

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: P980874

Luminaire Tested: **UFLD-CA-140-730-U-33**

Issue Date: 04/10/2025



**Test Information**

Test Method: LM-79-08  
Report Number: P980874  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/10/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UFLD-CA-140-730-U-33  
Description: UTILITY FLOOD MEDIUM SIZE 140W 70CRI 3000K LED FIXTURE NEMA 3  
Light Source: (8) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

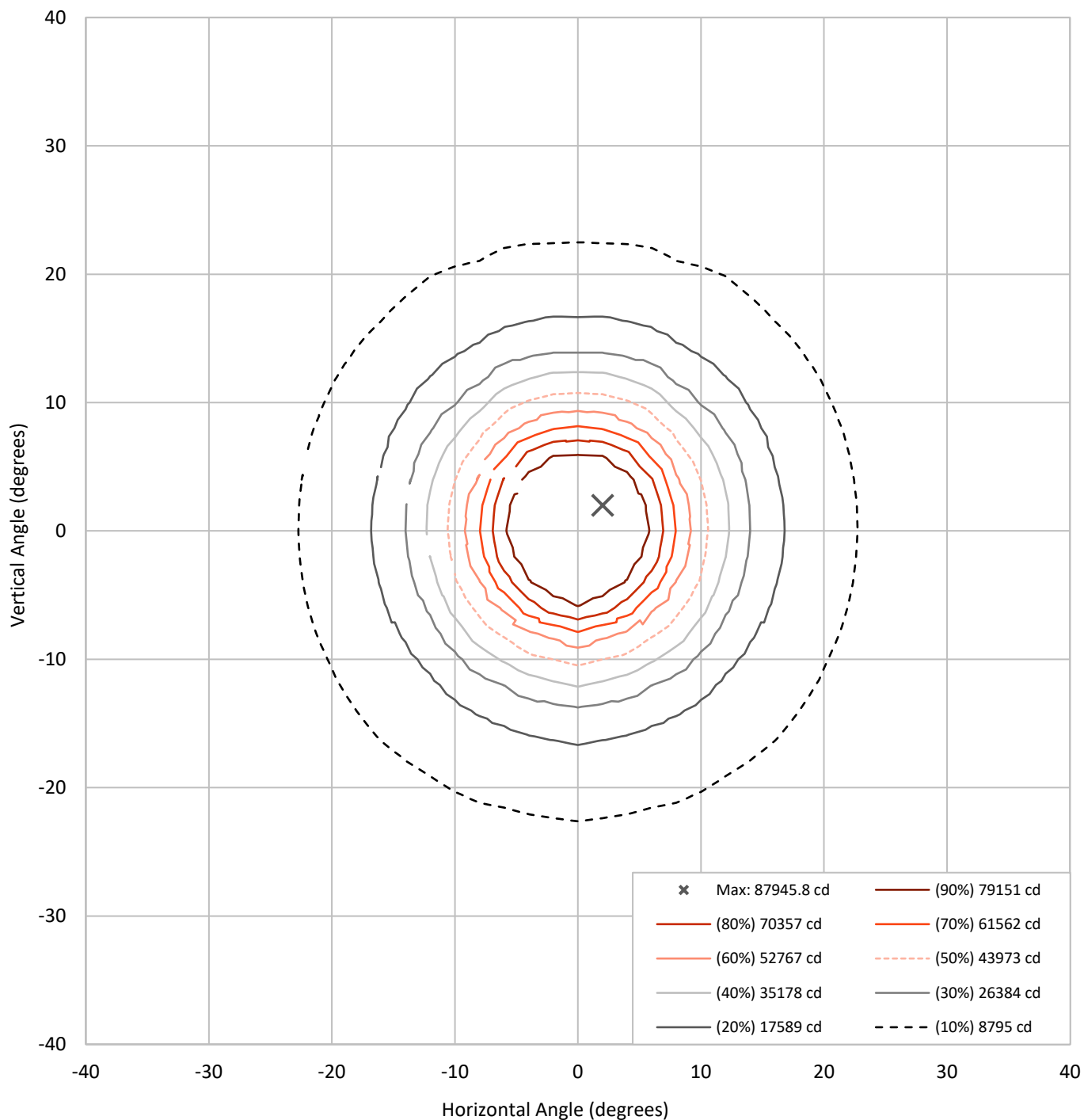
|                   |                                          |                      |                 |
|-------------------|------------------------------------------|----------------------|-----------------|
| Lumens per Lamp:  | N/A                                      | NEMA Type:           | 3H x 3V         |
| Luminaire Lumens: | 16076.3 lumens                           | Max Intensity:       | 87945.8 candela |
| Efficiency:       | N/A                                      | Max Intensity Angle: | 2°H x 2°V       |
| Efficacy:         | 117.0 lumens/watt                        |                      |                 |
| Luminous Opening: | Rectangular (W 0.75' x L: 0.38' x H: 0') |                      |                 |
| Beam Angle (50%): | 20.9°H x 20.7°V                          | Field Angle (10%):   | 45.3°H x 44.8°V |
| Beam Lumens:      | 6961.4 lumens                            | Field Lumens:        | 14180.6 lumens  |
| Beam Efficiency:  | 43.3%                                    | Field Efficiency:    | 88.2%           |

Input Watts (W): 137.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 2.72%  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Iso-Candela Plot





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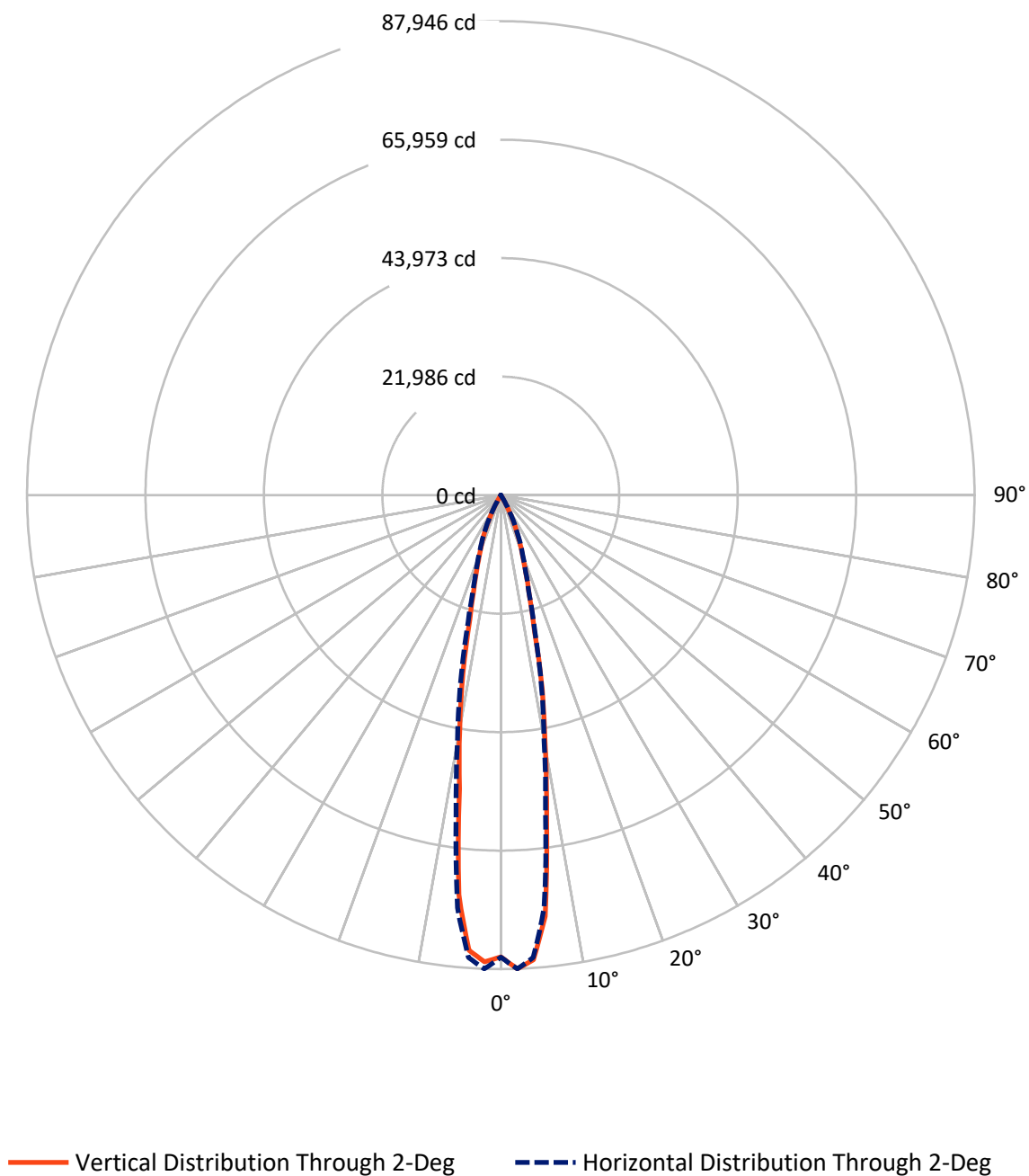
## Lumen Table

|     |     |  |     |     |     |     |       |       |        |        |       |       |     |     |     |     |
|-----|-----|--|-----|-----|-----|-----|-------|-------|--------|--------|-------|-------|-----|-----|-----|-----|
| 90  |     |  |     |     |     |     |       |       |        |        |       |       |     |     |     |     |
| 80  | 0.0 |  | 0.0 |     | 0.0 |     | 0.0   |       | 0.0    |        | 0.0   |       | 0.0 |     | 0.0 |     |
| 70  | 0.0 |  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0 | 0.0 | 0.0 |     |
| 60  |     |  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0 | 0.0 |     |     |
| 50  | 0.0 |  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0 | 0.0 | 0.0 |     |
| 40  |     |  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 1.1   | 4.4    | 4.4    | 1.1   | 0.0   | 0.0 | 0.0 |     |     |
| 30  | 0.0 |  | 0.0 | 0.0 | 0.0 | 0.0 | 8.9   | 84.0  | 169.7  | 169.7  | 84.0  | 8.9   | 0.0 | 0.0 | 0.0 | 0.0 |
| 20  |     |  | 0.0 | 0.0 | 0.0 | 1.5 | 82.6  | 325.3 | 667.1  | 667.1  | 325.3 | 82.6  | 1.5 | 0.0 | 0.0 |     |
| 10  | 0.0 |  | 0.0 | 0.0 | 0.0 | 7.1 | 165.0 | 651.1 | 1936.0 | 1936.0 | 651.1 | 165.0 | 7.1 | 0.0 | 0.0 | 0.0 |
| 0   |     |  | 0.0 | 0.0 | 0.0 | 6.8 | 161.8 | 628.1 | 1865.1 | 1865.1 | 628.1 | 161.8 | 6.8 | 0.0 | 0.0 |     |
| -10 | 0.0 |  | 0.0 | 0.0 | 0.0 | 1.3 | 76.5  | 311.6 | 626.5  | 626.5  | 311.6 | 76.5  | 1.3 | 0.0 | 0.0 | 0.0 |
| -20 |     |  | 0.0 | 0.0 | 0.0 | 0.0 | 7.2   | 78.4  | 165.8  | 165.8  | 78.4  | 7.2   | 0.0 | 0.0 | 0.0 |     |
| -30 | 0.0 |  | 0.0 | 0.0 | 0.0 | 0.0 | 0.7   | 4.6   | 4.6    | 0.7    | 0.0   | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |
| -40 |     |  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0 | 0.0 | 0.0 |     |
| -50 | 0.0 |  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |
| -60 |     |  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0 | 0.0 | 0.0 |     |
| -70 | 0.0 |  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |
| -80 |     |  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0 | 0.0 | 0.0 |     |
| -90 | 0.0 |  | 0.0 |     | 0.0 |     | 0.0   |       | 0.0    |        | 0.0   |       | 0.0 |     | 0.0 |     |

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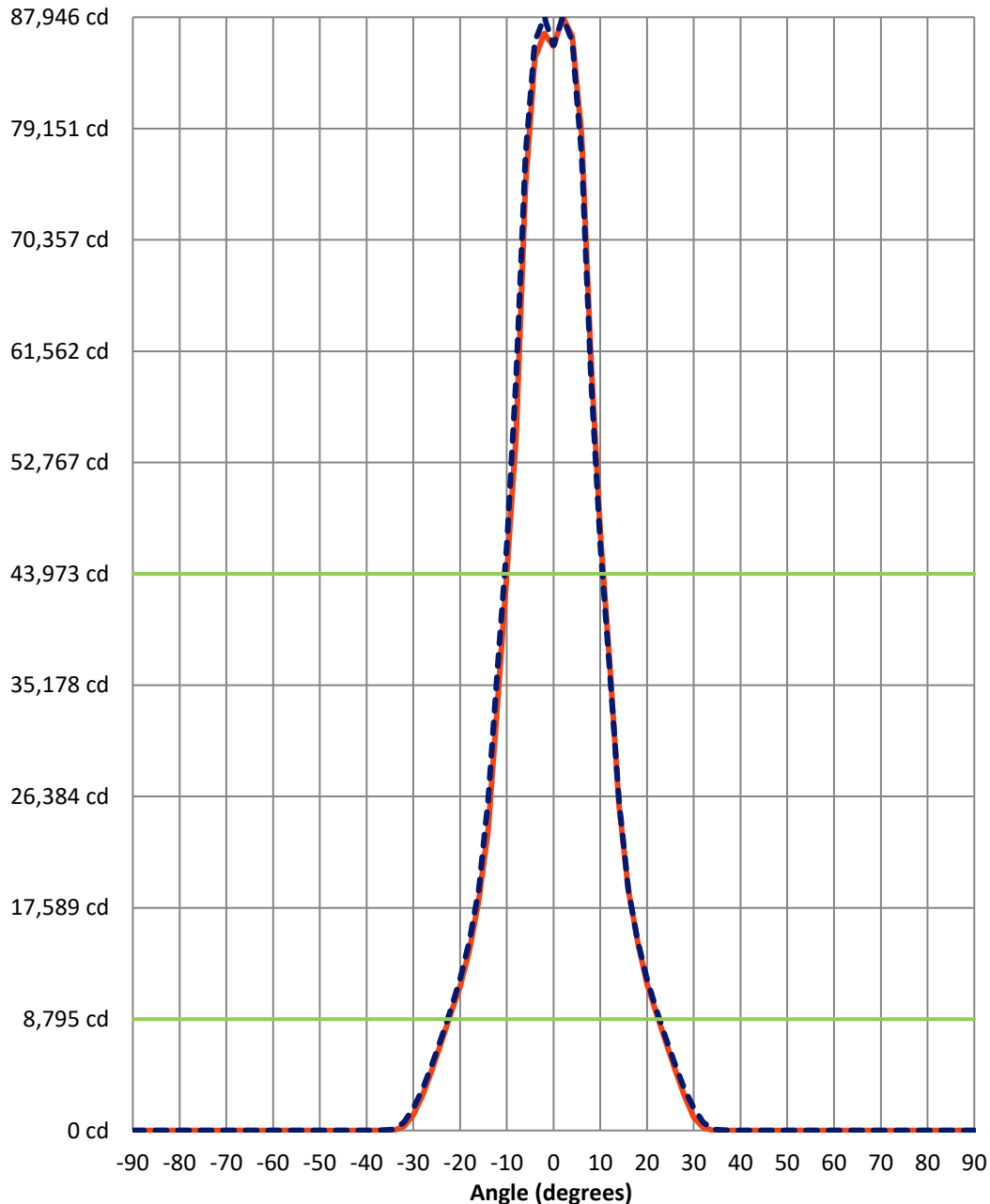
## Luminous Intensity Polar Plot



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## Luminous Intensity Plot



**Beam:**  
H Angle: 20.9°  
V Angle: 20.7°  
Lumens: 6961.4  
Efficiency: 43.3%

**Field:**  
H Angle: 45.3°  
V Angle: 44.8°  
Lumens: 14180.6  
Efficiency: 88.2%

**Spill:**  
Lumens: 1895.7  
Efficiency: 11.8%

— Vertical Distribution through 2-Deg  
- - Horizontal Distribution through 2-Deg



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FIELD  
BEAM

**CANDELA DISTRIBUTION:**

|     | 0°      | 2°      | 4°      | 6°      | 8°      | 10°     | 12°     | 14°     | 16°     | 18°     | 20°     |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 90° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 88° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 86° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 84° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 82° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 80° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 78° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 76° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 74° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 72° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 70° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 68° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 66° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 64° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 62° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 60° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 58° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 56° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 54° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 52° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 50° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 48° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 46° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 44° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 42° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 40° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 38° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 36° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 34° | 8.3     | 16.6    | 8.3     | 8.3     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 32° | 211.4   | 244.6   | 232.1   | 294.3   | 190.7   | 199.0   | 99.5    | 12.4    | 0.0     | 0.0     | 0.0     |
| 30° | 970.0   | 1032.2  | 1003.2  | 1131.7  | 758.6   | 779.3   | 559.6   | 277.7   | 124.4   | 33.2    | 0.0     |
| 28° | 2694.5  | 2748.4  | 2628.2  | 2599.2  | 1981.5  | 1919.3  | 1558.7  | 949.3   | 547.2   | 273.6   | 70.5    |
| 26° | 4775.6  | 4804.6  | 4692.7  | 4564.1  | 3726.8  | 3565.1  | 3038.6  | 2047.9  | 1397.0  | 841.5   | 418.7   |
| 24° | 7030.7  | 7005.8  | 6927.1  | 6678.3  | 5733.2  | 5447.1  | 4825.3  | 3602.4  | 2661.4  | 1803.3  | 1131.7  |
| 22° | 9348.0  | 9256.8  | 9186.3  | 8842.3  | 7830.8  | 7416.2  | 6732.2  | 5380.8  | 4186.9  | 3088.4  | 2163.9  |
| 20° | 11673.6 | 11582.4 | 11445.6 | 11047.6 | 9853.7  | 9381.2  | 8655.7  | 7262.8  | 5870.0  | 4609.7  | 3386.8  |
| 18° | 14820.0 | 14902.9 | 14529.8 | 13812.7 | 12216.7 | 11391.7 | 10417.5 | 9020.5  | 7532.3  | 6127.0  | 4709.2  |
| 16° | 18961.3 | 19040.1 | 18215.1 | 17257.5 | 15068.7 | 13941.2 | 12428.1 | 10666.3 | 9057.8  | 7648.4  | 6093.8  |
| 14° | 25784.7 | 25718.4 | 24126.5 | 22256.9 | 18828.7 | 16809.8 | 14869.7 | 12573.2 | 10537.7 | 8970.8  | 7329.2  |
| 12° | 37371.3 | 36994.0 | 34357.5 | 30651.5 | 24097.5 | 20449.5 | 17655.5 | 14695.6 | 12092.3 | 10185.4 | 8427.7  |
| 10° | 47875.9 | 47341.1 | 44804.1 | 40459.6 | 32280.7 | 25714.3 | 20971.9 | 16938.3 | 13816.8 | 11458.0 | 9389.5  |
| 8°  | 62733.2 | 61004.5 | 55433.0 | 48655.2 | 41040.0 | 32803.0 | 25523.6 | 19413.2 | 15446.0 | 12618.8 | 10284.9 |
| 6°  | 78850.7 | 78585.4 | 72052.1 | 59408.5 | 47743.2 | 39410.8 | 30311.6 | 22169.9 | 16942.5 | 13638.5 | 11018.6 |
| 4°  | 86756.1 | 86424.4 | 82063.4 | 71073.8 | 53919.9 | 43850.6 | 34171.0 | 24507.9 | 18186.1 | 14434.5 | 11553.4 |
| 2°  | 85744.6 | 87945.8 | 86005.7 | 76985.2 | 59545.3 | 46255.0 | 36392.9 | 26079.1 | 19019.3 | 14973.4 | 11951.3 |



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**CANDELA DISTRIBUTION (continued):**

|      | 0°      | 2°      | 4°      | 6°      | 8°      | 10°     | 12°     | 14°     | 16°     | 18°     | 20°     |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°   | 85255.4 | 85670.0 | 86279.3 | 78357.4 | 61153.7 | 46914.1 | 36741.2 | 26394.1 | 19263.9 | 15122.6 | 12013.5 |
| -2°  | 87427.6 | 86652.4 | 84583.9 | 75269.0 | 58368.0 | 45799.0 | 35286.1 | 25366.0 | 18853.5 | 14857.3 | 11785.5 |
| -4°  | 86523.9 | 84670.9 | 78552.2 | 66406.0 | 52352.9 | 43096.1 | 31978.0 | 23347.2 | 17924.9 | 14268.7 | 11354.4 |
| -6°  | 78552.2 | 74572.6 | 66074.4 | 54073.3 | 46259.1 | 37872.9 | 27641.9 | 20859.9 | 16594.3 | 13398.1 | 10720.1 |
| -8°  | 60378.5 | 55035.1 | 51341.5 | 45301.5 | 39531.1 | 30896.1 | 23119.2 | 18372.7 | 15072.9 | 12349.3 | 9986.4  |
| -10° | 46553.5 | 44008.1 | 41686.7 | 36264.4 | 30792.4 | 24458.2 | 19280.5 | 16022.2 | 13456.1 | 11192.7 | 9120.0  |
| -12° | 35858.2 | 33686.0 | 30933.4 | 26518.5 | 23198.0 | 19661.9 | 16266.8 | 13912.1 | 11893.3 | 10036.1 | 8195.6  |
| -14° | 25104.9 | 23753.5 | 22373.0 | 20068.1 | 18331.2 | 16121.7 | 13742.2 | 11934.8 | 10442.4 | 8800.8  | 7055.6  |
| -16° | 18936.4 | 18198.5 | 17402.6 | 15951.7 | 14894.6 | 13323.5 | 11549.2 | 10268.3 | 9070.3  | 7499.1  | 5824.4  |
| -18° | 14898.8 | 14231.3 | 13750.5 | 12850.9 | 12137.9 | 10981.3 | 9787.4  | 8705.5  | 7544.7  | 5981.9  | 4460.5  |
| -20° | 11731.6 | 11383.4 | 10977.2 | 10421.7 | 10019.6 | 9120.0  | 7988.3  | 6943.6  | 5874.1  | 4431.5  | 3146.4  |
| -22° | 9497.2  | 9211.2  | 8871.3  | 8332.4  | 7934.4  | 7097.0  | 6027.5  | 5231.6  | 4257.4  | 3001.3  | 1985.7  |
| -24° | 7258.7  | 6985.1  | 6686.6  | 6168.4  | 5782.9  | 5053.3  | 4145.5  | 3511.2  | 2752.6  | 1703.8  | 978.3   |
| -26° | 5069.9  | 4796.3  | 4555.9  | 4070.8  | 3751.6  | 3154.7  | 2470.7  | 2002.3  | 1430.2  | 725.5   | 331.6   |
| -28° | 3051.1  | 2794.0  | 2632.4  | 2209.5  | 1985.7  | 1567.0  | 1169.0  | 862.3   | 547.2   | 215.6   | 41.5    |
| -30° | 1401.2  | 1239.5  | 1140.0  | 862.3   | 758.6   | 522.3   | 352.4   | 244.6   | 124.4   | 20.7    | 0.0     |
| -32° | 406.3   | 327.5   | 277.7   | 203.1   | 186.5   | 99.5    | 37.3    | 12.4    | 4.1     | 0.0     | 0.0     |
| -34° | 62.2    | 37.3    | 12.4    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| -36° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| -38° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| -40° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| -42° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| -44° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| -46° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| -48° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| -50° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| -52° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| -54° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| -56° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| -58° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| -60° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| -62° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| -64° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| -66° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| -68° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| -70° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| -72° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| -74° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| -76° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| -78° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| -80° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| -82° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| -84° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| -86° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| -88° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



REPORT NUMBER: P980874  
CATALOG NUMBER: UFLD-CA-140-730-U-33

CANDELA DISTRIBUTION (continued):

|      | 0°  | 2°  | 4°  | 6°  | 8°  | 10° | 12° | 14° | 16° | 18° | 20° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| -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: P980874

CATALOG NUMBER: UFLD-CA-140-730-U-33

**CANDELA DISTRIBUTION (continued):**

|     | 22°    | 24°    | 26°    | 28°    | 30°    | 32°   | 34°  | 36°  | 38° | 40° | 42° |
|-----|--------|--------|--------|--------|--------|-------|------|------|-----|-----|-----|
| 90° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 88° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 86° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 84° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 82° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 80° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 78° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 76° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 74° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 72° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 70° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 68° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 66° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 64° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 62° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 60° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 58° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 56° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 54° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 52° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 50° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 48° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 46° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 44° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 42° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 40° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 38° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 36° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 34° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 32° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 30° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 28° | 20.7   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 26° | 190.7  | 33.2   | 8.3    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 24° | 596.9  | 178.3  | 70.5   | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 22° | 1310.0 | 530.6  | 232.1  | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 20° | 2234.4 | 1185.6 | 563.8  | 58.0   | 33.2   | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 18° | 3291.5 | 2002.3 | 1052.9 | 232.1  | 124.4  | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 16° | 4427.3 | 2897.7 | 1683.1 | 580.4  | 302.6  | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 14° | 5488.6 | 3809.7 | 2367.1 | 1077.8 | 522.3  | 53.9  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 12° | 6537.4 | 4705.1 | 3055.2 | 1596.0 | 787.6  | 140.9 | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 10° | 7461.8 | 5509.3 | 3701.9 | 2089.3 | 1048.8 | 248.7 | 4.1  | 4.1  | 0.0 | 0.0 | 0.0 |
| 8°  | 8232.9 | 6185.0 | 4253.2 | 2520.4 | 1297.5 | 385.5 | 29.0 | 12.4 | 0.0 | 0.0 | 0.0 |
| 6°  | 8846.4 | 6728.1 | 4705.1 | 2872.8 | 1508.9 | 505.7 | 53.9 | 20.7 | 0.0 | 0.0 | 0.0 |
| 4°  | 9273.4 | 7109.5 | 5036.7 | 3134.0 | 1670.6 | 601.1 | 74.6 | 33.2 | 0.0 | 0.0 | 0.0 |
| 2°  | 9534.5 | 7316.7 | 5219.1 | 3279.1 | 1761.8 | 659.1 | 91.2 | 37.3 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P980874

CATALOG NUMBER: UFLD-CA-140-730-U-33

**CANDELA DISTRIBUTION (continued):**

|      | 22°    | 24°    | 26°    | 28°    | 30°    | 32°   | 34°  | 36°  | 38° | 40° | 42° |
|------|--------|--------|--------|--------|--------|-------|------|------|-----|-----|-----|
| 0°   | 9605.0 | 7378.9 | 5268.9 | 3316.4 | 1790.8 | 679.9 | 95.3 | 41.5 | 0.0 | 0.0 | 0.0 |
| -2°  | 9480.7 | 7279.4 | 5173.5 | 3233.5 | 1732.8 | 650.8 | 91.2 | 37.3 | 0.0 | 0.0 | 0.0 |
| -4°  | 9182.2 | 7014.1 | 4924.8 | 3042.8 | 1612.6 | 580.4 | 74.6 | 33.2 | 0.0 | 0.0 | 0.0 |
| -6°  | 8717.9 | 6591.3 | 4547.6 | 2744.3 | 1426.0 | 476.7 | 49.7 | 20.7 | 0.0 | 0.0 | 0.0 |
| -8°  | 8087.8 | 6015.1 | 4062.5 | 2358.8 | 1193.9 | 352.4 | 24.9 | 12.4 | 0.0 | 0.0 | 0.0 |
| -10° | 7283.6 | 5285.5 | 3469.7 | 1911.1 | 941.0  | 223.9 | 4.1  | 0.0  | 0.0 | 0.0 | 0.0 |
| -12° | 6342.5 | 4439.8 | 2798.2 | 1413.6 | 684.0  | 124.4 | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -14° | 5277.2 | 3515.3 | 2089.3 | 891.3  | 431.1  | 45.6  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -16° | 4141.3 | 2574.3 | 1413.6 | 406.3  | 215.6  | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -18° | 3009.6 | 1674.8 | 837.4  | 136.8  | 74.6   | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -20° | 1956.7 | 878.8  | 406.3  | 29.0   | 16.6   | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -22° | 1090.3 | 302.6  | 140.9  | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -24° | 464.3  | 95.3   | 41.5   | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -26° | 136.8  | 12.4   | 4.1    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -28° | 12.4   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -30° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -32° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -34° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -36° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -38° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -40° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -42° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -44° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -46° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -48° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -50° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -52° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -54° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -56° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -58° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -60° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -62° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -64° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -66° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -68° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -70° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -72° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -74° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -76° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -78° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -80° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -82° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -84° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -86° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -88° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P980874  
CATALOG NUMBER: UFLD-CA-140-730-U-33

**CANDELA DISTRIBUTION (continued):**

|      | 22° | 24° | 26° | 28° | 30° | 32° | 34° | 36° | 38° | 40° | 42° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| -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: P980874

CATALOG NUMBER: UFLD-CA-140-730-U-33

**CANDELA DISTRIBUTION (continued):**

|     | 44° | 46° | 48° | 50° | 52° | 54° | 56° | 58° | 60° | 62° | 64° |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 88° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 86° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 84° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 78° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 76° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 74° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 68° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 66° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 64° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 58° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 56° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 54° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 48° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 46° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 44° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 38° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 36° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 34° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 28° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 26° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 24° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 22° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 20° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 18° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 16° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 8°  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6°  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4°  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2°  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P980874

CATALOG NUMBER: UFLD-CA-140-730-U-33

**CANDELA DISTRIBUTION (continued):**

|      | 44° | 46° | 48° | 50° | 52° | 54° | 56° | 58° | 60° | 62° | 64° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -2°  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -4°  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -6°  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -8°  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -10° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -12° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -14° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -16° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -18° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -20° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -22° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -24° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -26° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -28° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -30° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -32° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -34° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -36° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -38° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -40° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -42° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -44° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -46° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -48° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -50° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -52° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -54° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -56° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -58° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -60° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -62° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -64° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -66° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -68° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -72° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -74° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -76° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -78° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -82° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -84° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -86° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -88° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P980874  
CATALOG NUMBER: UFLD-CA-140-730-U-33

**CANDELA DISTRIBUTION (continued):**

|      | 44° | 46° | 48° | 50° | 52° | 54° | 56° | 58° | 60° | 62° | 64° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| -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: P980874

CATALOG NUMBER: UFLD-CA-140-730-U-33

**CANDELA DISTRIBUTION (continued):**

|     | 66° | 68° | 70° | 72° | 74° | 76° | 78° | 80° | 82° | 84° | 86° |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 88° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 86° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 84° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 78° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 76° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 74° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 68° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 66° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 64° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 58° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 56° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 54° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 48° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 46° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 44° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 38° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 36° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 34° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 28° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 26° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 24° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 22° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 20° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 18° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 16° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 8°  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6°  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4°  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2°  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P980874

CATALOG NUMBER: UFLD-CA-140-730-U-33

**CANDELA DISTRIBUTION (continued):**

|      | 66° | 68° | 70° | 72° | 74° | 76° | 78° | 80° | 82° | 84° | 86° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -2°  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -4°  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -6°  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -8°  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -10° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -12° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -14° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -16° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -18° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -20° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -22° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -24° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -26° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -28° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -30° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -32° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -34° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -36° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -38° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -40° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -42° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -44° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -46° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -48° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -50° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -52° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -54° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -56° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -58° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -60° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -62° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -64° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -66° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -68° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -72° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -74° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -76° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -78° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -82° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -84° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -86° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -88° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P980874  
CATALOG NUMBER: UFLD-CA-140-730-U-33

**CANDELA DISTRIBUTION (continued):**

|      | 66° | 68° | 70° | 72° | 74° | 76° | 78° | 80° | 82° | 84° | 86° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| -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: P980874

CATALOG NUMBER: UFLD-CA-140-730-U-33

**CANDELA DISTRIBUTION (continued):**

|     | 88° | 90° |
|-----|-----|-----|
| 90° | 0.0 | 0.0 |
| 88° | 0.0 | 0.0 |
| 86° | 0.0 | 0.0 |
| 84° | 0.0 | 0.0 |
| 82° | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 |
| 78° | 0.0 | 0.0 |
| 76° | 0.0 | 0.0 |
| 74° | 0.0 | 0.0 |
| 72° | 0.0 | 0.0 |
| 70° | 0.0 | 0.0 |
| 68° | 0.0 | 0.0 |
| 66° | 0.0 | 0.0 |
| 64° | 0.0 | 0.0 |
| 62° | 0.0 | 0.0 |
| 60° | 0.0 | 0.0 |
| 58° | 0.0 | 0.0 |
| 56° | 0.0 | 0.0 |
| 54° | 0.0 | 0.0 |
| 52° | 0.0 | 0.0 |
| 50° | 0.0 | 0.0 |
| 48° | 0.0 | 0.0 |
| 46° | 0.0 | 0.0 |
| 44° | 0.0 | 0.0 |
| 42° | 0.0 | 0.0 |
| 40° | 0.0 | 0.0 |
| 38° | 0.0 | 0.0 |
| 36° | 0.0 | 0.0 |
| 34° | 0.0 | 0.0 |
| 32° | 0.0 | 0.0 |
| 30° | 0.0 | 0.0 |
| 28° | 0.0 | 0.0 |
| 26° | 0.0 | 0.0 |
| 24° | 0.0 | 0.0 |
| 22° | 0.0 | 0.0 |
| 20° | 0.0 | 0.0 |
| 18° | 0.0 | 0.0 |
| 16° | 0.0 | 0.0 |
| 14° | 0.0 | 0.0 |
| 12° | 0.0 | 0.0 |
| 10° | 0.0 | 0.0 |
| 8°  | 0.0 | 0.0 |
| 6°  | 0.0 | 0.0 |
| 4°  | 0.0 | 0.0 |
| 2°  | 0.0 | 0.0 |



REPORT NUMBER: P980874

CATALOG NUMBER: UFLD-CA-140-730-U-33

**CANDELA DISTRIBUTION (continued):**

|      | 88° | 90° |
|------|-----|-----|
| 0°   | 0.0 | 0.0 |
| -2°  | 0.0 | 0.0 |
| -4°  | 0.0 | 0.0 |
| -6°  | 0.0 | 0.0 |
| -8°  | 0.0 | 0.0 |
| -10° | 0.0 | 0.0 |
| -12° | 0.0 | 0.0 |
| -14° | 0.0 | 0.0 |
| -16° | 0.0 | 0.0 |
| -18° | 0.0 | 0.0 |
| -20° | 0.0 | 0.0 |
| -22° | 0.0 | 0.0 |
| -24° | 0.0 | 0.0 |
| -26° | 0.0 | 0.0 |
| -28° | 0.0 | 0.0 |
| -30° | 0.0 | 0.0 |
| -32° | 0.0 | 0.0 |
| -34° | 0.0 | 0.0 |
| -36° | 0.0 | 0.0 |
| -38° | 0.0 | 0.0 |
| -40° | 0.0 | 0.0 |
| -42° | 0.0 | 0.0 |
| -44° | 0.0 | 0.0 |
| -46° | 0.0 | 0.0 |
| -48° | 0.0 | 0.0 |
| -50° | 0.0 | 0.0 |
| -52° | 0.0 | 0.0 |
| -54° | 0.0 | 0.0 |
| -56° | 0.0 | 0.0 |
| -58° | 0.0 | 0.0 |
| -60° | 0.0 | 0.0 |
| -62° | 0.0 | 0.0 |
| -64° | 0.0 | 0.0 |
| -66° | 0.0 | 0.0 |
| -68° | 0.0 | 0.0 |
| -70° | 0.0 | 0.0 |
| -72° | 0.0 | 0.0 |
| -74° | 0.0 | 0.0 |
| -76° | 0.0 | 0.0 |
| -78° | 0.0 | 0.0 |
| -80° | 0.0 | 0.0 |
| -82° | 0.0 | 0.0 |
| -84° | 0.0 | 0.0 |
| -86° | 0.0 | 0.0 |
| -88° | 0.0 | 0.0 |



REPORT NUMBER: P980874

CATALOG NUMBER: UFLD-CA-140-730-U-33

**CANDELA DISTRIBUTION (continued):**

|      | 88° | 90° |
|------|-----|-----|
| -90° | 0.0 | 0.0 |

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

Report Prepared for

Cooper Lighting Solutions

Lumark

Report Number: SP1-2501-319-3

Test Date: 02/04/2025

Luminaire Tested: NFFLD-C25-7030-33

Data in this report applies to families of products including NFFLD-C25-7030-33

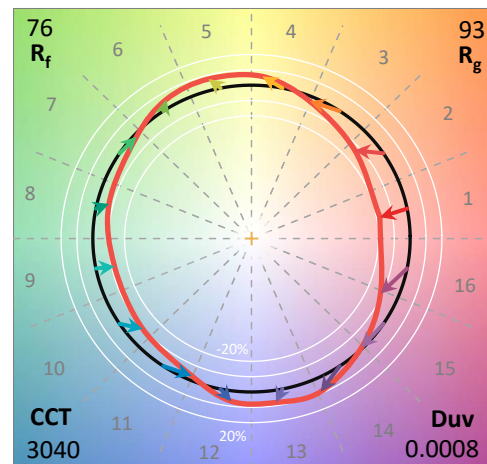
### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2501-319-3  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry:  $4\pi$   
 Issue Date: 02/06/2025  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: Lumark  
 Catalog Number: **NFFLD-C25-7030-33**  
 Description: LUMARK NIGHT FALCON 10500LM NEMA 3

### Spectral Parameters

CCT (K): 3040  
 CIE  $u'$ : 0.2489  
 CIE  $v'$ : 0.5217  
 Duv: 0.0008  
 CIE x: 0.4353  
 CIE y: 0.4056  
 CIE z: 0.1592  
 Peak Wavelength (nm): 591  
 Dominant Wavelength (nm): 582  
 Purity: 52.38868  
 R<sub>f</sub>: 76.2  
 R<sub>g</sub>: 92.6

CRI (Ra): 71.0  
 R1: 66.4  
 R2: 83.1  
 R3: 94.1  
 R4: 66.5  
 R5: 67.3  
 R6: 78.1  
 R7: 74.9  
 R8: 37.8  
 R9: -45.2  
 R10: 63.6  
 R11: 62.6  
 R12: 58.3  
 R13: 69.7  
 R14: 96.8  
 R15: 56.6



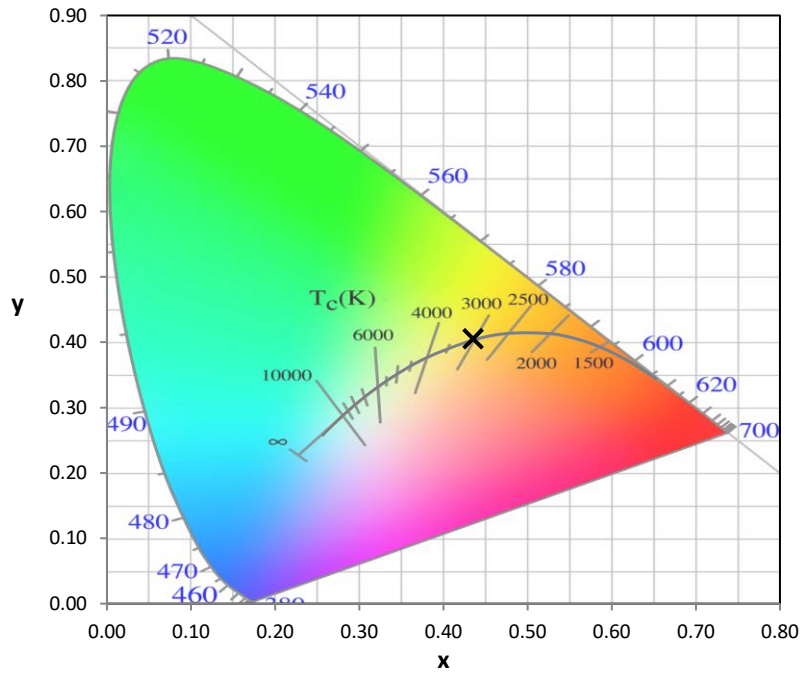
**Test Conditions**  
 Stabilization Time: 40M  
 Operation Time: 1H 40M  
 Sphere Temperature (°C): 24.9

REPORT NUMBER: SP1-2501-319-3

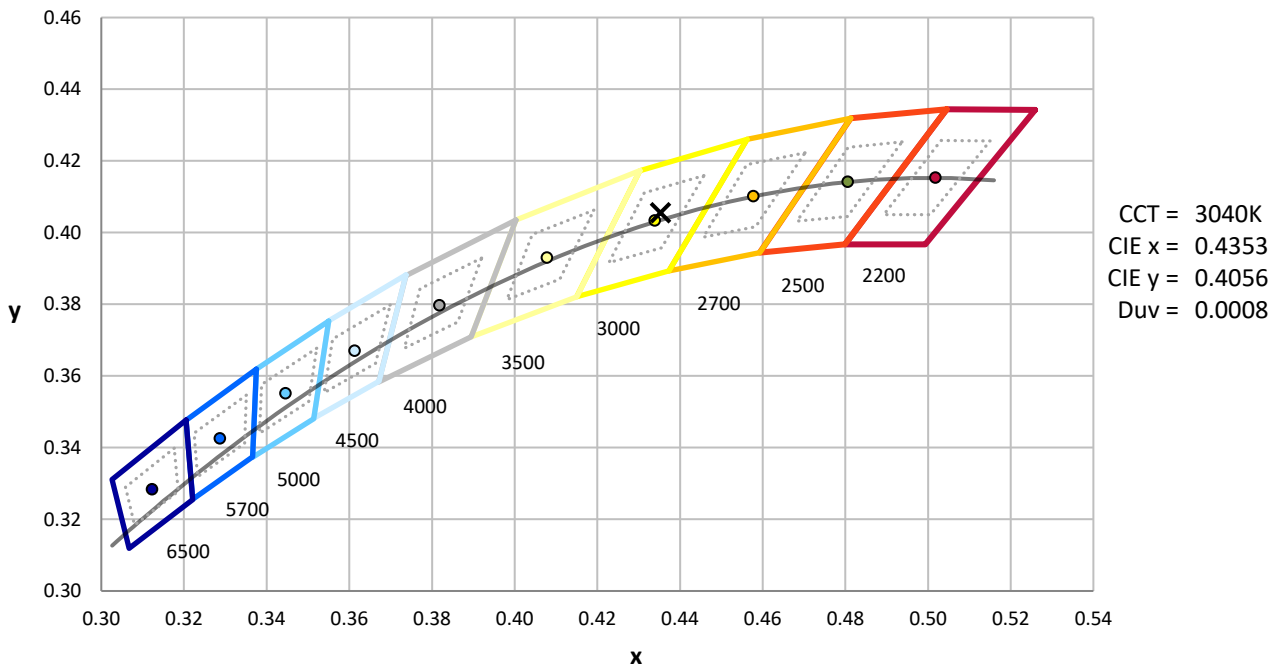
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| Photometer                     | IN0058                | 12/16/2024       | 6/16/2025            |
| Power Meter                    | INXT2011004           | 1/21/2025        | 1/21/2026            |
| AC Power Source                | IN0063                | 10/22/2024       | 10/22/2025           |
| DC Power Source                | IN0208                | 10/22/2024       | 10/22/2025           |
| Sphere Thermometer             | IN0085                | 10/22/2024       | 10/22/2025           |
| Room Thermometer               | IN0046                | 10/22/2024       | 10/22/2025           |

REPORT NUMBER: SP1-2501-319-3

**CIE 1931 Chromaticity Diagram**

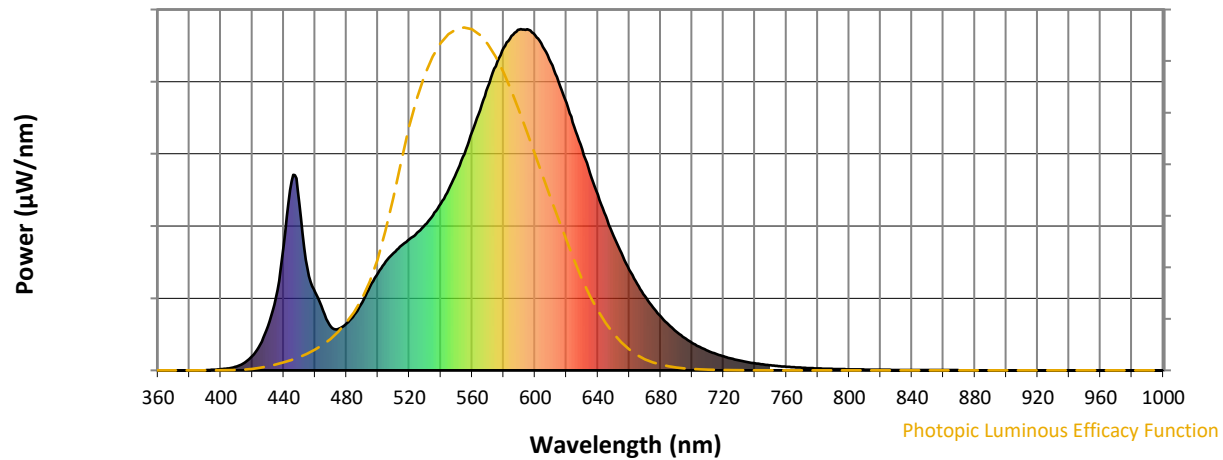


**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 3000K 4-step quadrangle

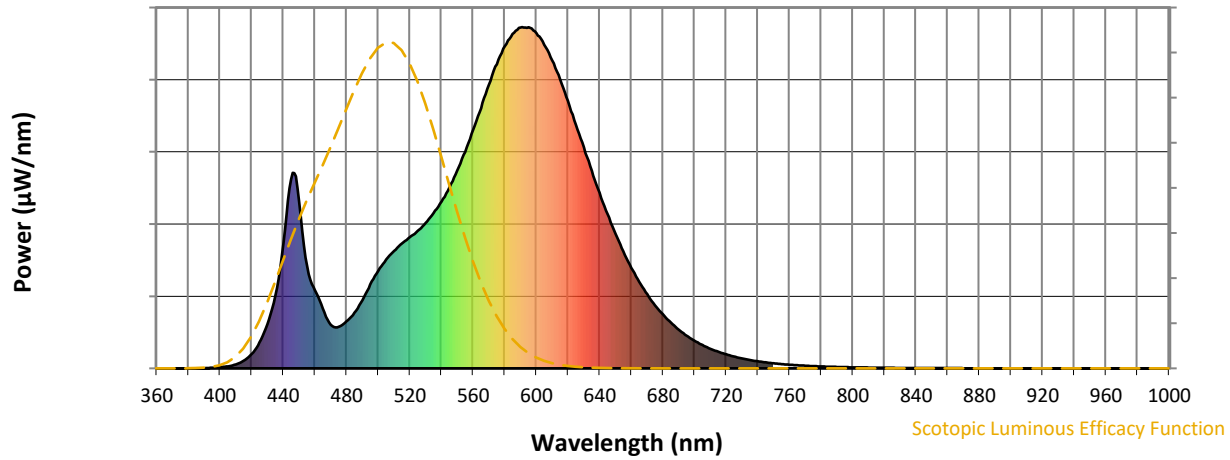
REPORT NUMBER: SP1-2501-319-3

**Photopic Flux vs. Wavelength**

**Photopic Lumens: NR**

| $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) |
|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|
| 360               | 0                                    | NR                             | 490               | 200                                  | NR                             | 620               | 784                                  | NR                             | 750               | 15                                   | NR                             | 880               | 0                                    | NR                             |
| 365               | 0                                    | NR                             | 495               | 246                                  | NR                             | 625               | 714                                  | NR                             | 755               | 13                                   | NR                             | 885               | 0                                    | NR                             |
| 370               | 0                                    | NR                             | 500               | 285                                  | NR                             | 630               | 648                                  | NR                             | 760               | 11                                   | NR                             | 890               | 0                                    | NR                             |
| 375               | 0                                    | NR                             | 505               | 319                                  | NR                             | 635               | 579                                  | NR                             | 765               | 9                                    | NR                             | 895               | 0                                    | NR                             |
| 380               | 0                                    | NR                             | 510               | 344                                  | NR                             | 640               | 514                                  | NR                             | 770               | 8                                    | NR                             | 900               | 0                                    | NR                             |
| 385               | 0                                    | NR                             | 515               | 366                                  | NR                             | 645               | 452                                  | NR                             | 775               | 7                                    | NR                             | 905               | 0                                    | NR                             |
| 390               | 0                                    | NR                             | 520               | 384                                  | NR                             | 650               | 394                                  | NR                             | 780               | 6                                    | NR                             | 910               | 0                                    | NR                             |
| 395               | 2                                    | NR                             | 525               | 403                                  | NR                             | 655               | 343                                  | NR                             | 785               | 5                                    | NR                             | 915               | 0                                    | NR                             |
| 400               | 3                                    | NR                             | 530               | 426                                  | NR                             | 660               | 295                                  | NR                             | 790               | 4                                    | NR                             | 920               | 0                                    | NR                             |
| 405               | 6                                    | NR                             | 535               | 455                                  | NR                             | 665               | 254                                  | NR                             | 795               | 4                                    | NR                             | 925               | 0                                    | NR                             |
| 410               | 12                                   | NR                             | 540               | 489                                  | NR                             | 670               | 217                                  | NR                             | 800               | 3                                    | NR                             | 930               | 0                                    | NR                             |
| 415               | 22                                   | NR                             | 545               | 531                                  | NR                             | 675               | 185                                  | NR                             | 805               | 3                                    | NR                             | 935               | 0                                    | NR                             |
| 420               | 42                                   | NR                             | 550               | 580                                  | NR                             | 680               | 158                                  | NR                             | 810               | 2                                    | NR                             | 940               | 0                                    | NR                             |
| 425               | 76                                   | NR                             | 555               | 634                                  | NR                             | 685               | 134                                  | NR                             | 815               | 2                                    | NR                             | 945               | 0                                    | NR                             |
| 430               | 130                                  | NR                             | 560               | 699                                  | NR                             | 690               | 113                                  | NR                             | 820               | 2                                    | NR                             | 950               | 0                                    | NR                             |
| 435               | 214                                  | NR                             | 565               | 762                                  | NR                             | 695               | 96                                   | NR                             | 825               | 1                                    | NR                             | 955               | 0                                    | NR                             |
| 440               | 366                                  | NR                             | 570               | 831                                  | NR                             | 700               | 81                                   | NR                             | 830               | 1                                    | NR                             | 960               | 0                                    | NR                             |
| 445               | 554                                  | NR                             | 575               | 891                                  | NR                             | 705               | 68                                   | NR                             | 835               | 1                                    | NR                             | 965               | 0                                    | NR                             |
| 450               | 489                                  | NR                             | 580               | 944                                  | NR                             | 710               | 57                                   | NR                             | 840               | 1                                    | NR                             | 970               | 0                                    | NR                             |
| 455               | 300                                  | NR                             | 585               | 980                                  | NR                             | 715               | 48                                   | NR                             | 845               | 1                                    | NR                             | 975               | 0                                    | NR                             |
| 460               | 230                                  | NR                             | 590               | 999                                  | NR                             | 720               | 41                                   | NR                             | 850               | 1                                    | NR                             | 980               | 0                                    | NR                             |
| 465               | 176                                  | NR                             | 595               | 999                                  | NR                             | 725               | 35                                   | NR                             | 855               | 1                                    | NR                             | 985               | 0                                    | NR                             |
| 470               | 128                                  | NR                             | 600               | 982                                  | NR                             | 730               | 29                                   | NR                             | 860               | 1                                    | NR                             | 990               | 0                                    | NR                             |
| 475               | 122                                  | NR                             | 605               | 948                                  | NR                             | 735               | 25                                   | NR                             | 865               | 1                                    | NR                             | 995               | 0                                    | NR                             |
| 480               | 138                                  | NR                             | 610               | 902                                  | NR                             | 740               | 20                                   | NR                             | 870               | 0                                    | NR                             | 1000              | 0                                    | NR                             |
| 485               | 163                                  | NR                             | 615               | 846                                  | NR                             | 745               | 17                                   | NR                             | 875               | 0                                    | NR                             |                   |                                      |                                |

REPORT NUMBER: SP1-2501-319-3

### Scotopic Flux vs. Wavelength



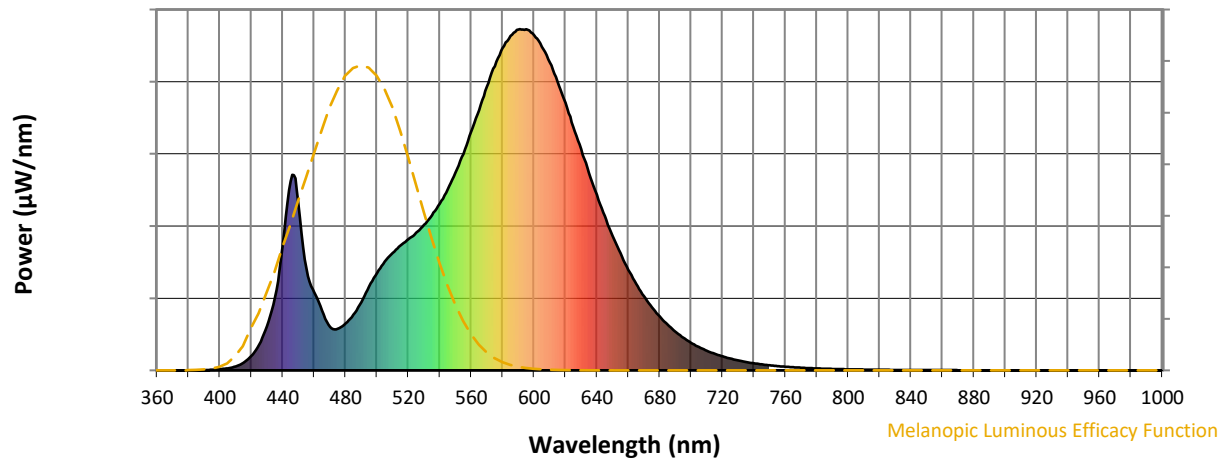
Scotopic Lumens: NR

S/P: 1.26

| $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) |
|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|
| 360               | 0                                    | NR                             | 490               | 200                                  | NR                             | 620               | 784                                  | NR                             | 750               | 15                                   | NR                             | 880               | 0                                    | NR                             |
| 365               | 0                                    | NR                             | 495               | 246                                  | NR                             | 625               | 714                                  | NR                             | 755               | 13                                   | NR                             | 885               | 0                                    | NR                             |
| 370               | 0                                    | NR                             | 500               | 285                                  | NR                             | 630               | 648                                  | NR                             | 760               | 11                                   | NR                             | 890               | 0                                    | NR                             |
| 375               | 0                                    | NR                             | 505               | 319                                  | NR                             | 635               | 579                                  | NR                             | 765               | 9                                    | NR                             | 895               | 0                                    | NR                             |
| 380               | 0                                    | NR                             | 510               | 344                                  | NR                             | 640               | 514                                  | NR                             | 770               | 8                                    | NR                             | 900               | 0                                    | NR                             |
| 385               | 0                                    | NR                             | 515               | 366                                  | NR                             | 645               | 452                                  | NR                             | 775               | 7                                    | NR                             | 905               | 0                                    | NR                             |
| 390               | 0                                    | NR                             | 520               | 384                                  | NR                             | 650               | 394                                  | NR                             | 780               | 6                                    | NR                             | 910               | 0                                    | NR                             |
| 395               | 2                                    | NR                             | 525               | 403                                  | NR                             | 655               | 343                                  | NR                             | 785               | 5                                    | NR                             | 915               | 0                                    | NR                             |
| 400               | 3                                    | NR                             | 530               | 426                                  | NR                             | 660               | 295                                  | NR                             | 790               | 4                                    | NR                             | 920               | 0                                    | NR                             |
| 405               | 6                                    | NR                             | 535               | 455                                  | NR                             | 665               | 254                                  | NR                             | 795               | 4                                    | NR                             | 925               | 0                                    | NR                             |
| 410               | 12                                   | NR                             | 540               | 489                                  | NR                             | 670               | 217                                  | NR                             | 800               | 3                                    | NR                             | 930               | 0                                    | NR                             |
| 415               | 22                                   | NR                             | 545               | 531                                  | NR                             | 675               | 185                                  | NR                             | 805               | 3                                    | NR                             | 935               | 0                                    | NR                             |
| 420               | 42                                   | NR                             | 550               | 580                                  | NR                             | 680               | 158                                  | NR                             | 810               | 2                                    | NR                             | 940               | 0                                    | NR                             |
| 425               | 76                                   | NR                             | 555               | 634                                  | NR                             | 685               | 134                                  | NR                             | 815               | 2                                    | NR                             | 945               | 0                                    | NR                             |
| 430               | 130                                  | NR                             | 560               | 699                                  | NR                             | 690               | 113                                  | NR                             | 820               | 2                                    | NR                             | 950               | 0                                    | NR                             |
| 435               | 214                                  | NR                             | 565               | 762                                  | NR                             | 695               | 96                                   | NR                             | 825               | 1                                    | NR                             | 955               | 0                                    | NR                             |
| 440               | 366                                  | NR                             | 570               | 831                                  | NR                             | 700               | 81                                   | NR                             | 830               | 1                                    | NR                             | 960               | 0                                    | NR                             |
| 445               | 554                                  | NR                             | 575               | 891                                  | NR                             | 705               | 68                                   | NR                             | 835               | 1                                    | NR                             | 965               | 0                                    | NR                             |
| 450               | 489                                  | NR                             | 580               | 944                                  | NR                             | 710               | 57                                   | NR                             | 840               | 1                                    | NR                             | 970               | 0                                    | NR                             |
| 455               | 300                                  | NR                             | 585               | 980                                  | NR                             | 715               | 48                                   | NR                             | 845               | 1                                    | NR                             | 975               | 0                                    | NR                             |
| 460               | 230                                  | NR                             | 590               | 999                                  | NR                             | 720               | 41                                   | NR                             | 850               | 1                                    | NR                             | 980               | 0                                    | NR                             |
| 465               | 176                                  | NR                             | 595               | 999                                  | NR                             | 725               | 35                                   | NR                             | 855               | 1                                    | NR                             | 985               | 0                                    | NR                             |
| 470               | 128                                  | NR                             | 600               | 982                                  | NR                             | 730               | 29                                   | NR                             | 860               | 1                                    | NR                             | 990               | 0                                    | NR                             |
| 475               | 122                                  | NR                             | 605               | 948                                  | NR                             | 735               | 25                                   | NR                             | 865               | 1                                    | NR                             | 995               | 0                                    | NR                             |
| 480               | 138                                  | NR                             | 610               | 902                                  | NR                             | 740               | 20                                   | NR                             | 870               | 0                                    | NR                             | 1000              | 0                                    | NR                             |
| 485               | 163                                  | NR                             | 615               | 846                                  | NR                             | 745               | 17                                   | NR                             | 875               | 0                                    | NR                             |                   |                                      |                                |

REPORT NUMBER: SP1-2501-319-3

### Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.35

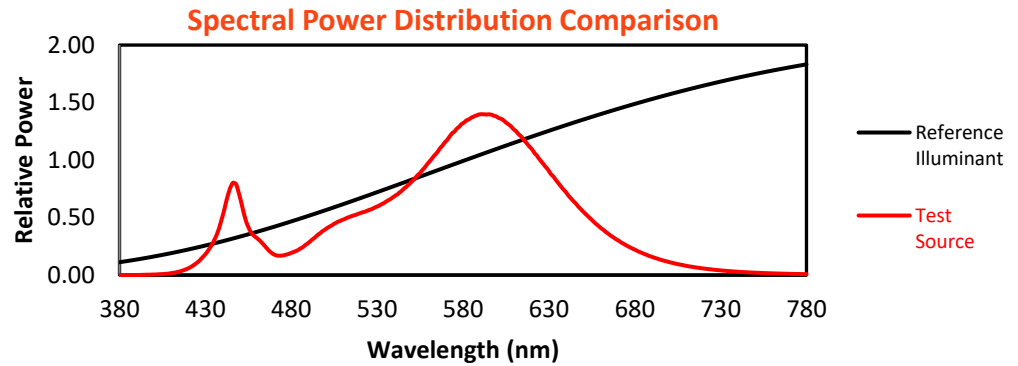
| λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) |
|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|
| 360       | 0                           | NR               | 490       | 200                         | NR               | 620       | 784                         | NR               | 750       | 15                          | NR               | 880       | 0                           | NR               |
| 365       | 0                           | NR               | 495       | 246                         | NR               | 625       | 714                         | NR               | 755       | 13                          | NR               | 885       | 0                           | NR               |
| 370       | 0                           | NR               | 500       | 285                         | NR               | 630       | 648                         | NR               | 760       | 11                          | NR               | 890       | 0                           | NR               |
| 375       | 0                           | NR               | 505       | 319                         | NR               | 635       | 579                         | NR               | 765       | 9                           | NR               | 895       | 0                           | NR               |
| 380       | 0                           | NR               | 510       | 344                         | NR               | 640       | 514                         | NR               | 770       | 8                           | NR               | 900       | 0                           | NR               |
| 385       | 0                           | NR               | 515       | 366                         | NR               | 645       | 452                         | NR               | 775       | 7                           | NR               | 905       | 0                           | NR               |
| 390       | 0                           | NR               | 520       | 384                         | NR               | 650       | 394                         | NR               | 780       | 6                           | NR               | 910       | 0                           | NR               |
| 395       | 2                           | NR               | 525       | 403                         | NR               | 655       | 343                         | NR               | 785       | 5                           | NR               | 915       | 0                           | NR               |
| 400       | 3                           | NR               | 530       | 426                         | NR               | 660       | 295                         | NR               | 790       | 4                           | NR               | 920       | 0                           | NR               |
| 405       | 6                           | NR               | 535       | 455                         | NR               | 665       | 254                         | NR               | 795       | 4                           | NR               | 925       | 0                           | NR               |
| 410       | 12                          | NR               | 540       | 489                         | NR               | 670       | 217                         | NR               | 800       | 3                           | NR               | 930       | 0                           | NR               |
| 415       | 22                          | NR               | 545       | 531                         | NR               | 675       | 185                         | NR               | 805       | 3                           | NR               | 935       | 0                           | NR               |
| 420       | 42                          | NR               | 550       | 580                         | NR               | 680       | 158                         | NR               | 810       | 2                           | NR               | 940       | 0                           | NR               |
| 425       | 76                          | NR               | 555       | 634                         | NR               | 685       | 134                         | NR               | 815       | 2                           | NR               | 945       | 0                           | NR               |
| 430       | 130                         | NR               | 560       | 699                         | NR               | 690       | 113                         | NR               | 820       | 2                           | NR               | 950       | 0                           | NR               |
| 435       | 214                         | NR               | 565       | 762                         | NR               | 695       | 96                          | NR               | 825       | 1                           | NR               | 955       | 0                           | NR               |
| 440       | 366                         | NR               | 570       | 831                         | NR               | 700       | 81                          | NR               | 830       | 1                           | NR               | 960       | 0                           | NR               |
| 445       | 554                         | NR               | 575       | 891                         | NR               | 705       | 68                          | NR               | 835       | 1                           | NR               | 965       | 0                           | NR               |
| 450       | 489                         | NR               | 580       | 944                         | NR               | 710       | 57                          | NR               | 840       | 1                           | NR               | 970       | 0                           | NR               |
| 455       | 300                         | NR               | 585       | 980                         | NR               | 715       | 48                          | NR               | 845       | 1                           | NR               | 975       | 0                           | NR               |
| 460       | 230                         | NR               | 590       | 999                         | NR               | 720       | 41                          | NR               | 850       | 1                           | NR               | 980       | 0                           | NR               |
| 465       | 176                         | NR               | 595       | 999                         | NR               | 725       | 35                          | NR               | 855       | 1                           | NR               | 985       | 0                           | NR               |
| 470       | 128                         | NR               | 600       | 982                         | NR               | 730       | 29                          | NR               | 860       | 1                           | NR               | 990       | 0                           | NR               |
| 475       | 122                         | NR               | 605       | 948                         | NR               | 735       | 25                          | NR               | 865       | 1                           | NR               | 995       | 0                           | NR               |
| 480       | 138                         | NR               | 610       | 902                         | NR               | 740       | 20                          | NR               | 870       | 0                           | NR               | 1000      | 0                           | NR               |
| 485       | 163                         | NR               | 615       | 846                         | NR               | 745       | 17                          | NR               | 875       | 0                           | NR               |           |                             |                  |

REPORT NUMBER: SP1-2501-319-3

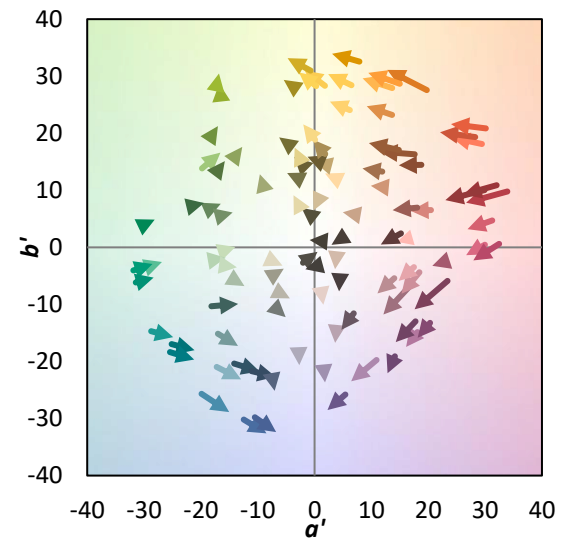
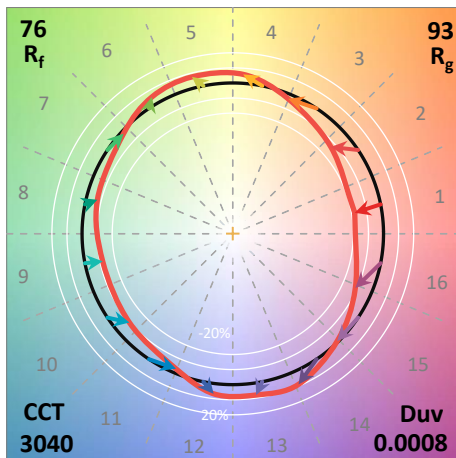
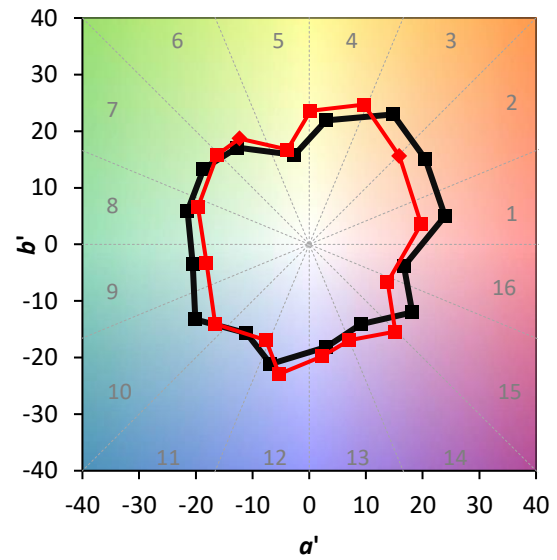
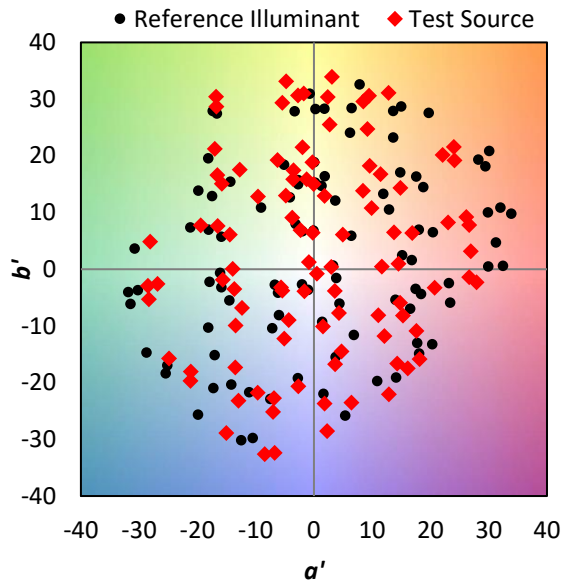
TM-30-18

### Summary

$R_f = 76.2$   
 $R_g = 92.6$   
 $\text{CIE } R_a = 71.0$   
 $R_g = -45.2$

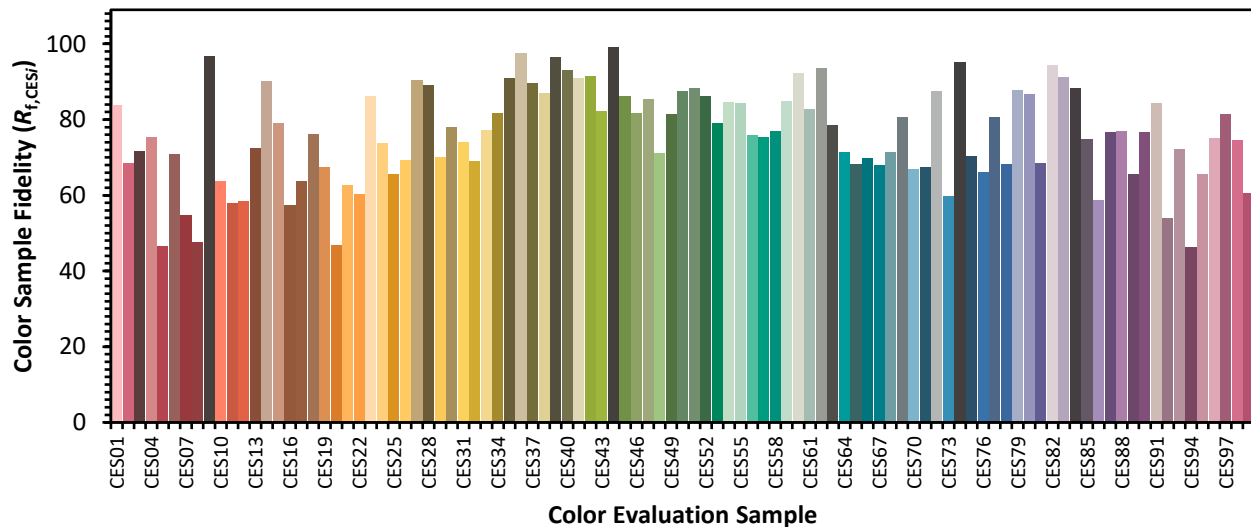


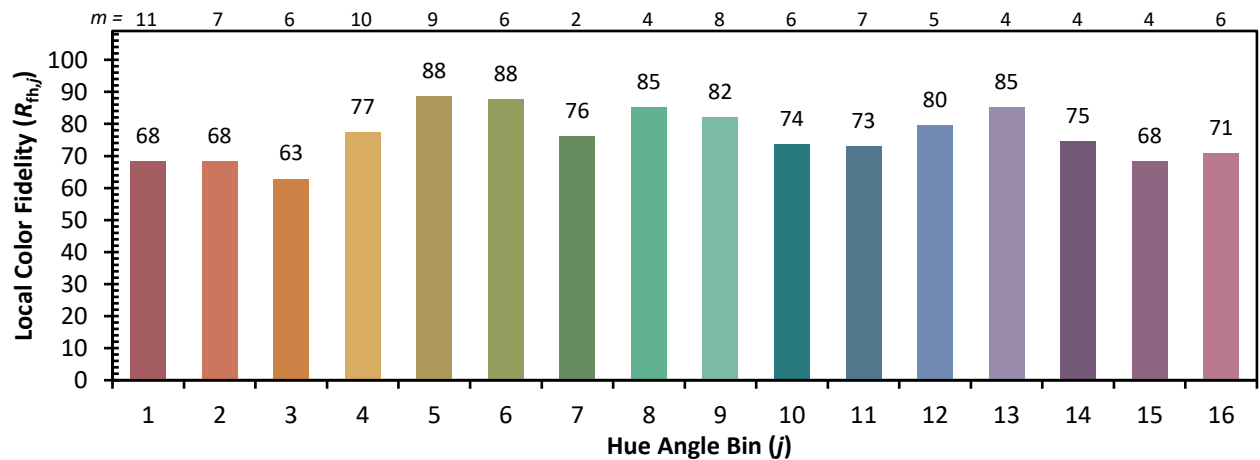
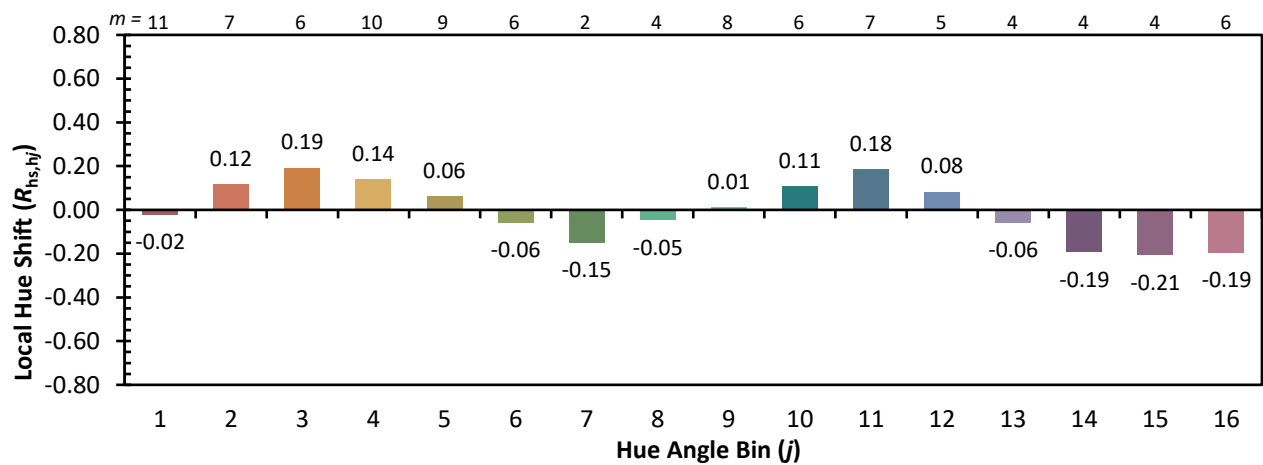
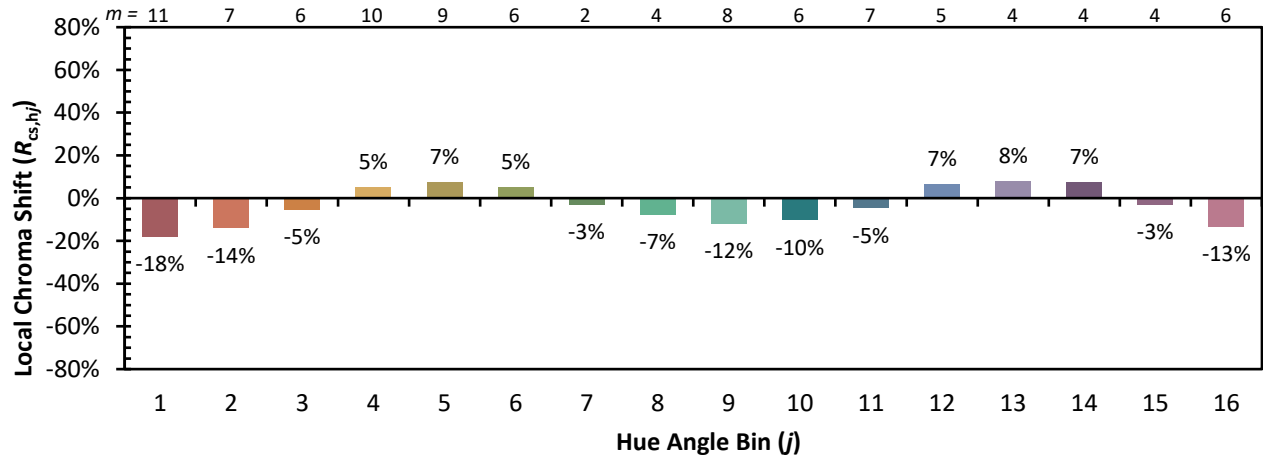
### Color Vector Graphics



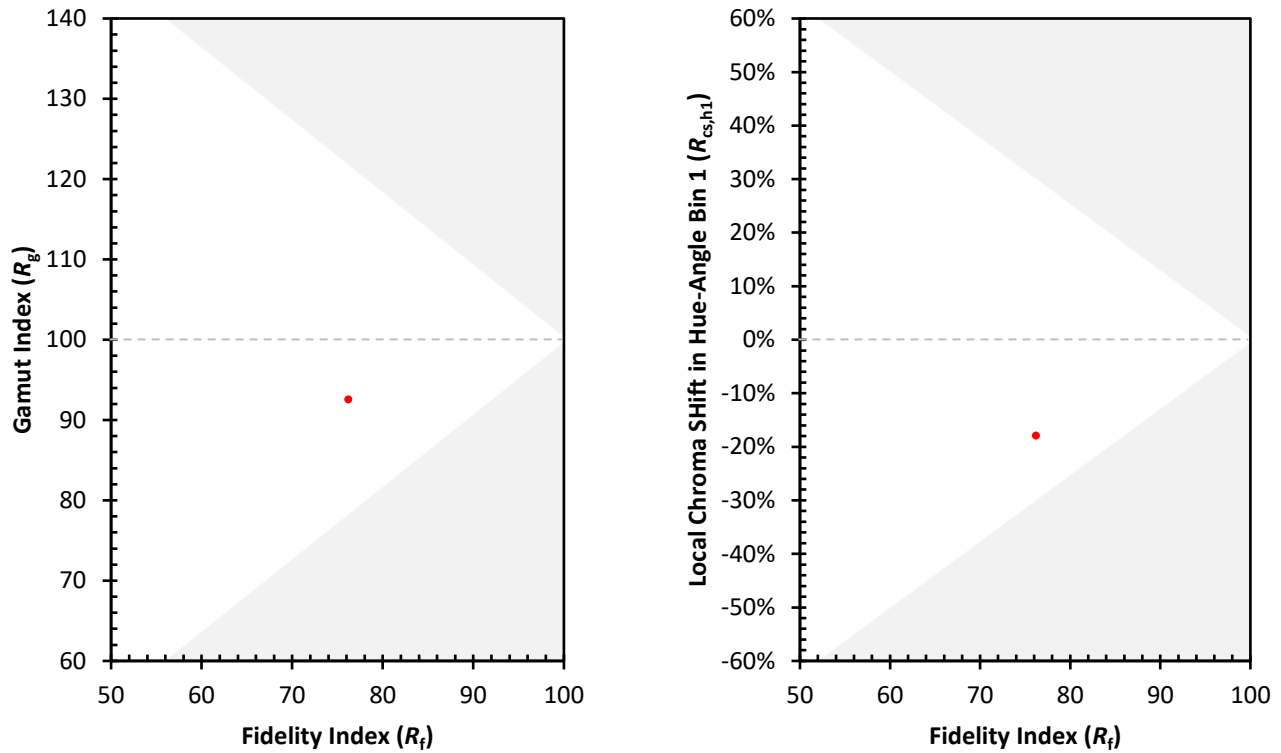
**Individual Sample Fidelity Index ( $R_{f,i}$ )**

|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 69 | CES51 = 88 | CES76 = 66 |
| CES02 = 62 | CES27 = 90 | CES52 = 86 | CES77 = 81 |
| CES03 = 31 | CES28 = 89 | CES53 = 79 | CES78 = 68 |
| CES04 = 71 | CES29 = 70 | CES54 = 85 | CES79 = 88 |
| CES05 = 49 | CES30 = 78 | CES55 = 84 | CES80 = 87 |
| CES06 = 51 | CES31 = 74 | CES56 = 76 | CES81 = 69 |
| CES07 = 41 | CES32 = 69 | CES57 = 75 | CES82 = 94 |
| CES08 = 40 | CES33 = 77 | CES58 = 77 | CES83 = 91 |
| CES09 = 29 | CES34 = 82 | CES59 = 85 | CES84 = 88 |
| CES10 = 76 | CES35 = 91 | CES60 = 92 | CES85 = 75 |
| CES11 = 59 | CES36 = 98 | CES61 = 83 | CES86 = 59 |
| CES12 = 65 | CES37 = 90 | CES62 = 94 | CES87 = 77 |
| CES13 = 43 | CES38 = 87 | CES63 = 79 | CES88 = 77 |
| CES14 = 74 | CES39 = 96 | CES64 = 71 | CES89 = 66 |
| CES15 = 71 | CES40 = 93 | CES65 = 68 | CES90 = 77 |
| CES16 = 47 | CES41 = 91 | CES66 = 70 | CES91 = 84 |
| CES17 = 50 | CES42 = 92 | CES67 = 68 | CES92 = 54 |
| CES18 = 56 | CES43 = 82 | CES68 = 71 | CES93 = 72 |
| CES19 = 73 | CES44 = 99 | CES69 = 81 | CES94 = 46 |
| CES20 = 66 | CES45 = 86 | CES70 = 67 | CES95 = 66 |
| CES21 = 87 | CES46 = 82 | CES71 = 68 | CES96 = 75 |
| CES22 = 79 | CES47 = 85 | CES72 = 88 | CES97 = 81 |
| CES23 = 92 | CES48 = 71 | CES73 = 60 | CES98 = 75 |
| CES24 = 91 | CES49 = 81 | CES74 = 95 | CES99 = 61 |
| CES25 = 73 | CES50 = 87 | CES75 = 70 |            |



**Color Rendition by Hue-Angle Bin**


**Measure Comparisons**



(END OF REPORT)