

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: STREETWORKS

Report Number: P1385702

Luminaire Tested: **VAL-T-SB2D-730-U-SLL**

Issue Date: 02/18/2026

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Report Generated By 670245763



**Test Information**

Test Method: LM-79-08  
 Report Number: P1385702  
 Test Lab: INNOVATION CENTER(G1)  
 Issue Date: 02/18/2026  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: VAL-T-SB2D-730-U-SLL  
 Description: GALLEON II WALL SLIM HIGH DENSITY LED ARRAYS 25 SQUARE 147W 70CRI  
 3000K FIXTURE w/ 90° Spill Light Eliminator LEFT OPTIC  
 Light Source: (52) 3000K CCT, 70 CRI LEDs  
 Ballast/Driver: ELECTRONIC DRIVER

| Luminaire Equipment: | Sample No. | Condition | Description |
|----------------------|------------|-----------|-------------|
|                      | a          | good      | reflector   |
|                      | b          | good      | lens        |
|                      | c          | good      | housing     |
|                      | d          | good      | cord        |

**Summary**

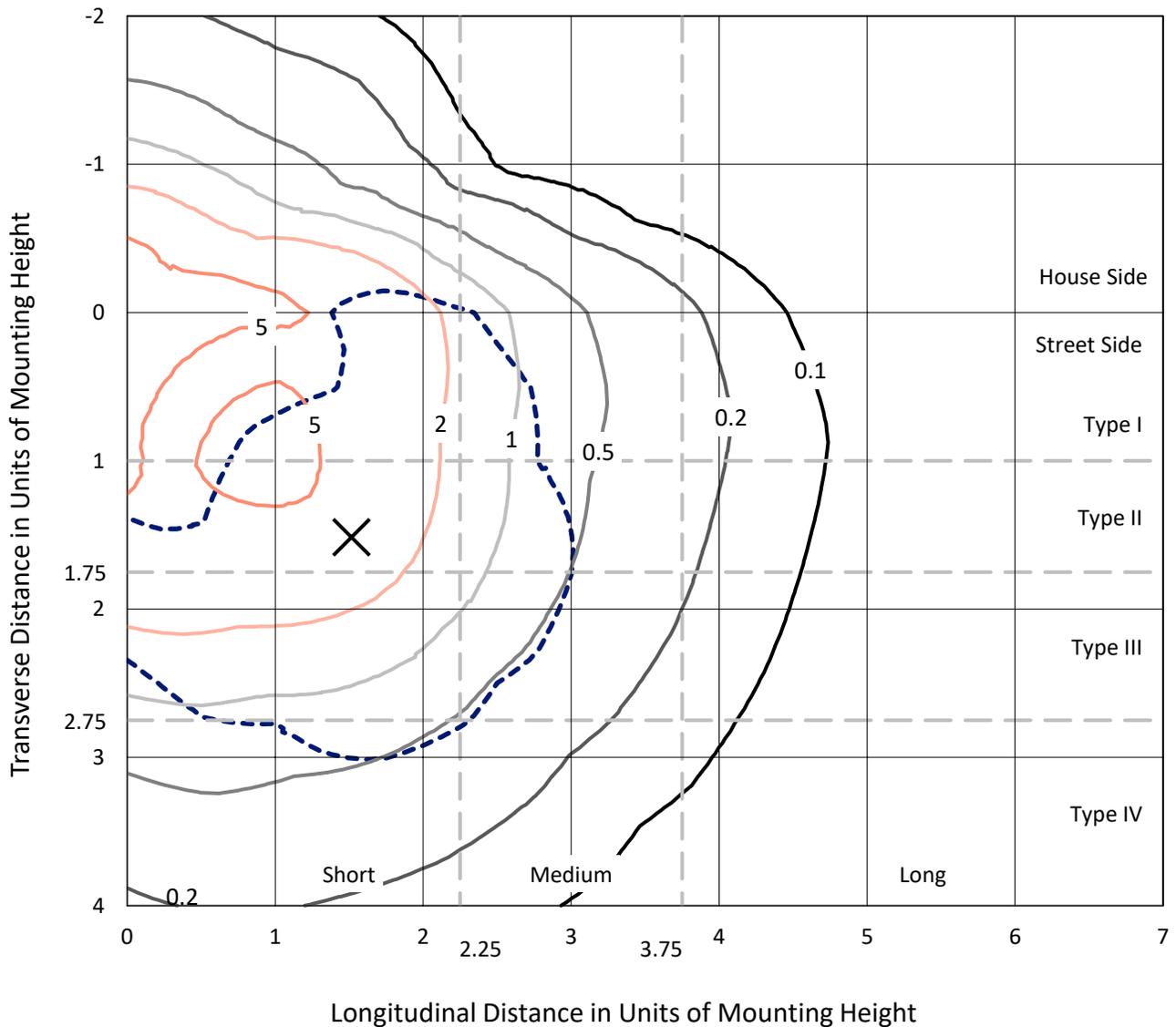
Lumens per Lamp: N/A  
 Luminaire Lumens: 18016.8 lumens  
 Efficiency: N/A  
 Efficacy: 122.6 lumens/watt  
 Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
 IES Classification: Type IV - Short  
 BUG Rating: B3 - U0 - G3

Input Watts (W): 147  
 Input Voltage (V): 120  
 Input Current (A<sub>in</sub>): NR  
 Voltage Rise (V): NR  
 Power Factor: 0.98  
 Total Harmonic Distortion (THDi): 3.1%  
 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

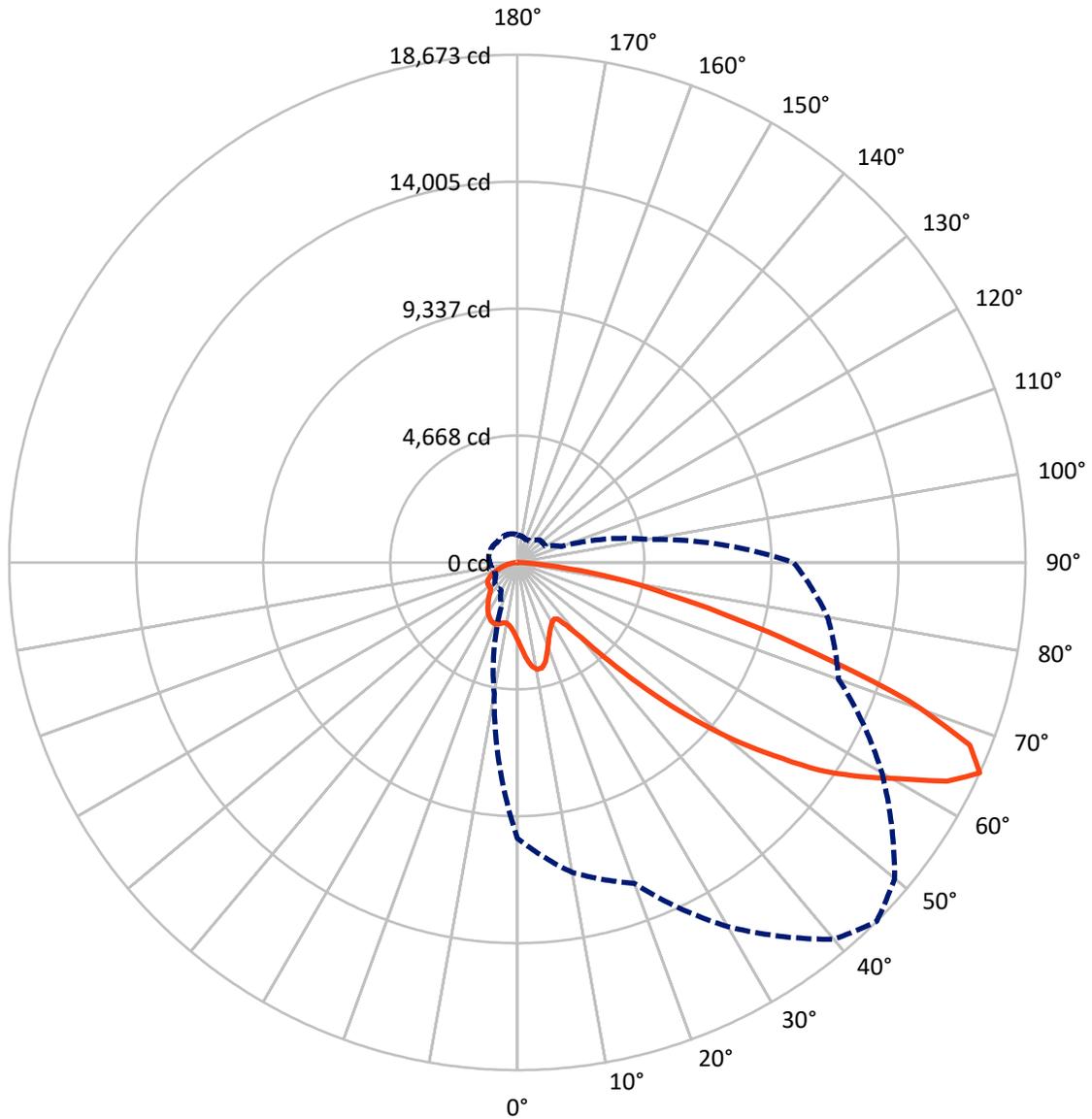
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4846.9   | 0.0    | 4846.9  |
|                    | % Fixture | 26.9     | 0.0    | 26.9    |
| <b>Street Side</b> | Lumens    | 13169.9  | 0.0    | 13169.9 |
|                    | % Fixture | 73.1     | 0.0    | 73.1    |
| <b>Total</b>       | Lumens    | 18016.8  | 0.0    | 18016.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 283.7   | 1.6       |
| 10°-20°   | 869.3   | 4.8       |
| 20°-30°   | 1345.4  | 7.5       |
| 30°-40°   | 1669.2  | 9.3       |
| 40°-50°   | 2440.9  | 13.5      |
| 50°-60°   | 3823.3  | 21.2      |
| 60°-70°   | 4536.6  | 25.2      |
| 70°-80°   | 2646.0  | 14.7      |
| 80°-90°   | 402.5   | 2.2       |
| 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°    | 18016.8 | 100.0     |
| 0°-180°   | 18016.8 | 100.0     |

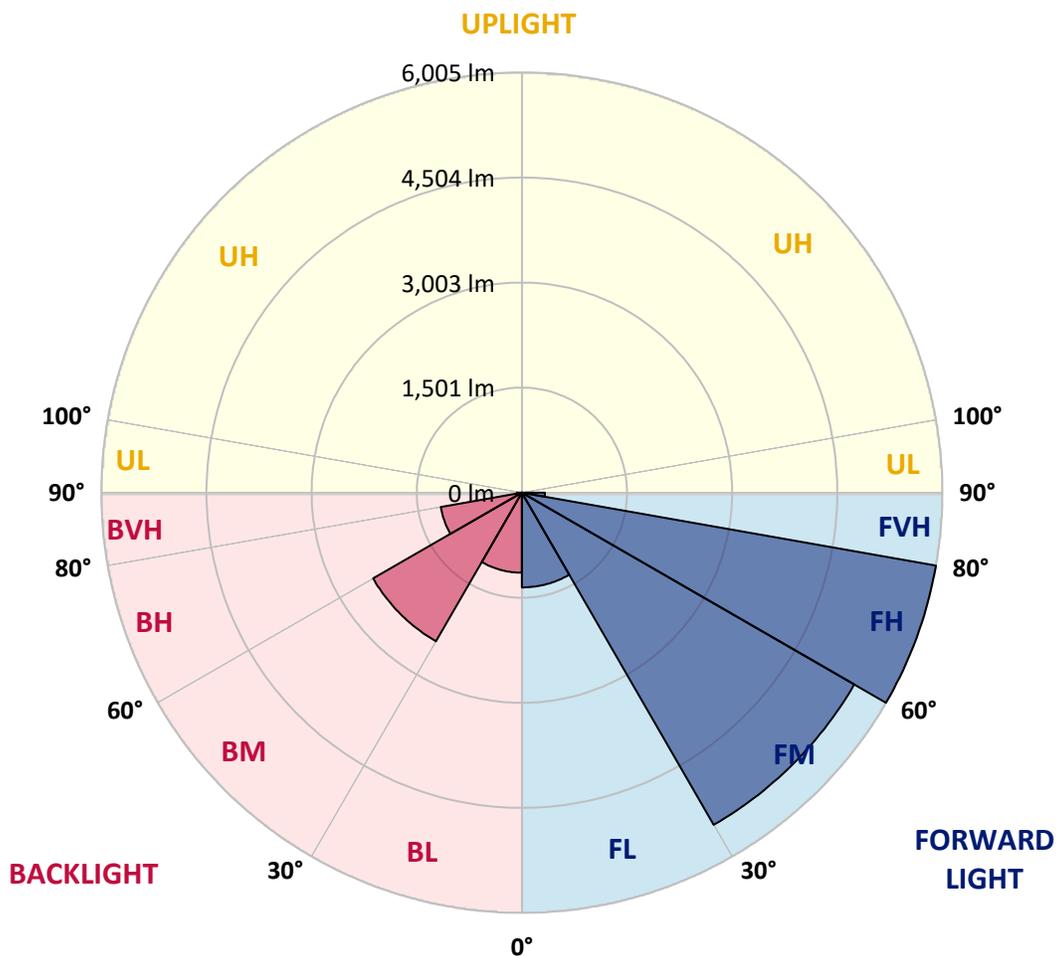


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1354.1 | 7.5       |                         |      |         |
| FM (30°-60°)   | 5481.1 | 30.4      |                         |      |         |
| FH (60°-80°)   | 6005.5 | 33.3      |                         |      | G3/7500 |
| FVH (80°-90°)  | 329.2  | 1.8       |                         |      | G3/500  |
| BL (0°-30°)    | 1144.2 | 6.4       | B3/2500                 |      |         |
| BM (30°-60°)   | 2452.3 | 13.6      | B2/2500                 |      |         |
| BH (60°-80°)   | 1177.1 | 6.5       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 73.3   | 0.4       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°     | 20°     | 25°     | 30°     | 35°     | 40°     | 45°     | 50°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2872.8  | 2872.8  | 2872.8  | 2872.8  | 2872.8  | 2872.8  | 2872.8  | 2872.8  | 2872.8  | 2872.8  | 2872.8  |
| 2.5°  | 3104.1  | 3115.2  | 3126.2  | 3138.1  | 3150.4  | 3157.4  | 3164.5  | 3172.0  | 3179.0  | 3185.6  | 3179.0  |
| 5°    | 3315.6  | 3365.4  | 3414.8  | 3448.3  | 3481.7  | 3507.3  | 3532.9  | 3547.4  | 3562.4  | 3564.6  | 3562.4  |
| 7.5°  | 3529.3  | 3588.4  | 3647.4  | 3698.5  | 3749.6  | 3782.2  | 3814.8  | 3833.8  | 3853.2  | 3859.8  | 3853.2  |
| 10°   | 3663.7  | 3732.9  | 3802.5  | 3851.9  | 3901.6  | 3932.1  | 3962.0  | 3977.0  | 3992.0  | 3996.4  | 3992.0  |
| 12.5° | 3732.0  | 3798.5  | 3865.1  | 3903.4  | 3941.3  | 3960.7  | 3979.6  | 3986.7  | 3992.9  | 3987.6  | 3992.9  |
| 15°   | 3765.1  | 3804.3  | 3843.0  | 3859.3  | 3875.2  | 3866.0  | 3856.3  | 3842.6  | 3828.9  | 3820.1  | 3828.9  |
| 17.5° | 3773.9  | 3787.5  | 3801.6  | 3772.1  | 3743.0  | 3690.2  | 3637.3  | 3597.6  | 3558.0  | 3529.3  | 3558.0  |
| 20°   | 3802.5  | 3780.5  | 3758.4  | 3680.0  | 3602.0  | 3502.9  | 3403.8  | 3337.2  | 3270.2  | 3229.7  | 3270.2  |
| 22.5° | 3833.4  | 3771.2  | 3709.1  | 3577.4  | 3445.6  | 3309.9  | 3174.6  | 3098.0  | 3021.7  | 2978.6  | 3021.7  |
| 25°   | 3881.8  | 3775.2  | 3668.1  | 3490.1  | 3312.5  | 3153.0  | 2994.0  | 2910.7  | 2827.9  | 2780.3  | 2827.9  |
| 27.5° | 3952.3  | 3789.3  | 3626.3  | 3406.0  | 3185.6  | 3012.9  | 2839.8  | 2760.5  | 2681.1  | 2639.3  | 2681.1  |
| 30°   | 4051.5  | 3835.1  | 3618.3  | 3354.8  | 3090.9  | 2910.3  | 2729.6  | 2652.1  | 2574.1  | 2529.1  | 2574.1  |
| 32.5° | 4172.6  | 3899.4  | 3626.3  | 3331.1  | 3035.8  | 2851.7  | 2667.9  | 2593.5  | 2519.4  | 2480.7  | 2519.4  |
| 35°   | 4377.5  | 4031.6  | 3685.7  | 3358.4  | 3031.4  | 2860.5  | 2690.0  | 2635.3  | 2581.1  | 2560.0  | 2581.1  |
| 37.5° | 4637.5  | 4233.4  | 3828.9  | 3491.9  | 3154.8  | 3038.5  | 2922.2  | 2922.2  | 2922.2  | 2938.9  | 2922.2  |
| 40°   | 5020.8  | 4567.0  | 4113.1  | 3794.1  | 3475.6  | 3468.5  | 3462.4  | 3536.4  | 3610.8  | 3643.9  | 3610.8  |
| 42.5° | 5558.4  | 5078.5  | 4599.1  | 4341.8  | 4084.5  | 4238.7  | 4392.9  | 4607.1  | 4821.2  | 4961.3  | 4821.2  |
| 45°   | 6225.9  | 5758.8  | 5291.8  | 5112.0  | 4932.7  | 5275.9  | 5618.7  | 5997.2  | 6375.7  | 6644.5  | 6375.7  |
| 47.5° | 6864.8  | 6471.8  | 6078.3  | 5975.6  | 5873.4  | 6444.0  | 7014.6  | 7569.3  | 8124.1  | 8451.0  | 8124.1  |
| 50°   | 7605.0  | 7251.6  | 6897.8  | 6878.0  | 6858.2  | 7618.2  | 8378.3  | 9094.3  | 9810.3  | 10209.1 | 9810.3  |
| 52.5° | 8554.5  | 8166.4  | 7777.7  | 7793.6  | 7808.6  | 8711.4  | 9614.2  | 10480.0 | 11345.8 | 11795.3 | 11345.8 |
| 55°   | 9689.1  | 9202.3  | 8715.4  | 8712.7  | 8710.1  | 9747.3  | 10785.4 | 11849.0 | 12913.6 | 13513.7 | 12913.6 |
| 57.5° | 10845.7 | 10389.7 | 9933.7  | 9825.3  | 9716.4  | 10801.2 | 11885.6 | 13060.3 | 14235.4 | 14866.4 | 14235.4 |
| 60°   | 11713.8 | 11462.6 | 11211.5 | 11037.9 | 10864.7 | 11978.6 | 13092.9 | 14306.3 | 15519.4 | 16148.6 | 15519.4 |
| 62.5° | 11354.7 | 11803.6 | 12252.6 | 12239.9 | 12227.1 | 13429.5 | 14632.0 | 15893.9 | 17156.7 | 17721.5 | 17156.7 |
| 65°   | 10143.0 | 10859.0 | 11575.0 | 12067.6 | 12559.7 | 14013.3 | 15466.5 | 16781.3 | 18096.1 | 18673.3 | 18096.1 |
| 67.5° | 9006.2  | 9637.1  | 10268.5 | 10671.7 | 11074.9 | 12712.6 | 14350.8 | 15842.8 | 17334.7 | 17928.6 | 17334.7 |
| 70°   | 7917.9  | 8616.7  | 9315.5  | 9603.7  | 9891.8  | 11283.3 | 12674.3 | 13854.7 | 15034.7 | 15267.3 | 15034.7 |
| 72.5° | 6796.5  | 7627.5  | 8458.9  | 8581.0  | 8703.0  | 9715.6  | 10728.1 | 11356.9 | 11985.6 | 11478.0 | 11985.6 |
| 75°   | 5565.0  | 6502.6  | 7439.8  | 7521.3  | 7602.8  | 7918.3  | 8234.2  | 8394.2  | 8554.5  | 8265.9  | 8554.5  |
| 77.5° | 3701.2  | 4512.8  | 5324.8  | 5507.7  | 5690.5  | 5900.7  | 6111.3  | 6100.3  | 6089.3  | 5683.9  | 6089.3  |
| 80°   | 2172.2  | 2807.2  | 3442.1  | 3465.9  | 3489.7  | 3647.4  | 3804.7  | 3965.5  | 4126.4  | 3868.6  | 4126.4  |
| 82.5° | 1086.1  | 1434.6  | 1783.6  | 1837.4  | 1891.1  | 1987.6  | 2084.1  | 2129.1  | 2174.4  | 1956.3  | 2174.4  |
| 85°   | 246.7   | 337.5   | 428.3   | 516.0   | 603.6   | 705.0   | 806.3   | 794.9   | 783.4   | 660.9   | 783.4   |
| 87.5° | 19.8    | 20.3    | 21.1    | 21.6    | 22.0    | 22.5    | 22.9    | 24.2    | 25.6    | 26.4    | 25.6    |
| 90°   | 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°    | 2872.8  | 2872.8  | 2872.8  | 2872.8  | 2872.8  | 2872.8  | 2872.8  | 2872.8  | 2872.8 | 2872.8 | 2872.8 |
| 2.5°  | 3172.0  | 3164.5  | 3157.4  | 3150.4  | 3138.1  | 3126.2  | 3115.2  | 3104.1  | 3075.9 | 3048.2 | 3022.6 |
| 5°    | 3547.4  | 3532.9  | 3507.3  | 3481.7  | 3448.3  | 3414.8  | 3365.4  | 3315.6  | 3265.8 | 3216.5 | 3164.5 |
| 7.5°  | 3833.8  | 3814.8  | 3782.2  | 3749.6  | 3698.5  | 3647.4  | 3588.4  | 3529.3  | 3445.6 | 3361.9 | 3283.0 |
| 10°   | 3977.0  | 3962.0  | 3932.1  | 3901.6  | 3851.9  | 3802.5  | 3732.9  | 3663.7  | 3563.7 | 3463.2 | 3365.4 |
| 12.5° | 3986.7  | 3979.6  | 3960.7  | 3941.3  | 3903.4  | 3865.1  | 3798.5  | 3732.0  | 3632.4 | 3532.9 | 3423.1 |
| 15°   | 3842.6  | 3856.3  | 3866.0  | 3875.2  | 3859.3  | 3843.0  | 3804.3  | 3765.1  | 3664.2 | 3563.7 | 3452.2 |
| 17.5° | 3597.6  | 3637.3  | 3690.2  | 3743.0  | 3772.1  | 3801.6  | 3787.5  | 3773.9  | 3679.6 | 3585.7 | 3466.8 |
| 20°   | 3337.2  | 3403.8  | 3502.9  | 3602.0  | 3680.0  | 3758.4  | 3780.5  | 3802.5  | 3707.3 | 3612.2 | 3484.4 |
| 22.5° | 3098.0  | 3174.6  | 3309.9  | 3445.6  | 3577.4  | 3709.1  | 3771.2  | 3833.4  | 3746.1 | 3659.3 | 3518.8 |
| 25°   | 2910.7  | 2994.0  | 3153.0  | 3312.5  | 3490.1  | 3668.1  | 3775.2  | 3881.8  | 3806.5 | 3731.1 | 3577.8 |
| 27.5° | 2760.5  | 2839.8  | 3012.9  | 3185.6  | 3406.0  | 3626.3  | 3789.3  | 3952.3  | 3894.6 | 3836.9 | 3664.2 |
| 30°   | 2652.1  | 2729.6  | 2910.3  | 3090.9  | 3354.8  | 3618.3  | 3835.1  | 4051.5  | 4006.1 | 3961.1 | 3766.4 |
| 32.5° | 2593.5  | 2667.9  | 2851.7  | 3035.8  | 3331.1  | 3626.3  | 3899.4  | 4172.6  | 4144.4 | 4116.2 | 3886.7 |
| 35°   | 2635.3  | 2690.0  | 2860.5  | 3031.4  | 3358.4  | 3685.7  | 4031.6  | 4377.5  | 4342.3 | 4307.0 | 4014.4 |
| 37.5° | 2922.2  | 2922.2  | 3038.5  | 3154.8  | 3491.9  | 3828.9  | 4233.4  | 4637.5  | 4595.6 | 4553.8 | 4170.4 |
| 40°   | 3536.4  | 3462.4  | 3468.5  | 3475.6  | 3794.1  | 4113.1  | 4567.0  | 5020.8  | 4938.4 | 4855.6 | 4348.9 |
| 42.5° | 4607.1  | 4392.9  | 4238.7  | 4084.5  | 4341.8  | 4599.1  | 5078.5  | 5558.4  | 5383.9 | 5209.0 | 4546.3 |
| 45°   | 5997.2  | 5618.7  | 5275.9  | 4932.7  | 5112.0  | 5291.8  | 5758.8  | 6225.9  | 5946.1 | 5666.3 | 4814.2 |
| 47.5° | 7569.3  | 7014.6  | 6444.0  | 5873.4  | 5975.6  | 6078.3  | 6471.8  | 6864.8  | 6510.5 | 6156.3 | 5089.5 |
| 50°   | 9094.3  | 8378.3  | 7618.2  | 6858.2  | 6878.0  | 6897.8  | 7251.6  | 7605.0  | 7124.7 | 6644.5 | 5329.7 |
| 52.5° | 10480.0 | 9614.2  | 8711.4  | 7808.6  | 7793.6  | 7777.7  | 8166.4  | 8554.5  | 7791.8 | 7028.7 | 5443.4 |
| 55°   | 11849.0 | 10785.4 | 9747.3  | 8710.1  | 8712.7  | 8715.4  | 9202.3  | 9689.1  | 8462.0 | 7234.9 | 5413.4 |
| 57.5° | 13060.3 | 11885.6 | 10801.2 | 9716.4  | 9825.3  | 9933.7  | 10389.7 | 10845.7 | 9024.7 | 7204.1 | 5249.9 |
| 60°   | 14306.3 | 13092.9 | 11978.6 | 10864.7 | 11037.9 | 11211.5 | 11462.6 | 11713.8 | 9276.7 | 6839.2 | 4858.2 |
| 62.5° | 15893.9 | 14632.0 | 13429.5 | 12227.1 | 12239.9 | 12252.6 | 11803.6 | 11354.7 | 8717.6 | 6080.5 | 4216.2 |
| 65°   | 16781.3 | 15466.5 | 14013.3 | 12559.7 | 12067.6 | 11575.0 | 10859.0 | 10143.0 | 7519.1 | 4895.2 | 3307.3 |
| 67.5° | 15842.8 | 14350.8 | 12712.6 | 11074.9 | 10671.7 | 10268.5 | 9637.1  | 9006.2  | 6457.7 | 3909.1 | 2573.6 |
| 70°   | 13854.7 | 12674.3 | 11283.3 | 9891.8  | 9603.7  | 9315.5  | 8616.7  | 7917.9  | 5486.1 | 3054.3 | 1972.2 |
| 72.5° | 11356.9 | 10728.1 | 9715.6  | 8703.0  | 8581.0  | 8458.9  | 7627.5  | 6796.5  | 4555.5 | 2314.1 | 1482.7 |
| 75°   | 8394.2  | 8234.2  | 7918.3  | 7602.8  | 7521.3  | 7439.8  | 6502.6  | 5565.0  | 3637.3 | 1709.6 | 1098.9 |
| 77.5° | 6100.3  | 6111.3  | 5900.7  | 5690.5  | 5507.7  | 5324.8  | 4512.8  | 3701.2  | 2386.4 | 1071.6 | 710.3  |
| 80°   | 3965.5  | 3804.7  | 3647.4  | 3489.7  | 3465.9  | 3442.1  | 2807.2  | 2172.2  | 1368.1 | 564.0  | 392.6  |
| 82.5° | 2129.1  | 2084.1  | 1987.6  | 1891.1  | 1837.4  | 1783.6  | 1434.6  | 1086.1  | 685.6  | 285.5  | 211.1  |
| 85°   | 794.9   | 806.3   | 705.0   | 603.6   | 516.0   | 428.3   | 337.5   | 246.7   | 163.0  | 79.3   | 67.0   |
| 87.5° | 24.2    | 22.9    | 22.5    | 22.0    | 21.6    | 21.1    | 20.3    | 19.8    | 19.4   | 18.5   | 18.1   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 |
| 2.5°  | 2997.1 | 2971.5 | 2945.5 | 2920.8 | 2895.7 | 2870.6 | 2848.6 | 2824.8 | 2801.4 | 2782.9 | 2764.9 |
| 5°    | 3112.9 | 3062.3 | 3011.6 | 2963.6 | 2916.0 | 2866.2 | 2823.5 | 2781.2 | 2739.7 | 2705.4 | 2671.0 |
| 7.5°  | 3204.2 | 3133.7 | 3063.2 | 3000.1 | 2936.7 | 2870.6 | 2819.1 | 2767.5 | 2716.4 | 2671.9 | 2626.9 |
| 10°   | 3267.2 | 3180.4 | 3093.1 | 3020.4 | 2947.7 | 2877.2 | 2822.1 | 2767.9 | 2714.2 | 2668.4 | 2622.5 |
| 12.5° | 3313.4 | 3216.1 | 3118.7 | 3038.5 | 2958.7 | 2881.6 | 2827.9 | 2782.9 | 2738.4 | 2706.3 | 2674.5 |
| 15°   | 3340.7 | 3235.9 | 3130.6 | 3040.2 | 2949.9 | 2864.0 | 2816.4 | 2787.3 | 2758.3 | 2755.6 | 2753.0 |
| 17.5° | 3347.8 | 3227.9 | 3108.5 | 3003.2 | 2898.4 | 2797.9 | 2757.4 | 2753.4 | 2749.4 | 2793.1 | 2836.7 |
| 20°   | 3356.6 | 3216.1 | 3075.5 | 2937.1 | 2798.8 | 2665.7 | 2640.2 | 2665.3 | 2690.0 | 2775.4 | 2860.5 |
| 22.5° | 3378.6 | 3206.8 | 3035.0 | 2861.4 | 2687.8 | 2529.1 | 2504.9 | 2541.9 | 2578.5 | 2690.0 | 2801.4 |
| 25°   | 3424.5 | 3205.9 | 2987.4 | 2771.0 | 2554.7 | 2372.7 | 2370.5 | 2410.6 | 2450.7 | 2553.8 | 2656.9 |
| 27.5° | 3491.9 | 3214.3 | 2936.7 | 2678.5 | 2419.9 | 2233.9 | 2244.9 | 2283.3 | 2322.0 | 2398.7 | 2475.4 |
| 30°   | 3571.2 | 3232.4 | 2894.0 | 2597.9 | 2302.2 | 2121.6 | 2133.5 | 2163.4 | 2193.4 | 2248.9 | 2304.4 |
| 32.5° | 3657.1 | 3252.6 | 2848.6 | 2527.4 | 2206.6 | 2040.0 | 2040.0 | 2052.8 | 2065.6 | 2101.7 | 2137.9 |
| 35°   | 3722.3 | 3247.8 | 2773.7 | 2447.2 | 2120.2 | 1991.6 | 1964.3 | 1953.7 | 1943.1 | 1966.9 | 1990.7 |
| 37.5° | 3787.1 | 3234.1 | 2681.1 | 2358.2 | 2035.6 | 1934.3 | 1882.3 | 1854.1 | 1825.0 | 1836.5 | 1847.1 |
| 40°   | 3842.2 | 3203.3 | 2564.4 | 2252.0 | 1939.6 | 1859.4 | 1794.2 | 1751.9 | 1709.6 | 1708.7 | 1707.4 |
| 42.5° | 3882.7 | 3150.0 | 2416.8 | 2125.5 | 1833.8 | 1777.9 | 1697.3 | 1643.5 | 1589.7 | 1584.0 | 1578.3 |
| 45°   | 3962.0 | 3113.4 | 2264.8 | 1996.9 | 1729.4 | 1678.7 | 1598.6 | 1543.0 | 1488.4 | 1479.6 | 1470.8 |
| 47.5° | 4022.8 | 3070.6 | 2118.5 | 1869.1 | 1620.6 | 1562.0 | 1487.1 | 1439.9 | 1392.3 | 1387.1 | 1381.3 |
| 50°   | 4014.9 | 2997.9 | 1980.6 | 1755.4 | 1529.8 | 1449.6 | 1375.6 | 1336.8 | 1297.6 | 1304.2 | 1310.8 |
| 52.5° | 3857.6 | 2849.0 | 1840.9 | 1653.2 | 1466.4 | 1363.7 | 1284.4 | 1255.3 | 1225.8 | 1246.5 | 1266.8 |
| 55°   | 3591.9 | 2651.6 | 1710.5 | 1567.7 | 1424.1 | 1321.8 | 1228.4 | 1195.8 | 1163.2 | 1192.3 | 1221.4 |
| 57.5° | 3295.8 | 2445.0 | 1594.1 | 1495.4 | 1396.8 | 1310.8 | 1196.3 | 1150.4 | 1105.1 | 1134.1 | 1163.2 |
| 60°   | 2877.2 | 2183.7 | 1490.2 | 1421.0 | 1351.8 | 1284.4 | 1169.8 | 1112.6 | 1055.3 | 1074.7 | 1093.6 |
| 62.5° | 2352.0 | 1852.3 | 1352.7 | 1313.9 | 1275.6 | 1246.9 | 1137.7 | 1062.8 | 987.9  | 990.5  | 992.3  |
| 65°   | 1719.3 | 1455.8 | 1191.9 | 1183.5 | 1175.6 | 1167.6 | 1077.3 | 996.7  | 916.5  | 907.7  | 898.9  |
| 67.5° | 1238.1 | 1113.0 | 987.9  | 1011.2 | 1034.6 | 1046.5 | 984.8  | 913.8  | 842.5  | 824.4  | 806.3  |
| 70°   | 890.0  | 846.0  | 801.9  | 836.7  | 871.5  | 868.0  | 838.1  | 795.8  | 753.5  | 742.0  | 730.5  |
| 72.5° | 651.2  | 650.3  | 649.9  | 676.3  | 702.8  | 667.5  | 686.5  | 676.8  | 667.5  | 659.2  | 651.2  |
| 75°   | 488.2  | 485.1  | 482.5  | 513.8  | 545.5  | 559.6  | 571.9  | 566.6  | 561.8  | 555.6  | 549.9  |
| 77.5° | 349.0  | 351.6  | 353.4  | 387.7  | 422.1  | 462.6  | 464.8  | 453.4  | 441.5  | 435.3  | 428.3  |
| 80°   | 221.2  | 223.8  | 225.6  | 261.7  | 297.4  | 354.7  | 352.5  | 338.4  | 323.9  | 319.0  | 313.7  |
| 82.5° | 136.6  | 137.0  | 137.5  | 155.1  | 172.7  | 204.9  | 213.7  | 213.7  | 213.7  | 210.6  | 207.1  |
| 85°   | 55.1   | 57.7   | 60.8   | 72.3   | 83.7   | 101.3  | 106.6  | 107.5  | 108.0  | 103.1  | 97.8   |
| 87.5° | 17.6   | 18.5   | 19.8   | 22.0   | 24.2   | 26.4   | 30.8   | 33.5   | 36.1   | 38.8   | 40.5   |
| 90°   | 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: VAL-T-SB2D-730-U-SLL

**CANDELA DISTRIBUTION (continued):**

|       | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   | 200°   | 205°   | 210°   | 215°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 |
| 2.5°  | 2749.0 | 2732.7 | 2713.7 | 2694.4 | 2680.7 | 2666.6 | 2657.4 | 2648.1 | 2643.7 | 2639.3 | 2635.8 |
| 5°    | 2642.8 | 2613.7 | 2588.2 | 2562.2 | 2541.9 | 2521.2 | 2504.5 | 2487.3 | 2480.2 | 2472.7 | 2467.9 |
| 7.5°  | 2589.1 | 2551.2 | 2519.4 | 2487.3 | 2456.9 | 2426.9 | 2407.5 | 2388.1 | 2376.7 | 2365.2 | 2356.9 |
| 10°   | 2582.4 | 2542.4 | 2500.5 | 2458.6 | 2425.1 | 2391.7 | 2362.6 | 2334.4 | 2318.1 | 2302.2 | 2293.4 |
| 12.5° | 2637.5 | 2600.5 | 2550.7 | 2500.5 | 2455.1 | 2410.2 | 2374.5 | 2338.8 | 2318.5 | 2299.1 | 2285.9 |
| 15°   | 2740.2 | 2727.4 | 2681.1 | 2634.9 | 2572.3 | 2509.3 | 2458.2 | 2406.6 | 2378.4 | 2349.4 | 2333.1 |
| 17.5° | 2861.8 | 2886.9 | 2854.7 | 2822.1 | 2734.0 | 2645.9 | 2569.7 | 2493.9 | 2452.5 | 2411.0 | 2396.5 |
| 20°   | 2928.3 | 2996.2 | 2992.7 | 2989.6 | 2874.6 | 2759.1 | 2659.1 | 2559.1 | 2503.6 | 2448.9 | 2426.9 |
| 22.5° | 2899.2 | 2997.1 | 3022.2 | 3046.9 | 2934.1 | 2820.8 | 2697.4 | 2574.1 | 2508.9 | 2443.2 | 2422.5 |
| 25°   | 2762.2 | 2867.5 | 2914.2 | 2960.9 | 2868.0 | 2775.0 | 2655.1 | 2535.7 | 2467.0 | 2397.8 | 2376.7 |
| 27.5° | 2560.0 | 2644.6 | 2697.0 | 2749.4 | 2692.6 | 2635.8 | 2538.8 | 2441.9 | 2381.1 | 2319.8 | 2297.4 |
| 30°   | 2361.7 | 2419.0 | 2460.8 | 2502.7 | 2465.2 | 2427.8 | 2358.2 | 2289.0 | 2243.6 | 2198.7 | 2184.6 |
| 32.5° | 2180.6 | 2222.9 | 2246.3 | 2269.2 | 2240.1 | 2211.0 | 2165.2 | 2119.4 | 2091.2 | 2063.0 | 2053.7 |
| 35°   | 2025.1 | 2059.9 | 2077.5 | 2095.1 | 2070.9 | 2046.7 | 2005.7 | 1965.1 | 1944.9 | 1924.6 | 1917.1 |
| 37.5° | 1876.6 | 1905.7 | 1930.8 | 1956.3 | 1938.7 | 1921.1 | 1886.3 | 1851.5 | 1827.7 | 1803.0 | 1789.8 |
| 40°   | 1735.6 | 1763.3 | 1795.1 | 1826.4 | 1823.3 | 1819.7 | 1786.7 | 1753.6 | 1719.3 | 1685.4 | 1667.3 |
| 42.5° | 1606.0 | 1633.8 | 1667.3 | 1700.8 | 1707.4 | 1714.0 | 1686.7 | 1658.9 | 1619.3 | 1579.6 | 1551.8 |
| 45°   | 1494.6 | 1519.2 | 1555.8 | 1592.8 | 1608.2 | 1623.7 | 1599.0 | 1573.9 | 1529.4 | 1484.9 | 1451.8 |
| 47.5° | 1406.4 | 1432.0 | 1472.5 | 1513.5 | 1529.8 | 1546.6 | 1529.8 | 1513.5 | 1475.2 | 1436.4 | 1407.3 |
| 50°   | 1338.6 | 1365.9 | 1397.6 | 1429.8 | 1460.2 | 1490.2 | 1487.1 | 1484.0 | 1453.6 | 1423.2 | 1395.9 |
| 52.5° | 1291.9 | 1317.4 | 1350.5 | 1383.5 | 1415.3 | 1447.4 | 1452.3 | 1457.6 | 1435.5 | 1413.5 | 1389.7 |
| 55°   | 1251.8 | 1282.2 | 1313.0 | 1343.9 | 1373.8 | 1403.4 | 1410.0 | 1416.6 | 1400.7 | 1384.4 | 1366.8 |
| 57.5° | 1196.3 | 1229.3 | 1260.2 | 1291.0 | 1325.8 | 1360.6 | 1365.9 | 1371.2 | 1354.5 | 1337.3 | 1324.0 |
| 60°   | 1127.5 | 1161.0 | 1193.2 | 1224.9 | 1260.2 | 1295.4 | 1302.5 | 1309.5 | 1296.3 | 1283.1 | 1270.7 |
| 62.5° | 1030.6 | 1068.5 | 1094.9 | 1121.4 | 1154.9 | 1188.8 | 1198.9 | 1209.5 | 1203.3 | 1197.6 | 1183.5 |
| 65°   | 935.0  | 971.6  | 992.3  | 1013.4 | 1042.5 | 1071.6 | 1081.7 | 1091.8 | 1088.8 | 1086.1 | 1076.0 |
| 67.5° | 839.8  | 873.3  | 890.5  | 907.7  | 927.5  | 947.3  | 958.8  | 970.2  | 964.5  | 958.3  | 947.8  |
| 70°   | 757.9  | 785.2  | 800.2  | 815.1  | 831.0  | 846.9  | 853.0  | 859.2  | 850.4  | 841.6  | 817.8  |
| 72.5° | 671.9  | 692.6  | 705.4  | 718.2  | 733.2  | 748.2  | 751.7  | 755.7  | 742.0  | 727.9  | 700.1  |
| 75°   | 565.8  | 581.6  | 591.3  | 601.4  | 616.9  | 632.3  | 638.9  | 645.5  | 626.1  | 607.2  | 577.6  |
| 77.5° | 442.8  | 457.4  | 466.6  | 475.9  | 488.6  | 501.4  | 503.2  | 505.8  | 489.1  | 472.3  | 454.7  |
| 80°   | 324.3  | 334.9  | 338.4  | 341.5  | 352.1  | 362.2  | 362.2  | 362.2  | 349.8  | 337.1  | 328.3  |
| 82.5° | 204.9  | 202.7  | 198.3  | 193.9  | 204.4  | 215.0  | 218.5  | 222.5  | 216.8  | 211.5  | 201.8  |
| 85°   | 91.6   | 84.6   | 83.3   | 81.5   | 81.1   | 80.2   | 83.3   | 85.9   | 84.6   | 83.7   | 80.2   |
| 87.5° | 43.2   | 44.9   | 43.6   | 41.9   | 40.1   | 38.8   | 35.2   | 31.7   | 29.1   | 26.4   | 24.7   |
| 90°   | 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: VAL-T-SB2D-730-U-SLL

**CANDELA DISTRIBUTION (continued):**

|       | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   | 250°   | 255°   | 260°   | 265°   | 270°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 |
| 2.5°  | 2632.7 | 2630.5 | 2632.7 | 2635.8 | 2639.3 | 2643.7 | 2648.1 | 2657.4 | 2666.6 | 2680.7 | 2694.4 |
| 5°    | 2463.0 | 2458.6 | 2463.0 | 2467.9 | 2472.7 | 2480.2 | 2487.3 | 2504.5 | 2521.2 | 2541.9 | 2562.2 |
| 7.5°  | 2348.5 | 2344.1 | 2348.5 | 2356.9 | 2365.2 | 2376.7 | 2388.1 | 2407.5 | 2426.9 | 2456.9 | 2487.3 |
| 10°   | 2284.6 | 2278.0 | 2284.6 | 2293.4 | 2302.2 | 2318.1 | 2334.4 | 2362.6 | 2391.7 | 2425.1 | 2458.6 |
| 12.5° | 2272.7 | 2264.8 | 2272.7 | 2285.9 | 2299.1 | 2318.5 | 2338.8 | 2374.5 | 2410.2 | 2455.1 | 2500.5 |
| 15°   | 2316.8 | 2304.4 | 2316.8 | 2333.1 | 2349.4 | 2378.4 | 2406.6 | 2458.2 | 2509.3 | 2572.3 | 2634.9 |
| 17.5° | 2381.5 | 2374.9 | 2381.5 | 2396.5 | 2411.0 | 2452.5 | 2493.9 | 2569.7 | 2645.9 | 2734.0 | 2822.1 |
| 20°   | 2404.9 | 2396.9 | 2404.9 | 2426.9 | 2448.9 | 2503.6 | 2559.1 | 2659.1 | 2759.1 | 2874.6 | 2989.6 |
| 22.5° | 2401.4 | 2392.5 | 2401.4 | 2422.5 | 2443.2 | 2508.9 | 2574.1 | 2697.4 | 2820.8 | 2934.1 | 3046.9 |
| 25°   | 2355.1 | 2348.5 | 2355.1 | 2376.7 | 2397.8 | 2467.0 | 2535.7 | 2655.1 | 2775.0 | 2868.0 | 2960.9 |
| 27.5° | 2274.5 | 2260.4 | 2274.5 | 2297.4 | 2319.8 | 2381.1 | 2441.9 | 2538.8 | 2635.8 | 2692.6 | 2749.4 |
| 30°   | 2170.0 | 2163.4 | 2170.0 | 2184.6 | 2198.7 | 2243.6 | 2289.0 | 2358.2 | 2427.8 | 2465.2 | 2502.7 |
| 32.5° | 2044.5 | 2040.0 | 2044.5 | 2053.7 | 2063.0 | 2091.2 | 2119.4 | 2165.2 | 2211.0 | 2240.1 | 2269.2 |
| 35°   | 1910.1 | 1903.5 | 1910.1 | 1917.1 | 1924.6 | 1944.9 | 1965.1 | 2005.7 | 2046.7 | 2070.9 | 2095.1 |
| 37.5° | 1776.6 | 1766.9 | 1776.6 | 1789.8 | 1803.0 | 1827.7 | 1851.5 | 1886.3 | 1921.1 | 1938.7 | 1956.3 |
| 40°   | 1648.8 | 1639.1 | 1648.8 | 1667.3 | 1685.4 | 1719.3 | 1753.6 | 1786.7 | 1819.7 | 1823.3 | 1826.4 |
| 42.5° | 1524.5 | 1506.9 | 1524.5 | 1551.8 | 1579.6 | 1619.3 | 1658.9 | 1686.7 | 1714.0 | 1707.4 | 1700.8 |
| 45°   | 1418.8 | 1396.8 | 1418.8 | 1451.8 | 1484.9 | 1529.4 | 1573.9 | 1599.0 | 1623.7 | 1608.2 | 1592.8 |
| 47.5° | 1378.2 | 1357.1 | 1378.2 | 1407.3 | 1436.4 | 1475.2 | 1513.5 | 1529.8 | 1546.6 | 1529.8 | 1513.5 |
| 50°   | 1368.1 | 1348.3 | 1368.1 | 1395.9 | 1423.2 | 1453.6 | 1484.0 | 1487.1 | 1490.2 | 1460.2 | 1429.8 |
| 52.5° | 1365.9 | 1348.3 | 1365.9 | 1389.7 | 1413.5 | 1435.5 | 1457.6 | 1452.3 | 1447.4 | 1415.3 | 1383.5 |
| 55°   | 1349.2 | 1335.1 | 1349.2 | 1366.8 | 1384.4 | 1400.7 | 1416.6 | 1410.0 | 1403.4 | 1373.8 | 1343.9 |
| 57.5° | 1310.8 | 1304.2 | 1310.8 | 1324.0 | 1337.3 | 1354.5 | 1371.2 | 1365.9 | 1360.6 | 1325.8 | 1291.0 |
| 60°   | 1258.0 | 1246.9 | 1258.0 | 1270.7 | 1283.1 | 1296.3 | 1309.5 | 1302.5 | 1295.4 | 1260.2 | 1224.9 |
| 62.5° | 1169.8 | 1154.4 | 1169.8 | 1183.5 | 1197.6 | 1203.3 | 1209.5 | 1198.9 | 1188.8 | 1154.9 | 1121.4 |
| 65°   | 1066.3 | 1048.7 | 1066.3 | 1076.0 | 1086.1 | 1088.8 | 1091.8 | 1081.7 | 1071.6 | 1042.5 | 1013.4 |
| 67.5° | 937.6  | 934.1  | 937.6  | 947.8  | 958.3  | 964.5  | 970.2  | 958.8  | 947.3  | 927.5  | 907.7  |
| 70°   | 794.0  | 766.7  | 794.0  | 817.8  | 841.6  | 850.4  | 859.2  | 853.0  | 846.9  | 831.0  | 815.1  |
| 72.5° | 671.9  | 643.3  | 671.9  | 700.1  | 727.9  | 742.0  | 755.7  | 751.7  | 748.2  | 733.2  | 718.2  |
| 75°   | 548.6  | 528.7  | 548.6  | 577.6  | 607.2  | 626.1  | 645.5  | 638.9  | 632.3  | 616.9  | 601.4  |
| 77.5° | 437.1  | 427.4  | 437.1  | 454.7  | 472.3  | 489.1  | 505.8  | 503.2  | 501.4  | 488.6  | 475.9  |
| 80°   | 319.4  | 312.8  | 319.4  | 328.3  | 337.1  | 349.8  | 362.2  | 362.2  | 362.2  | 352.1  | 341.5  |
| 82.5° | 191.7  | 185.1  | 191.7  | 201.8  | 211.5  | 216.8  | 222.5  | 218.5  | 215.0  | 204.4  | 193.9  |
| 85°   | 77.1   | 74.9   | 77.1   | 80.2   | 83.7   | 84.6   | 85.9   | 83.3   | 80.2   | 81.1   | 81.5   |
| 87.5° | 22.9   | 22.0   | 22.9   | 24.7   | 26.4   | 29.1   | 31.7   | 35.2   | 38.8   | 40.1   | 41.9   |
| 90°   | 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°    | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 |
| 2.5°  | 2713.7 | 2732.7 | 2749.0 | 2764.9 | 2782.9 | 2801.4 | 2824.8 | 2848.6 | 2870.6 | 2895.7 | 2920.8 |
| 5°    | 2588.2 | 2613.7 | 2642.8 | 2671.0 | 2705.4 | 2739.7 | 2781.2 | 2823.5 | 2866.2 | 2916.0 | 2963.6 |
| 7.5°  | 2519.4 | 2551.2 | 2589.1 | 2626.9 | 2671.9 | 2716.4 | 2767.5 | 2819.1 | 2870.6 | 2936.7 | 3000.1 |
| 10°   | 2500.5 | 2542.4 | 2582.4 | 2622.5 | 2668.4 | 2714.2 | 2767.9 | 2822.1 | 2877.2 | 2947.7 | 3020.4 |
| 12.5° | 2550.7 | 2600.5 | 2637.5 | 2674.5 | 2706.3 | 2738.4 | 2782.9 | 2827.9 | 2881.6 | 2958.7 | 3038.5 |
| 15°   | 2681.1 | 2727.4 | 2740.2 | 2753.0 | 2755.6 | 2758.3 | 2787.3 | 2816.4 | 2864.0 | 2949.9 | 3040.2 |
| 17.5° | 2854.7 | 2886.9 | 2861.8 | 2836.7 | 2793.1 | 2749.4 | 2753.4 | 2757.4 | 2797.9 | 2898.4 | 3003.2 |
| 20°   | 2992.7 | 2996.2 | 2928.3 | 2860.5 | 2775.4 | 2690.0 | 2665.3 | 2640.2 | 2665.7 | 2798.8 | 2937.1 |
| 22.5° | 3022.2 | 2997.1 | 2899.2 | 2801.4 | 2690.0 | 2578.5 | 2541.9 | 2504.9 | 2529.1 | 2687.8 | 2861.4 |
| 25°   | 2914.2 | 2867.5 | 2762.2 | 2656.9 | 2553.8 | 2450.7 | 2410.6 | 2370.5 | 2372.7 | 2554.7 | 2771.0 |
| 27.5° | 2697.0 | 2644.6 | 2560.0 | 2475.4 | 2398.7 | 2322.0 | 2283.3 | 2244.9 | 2233.9 | 2419.9 | 2678.5 |
| 30°   | 2460.8 | 2419.0 | 2361.7 | 2304.4 | 2248.9 | 2193.4 | 2163.4 | 2133.5 | 2121.6 | 2302.2 | 2597.9 |
| 32.5° | 2246.3 | 2222.9 | 2180.6 | 2137.9 | 2101.7 | 2065.6 | 2052.8 | 2040.0 | 2040.0 | 2206.6 | 2527.4 |
| 35°   | 2077.5 | 2059.9 | 2025.1 | 1990.7 | 1966.9 | 1943.1 | 1953.7 | 1964.3 | 1991.6 | 2120.2 | 2447.2 |
| 37.5° | 1930.8 | 1905.7 | 1876.6 | 1847.1 | 1836.5 | 1825.0 | 1854.1 | 1882.3 | 1934.3 | 2035.6 | 2358.2 |
| 40°   | 1795.1 | 1763.3 | 1735.6 | 1707.4 | 1708.7 | 1709.6 | 1751.9 | 1794.2 | 1859.4 | 1939.6 | 2252.0 |
| 42.5° | 1667.3 | 1633.8 | 1606.0 | 1578.3 | 1584.0 | 1589.7 | 1643.5 | 1697.3 | 1777.9 | 1833.8 | 2125.5 |
| 45°   | 1555.8 | 1519.2 | 1494.6 | 1470.8 | 1479.6 | 1488.4 | 1543.0 | 1598.6 | 1678.7 | 1729.4 | 1996.9 |
| 47.5° | 1472.5 | 1432.0 | 1406.4 | 1381.3 | 1387.1 | 1392.3 | 1439.9 | 1487.1 | 1562.0 | 1620.6 | 1869.1 |
| 50°   | 1397.6 | 1365.9 | 1338.6 | 1310.8 | 1304.2 | 1297.6 | 1336.8 | 1375.6 | 1449.6 | 1529.8 | 1755.4 |
| 52.5° | 1350.5 | 1317.4 | 1291.9 | 1266.8 | 1246.5 | 1225.8 | 1255.3 | 1284.4 | 1363.7 | 1466.4 | 1653.2 |
| 55°   | 1313.0 | 1282.2 | 1251.8 | 1221.4 | 1192.3 | 1163.2 | 1195.8 | 1228.4 | 1321.8 | 1424.1 | 1567.7 |
| 57.5° | 1260.2 | 1229.3 | 1196.3 | 1163.2 | 1134.1 | 1105.1 | 1150.4 | 1196.3 | 1310.8 | 1396.8 | 1495.4 |
| 60°   | 1193.2 | 1161.0 | 1127.5 | 1093.6 | 1074.7 | 1055.3 | 1112.6 | 1169.8 | 1284.4 | 1351.8 | 1421.0 |
| 62.5° | 1094.9 | 1068.5 | 1030.6 | 992.3  | 990.5  | 987.9  | 1062.8 | 1137.7 | 1246.9 | 1275.6 | 1313.9 |
| 65°   | 992.3  | 971.6  | 935.0  | 898.9  | 907.7  | 916.5  | 996.7  | 1077.3 | 1167.6 | 1175.6 | 1183.5 |
| 67.5° | 890.5  | 873.3  | 839.8  | 806.3  | 824.4  | 842.5  | 913.8  | 984.8  | 1046.5 | 1034.6 | 1011.2 |
| 70°   | 800.2  | 785.2  | 757.9  | 730.5  | 742.0  | 753.5  | 795.8  | 838.1  | 868.0  | 871.5  | 836.7  |
| 72.5° | 705.4  | 692.6  | 671.9  | 651.2  | 659.2  | 667.5  | 676.8  | 686.5  | 667.5  | 702.8  | 676.3  |
| 75°   | 591.3  | 581.6  | 565.8  | 549.9  | 555.6  | 561.8  | 566.6  | 571.9  | 559.6  | 545.5  | 513.8  |
| 77.5° | 466.6  | 457.4  | 442.8  | 428.3  | 435.3  | 441.5  | 453.4  | 464.8  | 462.6  | 422.1  | 387.7  |
| 80°   | 338.4  | 334.9  | 324.3  | 313.7  | 319.0  | 323.9  | 338.4  | 352.5  | 354.7  | 297.4  | 261.7  |
| 82.5° | 198.3  | 202.7  | 204.9  | 207.1  | 210.6  | 213.7  | 213.7  | 213.7  | 204.9  | 172.7  | 155.1  |
| 85°   | 83.3   | 84.6   | 91.6   | 97.8   | 103.1  | 108.0  | 107.5  | 106.6  | 101.3  | 83.7   | 72.3   |
| 87.5° | 43.6   | 44.9   | 43.2   | 40.5   | 38.8   | 36.1   | 33.5   | 30.8   | 26.4   | 24.2   | 22.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P1385702

CATALOG NUMBER: VAL-T-SB2D-730-U-SLL

**CANDELA DISTRIBUTION (continued):**

|       | 330°   | 335°   | 340°   | 345°   | 350°   | 355°   | 360°    |
|-------|--------|--------|--------|--------|--------|--------|---------|
| 0°    | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8  |
| 2.5°  | 2945.5 | 2971.5 | 2997.1 | 3022.6 | 3048.2 | 3075.9 | 3104.1  |
| 5°    | 3011.6 | 3062.3 | 3112.9 | 3164.5 | 3216.5 | 3265.8 | 3315.6  |
| 7.5°  | 3063.2 | 3133.7 | 3204.2 | 3283.0 | 3361.9 | 3445.6 | 3529.3  |
| 10°   | 3093.1 | 3180.4 | 3267.2 | 3365.4 | 3463.2 | 3563.7 | 3663.7  |
| 12.5° | 3118.7 | 3216.1 | 3313.4 | 3423.1 | 3532.9 | 3632.4 | 3732.0  |
| 15°   | 3130.6 | 3235.9 | 3340.7 | 3452.2 | 3563.7 | 3664.2 | 3765.1  |
| 17.5° | 3108.5 | 3227.9 | 3347.8 | 3466.8 | 3585.7 | 3679.6 | 3773.9  |
| 20°   | 3075.5 | 3216.1 | 3356.6 | 3484.4 | 3612.2 | 3707.3 | 3802.5  |
| 22.5° | 3035.0 | 3206.8 | 3378.6 | 3518.8 | 3659.3 | 3746.1 | 3833.4  |
| 25°   | 2987.4 | 3205.9 | 3424.5 | 3577.8 | 3731.1 | 3806.5 | 3881.8  |
| 27.5° | 2936.7 | 3214.3 | 3491.9 | 3664.2 | 3836.9 | 3894.6 | 3952.3  |
| 30°   | 2894.0 | 3232.4 | 3571.2 | 3766.4 | 3961.1 | 4006.1 | 4051.5  |
| 32.5° | 2848.6 | 3252.6 | 3657.1 | 3886.7 | 4116.2 | 4144.4 | 4172.6  |
| 35°   | 2773.7 | 3247.8 | 3722.3 | 4014.4 | 4307.0 | 4342.3 | 4377.5  |
| 37.5° | 2681.1 | 3234.1 | 3787.1 | 4170.4 | 4553.8 | 4595.6 | 4637.5  |
| 40°   | 2564.4 | 3203.3 | 3842.2 | 4348.9 | 4855.6 | 4938.4 | 5020.8  |
| 42.5° | 2416.8 | 3150.0 | 3882.7 | 4546.3 | 5209.0 | 5383.9 | 5558.4  |
| 45°   | 2264.8 | 3113.4 | 3962.0 | 4814.2 | 5666.3 | 5946.1 | 6225.9  |
| 47.5° | 2118.5 | 3070.6 | 4022.8 | 5089.5 | 6156.3 | 6510.5 | 6864.8  |
| 50°   | 1980.6 | 2997.9 | 4014.9 | 5329.7 | 6644.5 | 7124.7 | 7605.0  |
| 52.5° | 1840.9 | 2849.0 | 3857.6 | 5443.4 | 7028.7 | 7791.8 | 8554.5  |
| 55°   | 1710.5 | 2651.6 | 3591.9 | 5413.4 | 7234.9 | 8462.0 | 9689.1  |
| 57.5° | 1594.1 | 2445.0 | 3295.8 | 5249.9 | 7204.1 | 9024.7 | 10845.7 |
| 60°   | 1490.2 | 2183.7 | 2877.2 | 4858.2 | 6839.2 | 9276.7 | 11713.8 |
| 62.5° | 1352.7 | 1852.3 | 2352.0 | 4216.2 | 6080.5 | 8717.6 | 11354.7 |
| 65°   | 1191.9 | 1455.8 | 1719.3 | 3307.3 | 4895.2 | 7519.1 | 10143.0 |
| 67.5° | 987.9  | 1113.0 | 1238.1 | 2573.6 | 3909.1 | 6457.7 | 9006.2  |
| 70°   | 801.9  | 846.0  | 890.0  | 1972.2 | 3054.3 | 5486.1 | 7917.9  |
| 72.5° | 649.9  | 650.3  | 651.2  | 1482.7 | 2314.1 | 4555.5 | 6796.5  |
| 75°   | 482.5  | 485.1  | 488.2  | 1098.9 | 1709.6 | 3637.3 | 5565.0  |
| 77.5° | 353.4  | 351.6  | 349.0  | 710.3  | 1071.6 | 2386.4 | 3701.2  |
| 80°   | 225.6  | 223.8  | 221.2  | 392.6  | 564.0  | 1368.1 | 2172.2  |
| 82.5° | 137.5  | 137.0  | 136.6  | 211.1  | 285.5  | 685.6  | 1086.1  |
| 85°   | 60.8   | 57.7   | 55.1   | 67.0   | 79.3   | 163.0  | 246.7   |
| 87.5° | 19.8   | 18.5   | 17.6   | 18.1   | 18.5   | 19.4   | 19.8    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     |

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-4

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-730-U-5WQ

Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2407-184-4  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry: 4π  
 Issue Date: 10/15/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: McGraw-Edison  
 Catalog Number: **GSS-SB1A-730-U-5WQ**  
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 3000K CCT 26 LEDS

**Spectral Parameters**

CCT (K): 2985  
 CIE u': 0.2504  
 CIE v': 0.5243  
 Duv: 0.0019  
 CIE x: 0.4408  
 CIE y: 0.4101  
 CIE z: 0.1491  
 Peak Wavelength (nm): 595  
 Dominant Wavelength (nm): 582  
 Purity: 55.41818  
 Rf: 73.8  
 Rg: 94.4

|           |      |      |       |
|-----------|------|------|-------|
| CRI (Ra): | 70.8 |      |       |
| R1:       | 66.3 | R9:  | -43.2 |
| R2:       | 80.6 | R10: | 57.6  |
| R3:       | 94.5 | R11: | 64.8  |
| R4:       | 68.2 | R12: | 53.5  |
| R5:       | 66.5 | R13: | 68.7  |
| R6:       | 74.7 | R14: | 97.0  |
| R7:       | 76.2 | R15: | 56.4  |
| R8:       | 39.6 |      |       |



**Test Conditions**

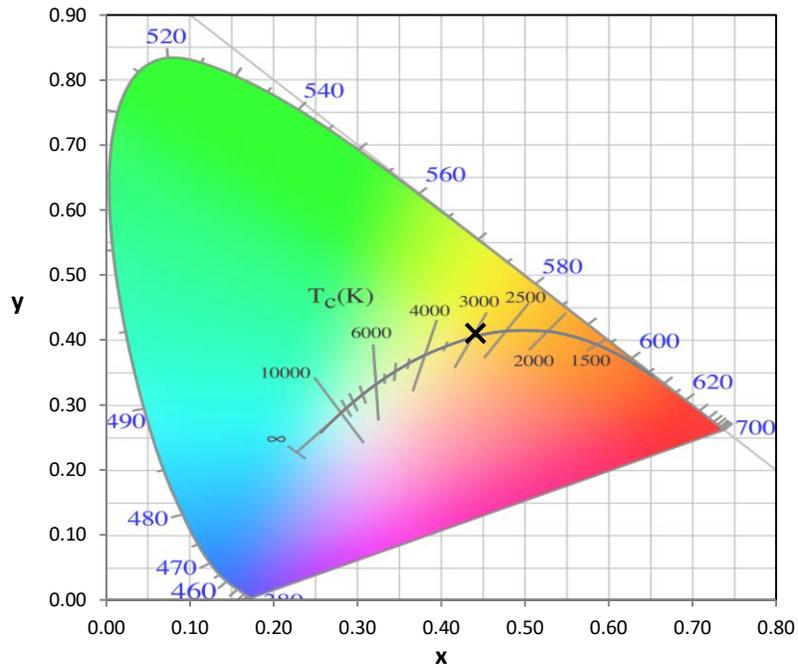
Stabilization Time: 36M  
 Operation Time: 1H 36M  
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

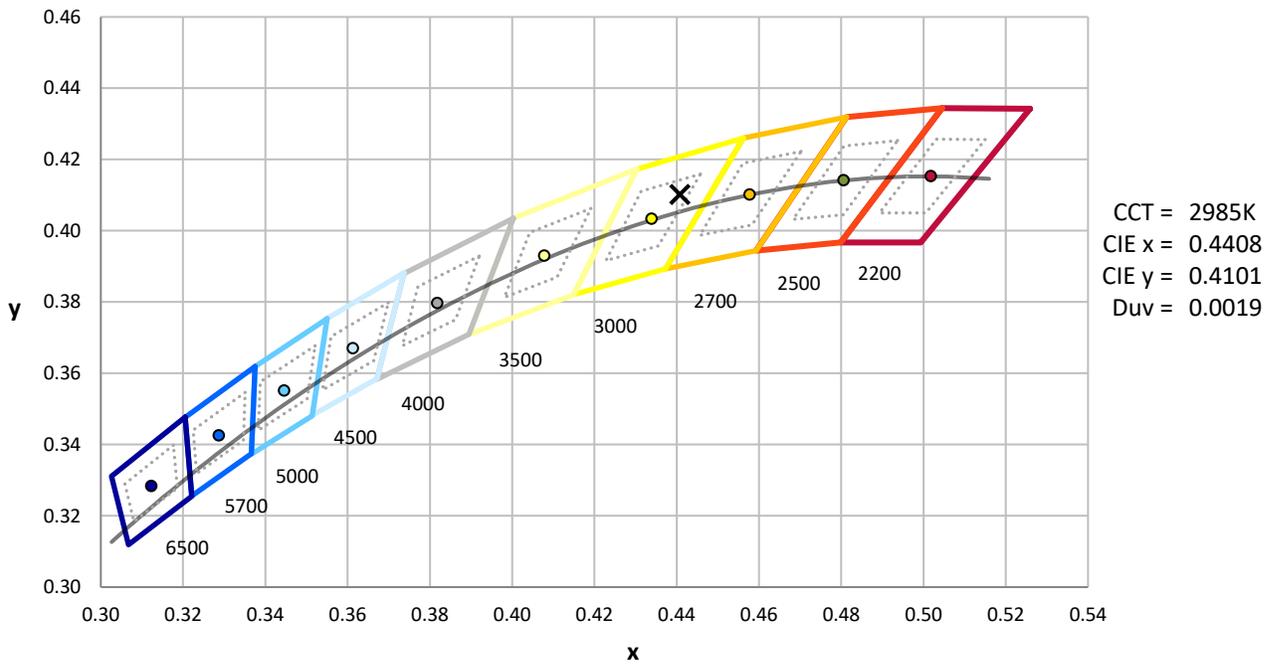
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| Photometer                     | IN0058                | 6/18/2024        | 12/18/2024           |
| Power Meter                    | INXT2011004           | 2/8/2024         | 2/8/2025             |
| AC Power Source                | IN0063                | 10/24/2023       | 10/24/2024           |
| DC Power Source                | IN0208                | 10/24/2023       | 10/24/2024           |
| Sphere Thermometer             | IN0085                | 10/24/2023       | 10/24/2024           |
| Room Thermometer               | IN0046                | 10/24/2023       | 10/24/2024           |

REPORT NUMBER: SP1-2407-184-4

**CIE 1931 Chromaticity Diagram**



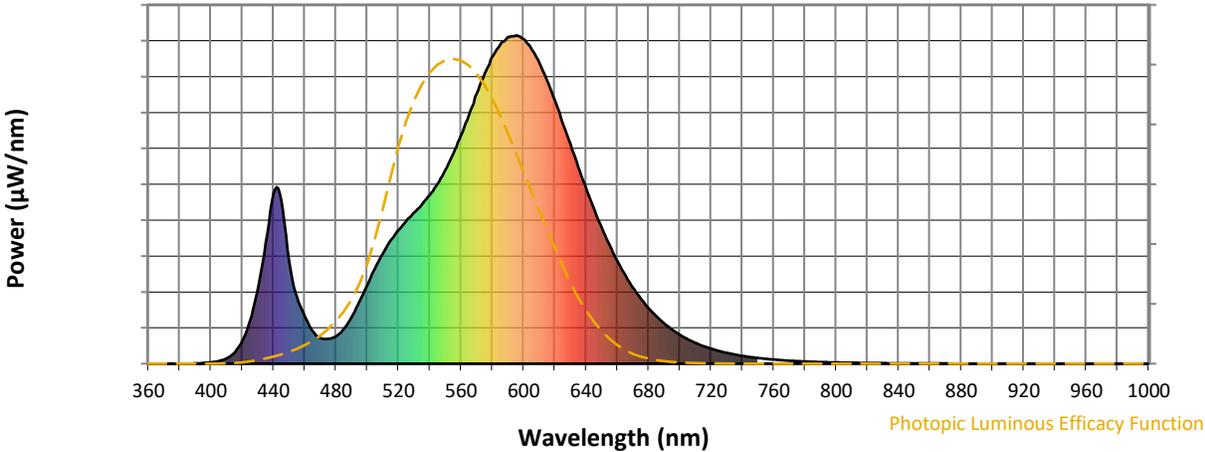
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

**Photopic Flux vs. Wavelength**



**Photopic Lumens: NR**

| $\lambda$<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>( $\phi$ /nm) | $\lambda$<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>( $\phi$ /nm) | $\lambda$<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>( $\phi$ /nm) | $\lambda$<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>( $\phi$ /nm) | $\lambda$<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>( $\phi$ /nm) |
|-------------------|-----------------------------|-------------------------|-------------------|-----------------------------|-------------------------|-------------------|-----------------------------|-------------------------|-------------------|-----------------------------|-------------------------|-------------------|-----------------------------|-------------------------|
| 360               | 0                           | NR                      | 490               | 142                         | NR                      | 620               | 803                         | NR                      | 750               | 17                          | NR                      | 880               | 0                           | NR                      |
| 365               | 0                           | NR                      | 495               | 189                         | NR                      | 625               | 734                         | NR                      | 755               | 15                          | NR                      | 885               | 0                           | NR                      |
| 370               | 0                           | NR                      | 500               | 240                         | NR                      | 630               | 670                         | NR                      | 760               | 13                          | NR                      | 890               | 0                           | NR                      |
| 375               | 0                           | NR                      | 505               | 290                         | NR                      | 635               | 600                         | NR                      | 765               | 11                          | NR                      | 895               | 0                           | NR                      |
| 380               | 0                           | NR                      | 510               | 335                         | NR                      | 640               | 535                         | NR                      | 770               | 9                           | NR                      | 900               | 0                           | NR                      |
| 385               | 0                           | NR                      | 515               | 375                         | NR                      | 645               | 473                         | NR                      | 775               | 8                           | NR                      | 905               | 0                           | NR                      |
| 390               | 1                           | NR                      | 520               | 408                         | NR                      | 650               | 415                         | NR                      | 780               | 7                           | NR                      | 910               | 0                           | NR                      |
| 395               | 2                           | NR                      | 525               | 434                         | NR                      | 655               | 362                         | NR                      | 785               | 6                           | NR                      | 915               | 0                           | NR                      |
| 400               | 4                           | NR                      | 530               | 461                         | NR                      | 660               | 313                         | NR                      | 790               | 5                           | NR                      | 920               | 0                           | NR                      |
| 405               | 8                           | NR                      | 535               | 486                         | NR                      | 665               | 271                         | NR                      | 795               | 4                           | NR                      | 925               | 0                           | NR                      |
| 410               | 16                          | NR                      | 540               | 514                         | NR                      | 670               | 231                         | NR                      | 800               | 4                           | NR                      | 930               | 0                           | NR                      |
| 415               | 33                          | NR                      | 545               | 549                         | NR                      | 675               | 198                         | NR                      | 805               | 3                           | NR                      | 935               | 0                           | NR                      |
| 420               | 69                          | NR                      | 550               | 591                         | NR                      | 680               | 169                         | NR                      | 810               | 3                           | NR                      | 940               | 0                           | NR                      |
| 425               | 131                         | NR                      | 555               | 640                         | NR                      | 685               | 144                         | NR                      | 815               | 2                           | NR                      | 945               | 0                           | NR                      |
| 430               | 227                         | NR                      | 560               | 695                         | NR                      | 690               | 123                         | NR                      | 820               | 2                           | NR                      | 950               | 0                           | NR                      |
| 435               | 369                         | NR                      | 565               | 757                         | NR                      | 695               | 104                         | NR                      | 825               | 2                           | NR                      | 955               | 0                           | NR                      |
| 440               | 517                         | NR                      | 570               | 822                         | NR                      | 700               | 88                          | NR                      | 830               | 2                           | NR                      | 960               | 0                           | NR                      |
| 445               | 498                         | NR                      | 575               | 882                         | NR                      | 705               | 75                          | NR                      | 835               | 1                           | NR                      | 965               | 0                           | NR                      |
| 450               | 315                         | NR                      | 580               | 935                         | NR                      | 710               | 63                          | NR                      | 840               | 1                           | NR                      | 970               | 0                           | NR                      |
| 455               | 204                         | NR                      | 585               | 972                         | NR                      | 715               | 54                          | NR                      | 845               | 1                           | NR                      | 975               | 0                           | NR                      |
| 460               | 145                         | NR                      | 590               | 996                         | NR                      | 720               | 46                          | NR                      | 850               | 1                           | NR                      | 980               | 0                           | NR                      |
| 465               | 100                         | NR                      | 595               | 1000                        | NR                      | 725               | 39                          | NR                      | 855               | 1                           | NR                      | 985               | 0                           | NR                      |
| 470               | 78                          | NR                      | 600               | 989                         | NR                      | 730               | 33                          | NR                      | 860               | 1                           | NR                      | 990               | 0                           | NR                      |
| 475               | 76                          | NR                      | 605               | 960                         | NR                      | 735               | 28                          | NR                      | 865               | 1                           | NR                      | 995               | 0                           | NR                      |
| 480               | 83                          | NR                      | 610               | 918                         | NR                      | 740               | 24                          | NR                      | 870               | 1                           | NR                      | 1000              | 0                           | NR                      |
| 485               | 105                         | NR                      | 615               | 864                         | NR                      | 745               | 20                          | NR                      | 875               | 1                           | NR                      |                   |                             |                         |

REPORT NUMBER: SP1-2407-184-4

**Scotopic Flux vs. Wavelength**



**Scotopic Lumens: NR**

**S/P: 1.19**

| λ (nm) | Power W <sup>^</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (φ/nm) |
|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|
| 360    | 0                        | NR            | 490    | 142                      | NR            | 620    | 803                      | NR            | 750    | 17                       | NR            | 880    | 0                        | NR            |
| 365    | 0                        | NR            | 495    | 189                      | NR            | 625    | 734                      | NR            | 755    | 15                       | NR            | 885    | 0                        | NR            |
| 370    | 0                        | NR            | 500    | 240                      | NR            | 630    | 670                      | NR            | 760    | 13                       | NR            | 890    | 0                        | NR            |
| 375    | 0                        | NR            | 505    | 290                      | NR            | 635    | 600                      | NR            | 765    | 11                       | NR            | 895    | 0                        | NR            |
| 380    | 0                        | NR            | 510    | 335                      | NR            | 640    | 535                      | NR            | 770    | 9                        | NR            | 900    | 0                        | NR            |
| 385    | 0                        | NR            | 515    | 375                      | NR            | 645    | 473                      | NR            | 775    | 8                        | NR            | 905    | 0                        | NR            |
| 390    | 1                        | NR            | 520    | 408                      | NR            | 650    | 415                      | NR            | 780    | 7                        | NR            | 910    | 0                        | NR            |
| 395    | 2                        | NR            | 525    | 434                      | NR            | 655    | 362                      | NR            | 785    | 6                        | NR            | 915    | 0                        | NR            |
| 400    | 4                        | NR            | 530    | 461                      | NR            | 660    | 313                      | NR            | 790    | 5                        | NR            | 920    | 0                        | NR            |
| 405    | 8                        | NR            | 535    | 486                      | NR            | 665    | 271                      | NR            | 795    | 4                        | NR            | 925    | 0                        | NR            |
| 410    | 16                       | NR            | 540    | 514                      | NR            | 670    | 231                      | NR            | 800    | 4                        | NR            | 930    | 0                        | NR            |
| 415    | 33                       | NR            | 545    | 549                      | NR            | 675    | 198                      | NR            | 805    | 3                        | NR            | 935    | 0                        | NR            |
| 420    | 69                       | NR            | 550    | 591                      | NR            | 680    | 169                      | NR            | 810    | 3                        | NR            | 940    | 0                        | NR            |
| 425    | 131                      | NR            | 555    | 640                      | NR            | 685    | 144                      | NR            | 815    | 2                        | NR            | 945    | 0                        | NR            |
| 430    | 227                      | NR            | 560    | 695                      | NR            | 690    | 123                      | NR            | 820    | 2                        | NR            | 950    | 0                        | NR            |
| 435    | 369                      | NR            | 565    | 757                      | NR            | 695    | 104                      | NR            | 825    | 2                        | NR            | 955    | 0                        | NR            |
| 440    | 517                      | NR            | 570    | 822                      | NR            | 700    | 88                       | NR            | 830    | 2                        | NR            | 960    | 0                        | NR            |
| 445    | 498                      | NR            | 575    | 882                      | NR            | 705    | 75                       | NR            | 835    | 1                        | NR            | 965    | 0                        | NR            |
| 450    | 315                      | NR            | 580    | 935                      | NR            | 710    | 63                       | NR            | 840    | 1                        | NR            | 970    | 0                        | NR            |
| 455    | 204                      | NR            | 585    | 972                      | NR            | 715    | 54                       | NR            | 845    | 1                        | NR            | 975    | 0                        | NR            |
| 460    | 145                      | NR            | 590    | 996                      | NR            | 720    | 46                       | NR            | 850    | 1                        | NR            | 980    | 0                        | NR            |
| 465    | 100                      | NR            | 595    | 1000                     | NR            | 725    | 39                       | NR            | 855    | 1                        | NR            | 985    | 0                        | NR            |
| 470    | 78                       | NR            | 600    | 989                      | NR            | 730    | 33                       | NR            | 860    | 1                        | NR            | 990    | 0                        | NR            |
| 475    | 76                       | NR            | 605    | 960                      | NR            | 735    | 28                       | NR            | 865    | 1                        | NR            | 995    | 0                        | NR            |
| 480    | 83                       | NR            | 610    | 918                      | NR            | 740    | 24                       | NR            | 870    | 1                        | NR            | 1000   | 0                        | NR            |
| 485    | 105                      | NR            | 615    | 864                      | NR            | 745    | 20                       | NR            | 875    | 1                        | NR            |        |                          |               |

REPORT NUMBER: SP1-2407-184-4

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.13

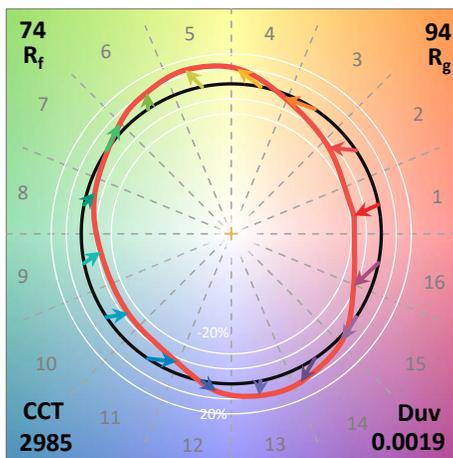
| λ (nm) | Power W <sup>^</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (φ/nm) |
|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|
| 360    | 0                        | NR            | 490    | 142                      | NR            | 620    | 803                      | NR            | 750    | 17                       | NR            | 880    | 0                        | NR            |
| 365    | 0                        | NR            | 495    | 189                      | NR            | 625    | 734                      | NR            | 755    | 15                       | NR            | 885    | 0                        | NR            |
| 370    | 0                        | NR            | 500    | 240                      | NR            | 630    | 670                      | NR            | 760    | 13                       | NR            | 890    | 0                        | NR            |
| 375    | 0                        | NR            | 505    | 290                      | NR            | 635    | 600                      | NR            | 765    | 11                       | NR            | 895    | 0                        | NR            |
| 380    | 0                        | NR            | 510    | 335                      | NR            | 640    | 535                      | NR            | 770    | 9                        | NR            | 900    | 0                        | NR            |
| 385    | 0                        | NR            | 515    | 375                      | NR            | 645    | 473                      | NR            | 775    | 8                        | NR            | 905    | 0                        | NR            |
| 390    | 1                        | NR            | 520    | 408                      | NR            | 650    | 415                      | NR            | 780    | 7                        | NR            | 910    | 0                        | NR            |
| 395    | 2                        | NR            | 525    | 434                      | NR            | 655    | 362                      | NR            | 785    | 6                        | NR            | 915    | 0                        | NR            |
| 400    | 4                        | NR            | 530    | 461                      | NR            | 660    | 313                      | NR            | 790    | 5                        | NR            | 920    | 0                        | NR            |
| 405    | 8                        | NR            | 535    | 486                      | NR            | 665    | 271                      | NR            | 795    | 4                        | NR            | 925    | 0                        | NR            |
| 410    | 16                       | NR            | 540    | 514                      | NR            | 670    | 231                      | NR            | 800    | 4                        | NR            | 930    | 0                        | NR            |
| 415    | 33                       | NR            | 545    | 549                      | NR            | 675    | 198                      | NR            | 805    | 3                        | NR            | 935    | 0                        | NR            |
| 420    | 69                       | NR            | 550    | 591                      | NR            | 680    | 169                      | NR            | 810    | 3                        | NR            | 940    | 0                        | NR            |
| 425    | 131                      | NR            | 555    | 640                      | NR            | 685    | 144                      | NR            | 815    | 2                        | NR            | 945    | 0                        | NR            |
| 430    | 227                      | NR            | 560    | 695                      | NR            | 690    | 123                      | NR            | 820    | 2                        | NR            | 950    | 0                        | NR            |
| 435    | 369                      | NR            | 565    | 757                      | NR            | 695    | 104                      | NR            | 825    | 2                        | NR            | 955    | 0                        | NR            |
| 440    | 517                      | NR            | 570    | 822                      | NR            | 700    | 88                       | NR            | 830    | 2                        | NR            | 960    | 0                        | NR            |
| 445    | 498                      | NR            | 575    | 882                      | NR            | 705    | 75                       | NR            | 835    | 1                        | NR            | 965    | 0                        | NR            |
| 450    | 315                      | NR            | 580    | 935                      | NR            | 710    | 63                       | NR            | 840    | 1                        | NR            | 970    | 0                        | NR            |
| 455    | 204                      | NR            | 585    | 972                      | NR            | 715    | 54                       | NR            | 845    | 1                        | NR            | 975    | 0                        | NR            |
| 460    | 145                      | NR            | 590    | 996                      | NR            | 720    | 46                       | NR            | 850    | 1                        | NR            | 980    | 0                        | NR            |
| 465    | 100                      | NR            | 595    | 1000                     | NR            | 725    | 39                       | NR            | 855    | 1                        | NR            | 985    | 0                        | NR            |
| 470    | 78                       | NR            | 600    | 989                      | NR            | 730    | 33                       | NR            | 860    | 1                        | NR            | 990    | 0                        | NR            |
| 475    | 76                       | NR            | 605    | 960                      | NR            | 735    | 28                       | NR            | 865    | 1                        | NR            | 995    | 0                        | NR            |
| 480    | 83                       | NR            | 610    | 918                      | NR            | 740    | 24                       | NR            | 870    | 1                        | NR            | 1000   | 0                        | NR            |
| 485    | 105                      | NR            | 615    | 864                      | NR            | 745    | 20                       | NR            | 875    | 1                        | NR            |        |                          |               |

**Summary**

$R_f = 73.8$   
 $R_g = 94.4$   
 CIE  $R_a = 70.8$   
 $R_g = -43.2$



**Color Vector Graphics**

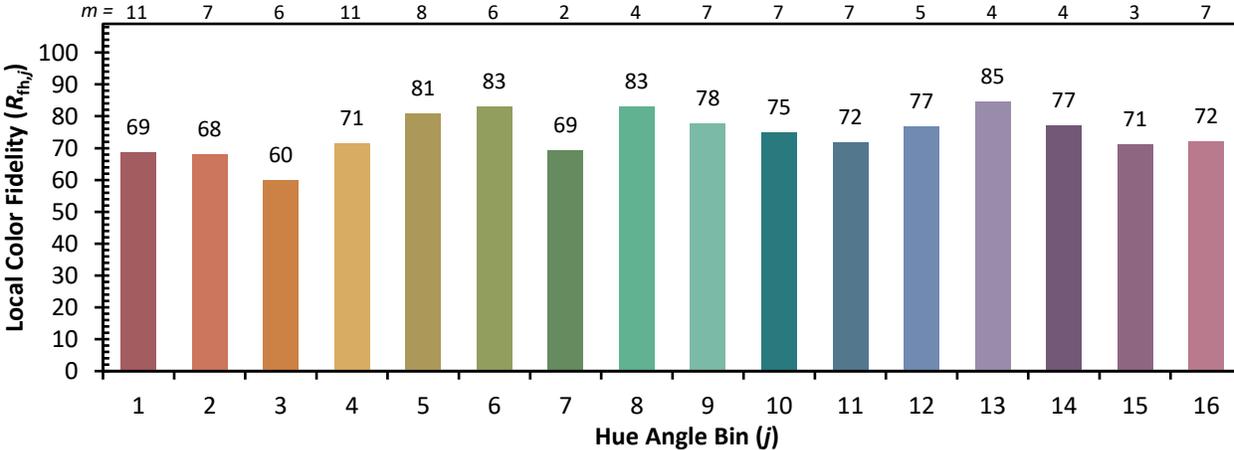


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 63 | CES51 = 86 | CES76 = 61 |
| CES02 = 62 | CES27 = 83 | CES52 = 86 | CES77 = 81 |
| CES03 = 31 | CES28 = 86 | CES53 = 75 | CES78 = 64 |
| CES04 = 71 | CES29 = 58 | CES54 = 81 | CES79 = 86 |
| CES05 = 49 | CES30 = 61 | CES55 = 80 | CES80 = 86 |
| CES06 = 51 | CES31 = 63 | CES56 = 71 | CES81 = 70 |
| CES07 = 41 | CES32 = 61 | CES57 = 69 | CES82 = 94 |
| CES08 = 40 | CES33 = 65 | CES58 = 72 | CES83 = 88 |
| CES09 = 29 | CES34 = 77 | CES59 = 85 | CES84 = 90 |
| CES10 = 76 | CES35 = 88 | CES60 = 93 | CES85 = 80 |
| CES11 = 59 | CES36 = 89 | CES61 = 86 | CES86 = 60 |
| CES12 = 65 | CES37 = 85 | CES62 = 81 | CES87 = 78 |
| CES13 = 43 | CES38 = 69 | CES63 = 73 | CES88 = 75 |
| CES14 = 74 | CES39 = 93 | CES64 = 72 | CES89 = 66 |
| CES15 = 71 | CES40 = 89 | CES65 = 67 | CES90 = 72 |
| CES16 = 47 | CES41 = 83 | CES66 = 70 | CES91 = 95 |
| CES17 = 50 | CES42 = 87 | CES67 = 68 | CES92 = 59 |
| CES18 = 56 | CES43 = 77 | CES68 = 73 | CES93 = 76 |
| CES19 = 73 | CES44 = 99 | CES69 = 83 | CES94 = 48 |
| CES20 = 66 | CES45 = 83 | CES70 = 66 | CES95 = 70 |
| CES21 = 87 | CES46 = 77 | CES71 = 66 | CES96 = 76 |
| CES22 = 79 | CES47 = 74 | CES72 = 88 | CES97 = 82 |
| CES23 = 92 | CES48 = 62 | CES73 = 59 | CES98 = 73 |
| CES24 = 91 | CES49 = 77 | CES74 = 93 | CES99 = 60 |
| CES25 = 73 | CES50 = 85 | CES75 = 67 |            |



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)