

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P386979

Luminaire Tested: **GWC-SA2D-722-U-SLL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P386979  
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-722-U-SLL  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 2200K, 1200mA 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: 10461 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 128  
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

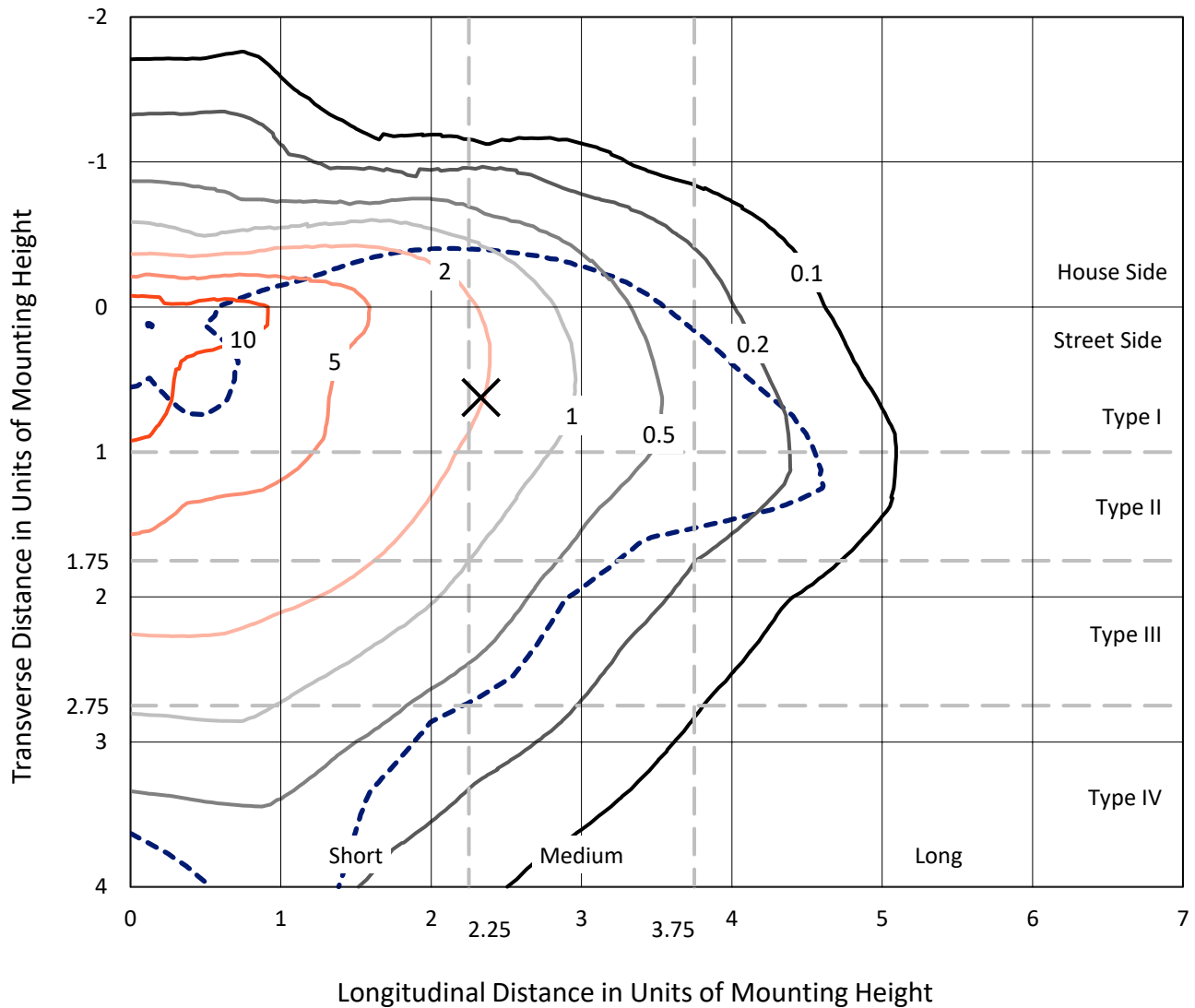


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

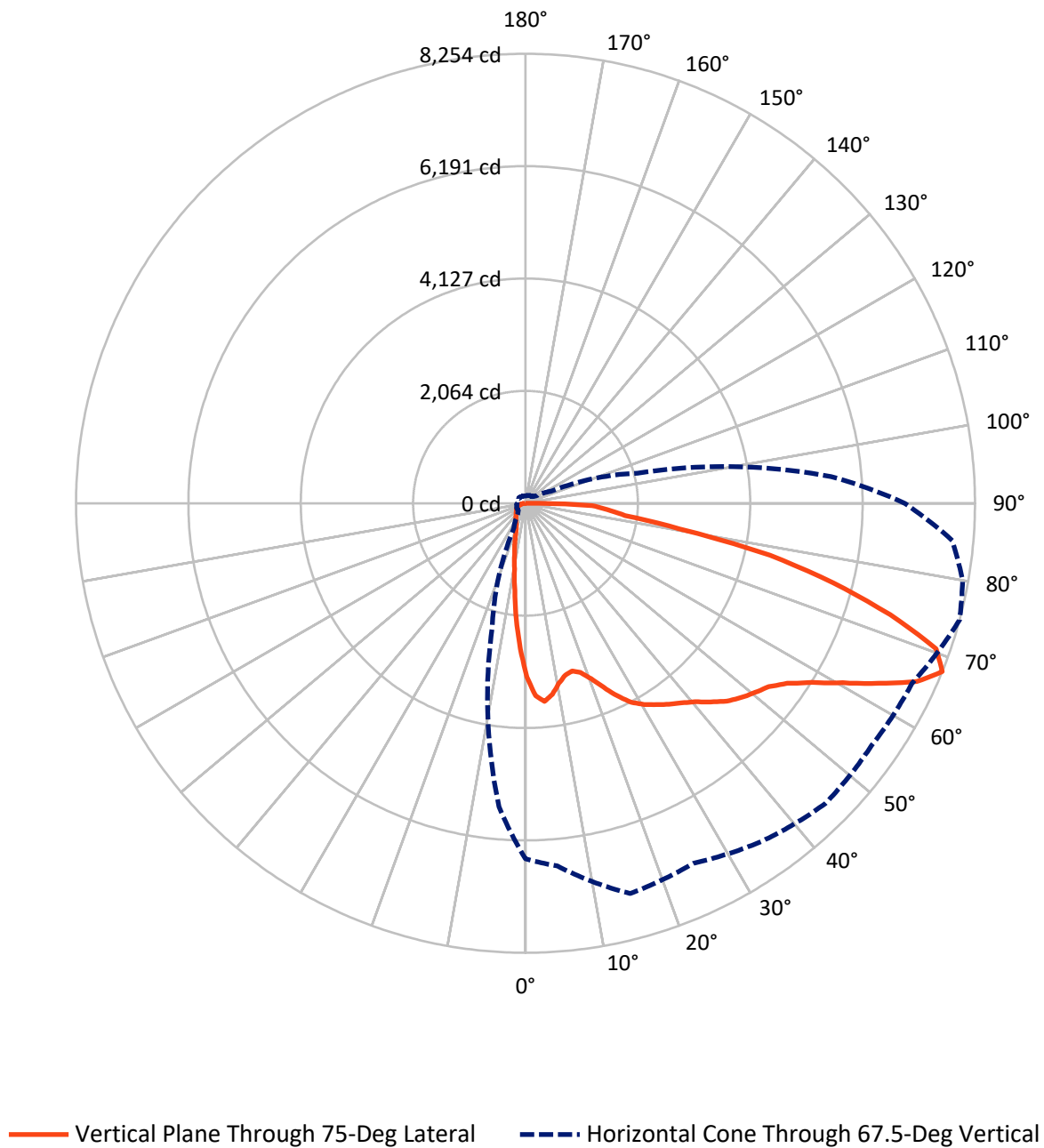


Based on 15 foot mounting height. Maximum calculated value = 17.8 fc  
 Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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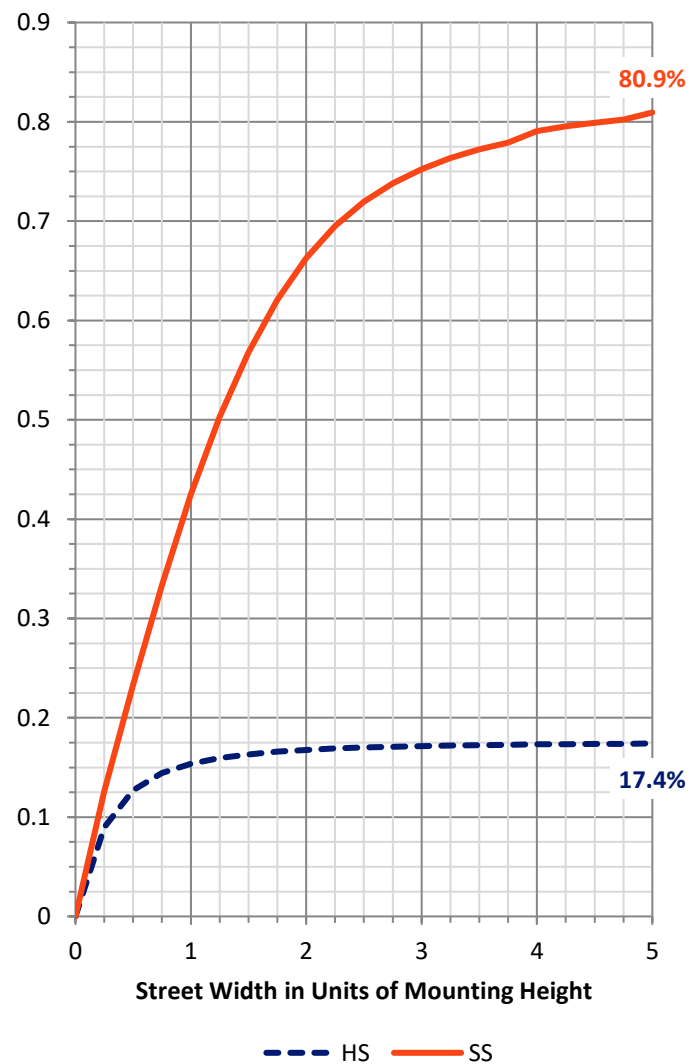
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1842.4   | 0.0    | 1842.4  |
|                    | % Fixture | 17.6     | 0.0    | 17.6    |
| <b>Street Side</b> | Lumens    | 8618.6   | 0.0    | 8618.6  |
|                    | % Fixture | 82.4     | 0.0    | 82.4    |
| <b>Total</b>       | Lumens    | 10461.0  | 0.0    | 10461.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 246.0   | 2.4       |
| 10°-20°   | 511.0   | 4.9       |
| 20°-30°   | 726.7   | 6.9       |
| 30°-40°   | 1047.2  | 10.0      |
| 40°-50°   | 1475.8  | 14.1      |
| 50°-60°   | 2051.6  | 19.6      |
| 60°-70°   | 2481.0  | 23.7      |
| 70°-80°   | 1525.0  | 14.6      |
| 80°-90°   | 396.8   | 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°    | 10461.0 | 100.0     |
| 0°-180°   | 10461.0 | 100.0     |

**Coefficient of Utilization**



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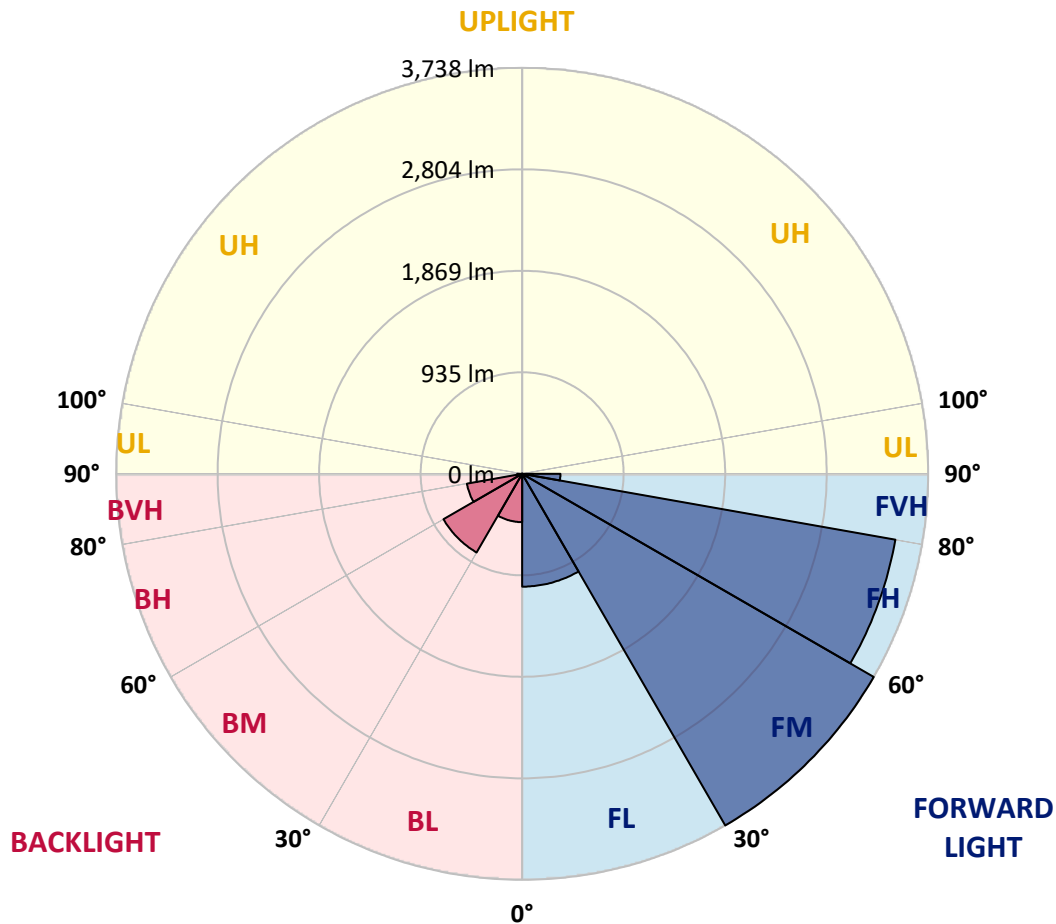
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1038.7 | 9.9       |                         |      |         |
| FM   | (30°-60°)   | 3738.2 | 35.7      |                         |      |         |
| FH   | (60°-80°)   | 3489.4 | 33.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 352.2  | 3.4       |                         |      | G3/500  |
| BL   | (0°-30°)    | 445.0  | 4.3       | B1/500                  |      |         |
| BM   | (30°-60°)   | 836.3  | 8.0       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 516.6  | 4.9       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 44.6   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 |
| 2.5°   | 3396.9 | 3441.7 | 3472.7 | 3503.2 | 3527.0 | 3550.4 | 3584.7 | 3619.0 | 3625.7 | 3632.0 | 3618.6 |
| 5°     | 3376.9 | 3486.0 | 3578.9 | 3671.3 | 3757.1 | 3842.8 | 3894.2 | 3945.7 | 3956.1 | 3966.6 | 3934.4 |
| 7.5°   | 3160.6 | 3321.7 | 3482.7 | 3643.7 | 3791.4 | 3939.0 | 4028.9 | 4118.4 | 4138.9 | 4159.0 | 4106.3 |
| 10°    | 2914.7 | 3102.1 | 3299.9 | 3497.7 | 3692.2 | 3886.7 | 4016.8 | 4146.9 | 4172.8 | 4198.7 | 4133.1 |
| 12.5°  | 2727.8 | 2932.3 | 3143.5 | 3354.7 | 3560.1 | 3765.0 | 3899.7 | 4034.3 | 4066.6 | 4098.8 | 4051.1 |
| 15°    | 2655.8 | 2880.0 | 3078.7 | 3277.3 | 3456.3 | 3634.9 | 3745.3 | 3855.3 | 3868.7 | 3881.7 | 3874.2 |
| 17.5°  | 2727.8 | 2974.9 | 3154.8 | 3334.2 | 3431.7 | 3528.7 | 3573.0 | 3616.9 | 3631.6 | 3645.8 | 3665.0 |
| 20°    | 2938.1 | 3205.0 | 3331.7 | 3458.0 | 3453.8 | 3449.2 | 3427.9 | 3406.2 | 3402.4 | 3398.6 | 3453.0 |
| 22.5°  | 3238.4 | 3548.4 | 3599.0 | 3649.1 | 3531.6 | 3414.1 | 3342.6 | 3270.6 | 3256.4 | 3241.8 | 3299.5 |
| 25°    | 3591.0 | 3921.0 | 3911.8 | 3902.2 | 3678.4 | 3454.2 | 3317.9 | 3181.6 | 3165.7 | 3149.8 | 3199.1 |
| 27.5°  | 3974.5 | 4289.9 | 4229.7 | 4169.4 | 3865.4 | 3561.3 | 3363.5 | 3165.7 | 3149.8 | 3133.9 | 3177.4 |
| 30°    | 4274.4 | 4560.5 | 4463.9 | 4367.3 | 4023.1 | 3678.8 | 3443.8 | 3208.7 | 3182.8 | 3156.5 | 3210.0 |
| 32.5°  | 4528.3 | 4771.7 | 4642.1 | 4512.4 | 4151.0 | 3789.7 | 3535.4 | 3281.1 | 3240.5 | 3200.0 | 3271.5 |
| 35°    | 4792.6 | 4982.5 | 4800.1 | 4617.4 | 4265.2 | 3912.6 | 3643.7 | 3374.4 | 3324.6 | 3274.8 | 3373.1 |
| 37.5°  | 5090.0 | 5247.7 | 4985.8 | 4723.6 | 4393.6 | 4063.6 | 3806.0 | 3547.9 | 3496.9 | 3445.9 | 3571.4 |
| 40°    | 5404.1 | 5535.4 | 5186.2 | 4837.0 | 4534.1 | 4231.3 | 4030.6 | 3829.4 | 3780.9 | 3732.0 | 3884.2 |
| 42.5°  | 5678.9 | 5774.6 | 5372.7 | 4970.8 | 4703.5 | 4435.9 | 4294.5 | 4152.7 | 4152.3 | 4151.5 | 4305.8 |
| 45°    | 5885.9 | 5969.1 | 5528.3 | 5087.1 | 4868.7 | 4650.0 | 4576.4 | 4502.8 | 4561.7 | 4620.7 | 4760.4 |
| 47.5°  | 6057.8 | 6114.3 | 5658.8 | 5202.9 | 5057.8 | 4912.7 | 4923.5 | 4934.4 | 5054.4 | 5174.5 | 5264.4 |
| 50°    | 6254.4 | 6208.8 | 5777.2 | 5345.1 | 5300.4 | 5255.6 | 5353.5 | 5450.9 | 5588.9 | 5726.5 | 5787.6 |
| 52.5°  | 6467.3 | 6346.4 | 5937.8 | 5528.7 | 5578.9 | 5629.1 | 5828.2 | 6027.3 | 6166.5 | 6305.8 | 6328.8 |
| 55°    | 6849.9 | 6664.7 | 6233.0 | 5801.0 | 5897.6 | 5993.8 | 6286.2 | 6578.1 | 6686.8 | 6795.6 | 6803.9 |
| 57.5°  | 7281.1 | 7116.8 | 6646.7 | 6176.6 | 6280.3 | 6384.0 | 6721.5 | 7058.6 | 7176.2 | 7293.3 | 7277.0 |
| 60°    | 7447.2 | 7455.1 | 7039.4 | 6623.3 | 6727.8 | 6832.4 | 7161.1 | 7489.9 | 7624.9 | 7759.6 | 7723.6 |
| 62.5°  | 7279.9 | 7476.0 | 7254.0 | 7031.5 | 7126.4 | 7220.9 | 7543.0 | 7865.0 | 8003.5 | 8141.9 | 8079.2 |
| 65°    | 6949.1 | 7143.5 | 7243.1 | 7342.6 | 7374.0 | 7405.4 | 7706.1 | 8006.4 | 8112.6 | 8218.4 | 8186.6 |
| 67.5°  | 6528.3 | 6685.6 | 7052.8 | 7419.6 | 7356.4 | 7293.3 | 7434.2 | 7575.2 | 7684.3 | 7793.5 | 7775.5 |
| 70°    | 6041.1 | 6228.4 | 6718.2 | 7208.0 | 6897.6 | 6586.9 | 6528.7 | 6470.6 | 6588.5 | 6706.1 | 6633.3 |
| 72.5°  | 5167.4 | 5450.1 | 5972.5 | 6494.4 | 5922.7 | 5351.0 | 5152.3 | 4953.6 | 5103.0 | 5252.3 | 5136.4 |
| 75°    | 3903.0 | 4278.2 | 4855.4 | 5432.1 | 4750.0 | 4067.8 | 3802.6 | 3537.5 | 3665.9 | 3794.3 | 3714.8 |
| 77.5°  | 2714.4 | 3184.9 | 3753.3 | 4321.7 | 3628.2 | 2934.4 | 2737.4 | 2540.0 | 2578.5 | 2616.5 | 2603.1 |
| 80°    | 1850.7 | 2160.2 | 2556.7 | 2952.8 | 2491.0 | 2029.3 | 2044.8 | 2059.8 | 2041.9 | 2023.4 | 2050.2 |
| 82.5°  | 1160.6 | 1378.5 | 1684.7 | 1990.4 | 1745.3 | 1500.2 | 1640.8 | 1781.3 | 1712.3 | 1642.8 | 1668.8 |
| 85°    | 653.7  | 786.7  | 1086.2 | 1385.2 | 1291.1 | 1196.6 | 1279.0 | 1361.0 | 1253.9 | 1146.8 | 1194.1 |
| 87.5°  | 124.6  | 207.4  | 601.0  | 994.2  | 902.6  | 811.0  | 704.7  | 598.5  | 456.7  | 314.9  | 460.1  |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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CATALOG NUMBER: GWC-SA2D-722-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°     | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 |
| 2.5°   | 3605.2 | 3598.1 | 3591.0 | 3565.5 | 3539.6 | 3501.1 | 3469.3 | 3414.1 | 3384.0 | 3338.4 | 3292.8 |
| 5°     | 3901.8 | 3856.6 | 3811.4 | 3733.6 | 3655.4 | 3568.4 | 3468.5 | 3357.6 | 3274.0 | 3165.2 | 3056.5 |
| 7.5°   | 4053.6 | 3948.2 | 3842.4 | 3693.1 | 3543.3 | 3408.7 | 3250.6 | 3103.3 | 2977.9 | 2836.5 | 2695.1 |
| 10°    | 4067.4 | 3909.3 | 3750.8 | 3556.7 | 3362.2 | 3198.7 | 3016.8 | 2853.2 | 2702.7 | 2540.4 | 2377.7 |
| 12.5°  | 4003.0 | 3834.8 | 3666.3 | 3452.6 | 3238.4 | 3052.7 | 2857.0 | 2673.8 | 2506.9 | 2328.3 | 2149.3 |
| 15°    | 3866.6 | 3732.4 | 3597.7 | 3397.4 | 3197.0 | 3009.7 | 2819.8 | 2602.7 | 2414.1 | 2231.3 | 2048.1 |
| 17.5°  | 3683.9 | 3620.3 | 3556.3 | 3411.6 | 3266.5 | 3104.2 | 2920.2 | 2665.4 | 2444.6 | 2246.0 | 2047.3 |
| 20°    | 3506.9 | 3530.4 | 3553.4 | 3495.7 | 3437.9 | 3307.9 | 3147.3 | 2861.2 | 2579.3 | 2319.6 | 2059.4 |
| 22.5°  | 3356.8 | 3469.3 | 3581.4 | 3626.1 | 3670.5 | 3592.3 | 3466.8 | 3136.0 | 2762.9 | 2423.7 | 2084.5 |
| 25°    | 3248.1 | 3434.6 | 3621.1 | 3770.0 | 3918.5 | 3883.8 | 3787.2 | 3469.7 | 3006.3 | 2573.9 | 2141.0 |
| 27.5°  | 3220.9 | 3449.6 | 3678.4 | 3909.3 | 4139.7 | 4171.9 | 4145.2 | 3821.5 | 3296.6 | 2760.4 | 2223.8 |
| 30°    | 3263.5 | 3495.2 | 3726.5 | 4007.6 | 4288.2 | 4416.6 | 4452.6 | 4114.7 | 3628.2 | 2977.9 | 2327.1 |
| 32.5°  | 3343.0 | 3570.1 | 3797.2 | 4103.4 | 4409.1 | 4603.2 | 4717.8 | 4382.7 | 3859.5 | 3141.8 | 2423.7 |
| 35°    | 3471.4 | 3683.9 | 3896.3 | 4215.0 | 4533.7 | 4784.7 | 4993.8 | 4659.6 | 4064.9 | 3256.4 | 2447.5 |
| 37.5°  | 3696.4 | 3879.2 | 4062.0 | 4356.4 | 4650.4 | 4975.8 | 5289.9 | 4964.5 | 4287.0 | 3366.8 | 2446.3 |
| 40°    | 4036.4 | 4165.7 | 4294.5 | 4543.3 | 4791.8 | 5201.2 | 5625.3 | 5304.5 | 4532.5 | 3486.5 | 2440.4 |
| 42.5°  | 4460.1 | 4526.6 | 4592.7 | 4789.7 | 4986.7 | 5436.7 | 5929.8 | 5637.0 | 4766.7 | 3597.7 | 2428.7 |
| 45°    | 4899.7 | 4917.3 | 4934.8 | 5059.0 | 5182.8 | 5623.2 | 6137.3 | 5886.7 | 4971.2 | 3694.3 | 2417.0 |
| 47.5°  | 5353.9 | 5293.7 | 5233.4 | 5282.8 | 5332.1 | 5766.3 | 6285.3 | 6076.2 | 5176.6 | 3801.4 | 2425.8 |
| 50°    | 5848.7 | 5681.0 | 5513.2 | 5487.3 | 5461.4 | 5909.3 | 6459.7 | 6317.1 | 5423.3 | 3957.4 | 2491.5 |
| 52.5°  | 6351.4 | 6074.9 | 5798.5 | 5696.0 | 5593.1 | 6080.0 | 6691.0 | 6617.0 | 5775.5 | 4199.1 | 2622.4 |
| 55°    | 6812.3 | 6460.6 | 6108.8 | 5970.8 | 5832.8 | 6340.9 | 6973.3 | 7057.4 | 6226.8 | 4508.2 | 2789.2 |
| 57.5°  | 7260.2 | 6861.7 | 6463.1 | 6335.1 | 6207.1 | 6724.5 | 7330.9 | 7452.6 | 6682.6 | 4804.7 | 2926.4 |
| 60°    | 7687.7 | 7293.3 | 6898.5 | 6796.0 | 6693.1 | 7201.3 | 7717.4 | 7628.7 | 6917.7 | 4943.6 | 2969.1 |
| 62.5°  | 8016.4 | 7702.7 | 7389.1 | 7335.1 | 7280.7 | 7683.5 | 8014.3 | 7560.1 | 6768.4 | 4806.8 | 2845.3 |
| 65°    | 8154.9 | 7976.3 | 7797.3 | 7847.9 | 7898.1 | 8048.2 | 8088.4 | 7359.4 | 6299.1 | 4423.7 | 2548.3 |
| 67.5°  | 7757.1 | 7793.5 | 7829.9 | 8042.3 | 8254.4 | 8151.1 | 7868.4 | 6963.7 | 5631.2 | 3880.9 | 2130.5 |
| 70°    | 6560.1 | 6778.4 | 6996.3 | 7499.1 | 8001.4 | 7772.2 | 7279.1 | 6253.5 | 4827.3 | 3255.6 | 1683.4 |
| 72.5°  | 5020.1 | 5265.6 | 5510.7 | 6256.9 | 7002.6 | 6791.4 | 6187.5 | 5136.4 | 3870.4 | 2599.8 | 1328.8 |
| 75°    | 3634.9 | 3912.2 | 4189.1 | 5012.2 | 5835.3 | 5542.1 | 4628.2 | 3677.6 | 2939.8 | 1984.6 | 1028.9 |
| 77.5°  | 2589.3 | 2775.0 | 2960.7 | 3773.8 | 4586.4 | 4108.8 | 3080.8 | 2474.7 | 2034.7 | 1379.4 | 723.6  |
| 80°    | 2077.0 | 2020.1 | 1963.2 | 2416.2 | 2869.1 | 2789.7 | 2037.7 | 1589.3 | 1408.2 | 924.3  | 440.4  |
| 82.5°  | 1694.3 | 1555.4 | 1416.6 | 1629.9 | 1843.2 | 1831.5 | 1414.1 | 1166.1 | 1048.1 | 642.4  | 236.7  |
| 85°    | 1240.9 | 1185.3 | 1129.7 | 1318.3 | 1506.9 | 1345.9 | 957.8  | 741.1  | 817.2  | 473.0  | 128.8  |
| 87.5°  | 605.2  | 691.4  | 777.1  | 999.6  | 1221.7 | 917.2  | 290.7  | 143.9  | 199.1  | 130.9  | 62.3   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P386979

CATALOG NUMBER: GWC-SA2D-722-U-SLL

**CANDELA DISTRIBUTION (continued):**

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

REPORT NUMBER: P386979

CATALOG NUMBER: GWC-SA2D-722-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 |
| 2.5°   | 3258.9 | 3224.6 | 3185.7 | 3146.8 | 3102.5 | 3057.8 | 3031.4 | 3004.6 | 2975.8 | 2946.9 | 2914.3 |
| 5°     | 2984.6 | 2912.6 | 2831.1 | 2749.5 | 2668.8 | 2588.1 | 2544.6 | 2501.1 | 2455.1 | 2408.6 | 2368.5 |
| 7.5°   | 2590.6 | 2485.6 | 2372.7 | 2259.3 | 2159.0 | 2058.2 | 1995.8 | 1933.1 | 1876.2 | 1818.9 | 1770.8 |
| 10°    | 2243.9 | 2110.0 | 1996.7 | 1882.9 | 1807.2 | 1731.5 | 1674.2 | 1616.9 | 1561.7 | 1506.1 | 1453.0 |
| 12.5°  | 2015.5 | 1881.7 | 1809.7 | 1737.8 | 1675.1 | 1612.3 | 1546.2 | 1479.7 | 1404.0 | 1327.9 | 1272.3 |
| 15°    | 1926.4 | 1804.7 | 1724.8 | 1644.5 | 1560.5 | 1476.0 | 1394.8 | 1313.7 | 1224.2 | 1134.7 | 1071.5 |
| 17.5°  | 1887.9 | 1728.6 | 1616.9 | 1504.8 | 1394.0 | 1283.2 | 1189.1 | 1095.0 | 997.1  | 899.2  | 835.2  |
| 20°    | 1847.4 | 1635.3 | 1485.6 | 1335.4 | 1193.2 | 1051.0 | 944.4  | 837.7  | 750.3  | 662.9  | 614.0  |
| 22.5°  | 1810.6 | 1536.2 | 1348.4 | 1160.2 | 992.1  | 823.9  | 719.4  | 614.4  | 560.9  | 507.3  | 487.7  |
| 25°    | 1795.5 | 1449.6 | 1218.8 | 987.9  | 810.6  | 632.8  | 558.4  | 483.9  | 463.4  | 442.5  | 432.5  |
| 27.5°  | 1798.0 | 1372.2 | 1109.6 | 846.5  | 686.8  | 527.0  | 476.0  | 424.9  | 412.4  | 399.4  | 393.1  |
| 30°    | 1807.6 | 1288.2 | 1006.7 | 725.2  | 593.5  | 461.7  | 428.7  | 395.2  | 381.9  | 368.5  | 360.5  |
| 32.5°  | 1818.5 | 1212.9 | 927.2  | 641.2  | 533.7  | 425.8  | 398.6  | 371.0  | 358.0  | 345.0  | 337.1  |
| 35°    | 1799.7 | 1151.4 | 872.9  | 594.3  | 495.2  | 395.7  | 372.7  | 349.2  | 335.0  | 320.8  | 313.3  |
| 37.5°  | 1767.9 | 1089.5 | 830.6  | 571.3  | 470.1  | 368.5  | 351.7  | 334.6  | 320.0  | 304.9  | 297.8  |
| 40°    | 1739.0 | 1037.2 | 799.3  | 560.9  | 456.3  | 351.3  | 337.1  | 322.9  | 307.8  | 292.4  | 284.0  |
| 42.5°  | 1715.6 | 1002.1 | 768.3  | 534.5  | 443.8  | 352.6  | 332.5  | 312.0  | 297.4  | 282.7  | 273.5  |
| 45°    | 1698.1 | 979.1  | 744.0  | 509.0  | 432.0  | 355.1  | 329.6  | 304.1  | 289.4  | 274.4  | 263.5  |
| 47.5°  | 1696.4 | 967.0  | 726.9  | 486.8  | 409.9  | 332.5  | 322.0  | 311.6  | 290.3  | 268.5  | 256.0  |
| 50°    | 1719.4 | 947.3  | 706.8  | 465.9  | 388.5  | 311.2  | 325.4  | 339.2  | 302.8  | 266.0  | 250.1  |
| 52.5°  | 1767.5 | 912.6  | 675.0  | 437.5  | 362.6  | 287.3  | 309.5  | 331.2  | 299.9  | 268.1  | 247.6  |
| 55°    | 1825.6 | 861.6  | 626.9  | 391.9  | 328.3  | 264.3  | 284.0  | 303.2  | 283.6  | 263.5  | 238.8  |
| 57.5°  | 1862.0 | 797.2  | 566.3  | 335.4  | 289.8  | 244.3  | 255.5  | 266.4  | 258.5  | 250.5  | 225.4  |
| 60°    | 1840.3 | 711.4  | 498.1  | 284.4  | 256.0  | 227.5  | 225.4  | 222.9  | 234.6  | 246.3  | 217.5  |
| 62.5°  | 1734.0 | 622.8  | 437.9  | 253.0  | 231.7  | 210.0  | 205.4  | 200.3  | 219.6  | 238.4  | 207.9  |
| 65°    | 1554.6 | 560.9  | 399.8  | 238.8  | 215.0  | 191.1  | 186.1  | 181.1  | 187.0  | 192.8  | 178.6  |
| 67.5°  | 1326.7 | 522.8  | 378.1  | 233.4  | 204.5  | 175.2  | 169.4  | 163.5  | 162.3  | 161.0  | 156.0  |
| 70°    | 1091.6 | 499.4  | 363.9  | 228.4  | 193.2  | 157.7  | 152.2  | 146.8  | 145.1  | 143.0  | 139.3  |
| 72.5°  | 912.6  | 496.5  | 362.2  | 227.9  | 184.0  | 140.1  | 135.1  | 130.1  | 128.0  | 125.5  | 122.5  |
| 75°    | 747.4  | 465.9  | 343.8  | 221.7  | 171.5  | 120.9  | 116.3  | 111.7  | 110.0  | 107.9  | 105.4  |
| 77.5°  | 554.6  | 385.6  | 289.0  | 192.4  | 146.8  | 101.2  | 96.6   | 91.6   | 91.2   | 90.3   | 88.2   |
| 80°    | 359.7  | 279.0  | 206.6  | 134.3  | 107.1  | 79.5   | 75.7   | 71.5   | 71.9   | 72.4   | 70.7   |
| 82.5°  | 199.9  | 162.7  | 126.3  | 89.9   | 73.2   | 56.5   | 54.8   | 52.7   | 54.0   | 54.8   | 52.7   |
| 85°    | 105.4  | 82.0   | 67.8   | 53.5   | 42.2   | 30.9   | 30.9   | 30.5   | 32.2   | 33.9   | 32.2   |
| 87.5°  | 45.6   | 28.9   | 24.7   | 20.1   | 11.3   | 2.1    | 2.5    | 2.5    | 3.3    | 4.2    | 3.8    |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

REPORT NUMBER: P386979

CATALOG NUMBER: GWC-SA2D-722-U-SLL

**CANDELA DISTRIBUTION (continued):**

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

REPORT NUMBER: P386979

CATALOG NUMBER: GWC-SA2D-722-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   | 200°   | 205°   | 210°   | 215°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 |
| 2.5°   | 2881.3 | 2850.7 | 2819.8 | 2785.9 | 2792.2 | 2766.2 | 2740.3 | 2724.0 | 2707.7 | 2702.7 | 2697.7 |
| 5°     | 2328.3 | 2293.6 | 2258.5 | 2227.1 | 2254.3 | 2235.9 | 2217.5 | 2215.0 | 2212.1 | 2212.1 | 2211.7 |
| 7.5°   | 1722.7 | 1685.5 | 1647.9 | 1621.9 | 1648.7 | 1645.4 | 1642.0 | 1660.0 | 1678.0 | 1692.6 | 1706.8 |
| 10°    | 1399.9 | 1354.7 | 1309.1 | 1270.6 | 1263.9 | 1244.7 | 1225.0 | 1229.2 | 1233.0 | 1248.9 | 1264.8 |
| 12.5°  | 1216.7 | 1162.7 | 1108.8 | 1063.6 | 1043.1 | 1011.3 | 979.1  | 959.0  | 938.9  | 941.0  | 942.7  |
| 15°    | 1008.0 | 955.7  | 903.0  | 864.1  | 851.1  | 826.4  | 801.8  | 776.7  | 751.2  | 740.7  | 729.8  |
| 17.5°  | 770.8  | 729.0  | 686.8  | 660.8  | 660.8  | 653.7  | 646.6  | 634.1  | 621.1  | 610.6  | 599.8  |
| 20°    | 565.0  | 542.9  | 520.3  | 509.4  | 512.8  | 513.2  | 513.2  | 519.5  | 525.7  | 522.4  | 519.0  |
| 22.5°  | 467.6  | 459.6  | 451.7  | 447.1  | 448.8  | 449.2  | 449.6  | 455.5  | 460.9  | 465.1  | 468.8  |
| 25°    | 422.0  | 417.0  | 412.0  | 410.3  | 414.1  | 414.5  | 414.5  | 418.2  | 422.0  | 426.2  | 430.4  |
| 27.5°  | 386.5  | 384.4  | 382.3  | 379.3  | 383.1  | 383.1  | 382.7  | 386.9  | 390.6  | 394.4  | 397.7  |
| 30°    | 352.6  | 353.4  | 353.8  | 353.0  | 355.5  | 357.2  | 358.4  | 361.4  | 363.9  | 366.8  | 369.7  |
| 32.5°  | 328.7  | 327.5  | 326.2  | 325.4  | 330.8  | 333.8  | 336.7  | 339.6  | 342.1  | 343.4  | 344.6  |
| 35°    | 305.7  | 302.8  | 299.9  | 297.8  | 302.8  | 306.6  | 310.3  | 315.8  | 320.8  | 321.6  | 322.5  |
| 37.5°  | 290.3  | 286.5  | 282.7  | 280.2  | 282.3  | 284.0  | 285.7  | 291.5  | 297.4  | 300.7  | 303.6  |
| 40°    | 275.6  | 271.9  | 268.1  | 266.0  | 267.3  | 267.7  | 268.1  | 271.0  | 273.5  | 279.8  | 285.7  |
| 42.5°  | 263.9  | 259.3  | 254.7  | 252.2  | 253.0  | 253.9  | 254.3  | 253.9  | 253.5  | 259.3  | 265.2  |
| 45°    | 252.2  | 247.2  | 242.2  | 239.2  | 239.7  | 239.7  | 239.7  | 238.8  | 237.6  | 240.5  | 243.4  |
| 47.5°  | 243.0  | 237.1  | 231.3  | 228.4  | 227.5  | 226.7  | 225.8  | 225.4  | 224.6  | 226.7  | 228.4  |
| 50°    | 233.8  | 227.5  | 220.8  | 217.5  | 215.4  | 214.6  | 213.7  | 213.3  | 212.5  | 214.6  | 216.2  |
| 52.5°  | 226.7  | 219.2  | 211.6  | 206.2  | 204.1  | 202.8  | 201.6  | 202.0  | 202.0  | 202.8  | 203.3  |
| 55°    | 214.1  | 207.4  | 200.3  | 196.6  | 192.8  | 192.0  | 191.1  | 192.4  | 193.2  | 193.2  | 193.2  |
| 57.5°  | 200.3  | 194.1  | 187.4  | 184.9  | 181.5  | 181.5  | 181.1  | 182.8  | 184.0  | 184.9  | 185.7  |
| 60°    | 188.2  | 181.1  | 174.0  | 171.9  | 170.6  | 170.2  | 169.8  | 171.9  | 173.6  | 175.2  | 176.9  |
| 62.5°  | 176.9  | 169.4  | 161.9  | 159.3  | 158.9  | 159.3  | 159.3  | 161.4  | 163.1  | 164.8  | 166.5  |
| 65°    | 164.4  | 156.8  | 148.9  | 146.4  | 147.2  | 148.5  | 149.7  | 151.4  | 152.7  | 154.3  | 156.0  |
| 67.5°  | 150.6  | 144.3  | 137.6  | 135.1  | 135.5  | 137.2  | 138.9  | 140.1  | 140.9  | 142.6  | 144.3  |
| 70°    | 135.5  | 130.1  | 124.6  | 123.0  | 122.5  | 124.6  | 126.3  | 127.1  | 128.0  | 130.1  | 131.7  |
| 72.5°  | 119.2  | 114.6  | 110.0  | 108.7  | 109.2  | 110.4  | 111.7  | 112.9  | 113.8  | 115.9  | 117.5  |
| 75°    | 102.5  | 98.3   | 94.1   | 93.3   | 94.1   | 95.4   | 96.6   | 97.5   | 98.3   | 100.8  | 102.9  |
| 77.5°  | 86.2   | 81.6   | 76.5   | 76.1   | 77.4   | 78.6   | 79.5   | 80.7   | 82.0   | 85.3   | 88.7   |
| 80°    | 69.0   | 64.0   | 58.6   | 58.1   | 59.4   | 60.6   | 61.9   | 63.2   | 64.4   | 68.6   | 72.4   |
| 82.5°  | 50.6   | 44.8   | 38.9   | 38.1   | 42.2   | 43.5   | 44.8   | 46.8   | 48.5   | 52.3   | 56.0   |
| 85°    | 30.5   | 24.7   | 18.8   | 18.4   | 22.2   | 24.3   | 26.3   | 28.9   | 30.9   | 34.3   | 37.6   |
| 87.5°  | 3.3    | 1.7    | 0.0    | 0.0    | 0.4    | 2.1    | 3.8    | 5.9    | 7.9    | 11.3   | 14.2   |
| 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):**

|        | 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°     | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 |
| 2.5°   | 2679.2 | 2660.4 | 2679.7 | 2698.5 | 2706.4 | 2714.4 | 2693.9 | 2673.0 | 2705.6 | 2737.8 | 2746.2 |
| 5°     | 2194.9 | 2177.8 | 2190.7 | 2203.3 | 2175.3 | 2147.2 | 2144.3 | 2141.0 | 2165.2 | 2189.5 | 2193.3 |
| 7.5°   | 1701.4 | 1696.0 | 1708.1 | 1720.2 | 1684.7 | 1648.7 | 1631.1 | 1613.6 | 1619.4 | 1625.3 | 1624.4 |
| 10°    | 1268.5 | 1271.9 | 1286.9 | 1301.6 | 1274.0 | 1246.4 | 1234.2 | 1222.1 | 1235.5 | 1248.4 | 1260.6 |
| 12.5°  | 950.2  | 957.4  | 973.2  | 988.7  | 977.4  | 965.7  | 967.0  | 968.2  | 983.7  | 998.8  | 1012.1 |
| 15°    | 738.2  | 746.6  | 757.9  | 768.7  | 769.1  | 769.1  | 780.0  | 790.5  | 789.2  | 788.0  | 797.2  |
| 17.5°  | 611.0  | 621.9  | 623.2  | 624.4  | 624.9  | 625.3  | 624.4  | 623.6  | 617.3  | 611.0  | 618.2  |
| 20°    | 523.2  | 527.0  | 530.3  | 533.3  | 529.5  | 525.3  | 514.9  | 504.4  | 500.2  | 496.0  | 502.7  |
| 22.5°  | 476.0  | 482.6  | 479.3  | 475.5  | 468.0  | 460.1  | 452.1  | 443.8  | 443.3  | 442.5  | 446.3  |
| 25°    | 436.2  | 441.7  | 435.8  | 430.0  | 424.5  | 419.1  | 413.6  | 408.2  | 407.8  | 407.4  | 409.0  |
| 27.5°  | 403.2  | 408.2  | 402.8  | 397.3  | 392.7  | 388.1  | 383.9  | 379.8  | 378.9  | 378.1  | 378.5  |
| 30°    | 374.7  | 379.3  | 374.7  | 369.7  | 366.4  | 362.6  | 359.7  | 356.8  | 356.3  | 355.9  | 355.9  |
| 32.5°  | 349.2  | 353.8  | 350.5  | 347.1  | 344.2  | 341.3  | 339.2  | 337.1  | 335.0  | 332.9  | 328.3  |
| 35°    | 327.1  | 331.7  | 329.6  | 327.1  | 323.7  | 320.4  | 316.6  | 312.4  | 307.0  | 301.1  | 298.6  |
| 37.5°  | 308.2  | 312.8  | 310.8  | 308.7  | 304.1  | 299.5  | 292.8  | 285.7  | 284.0  | 281.9  | 281.5  |
| 40°    | 293.2  | 300.3  | 296.1  | 291.5  | 284.4  | 277.3  | 273.9  | 270.6  | 269.8  | 268.9  | 268.1  |
| 42.5°  | 276.5  | 287.3  | 279.8  | 272.3  | 265.6  | 258.9  | 258.1  | 257.2  | 256.8  | 256.4  | 256.4  |
| 45°    | 255.5  | 267.3  | 259.7  | 251.8  | 248.0  | 244.3  | 244.3  | 244.3  | 244.7  | 244.7  | 245.5  |
| 47.5°  | 235.9  | 243.0  | 239.2  | 235.5  | 233.4  | 231.3  | 231.7  | 232.1  | 233.4  | 234.2  | 236.3  |
| 50°    | 219.2  | 221.7  | 222.5  | 222.9  | 221.7  | 220.4  | 221.2  | 221.7  | 222.9  | 223.8  | 225.4  |
| 52.5°  | 207.0  | 210.8  | 210.8  | 210.4  | 210.4  | 210.4  | 211.2  | 212.0  | 213.3  | 214.6  | 216.2  |
| 55°    | 199.1  | 204.5  | 202.8  | 201.2  | 201.6  | 201.6  | 202.4  | 203.3  | 204.5  | 205.4  | 207.9  |
| 57.5°  | 191.6  | 197.4  | 195.7  | 194.1  | 194.1  | 194.1  | 194.5  | 194.9  | 196.2  | 197.0  | 198.7  |
| 60°    | 182.8  | 188.6  | 187.0  | 184.9  | 185.3  | 185.7  | 186.1  | 186.1  | 187.0  | 187.4  | 187.4  |
| 62.5°  | 172.3  | 178.2  | 176.5  | 174.4  | 175.7  | 176.5  | 176.5  | 176.5  | 177.3  | 177.8  | 176.5  |
| 65°    | 161.4  | 166.9  | 165.2  | 163.5  | 165.2  | 166.5  | 167.3  | 167.7  | 167.3  | 166.9  | 165.6  |
| 67.5°  | 149.7  | 155.2  | 153.5  | 151.4  | 153.5  | 155.2  | 156.8  | 158.1  | 156.8  | 155.6  | 153.9  |
| 70°    | 137.2  | 142.6  | 140.5  | 138.4  | 140.5  | 142.6  | 144.3  | 146.0  | 144.3  | 142.6  | 142.2  |
| 72.5°  | 123.8  | 130.1  | 127.6  | 125.1  | 127.6  | 130.1  | 130.9  | 131.7  | 130.5  | 129.2  | 128.4  |
| 75°    | 109.2  | 115.4  | 113.3  | 110.8  | 112.9  | 115.0  | 115.4  | 115.9  | 115.9  | 115.4  | 112.9  |
| 77.5°  | 93.7   | 98.7   | 97.5   | 96.2   | 97.5   | 98.7   | 98.7   | 98.7   | 99.1   | 99.1   | 95.8   |
| 80°    | 75.3   | 78.2   | 78.6   | 79.0   | 79.5   | 79.9   | 79.5   | 79.0   | 78.2   | 77.4   | 75.3   |
| 82.5°  | 56.0   | 56.0   | 59.4   | 62.3   | 62.3   | 61.9   | 61.5   | 60.6   | 59.0   | 56.9   | 52.3   |
| 85°    | 35.6   | 33.5   | 38.9   | 43.9   | 43.9   | 43.5   | 42.7   | 41.4   | 38.1   | 34.3   | 30.5   |
| 87.5°  | 12.1   | 10.0   | 15.5   | 20.9   | 21.3   | 21.3   | 20.5   | 19.7   | 16.3   | 12.5   | 9.6    |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|        | 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°     | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 |
| 2.5°   | 2758.7 | 2764.2 | 2769.2 | 2810.2 | 2850.7 | 2898.4 | 2946.1 | 2982.5 | 3018.4 | 3055.7 | 3092.9 |
| 5°     | 2206.2 | 2212.9 | 2219.6 | 2269.4 | 2318.7 | 2385.2 | 2451.7 | 2509.0 | 2566.3 | 2633.7 | 2701.0 |
| 7.5°   | 1635.3 | 1650.0 | 1664.2 | 1717.3 | 1770.0 | 1841.5 | 1912.6 | 1987.5 | 2061.9 | 2149.8 | 2237.6 |
| 10°    | 1284.4 | 1312.0 | 1339.2 | 1393.6 | 1447.9 | 1518.6 | 1588.9 | 1667.1 | 1745.3 | 1831.9 | 1918.1 |
| 12.5°  | 1039.7 | 1076.6 | 1112.9 | 1178.2 | 1243.4 | 1327.9 | 1412.0 | 1499.0 | 1585.5 | 1661.7 | 1737.8 |
| 15°    | 821.4  | 861.6  | 901.3  | 970.3  | 1039.3 | 1132.2 | 1224.6 | 1319.5 | 1414.1 | 1505.2 | 1596.4 |
| 17.5°  | 640.7  | 673.8  | 706.4  | 765.0  | 823.1  | 913.0  | 1002.9 | 1102.5 | 1202.0 | 1313.3 | 1424.1 |
| 20°    | 516.9  | 530.7  | 544.5  | 586.8  | 628.6  | 701.8  | 774.6  | 876.2  | 977.8  | 1110.8 | 1243.8 |
| 22.5°  | 453.0  | 460.1  | 466.8  | 487.3  | 507.3  | 554.6  | 601.4  | 691.4  | 780.9  | 926.0  | 1070.7 |
| 25°    | 414.5  | 419.9  | 425.4  | 438.7  | 452.1  | 474.7  | 497.3  | 560.4  | 623.6  | 766.2  | 908.4  |
| 27.5°  | 379.8  | 388.1  | 396.1  | 402.3  | 408.2  | 423.7  | 438.7  | 480.1  | 521.5  | 654.5  | 787.1  |
| 30°    | 354.7  | 357.6  | 360.5  | 370.1  | 379.3  | 395.2  | 411.1  | 440.0  | 468.8  | 581.4  | 693.4  |
| 32.5°  | 325.4  | 329.6  | 333.8  | 343.8  | 353.8  | 368.5  | 383.1  | 406.5  | 429.5  | 525.7  | 621.5  |
| 35°    | 299.0  | 303.2  | 307.4  | 317.4  | 327.1  | 343.0  | 358.4  | 378.1  | 397.3  | 481.0  | 564.6  |
| 37.5°  | 282.7  | 286.9  | 291.1  | 299.9  | 308.2  | 324.1  | 339.6  | 355.1  | 370.1  | 447.5  | 524.9  |
| 40°    | 268.9  | 273.1  | 277.3  | 285.7  | 293.6  | 309.1  | 324.1  | 337.1  | 350.1  | 422.4  | 494.8  |
| 42.5°  | 256.8  | 261.4  | 266.0  | 274.4  | 282.3  | 296.1  | 309.9  | 327.1  | 343.8  | 400.7  | 457.1  |
| 45°    | 246.8  | 251.4  | 255.5  | 264.7  | 273.9  | 287.3  | 300.7  | 324.6  | 348.4  | 389.4  | 430.4  |
| 47.5°  | 237.6  | 242.6  | 247.2  | 257.2  | 267.3  | 284.0  | 300.3  | 320.4  | 340.0  | 380.6  | 421.2  |
| 50°    | 228.8  | 234.6  | 240.5  | 252.6  | 264.3  | 292.4  | 320.0  | 322.9  | 325.4  | 373.5  | 421.2  |
| 52.5°  | 220.4  | 227.1  | 233.8  | 248.9  | 263.5  | 296.1  | 328.7  | 318.3  | 307.4  | 360.1  | 412.8  |
| 55°    | 212.0  | 217.9  | 223.3  | 241.7  | 260.1  | 284.0  | 307.8  | 294.0  | 279.8  | 335.0  | 390.2  |
| 57.5°  | 200.8  | 207.0  | 212.9  | 232.5  | 252.2  | 268.9  | 285.2  | 272.7  | 259.7  | 306.6  | 353.0  |
| 60°    | 189.0  | 196.2  | 203.3  | 228.4  | 253.0  | 250.1  | 246.8  | 244.3  | 241.3  | 274.8  | 308.2  |
| 62.5°  | 178.6  | 186.1  | 193.6  | 226.3  | 258.9  | 238.8  | 218.7  | 220.8  | 222.5  | 247.2  | 271.9  |
| 65°    | 168.1  | 175.7  | 182.8  | 199.1  | 215.4  | 207.4  | 199.5  | 202.8  | 205.8  | 230.0  | 254.3  |
| 67.5°  | 156.4  | 163.1  | 169.4  | 174.8  | 180.3  | 181.1  | 181.9  | 185.3  | 188.6  | 217.5  | 245.9  |
| 70°    | 143.5  | 148.9  | 154.3  | 158.1  | 161.4  | 163.1  | 164.4  | 168.6  | 172.7  | 204.1  | 235.5  |
| 72.5°  | 128.8  | 133.4  | 137.6  | 140.9  | 144.3  | 145.5  | 146.4  | 150.6  | 154.7  | 188.2  | 221.7  |
| 75°    | 112.9  | 116.7  | 120.0  | 123.0  | 125.9  | 127.6  | 129.2  | 132.2  | 135.1  | 171.5  | 207.4  |
| 77.5°  | 95.4   | 99.1   | 102.5  | 105.0  | 107.1  | 108.7  | 110.0  | 113.8  | 117.5  | 148.1  | 178.2  |
| 80°    | 74.4   | 79.0   | 83.2   | 85.3   | 87.0   | 87.4   | 87.4   | 90.8   | 94.1   | 115.9  | 137.2  |
| 82.5°  | 52.7   | 57.7   | 62.3   | 64.0   | 65.7   | 65.7   | 65.7   | 69.4   | 73.2   | 87.8   | 102.1  |
| 85°    | 30.9   | 36.4   | 41.4   | 43.1   | 44.8   | 45.6   | 46.0   | 47.7   | 48.9   | 59.4   | 69.4   |
| 87.5°  | 9.6    | 14.2   | 18.4   | 19.2   | 20.1   | 21.7   | 23.4   | 23.8   | 23.8   | 30.9   | 38.1   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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CATALOG NUMBER: GWC-SA2D-722-U-SLL

**CANDELA DISTRIBUTION (continued):**

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

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**CANDELA DISTRIBUTION (continued):**

|        | 330°   | 335°   | 340°   | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 | 3187.0 |
| 2.5°   | 3135.5 | 3178.2 | 3228.0 | 3277.3 | 3319.6 | 3361.8 | 3396.9 |
| 5°     | 2786.7 | 2872.5 | 2977.5 | 3082.0 | 3175.3 | 3268.5 | 3376.9 |
| 7.5°   | 2348.4 | 2459.3 | 2595.2 | 2731.1 | 2862.9 | 2994.2 | 3160.6 |
| 10°    | 2031.0 | 2143.5 | 2287.4 | 2430.8 | 2578.9 | 2726.5 | 2914.7 |
| 12.5°  | 1829.4 | 1920.6 | 2059.8 | 2199.1 | 2373.1 | 2546.7 | 2727.8 |
| 15°    | 1696.4 | 1795.9 | 1931.4 | 2066.9 | 2257.2 | 2447.5 | 2655.8 |
| 17.5°  | 1554.6 | 1684.7 | 1858.2 | 2031.8 | 2257.2 | 2482.3 | 2727.8 |
| 20°    | 1406.1 | 1568.0 | 1793.0 | 2018.0 | 2321.7 | 2624.9 | 2938.1 |
| 22.5°  | 1258.1 | 1445.4 | 1734.0 | 2022.2 | 2419.1 | 2815.6 | 3238.4 |
| 25°    | 1124.6 | 1340.9 | 1698.1 | 2054.8 | 2560.9 | 3066.5 | 3591.0 |
| 27.5°  | 1023.4 | 1259.3 | 1683.4 | 2107.1 | 2740.7 | 3374.4 | 3974.5 |
| 30°    | 933.5  | 1173.6 | 1665.9 | 2158.1 | 2913.9 | 3669.2 | 4274.4 |
| 32.5°  | 855.7  | 1089.9 | 1632.0 | 2173.6 | 3034.8 | 3895.9 | 4528.3 |
| 35°    | 794.7  | 1024.7 | 1575.1 | 2125.5 | 3110.5 | 4095.4 | 4792.6 |
| 37.5°  | 742.0  | 959.0  | 1510.3 | 2061.5 | 3177.8 | 4294.1 | 5090.0 |
| 40°    | 691.8  | 888.8  | 1454.6 | 2020.1 | 3270.6 | 4521.2 | 5404.1 |
| 42.5°  | 644.1  | 831.0  | 1409.9 | 1988.7 | 3356.8 | 4724.4 | 5678.9 |
| 45°    | 608.5  | 786.7  | 1370.2 | 1953.2 | 3412.4 | 4871.7 | 5885.9 |
| 47.5°  | 591.0  | 760.4  | 1348.8 | 1936.9 | 3468.1 | 4998.8 | 6057.8 |
| 50°    | 588.5  | 755.8  | 1373.1 | 1990.4 | 3588.5 | 5186.2 | 6254.4 |
| 52.5°  | 588.0  | 763.3  | 1442.9 | 2122.6 | 3812.3 | 5501.5 | 6467.3 |
| 55°    | 579.3  | 767.9  | 1526.2 | 2284.0 | 4112.6 | 5940.7 | 6849.9 |
| 57.5°  | 552.5  | 752.0  | 1611.9 | 2471.4 | 4430.0 | 6388.2 | 7281.1 |
| 60°    | 511.1  | 713.5  | 1682.6 | 2651.2 | 4643.3 | 6635.0 | 7447.2 |
| 62.5°  | 459.2  | 646.2  | 1706.0 | 2765.4 | 4637.5 | 6509.5 | 7279.9 |
| 65°    | 414.9  | 575.5  | 1629.0 | 2682.2 | 4402.8 | 6123.0 | 6949.1 |
| 67.5°  | 375.6  | 504.8  | 1436.7 | 2368.1 | 3980.8 | 5593.1 | 6528.3 |
| 70°    | 347.1  | 458.4  | 1188.6 | 1918.9 | 3452.6 | 4985.8 | 6041.1 |
| 72.5°  | 329.2  | 436.2  | 969.1  | 1501.5 | 2801.8 | 4101.7 | 5167.4 |
| 75°    | 304.5  | 401.5  | 760.4  | 1118.8 | 2144.3 | 3169.8 | 3903.0 |
| 77.5°  | 258.5  | 338.4  | 573.0  | 807.6  | 1573.4 | 2338.8 | 2714.4 |
| 80°    | 199.5  | 261.4  | 394.0  | 526.6  | 1082.8 | 1639.1 | 1850.7 |
| 82.5°  | 142.2  | 182.4  | 238.8  | 295.3  | 719.4  | 1143.1 | 1160.6 |
| 85°    | 87.8   | 106.2  | 136.8  | 167.3  | 476.0  | 784.6  | 653.7  |
| 87.5°  | 47.3   | 56.5   | 72.4   | 87.8   | 152.2  | 216.6  | 124.6  |
| 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: P386979

CATALOG NUMBER: GWC-SA2D-722-U-SLL

**CANDELA DISTRIBUTION (continued):**

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

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

Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

STREETWORKS

Report Number: SP1-2101-121-4

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

Test Date: 03/03/2021

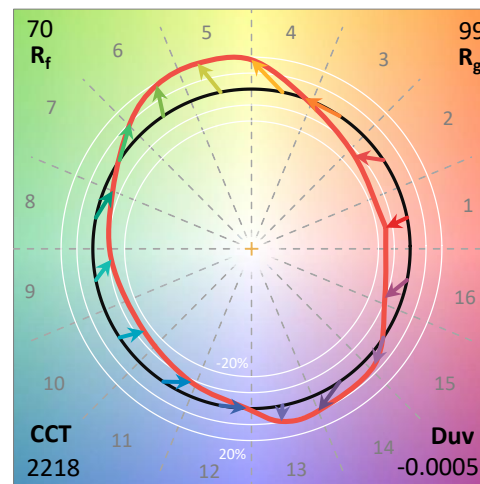
### Test Information

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

PROGRAMMED @ 800mA.

### Spectral Parameters

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



### Test Conditions

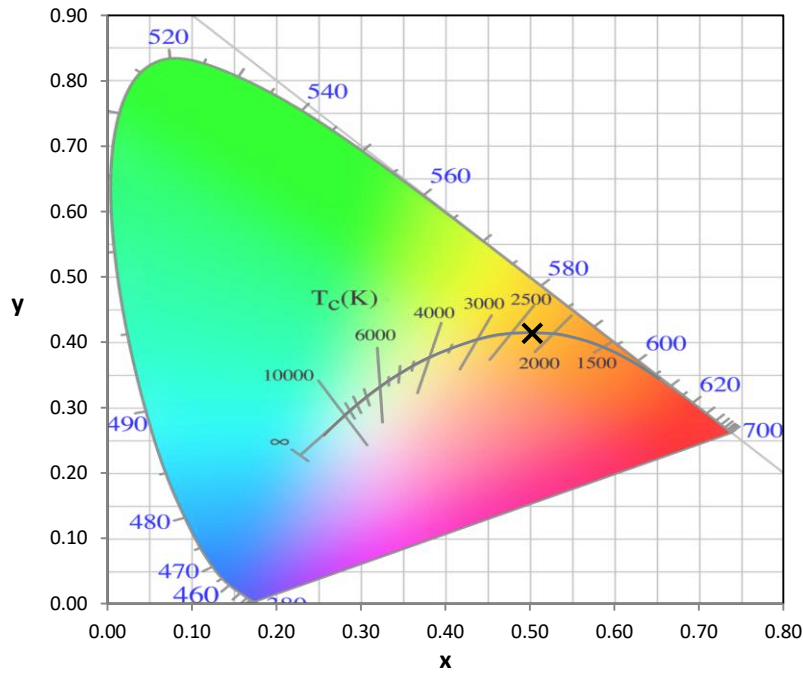
Stabilization Time: 95M  
 Operation Time: 12H  
 Room Temperature (°C) / RH%: 25.3/31%  
 Sphere Temperature (°C): 24.8

REPORT NUMBER: SP1-2101-121-4

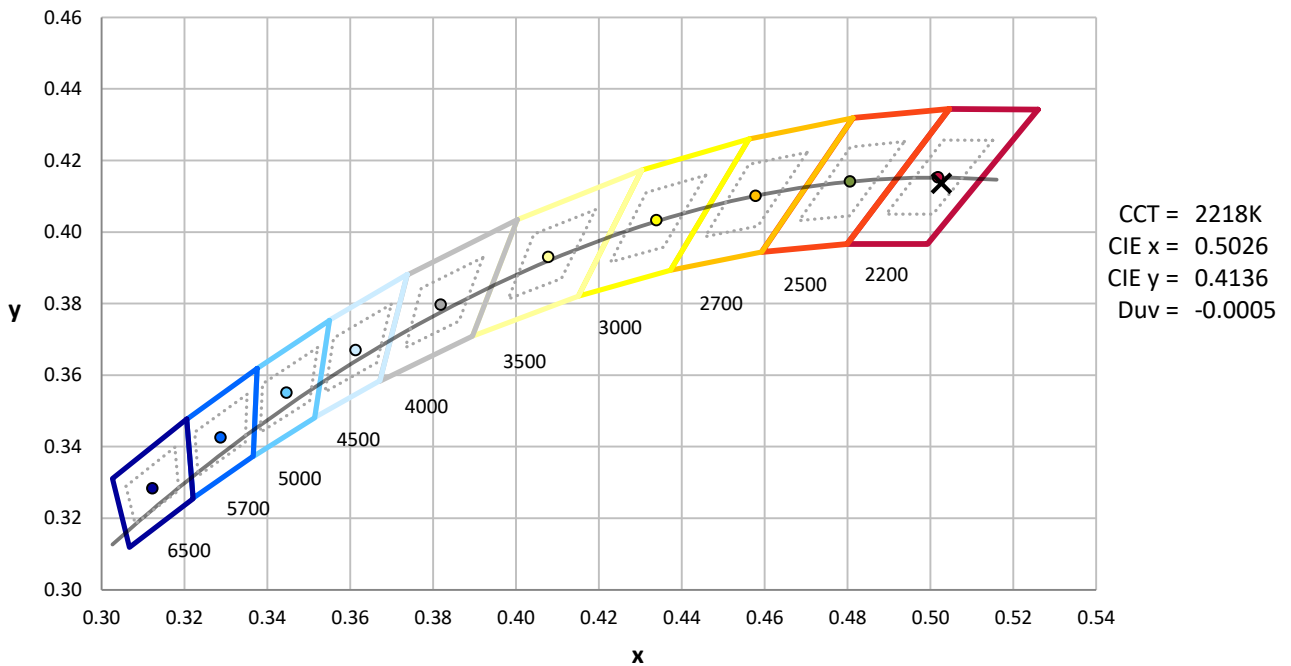
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date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

REPORT NUMBER: SP1-2101-121-4

**CIE 1931 Chromaticity Diagram**



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

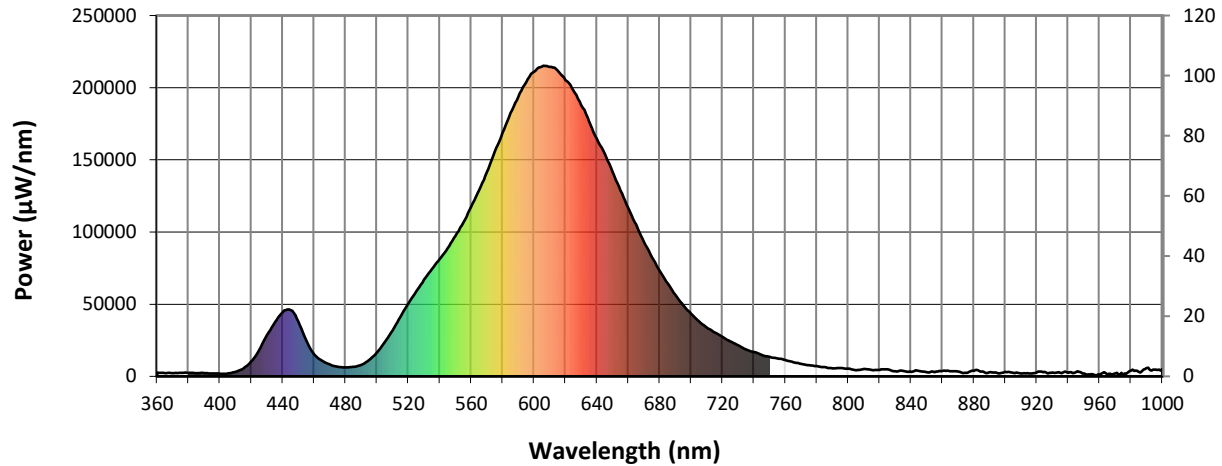


Point lies inside the ANSI 2200K 4-step quadrangle



REPORT NUMBER: SP1-2101-121-4

### Photopic Flux vs. Wavelength

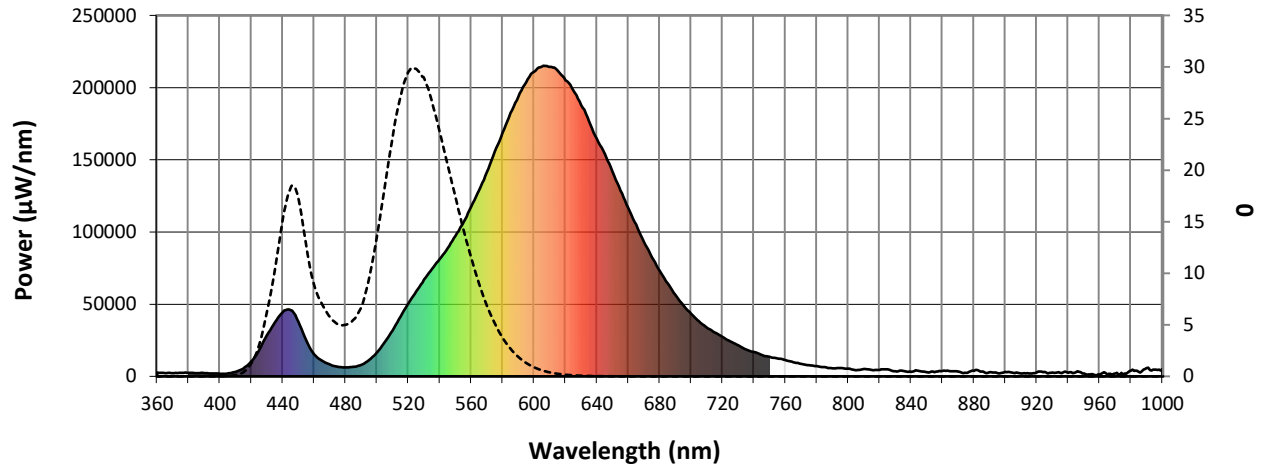


#####

| λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) |
|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|
| 360       | 2623             | 0.0              | 490       | 7941             | 1.1              | 620       | 205150           | 53.4             | 750       | 13431            | 0.0              | 880       | 3867             | 0.0              |
| 365       | 2260             | 0.0              | 495       | 11299            | 2.0              | 625       | 198277           | 43.7             | 755       | 12426            | 0.0              | 885       | 3345             | 0.0              |
| 370       | 2306             | 0.0              | 500       | 16633            | 3.7              | 630       | 187878           | 34.0             | 760       | 11385            | 0.0              | 890       | 2956             | 0.0              |
| 375       | 2437             | 0.0              | 505       | 23672            | 6.6              | 635       | 176836           | 26.6             | 765       | 9797             | 0.0              | 895       | 2272             | 0.0              |
| 380       | 2473             | 0.0              | 510       | 32025            | 11.0             | 640       | 164455           | 19.7             | 770       | 8562             | 0.0              | 900       | 3003             | 0.0              |
| 385       | 2203             | 0.0              | 515       | 41295            | 17.1             | 645       | 154086           | 14.8             | 775       | 7810             | 0.0              | 905       | 2480             | 0.0              |
| 390       | 2262             | 0.0              | 520       | 50628            | 24.6             | 650       | 141592           | 10.3             | 780       | 7052             | 0.0              | 910       | 2068             | 0.0              |
| 395       | 2028             | 0.0              | 525       | 58836            | 31.6             | 655       | 128604           | 7.4              | 785       | 6345             | 0.0              | 915       | 2064             | 0.0              |
| 400       | 1806             | 0.0              | 530       | 67109            | 39.5             | 660       | 116713           | 4.9              | 790       | 5524             | 0.0              | 920       | 2581             | 0.0              |
| 405       | 1945             | 0.0              | 535       | 74404            | 46.1             | 665       | 104993           | 3.3              | 795       | 5788             | 0.0              | 925       | 3137             | 0.0              |
| 410       | 3199             | 0.0              | 540       | 81280            | 53.0             | 670       | 93149            | 2.0              | 800       | 5282             | 0.0              | 930       | 2747             | 0.0              |
| 415       | 5572             | 0.0              | 545       | 88806            | 59.1             | 675       | 82543            | 1.4              | 805       | 4258             | 0.0              | 935       | 2471             | 0.0              |
| 420       | 10322            | 0.0              | 550       | 97367            | 66.2             | 680       | 73089            | 0.8              | 810       | 5156             | 0.0              | 940       | 2339             | 0.0              |
| 425       | 18494            | 0.1              | 555       | 106598           | 72.8             | 685       | 64438            | 0.6              | 815       | 4391             | 0.0              | 945       | 2917             | 0.0              |
| 430       | 28541            | 0.2              | 560       | 117615           | 79.9             | 690       | 56546            | 0.3              | 820       | 4383             | 0.0              | 950       | 1966             | 0.0              |
| 435       | 37453            | 0.4              | 565       | 129103           | 85.8             | 695       | 49328            | 0.2              | 825       | 4881             | 0.0              | 955       | 1580             | 0.0              |
| 440       | 44455            | 0.7              | 570       | 141415           | 92.0             | 700       | 43493            | 0.1              | 830       | 3588             | 0.0              | 960       | 1318             | 0.0              |
| 445       | 45934            | 1.0              | 575       | 155854           | 97.0             | 705       | 38035            | 0.1              | 835       | 3835             | 0.0              | 965       | 1419             | 0.0              |
| 450       | 37926            | 1.0              | 580       | 168613           | 100.2            | 710       | 33716            | 0.0              | 840       | 3014             | 0.0              | 970       | 1917             | 0.0              |
| 455       | 24793            | 0.8              | 585       | 182390           | 101.3            | 715       | 30449            | 0.0              | 845       | 3765             | 0.0              | 975       | 1210             | 0.0              |
| 460       | 15340            | 0.6              | 590       | 194054           | 100.3            | 720       | 27240            | 0.0              | 850       | 2906             | 0.0              | 980       | 3915             | 0.0              |
| 465       | 10883            | 0.6              | 595       | 203639           | 96.5             | 725       | 24231            | 0.0              | 855       | 2947             | 0.0              | 985       | 3180             | 0.0              |
| 470       | 8138             | 0.5              | 600       | 211043           | 91.0             | 730       | 21490            | 0.0              | 860       | 3864             | 0.0              | 990       | 5676             | 0.0              |
| 475       | 6653             | 0.5              | 605       | 214591           | 83.1             | 735       | 18548            | 0.0              | 865       | 3546             | 0.0              | 995       | 4736             | 0.0              |
| 480       | 6220             | 0.6              | 610       | 214337           | 73.6             | 740       | 16963            | 0.0              | 870       | 3253             | 0.0              | 1000      | 5113             | 0.0              |
| 485       | 6613             | 0.8              | 615       | 211915           | 64.0             | 745       | 14922            | 0.0              | 875       | 2450             | 0.0              |           |                  |                  |

REPORT NUMBER: SP1-2101-121-4

### Scotopic Flux vs. Wavelength



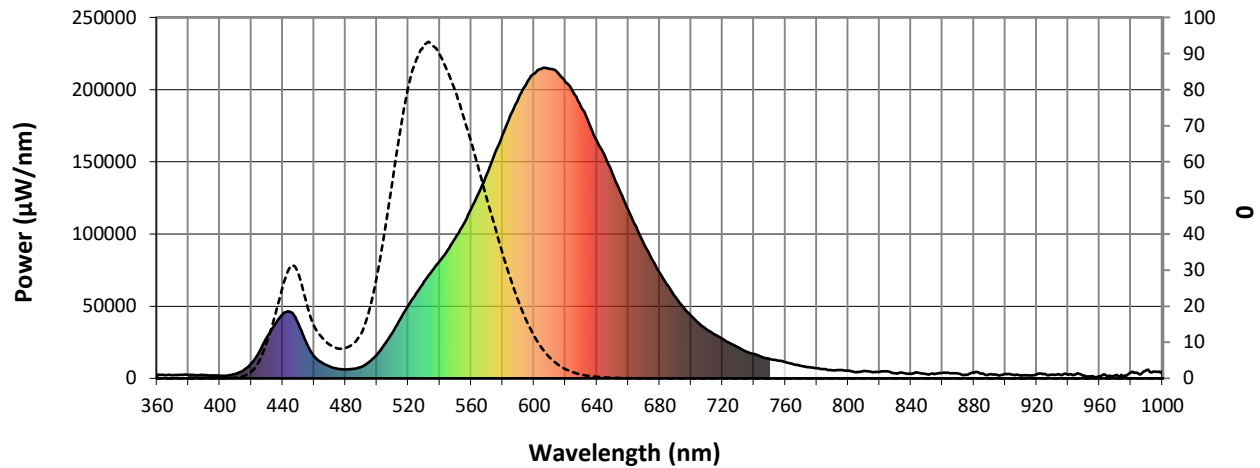
Scotopic Lumens: 7290.1

S/P: 0.84

| λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) |
|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|
| 360       | 2623             | 0.0              | 490       | 7941             | 12.2             | 620       | 205150           | 2.6              | 750       | 13431            | 0.0              | 880       | 3867             | 0.0              |
| 365       | 2260             | 0.0              | 495       | 11299            | 18.3             | 625       | 198277           | 1.7              | 755       | 12426            | 0.0              | 885       | 3345             | 0.0              |
| 370       | 2306             | 0.0              | 500       | 16633            | 27.8             | 630       | 187878           | 1.1              | 760       | 11385            | 0.0              | 890       | 2956             | 0.0              |
| 375       | 2437             | 0.0              | 505       | 23672            | 40.2             | 635       | 176836           | 0.7              | 765       | 9797             | 0.0              | 895       | 2272             | 0.0              |
| 380       | 2473             | 0.0              | 510       | 32025            | 54.3             | 640       | 164455           | 0.4              | 770       | 8562             | 0.0              | 900       | 3003             | 0.0              |
| 385       | 2203             | 0.0              | 515       | 41295            | 68.4             | 645       | 154086           | 0.3              | 775       | 7810             | 0.0              | 905       | 2480             | 0.0              |
| 390       | 2262             | 0.0              | 520       | 50628            | 80.5             | 650       | 141592           | 0.2              | 780       | 7052             | 0.0              | 910       | 2068             | 0.0              |
| 395       | 2028             | 0.0              | 525       | 58836            | 88.0             | 655       | 128604           | 0.1              | 785       | 6345             | 0.0              | 915       | 2064             | 0.0              |
| 400       | 1806             | 0.0              | 530       | 67109            | 92.5             | 660       | 116713           | 0.1              | 790       | 5524             | 0.0              | 920       | 2581             | 0.0              |
| 405       | 1945             | 0.1              | 535       | 74404            | 92.7             | 665       | 104993           | 0.0              | 795       | 5788             | 0.0              | 925       | 3137             | 0.0              |
| 410       | 3199             | 0.2              | 540       | 81280            | 89.8             | 670       | 93149            | 0.0              | 800       | 5282             | 0.0              | 930       | 2747             | 0.0              |
| 415       | 5572             | 0.6              | 545       | 88806            | 85.1             | 675       | 82543            | 0.0              | 805       | 4258             | 0.0              | 935       | 2471             | 0.0              |
| 420       | 10322            | 1.7              | 550       | 97367            | 79.6             | 680       | 73089            | 0.0              | 810       | 5156             | 0.0              | 940       | 2339             | 0.0              |
| 425       | 18494            | 4.5              | 555       | 106598           | 72.8             | 685       | 64438            | 0.0              | 815       | 4391             | 0.0              | 945       | 2917             | 0.0              |
| 430       | 28541            | 9.7              | 560       | 117615           | 65.7             | 690       | 56546            | 0.0              | 820       | 4383             | 0.0              | 950       | 1966             | 0.0              |
| 435       | 37453            | 16.7             | 565       | 129103           | 57.9             | 695       | 49328            | 0.0              | 825       | 4881             | 0.0              | 955       | 1580             | 0.0              |
| 440       | 44455            | 24.8             | 570       | 141415           | 49.9             | 700       | 43493            | 0.0              | 830       | 3588             | 0.0              | 960       | 1318             | 0.0              |
| 445       | 45934            | 30.8             | 575       | 155854           | 42.4             | 705       | 38035            | 0.0              | 835       | 3835             | 0.0              | 965       | 1419             | 0.0              |
| 450       | 37926            | 29.4             | 580       | 168613           | 34.7             | 710       | 33716            | 0.0              | 840       | 3014             | 0.0              | 970       | 1917             | 0.0              |
| 455       | 24793            | 21.7             | 585       | 182390           | 27.9             | 715       | 30449            | 0.0              | 845       | 3765             | 0.0              | 975       | 1210             | 0.0              |
| 460       | 15340            | 14.8             | 590       | 194054           | 21.6             | 720       | 27240            | 0.0              | 850       | 2906             | 0.0              | 980       | 3915             | 0.0              |
| 465       | 10883            | 11.5             | 595       | 203639           | 16.2             | 725       | 24231            | 0.0              | 855       | 2947             | 0.0              | 985       | 3180             | 0.0              |
| 470       | 8138             | 9.4              | 600       | 211043           | 11.9             | 730       | 21490            | 0.0              | 860       | 3864             | 0.0              | 990       | 5676             | 0.0              |
| 475       | 6653             | 8.3              | 605       | 214591           | 8.4              | 735       | 18548            | 0.0              | 865       | 3546             | 0.0              | 995       | 4736             | 0.0              |
| 480       | 6220             | 8.4              | 610       | 214337           | 5.8              | 740       | 16963            | 0.0              | 870       | 3253             | 0.0              | 1000      | 5113             | 0.0              |
| 485       | 6613             | 9.6              | 615       | 211915           | 3.9              | 745       | 14922            | 0.0              | 875       | 2450             | 0.0              |           |                  |                  |

REPORT NUMBER: SP1-2101-121-4

### Melanopic Flux vs. Wavelength



**Melanopic Lumens: 2276.7**

**M/P: 0.26**

| λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) |
|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|
| 360       | 2623             | 0.0              | 490       | 7941             | 6.6              | 620       | 205150           | 0.2              | 750       | 13431            | 0.0              | 880       | 3867             | 0.0              |
| 365       | 2260             | 0.0              | 495       | 11299            | 9.3              | 625       | 198277           | 0.1              | 755       | 12426            | 0.0              | 885       | 3345             | 0.0              |
| 370       | 2306             | 0.0              | 500       | 16633            | 13.4             | 630       | 187878           | 0.1              | 760       | 11385            | 0.0              | 890       | 2956             | 0.0              |
| 375       | 2437             | 0.0              | 505       | 23672            | 18.2             | 635       | 176836           | 0.0              | 765       | 9797             | 0.0              | 895       | 2272             | 0.0              |
| 380       | 2473             | 0.0              | 510       | 32025            | 23.0             | 640       | 164455           | 0.0              | 770       | 8562             | 0.0              | 900       | 3003             | 0.0              |
| 385       | 2203             | 0.0              | 515       | 41295            | 27.0             | 645       | 154086           | 0.0              | 775       | 7810             | 0.0              | 905       | 2480             | 0.0              |
| 390       | 2262             | 0.0              | 520       | 50628            | 29.5             | 650       | 141592           | 0.0              | 780       | 7052             | 0.0              | 910       | 2068             | 0.0              |
| 395       | 2028             | 0.0              | 525       | 58836            | 29.8             | 655       | 128604           | 0.0              | 785       | 6345             | 0.0              | 915       | 2064             | 0.0              |
| 400       | 1806             | 0.0              | 530       | 67109            | 29.0             | 660       | 116713           | 0.0              | 790       | 5524             | 0.0              | 920       | 2581             | 0.0              |
| 405       | 1945             | 0.0              | 535       | 74404            | 26.8             | 665       | 104993           | 0.0              | 795       | 5788             | 0.0              | 925       | 3137             | 0.0              |
| 410       | 3199             | 0.1              | 540       | 81280            | 23.8             | 670       | 93149            | 0.0              | 800       | 5282             | 0.0              | 930       | 2747             | 0.0              |
| 415       | 5572             | 0.4              | 545       | 88806            | 20.6             | 675       | 82543            | 0.0              | 805       | 4258             | 0.0              | 935       | 2471             | 0.0              |
| 420       | 10322            | 1.2              | 550       | 97367            | 17.5             | 680       | 73089            | 0.0              | 810       | 5156             | 0.0              | 940       | 2339             | 0.0              |
| 425       | 18494            | 2.9              | 555       | 106598           | 14.4             | 685       | 64438            | 0.0              | 815       | 4391             | 0.0              | 945       | 2917             | 0.0              |
| 430       | 28541            | 6.0              | 560       | 117615           | 11.6             | 690       | 56546            | 0.0              | 820       | 4383             | 0.0              | 950       | 1966             | 0.0              |
| 435       | 37453            | 10.0             | 565       | 129103           | 9.1              | 695       | 49328            | 0.0              | 825       | 4881             | 0.0              | 955       | 1580             | 0.0              |
| 440       | 44455            | 14.9             | 570       | 141415           | 6.9              | 700       | 43493            | 0.0              | 830       | 3588             | 0.0              | 960       | 1318             | 0.0              |
| 445       | 45934            | 18.1             | 575       | 155854           | 5.2              | 705       | 38035            | 0.0              | 835       | 3835             | 0.0              | 965       | 1419             | 0.0              |
| 450       | 37926            | 17.5             | 580       | 168613           | 3.8              | 710       | 33716            | 0.0              | 840       | 3014             | 0.0              | 970       | 1917             | 0.0              |
| 455       | 24793            | 13.0             | 585       | 182390           | 2.7              | 715       | 30449            | 0.0              | 845       | 3765             | 0.0              | 975       | 1210             | 0.0              |
| 460       | 15340            | 9.0              | 590       | 194054           | 1.9              | 720       | 27240            | 0.0              | 850       | 2906             | 0.0              | 980       | 3915             | 0.0              |
| 465       | 10883            | 7.1              | 595       | 203639           | 1.3              | 725       | 24231            | 0.0              | 855       | 2947             | 0.0              | 985       | 3180             | 0.0              |
| 470       | 8138             | 5.8              | 600       | 211043           | 0.9              | 730       | 21490            | 0.0              | 860       | 3864             | 0.0              | 990       | 5676             | 0.0              |
| 475       | 6653             | 5.1              | 605       | 214591           | 0.6              | 735       | 18548            | 0.0              | 865       | 3546             | 0.0              | 995       | 4736             | 0.0              |
| 480       | 6220             | 5.0              | 610       | 214337           | 0.4              | 740       | 16963            | 0.0              | 870       | 3253             | 0.0              | 1000      | 5113             | 0.0              |
| 485       | 6613             | 5.5              | 615       | 211915           | 0.3              | 745       | 14922            | 0.0              | 875       | 2450             | 0.0              |           |                  |                  |

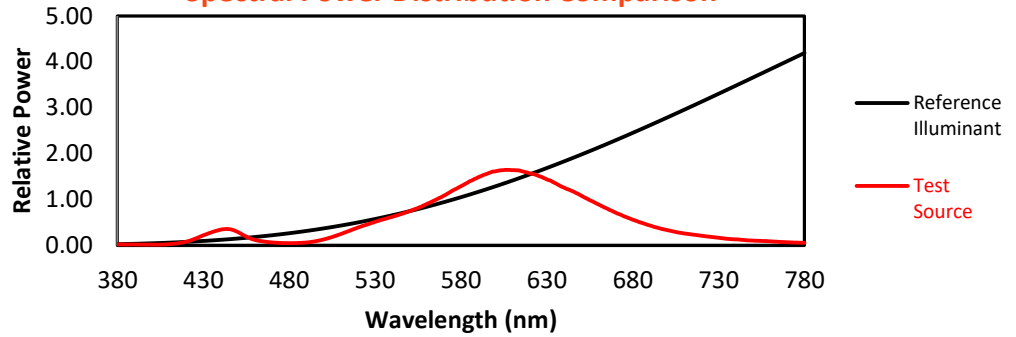
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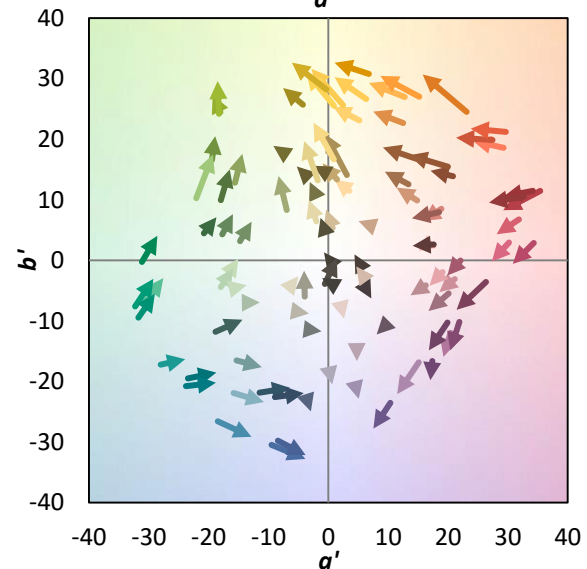
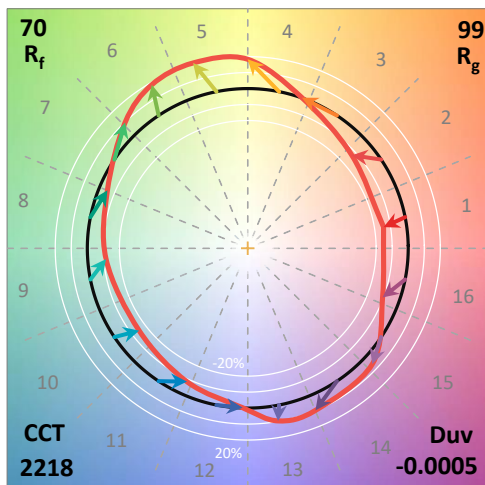
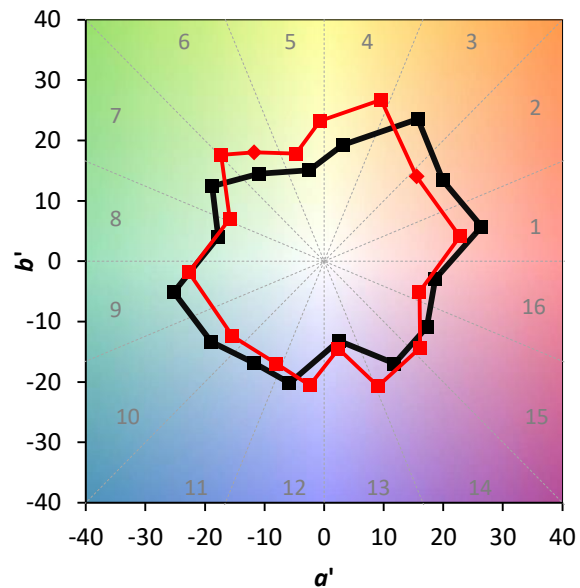
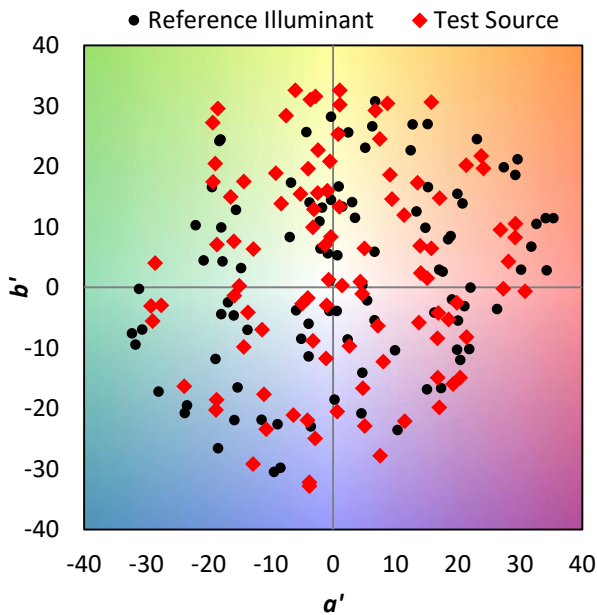
### Summary

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

### Spectral Power Distribution Comparison

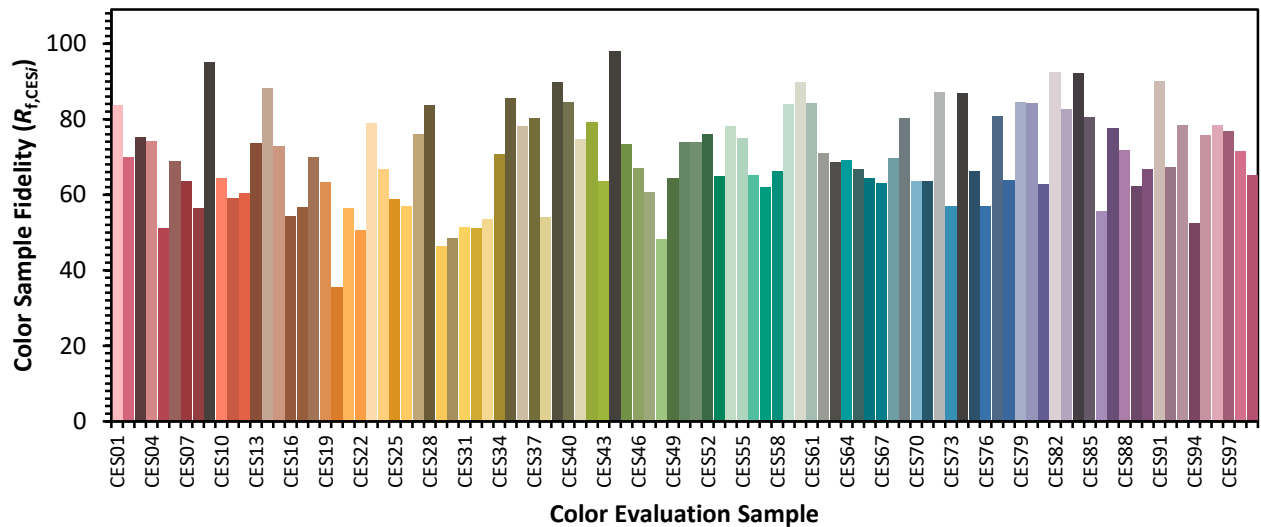


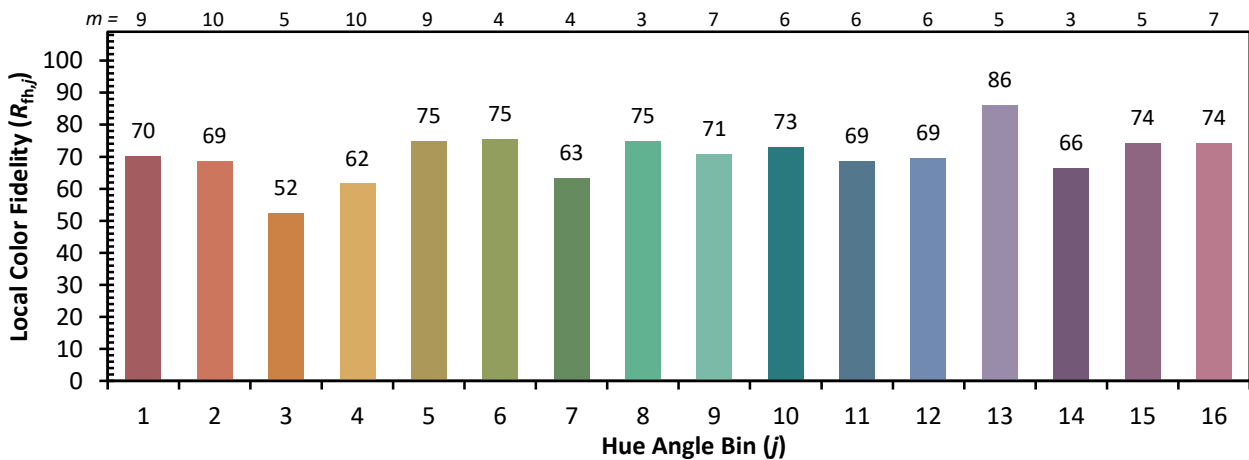
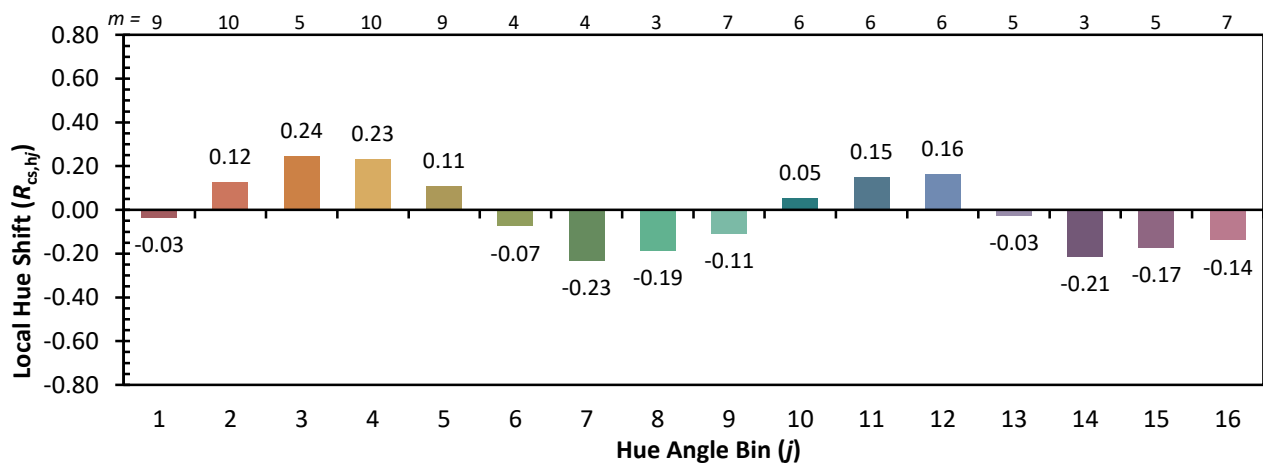
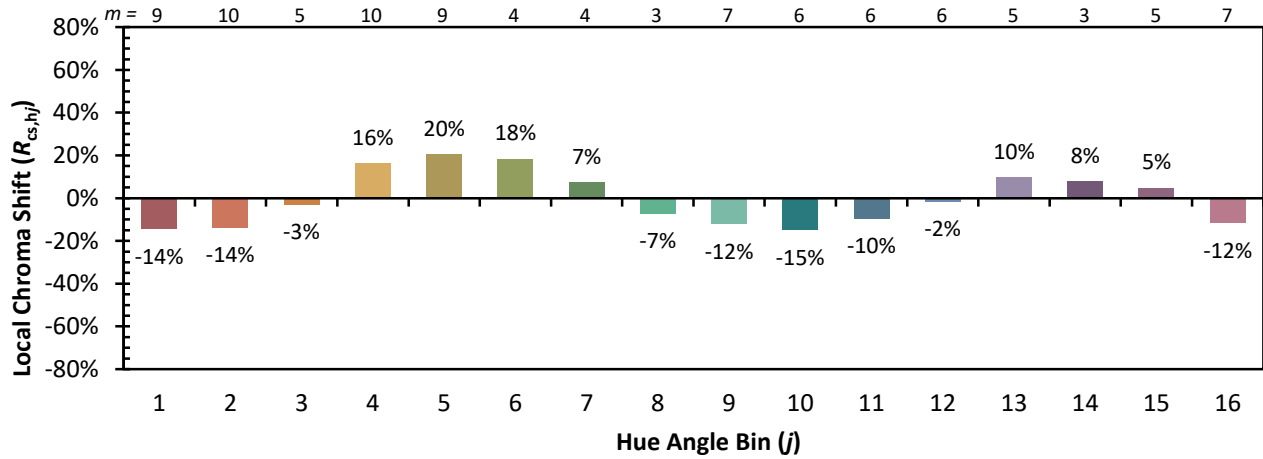
### Color Vector Graphics



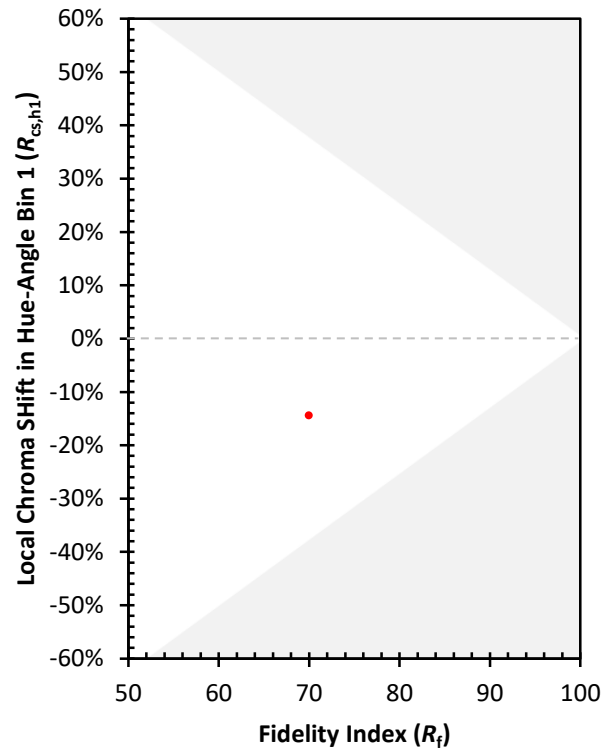
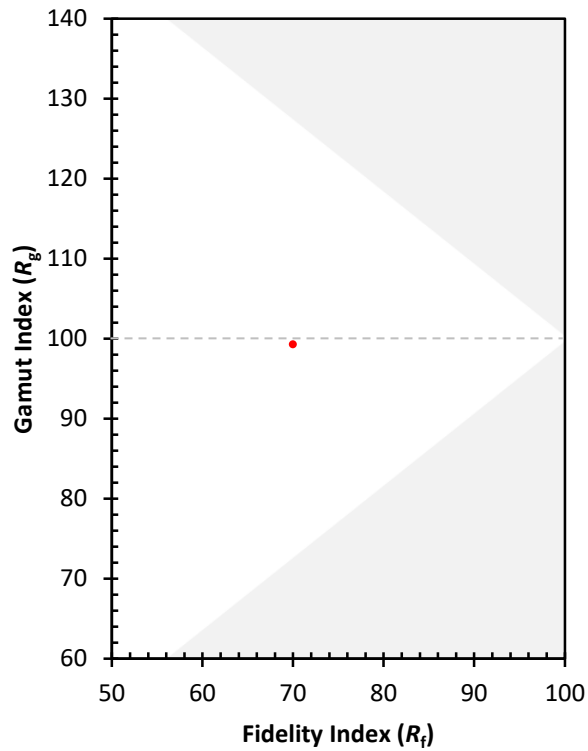
**Individual Sample Fidelity Index ( $R_{f,i}$ )**

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



**Color Rendition by Hue-Angle Bin**


**Measure Comparisons**



(END OF REPORT)