 5.3    | 7.3    | 10.3   | 13.0   |
| 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°     | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 |
| 2.5°   | 2444.6 | 2427.5 | 2445.0 | 2462.2 | 2469.4 | 2476.7 | 2458.0 | 2438.9 | 2468.7 | 2498.1 | 2505.7 |
| 5°     | 2002.7 | 1987.1 | 1998.9 | 2010.4 | 1984.8 | 1959.2 | 1956.6 | 1953.5 | 1975.6 | 1997.8 | 2001.2 |
| 7.5°   | 1552.4 | 1547.5 | 1558.5 | 1569.6 | 1537.2 | 1504.3 | 1488.3 | 1472.3 | 1477.6 | 1483.0 | 1482.2 |
| 10°    | 1157.4 | 1160.5 | 1174.2 | 1187.6 | 1162.4 | 1137.2 | 1126.2 | 1115.1 | 1127.3 | 1139.1 | 1150.2 |
| 12.5°  | 867.0  | 873.5  | 888.0  | 902.1  | 891.8  | 881.2  | 882.3  | 883.4  | 897.6  | 911.3  | 923.5  |
| 15°    | 673.6  | 681.2  | 691.5  | 701.4  | 701.8  | 701.8  | 711.7  | 721.3  | 720.1  | 719.0  | 727.4  |
| 17.5°  | 557.5  | 567.5  | 568.6  | 569.8  | 570.1  | 570.5  | 569.8  | 569.0  | 563.3  | 557.5  | 564.0  |
| 20°    | 477.4  | 480.8  | 483.9  | 486.6  | 483.1  | 479.3  | 469.8  | 460.2  | 456.4  | 452.6  | 458.7  |
| 22.5°  | 434.3  | 440.4  | 437.3  | 433.9  | 427.0  | 419.8  | 412.5  | 404.9  | 404.5  | 403.8  | 407.2  |
| 25°    | 398.0  | 403.0  | 397.6  | 392.3  | 387.3  | 382.4  | 377.4  | 372.5  | 372.1  | 371.7  | 373.2  |
| 27.5°  | 367.9  | 372.5  | 367.5  | 362.5  | 358.3  | 354.1  | 350.3  | 346.5  | 345.7  | 345.0  | 345.4  |
| 30°    | 341.9  | 346.1  | 341.9  | 337.4  | 334.3  | 330.9  | 328.2  | 325.5  | 325.1  | 324.8  | 324.8  |
| 32.5°  | 318.7  | 322.8  | 319.8  | 316.7  | 314.1  | 311.4  | 309.5  | 307.6  | 305.7  | 303.8  | 299.6  |
| 35°    | 298.4  | 302.6  | 300.7  | 298.4  | 295.4  | 292.3  | 288.9  | 285.1  | 280.1  | 274.8  | 272.5  |
| 37.5°  | 281.3  | 285.5  | 283.5  | 281.6  | 277.4  | 273.2  | 267.1  | 260.6  | 259.1  | 257.2  | 256.8  |
| 40°    | 267.5  | 274.0  | 270.2  | 266.0  | 259.5  | 253.0  | 250.0  | 246.9  | 246.1  | 245.4  | 244.6  |
| 42.5°  | 252.2  | 262.2  | 255.3  | 248.4  | 242.3  | 236.2  | 235.5  | 234.7  | 234.3  | 233.9  | 233.9  |
| 45°    | 233.2  | 243.9  | 237.0  | 229.7  | 226.3  | 222.9  | 222.9  | 222.9  | 223.2  | 223.2  | 224.0  |
| 47.5°  | 215.2  | 221.7  | 218.3  | 214.9  | 212.9  | 211.0  | 211.4  | 211.8  | 212.9  | 213.7  | 215.6  |
| 50°    | 200.0  | 202.3  | 203.0  | 203.4  | 202.3  | 201.1  | 201.9  | 202.3  | 203.4  | 204.2  | 205.7  |
| 52.5°  | 188.9  | 192.3  | 192.3  | 192.0  | 192.0  | 192.0  | 192.7  | 193.5  | 194.6  | 195.8  | 197.3  |
| 55°    | 181.7  | 186.6  | 185.1  | 183.6  | 183.9  | 183.9  | 184.7  | 185.5  | 186.6  | 187.4  | 189.7  |
| 57.5°  | 174.8  | 180.1  | 178.6  | 177.1  | 177.1  | 177.1  | 177.5  | 177.8  | 179.0  | 179.7  | 181.3  |
| 60°    | 166.8  | 172.1  | 170.6  | 168.7  | 169.1  | 169.4  | 169.8  | 169.8  | 170.6  | 171.0  | 171.0  |
| 62.5°  | 157.2  | 162.6  | 161.0  | 159.1  | 160.3  | 161.0  | 161.0  | 161.0  | 161.8  | 162.2  | 161.0  |
| 65°    | 147.3  | 152.3  | 150.7  | 149.2  | 150.7  | 151.9  | 152.6  | 153.0  | 152.6  | 152.3  | 151.1  |
| 67.5°  | 136.6  | 141.6  | 140.1  | 138.1  | 140.1  | 141.6  | 143.1  | 144.3  | 143.1  | 142.0  | 140.4  |
| 70°    | 125.2  | 130.1  | 128.2  | 126.3  | 128.2  | 130.1  | 131.7  | 133.2  | 131.7  | 130.1  | 129.8  |
| 72.5°  | 113.0  | 118.7  | 116.4  | 114.1  | 116.4  | 118.7  | 119.4  | 120.2  | 119.1  | 117.9  | 117.2  |
| 75°    | 99.6   | 105.3  | 103.4  | 101.1  | 103.0  | 104.9  | 105.3  | 105.7  | 105.7  | 105.3  | 103.0  |
| 77.5°  | 85.5   | 90.1   | 88.9   | 87.8   | 88.9   | 90.1   | 90.1   | 90.1   | 90.4   | 90.4   | 87.4   |
| 80°    | 68.7   | 71.4   | 71.7   | 72.1   | 72.5   | 72.9   | 72.5   | 72.1   | 71.4   | 70.6   | 68.7   |
| 82.5°  | 51.1   | 51.1   | 54.2   | 56.9   | 56.9   | 56.5   | 56.1   | 55.3   | 53.8   | 51.9   | 47.7   |
| 85°    | 32.4   | 30.5   | 35.5   | 40.1   | 40.1   | 39.7   | 38.9   | 37.8   | 34.7   | 31.3   | 27.9   |
| 87.5°  | 11.1   | 9.2    | 14.1   | 19.1   | 19.5   | 19.5   | 18.7   | 17.9   | 14.9   | 11.4   | 8.8    |
| 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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**CANDELA DISTRIBUTION (continued):**

|        | 275°   | 280°   | 285°   | 290°   | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 |
| 2.5°   | 2517.2 | 2522.1 | 2526.7 | 2564.1 | 2601.1 | 2644.6 | 2688.1 | 2721.3 | 2754.1 | 2788.1 | 2822.1 |
| 5°     | 2013.0 | 2019.1 | 2025.2 | 2070.7 | 2115.7 | 2176.4 | 2237.0 | 2289.3 | 2341.6 | 2403.0 | 2464.5 |
| 7.5°   | 1492.1 | 1505.5 | 1518.5 | 1566.9 | 1615.0 | 1680.3 | 1745.1 | 1813.4 | 1881.4 | 1961.5 | 2041.7 |
| 10°    | 1171.9 | 1197.1 | 1221.9 | 1271.6 | 1321.2 | 1385.7 | 1449.8 | 1521.1 | 1592.5 | 1671.5 | 1750.1 |
| 12.5°  | 948.7  | 982.3  | 1015.5 | 1075.0 | 1134.6 | 1211.6 | 1288.3 | 1367.7 | 1446.7 | 1516.2 | 1585.6 |
| 15°    | 749.5  | 786.1  | 822.4  | 885.4  | 948.3  | 1033.0 | 1117.4 | 1204.0 | 1290.3 | 1373.4 | 1456.6 |
| 17.5°  | 584.6  | 614.8  | 644.6  | 698.0  | 751.0  | 833.1  | 915.1  | 1005.9 | 1096.8 | 1198.3 | 1299.4 |
| 20°    | 471.7  | 484.3  | 496.9  | 535.4  | 573.6  | 640.4  | 706.8  | 799.5  | 892.2  | 1013.6 | 1134.9 |
| 22.5°  | 413.3  | 419.8  | 425.9  | 444.6  | 462.9  | 506.0  | 548.8  | 630.8  | 712.5  | 844.9  | 976.9  |
| 25°    | 378.2  | 383.1  | 388.1  | 400.3  | 412.5  | 433.1  | 453.7  | 511.4  | 569.0  | 699.1  | 828.9  |
| 27.5°  | 346.5  | 354.1  | 361.4  | 367.1  | 372.5  | 386.6  | 400.3  | 438.1  | 475.9  | 597.2  | 718.2  |
| 30°    | 323.6  | 326.3  | 329.0  | 337.7  | 346.1  | 360.6  | 375.1  | 401.5  | 427.8  | 530.4  | 632.7  |
| 32.5°  | 296.9  | 300.7  | 304.5  | 313.7  | 322.8  | 336.2  | 349.6  | 370.9  | 391.9  | 479.7  | 567.1  |
| 35°    | 272.9  | 276.7  | 280.5  | 289.6  | 298.4  | 312.9  | 327.0  | 345.0  | 362.5  | 438.9  | 515.2  |
| 37.5°  | 258.0  | 261.8  | 265.6  | 273.6  | 281.3  | 295.8  | 309.9  | 324.0  | 337.7  | 408.3  | 478.9  |
| 40°    | 245.4  | 249.2  | 253.0  | 260.6  | 267.9  | 282.0  | 295.8  | 307.6  | 319.4  | 385.4  | 451.5  |
| 42.5°  | 234.3  | 238.5  | 242.7  | 250.3  | 257.6  | 270.2  | 282.8  | 298.4  | 313.7  | 365.6  | 417.1  |
| 45°    | 225.2  | 229.4  | 233.2  | 241.6  | 250.0  | 262.2  | 274.4  | 296.1  | 317.9  | 355.3  | 392.7  |
| 47.5°  | 216.8  | 221.3  | 225.5  | 234.7  | 243.9  | 259.1  | 274.0  | 292.3  | 310.3  | 347.3  | 384.3  |
| 50°    | 208.7  | 214.1  | 219.4  | 230.5  | 241.2  | 266.8  | 291.9  | 294.6  | 296.9  | 340.8  | 384.3  |
| 52.5°  | 201.1  | 207.2  | 213.3  | 227.1  | 240.4  | 270.2  | 300.0  | 290.4  | 280.5  | 328.6  | 376.7  |
| 55°    | 193.5  | 198.8  | 203.8  | 220.6  | 237.4  | 259.1  | 280.9  | 268.3  | 255.3  | 305.7  | 356.0  |
| 57.5°  | 183.2  | 188.9  | 194.2  | 212.2  | 230.1  | 245.4  | 260.3  | 248.8  | 237.0  | 279.7  | 322.1  |
| 60°    | 172.5  | 179.0  | 185.5  | 208.4  | 230.9  | 228.2  | 225.2  | 222.9  | 220.2  | 250.7  | 281.3  |
| 62.5°  | 163.0  | 169.8  | 176.7  | 206.5  | 236.2  | 217.9  | 199.6  | 201.5  | 203.0  | 225.5  | 248.1  |
| 65°    | 153.4  | 160.3  | 166.8  | 181.7  | 196.5  | 189.3  | 182.0  | 185.1  | 187.8  | 209.9  | 232.0  |
| 67.5°  | 142.7  | 148.8  | 154.6  | 159.5  | 164.5  | 165.2  | 166.0  | 169.1  | 172.1  | 198.4  | 224.4  |
| 70°    | 130.9  | 135.9  | 140.8  | 144.3  | 147.3  | 148.8  | 150.0  | 153.8  | 157.6  | 186.2  | 214.9  |
| 72.5°  | 117.5  | 121.7  | 125.6  | 128.6  | 131.7  | 132.8  | 133.6  | 137.4  | 141.2  | 171.7  | 202.3  |
| 75°    | 103.0  | 106.5  | 109.5  | 112.2  | 114.9  | 116.4  | 117.9  | 120.6  | 123.3  | 156.5  | 189.3  |
| 77.5°  | 87.0   | 90.4   | 93.5   | 95.8   | 97.7   | 99.2   | 100.4  | 103.8  | 107.2  | 135.1  | 162.6  |
| 80°    | 67.9   | 72.1   | 75.9   | 77.9   | 79.4   | 79.8   | 79.8   | 82.8   | 85.9   | 105.7  | 125.2  |
| 82.5°  | 48.1   | 52.7   | 56.9   | 58.4   | 59.9   | 59.9   | 59.9   | 63.3   | 66.8   | 80.1   | 93.1   |
| 85°    | 28.2   | 33.2   | 37.8   | 39.3   | 40.8   | 41.6   | 42.0   | 43.5   | 44.6   | 54.2   | 63.3   |
| 87.5°  | 8.8    | 13.0   | 16.8   | 17.6   | 18.3   | 19.8   | 21.4   | 21.8   | 21.8   | 28.2   | 34.7   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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CATALOG NUMBER: GWC-SA2B-730-U-SLL

**CANDELA DISTRIBUTION (continued):**

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

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**CANDELA DISTRIBUTION (continued):**

|        | 330°   | 335°   | 340°   | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 |
| 2.5°   | 2861.0 | 2899.9 | 2945.3 | 2990.4 | 3028.9 | 3067.4 | 3099.5 |
| 5°     | 2542.7 | 2621.0 | 2716.7 | 2812.1 | 2897.2 | 2982.3 | 3081.2 |
| 7.5°   | 2142.8 | 2243.9 | 2367.9 | 2492.0 | 2612.2 | 2732.0 | 2883.9 |
| 10°    | 1853.1 | 1955.8 | 2087.1 | 2218.0 | 2353.1 | 2487.8 | 2659.5 |
| 12.5°  | 1669.2 | 1752.4 | 1879.5 | 2006.5 | 2165.3 | 2323.7 | 2488.9 |
| 15°    | 1547.8 | 1638.7 | 1762.3 | 1886.0 | 2059.6 | 2233.2 | 2423.3 |
| 17.5°  | 1418.5 | 1537.2 | 1695.5 | 1853.9 | 2059.6 | 2264.9 | 2488.9 |
| 20°    | 1283.0 | 1430.7 | 1636.0 | 1841.3 | 2118.4 | 2395.0 | 2680.9 |
| 22.5°  | 1147.9 | 1318.9 | 1582.2 | 1845.1 | 2207.3 | 2569.1 | 2954.9 |
| 25°    | 1026.2 | 1223.5 | 1549.4 | 1874.9 | 2336.6 | 2798.0 | 3276.6 |
| 27.5°  | 933.8  | 1149.1 | 1536.0 | 1922.6 | 2500.7 | 3078.9 | 3626.5 |
| 30°    | 851.8  | 1070.8 | 1520.0 | 1969.1 | 2658.7 | 3347.9 | 3900.1 |
| 32.5°  | 780.8  | 994.5  | 1489.1 | 1983.3 | 2769.0 | 3554.8 | 4131.8 |
| 35°    | 725.1  | 935.0  | 1437.2 | 1939.4 | 2838.1 | 3736.8 | 4373.0 |
| 37.5°  | 677.0  | 875.1  | 1378.0 | 1881.0 | 2899.5 | 3918.1 | 4644.3 |
| 40°    | 631.2  | 810.9  | 1327.3 | 1843.2 | 2984.3 | 4125.3 | 4930.9 |
| 42.5°  | 587.7  | 758.3  | 1286.4 | 1814.6 | 3062.9 | 4310.8 | 5181.6 |
| 45°    | 555.3  | 717.8  | 1250.2 | 1782.2 | 3113.6 | 4445.1 | 5370.5 |
| 47.5°  | 539.2  | 693.8  | 1230.7 | 1767.3 | 3164.4 | 4561.1 | 5527.4 |
| 50°    | 536.9  | 689.6  | 1252.9 | 1816.1 | 3274.3 | 4732.1 | 5706.7 |
| 52.5°  | 536.6  | 696.5  | 1316.6 | 1936.7 | 3478.4 | 5019.8 | 5901.0 |
| 55°    | 528.5  | 700.7  | 1392.5 | 2084.0 | 3752.4 | 5420.5 | 6250.1 |
| 57.5°  | 504.1  | 686.1  | 1470.8 | 2255.0 | 4042.1 | 5828.8 | 6643.6 |
| 60°    | 466.3  | 651.0  | 1535.2 | 2419.1 | 4236.7 | 6054.0 | 6795.1 |
| 62.5°  | 419.0  | 589.6  | 1556.6 | 2523.3 | 4231.4 | 5939.5 | 6642.4 |
| 65°    | 378.6  | 525.1  | 1486.4 | 2447.3 | 4017.3 | 5586.9 | 6340.6 |
| 67.5°  | 342.7  | 460.6  | 1310.9 | 2160.7 | 3632.2 | 5103.4 | 5956.7 |
| 70°    | 316.7  | 418.3  | 1084.6 | 1750.9 | 3150.3 | 4549.3 | 5512.1 |
| 72.5°  | 300.3  | 398.0  | 884.2  | 1370.0 | 2556.5 | 3742.5 | 4714.9 |
| 75°    | 277.8  | 366.4  | 693.8  | 1020.8 | 1956.6 | 2892.3 | 3561.3 |
| 77.5°  | 235.8  | 308.7  | 522.8  | 736.9  | 1435.6 | 2134.0 | 2476.7 |
| 80°    | 182.0  | 238.5  | 359.5  | 480.5  | 988.0  | 1495.6 | 1688.7 |
| 82.5°  | 129.8  | 166.4  | 217.9  | 269.4  | 656.4  | 1043.0 | 1059.0 |
| 85°    | 80.1   | 96.9   | 124.8  | 152.6  | 434.3  | 715.9  | 596.5  |
| 87.5°  | 43.1   | 51.5   | 66.0   | 80.1   | 138.9  | 197.7  | 113.7  |
| 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: P386587

CATALOG NUMBER: GWC-SA2B-730-U-SLL

**CANDELA DISTRIBUTION (continued):**

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

Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

INVUE

Report Number: SP1-2012-088-7

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

Test Date: 01/20/2021

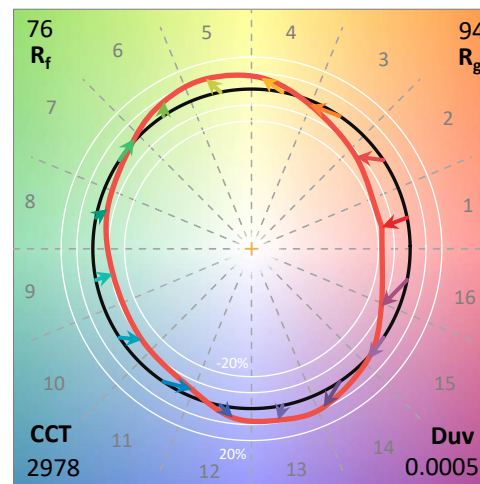
### Test Information

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

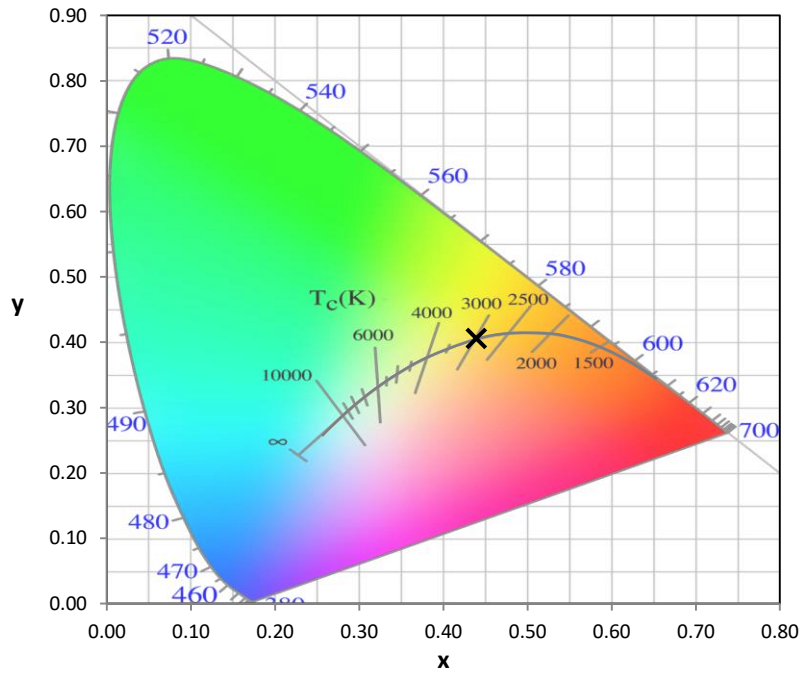
Stabilization Time: 82M  
 Operation Time: 12H  
 Room Temperature (°C) / RH%: 25.6/28%  
 Sphere Temperature (°C): 25.5

REPORT NUMBER: SP1-2012-088-7

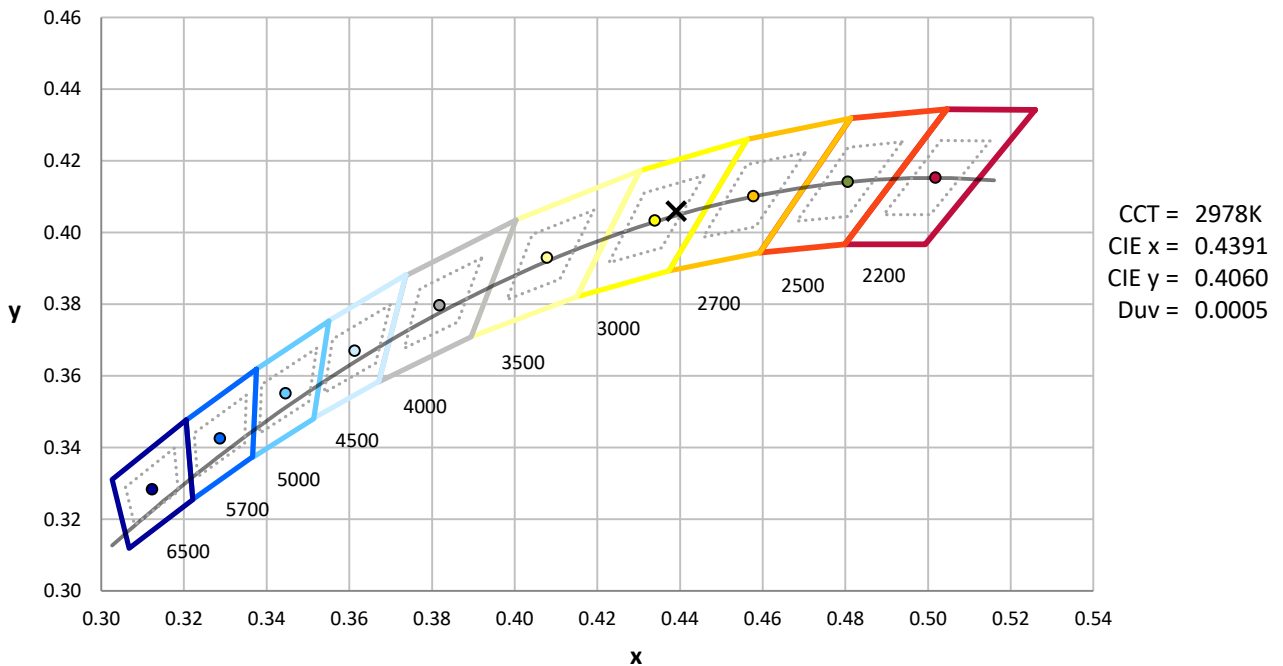
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date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



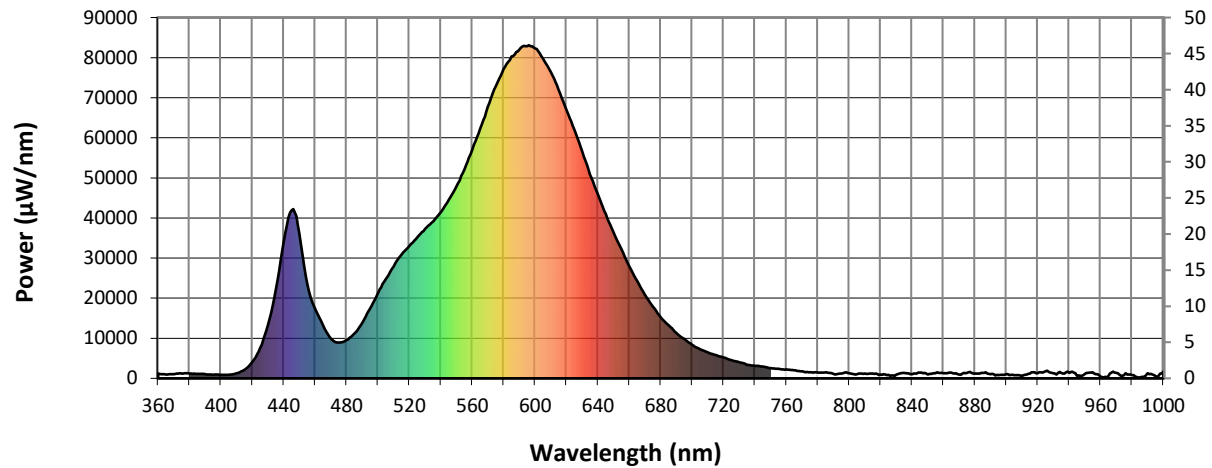
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 3000K 4-step quadrangle

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### Photopic Flux vs. Wavelength

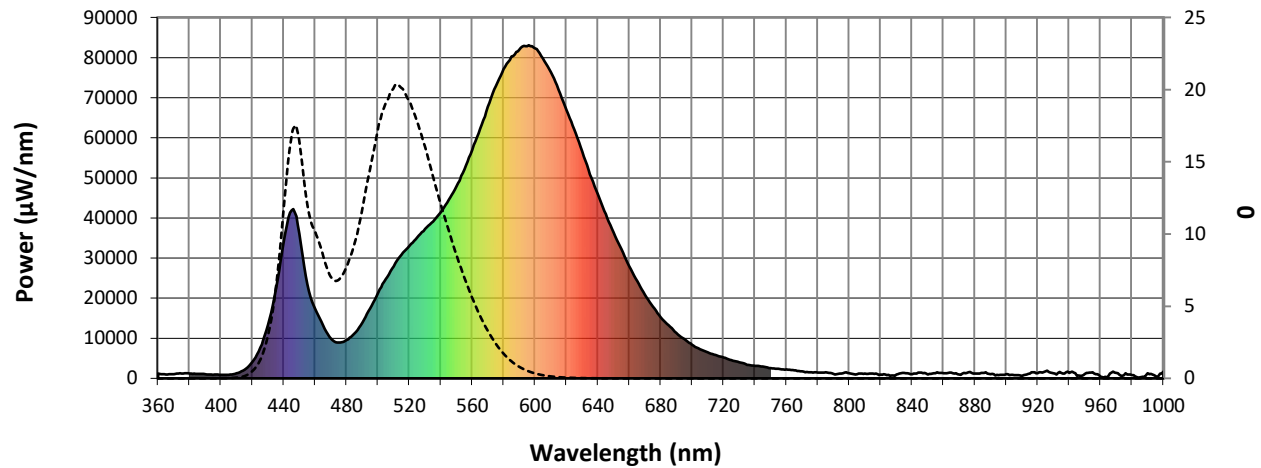


#####

| 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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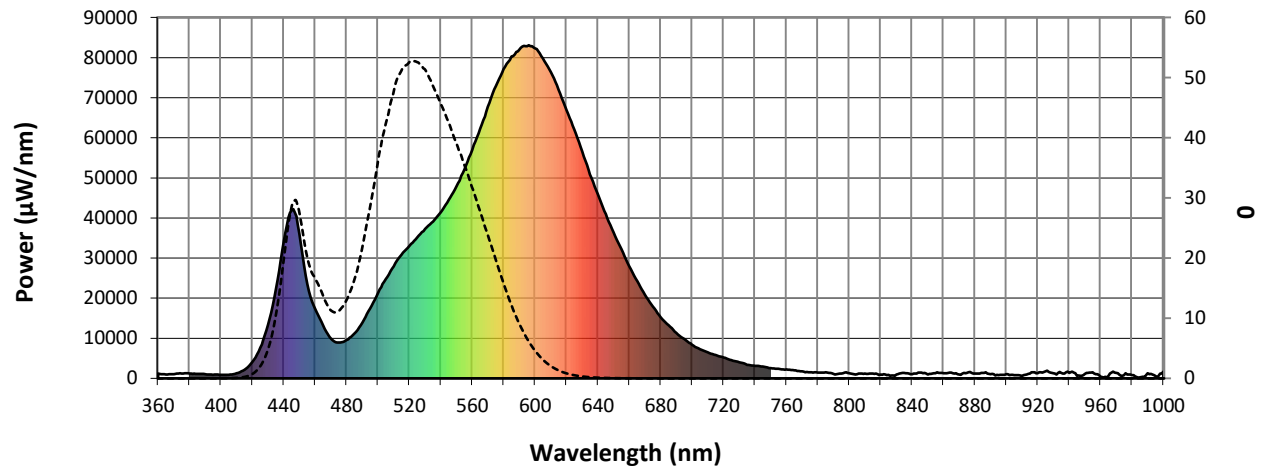
### Scotopic Flux vs. Wavelength


**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**

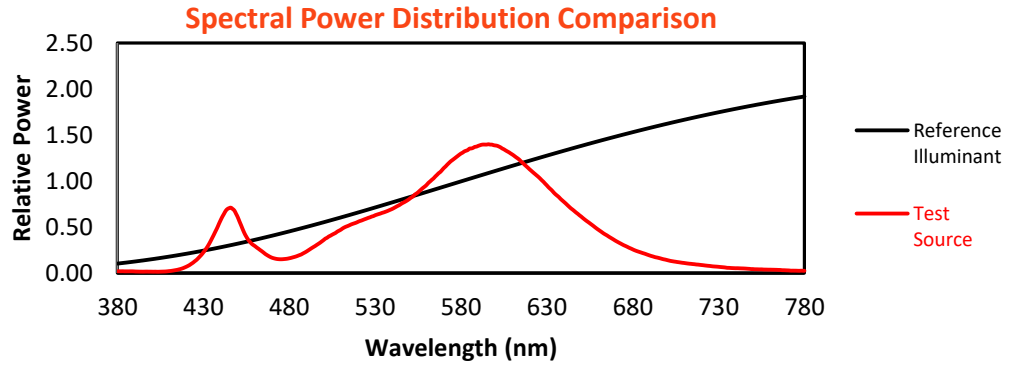
| λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) |
|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|
| 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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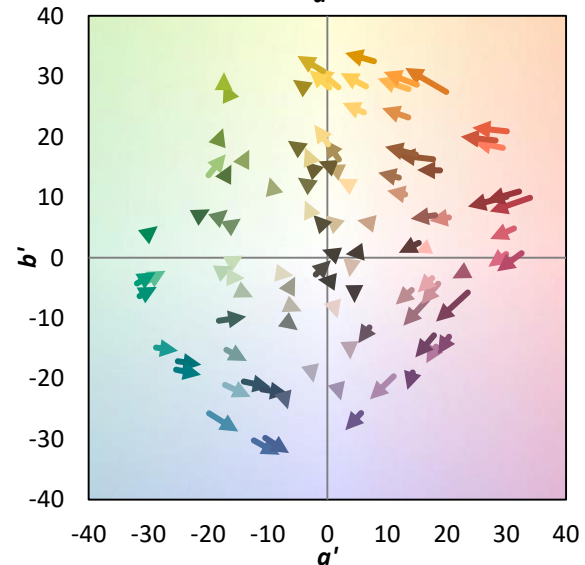
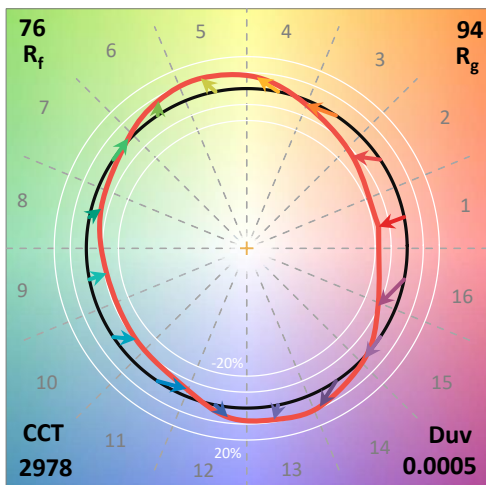
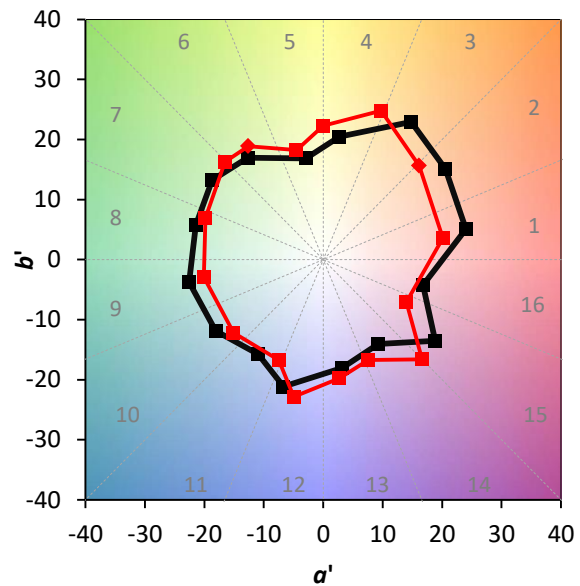
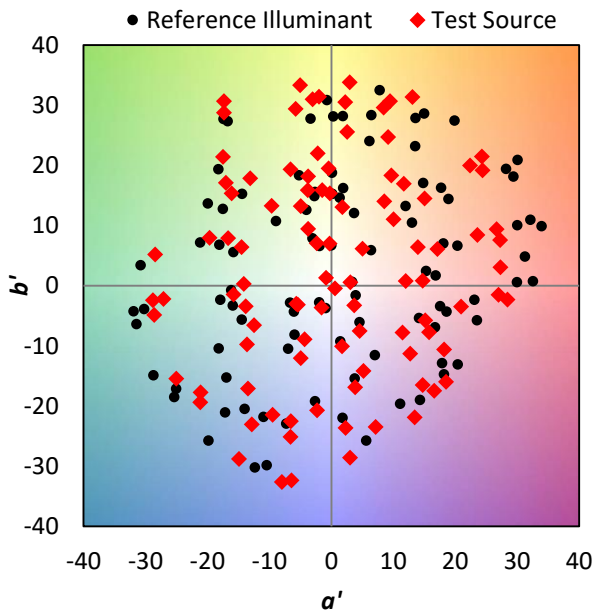
TM-30-18

### Summary

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

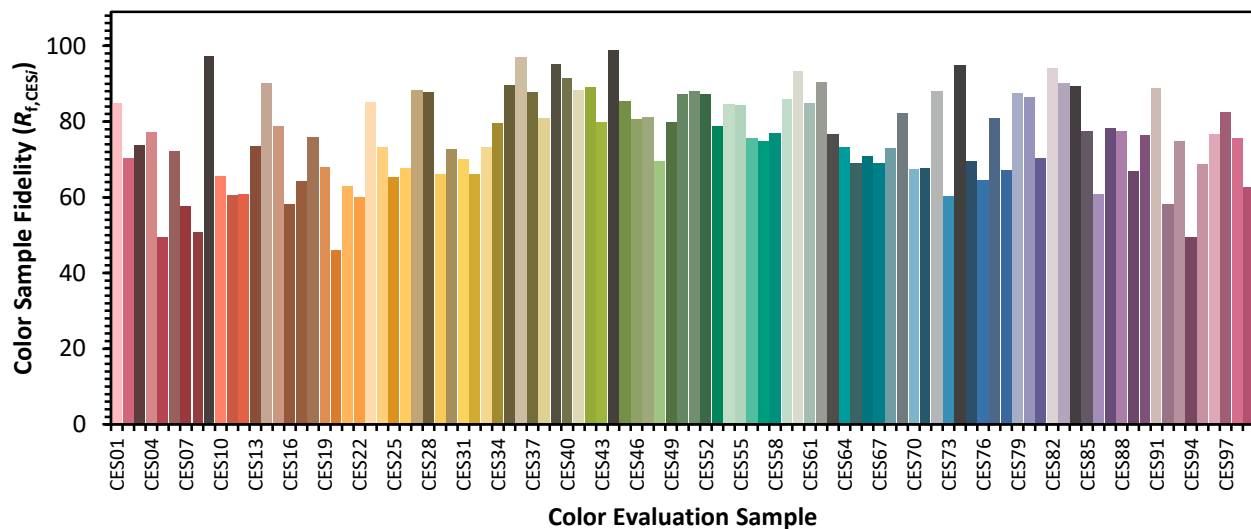


### Color Vector Graphics

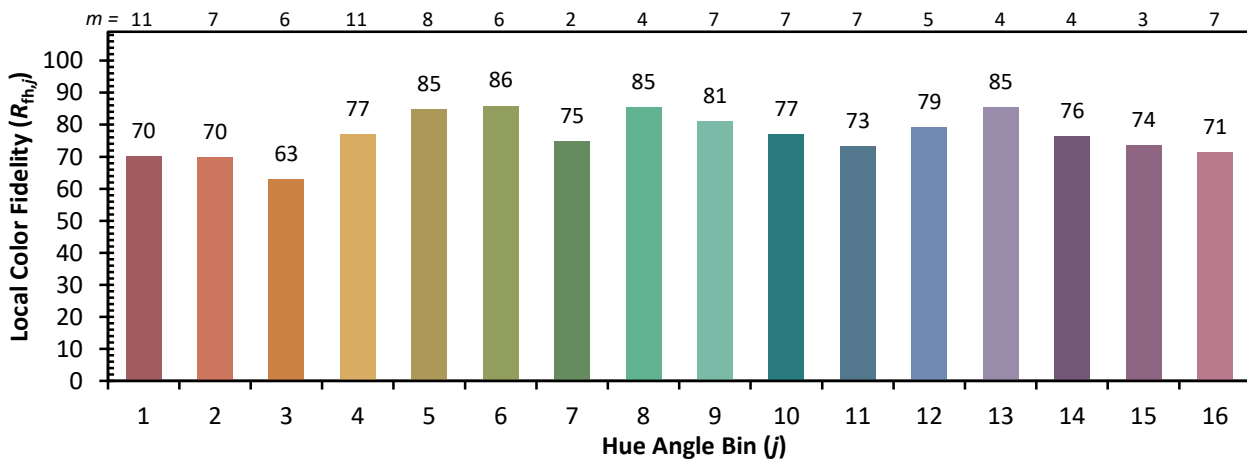
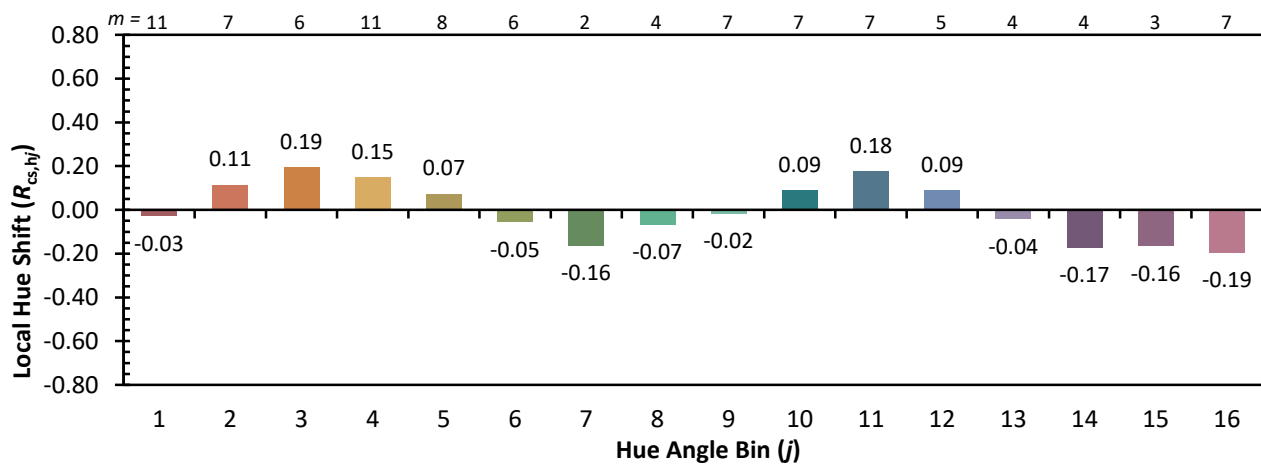
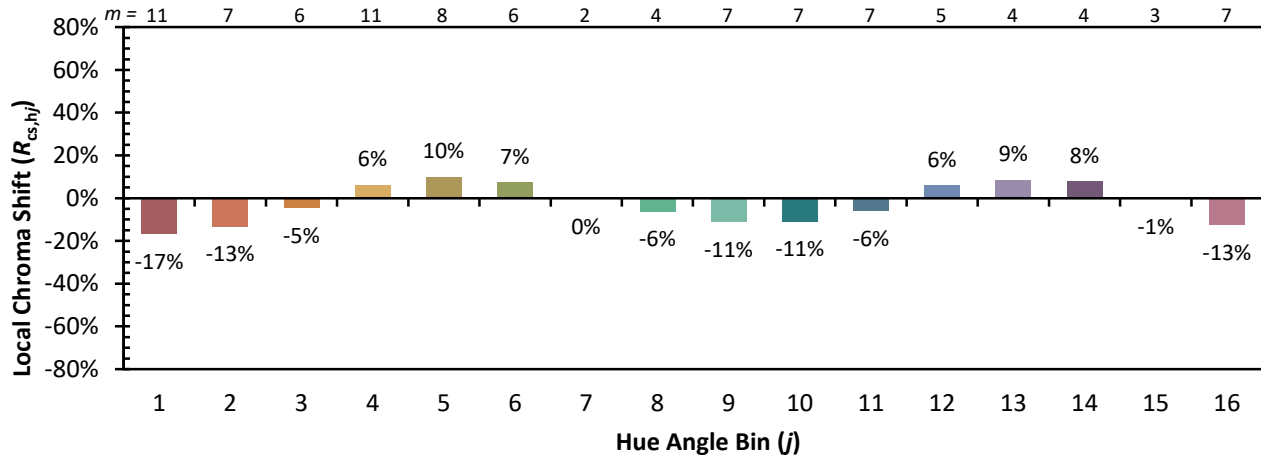


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

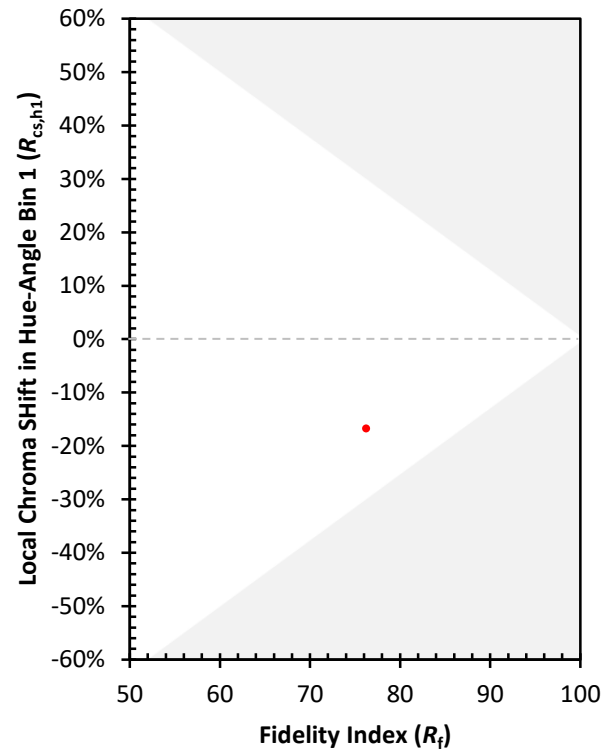
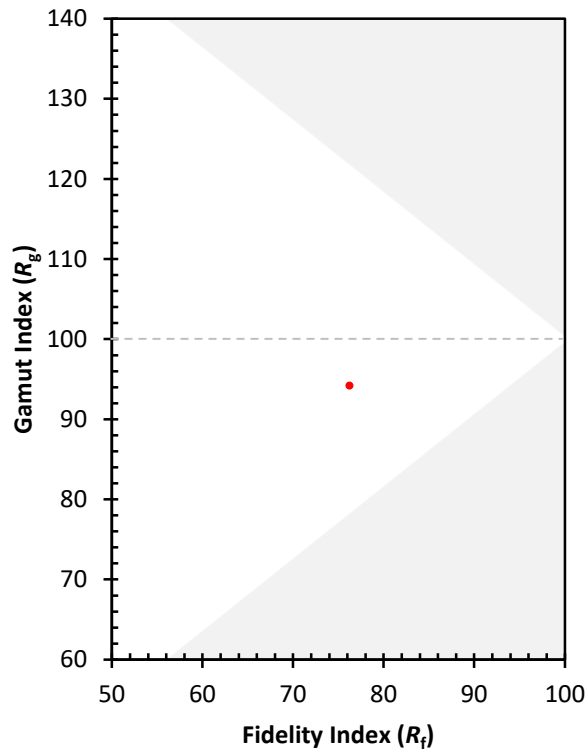
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 68 | CES51 = 88 | CES76 = 65 |
| CES02 = 63 | CES27 = 88 | CES52 = 87 | CES77 = 81 |
| CES03 = 31 | CES28 = 88 | CES53 = 79 | CES78 = 67 |
| CES04 = 71 | CES29 = 66 | CES54 = 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)