

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: P980879

Luminaire Tested: **UFLD-CA2-90-740-U-33**

Issue Date: 04/10/2025



**Test Information**

Test Method: LM-79-08  
Report Number: P980879  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/10/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UFLD-CA2-90-740-U-33  
Description: UTILITY FLOOD MEDIUM SIZE 90W 70CRI 4000K LED FIXTURE NEMA 3  
Light Source: (8) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

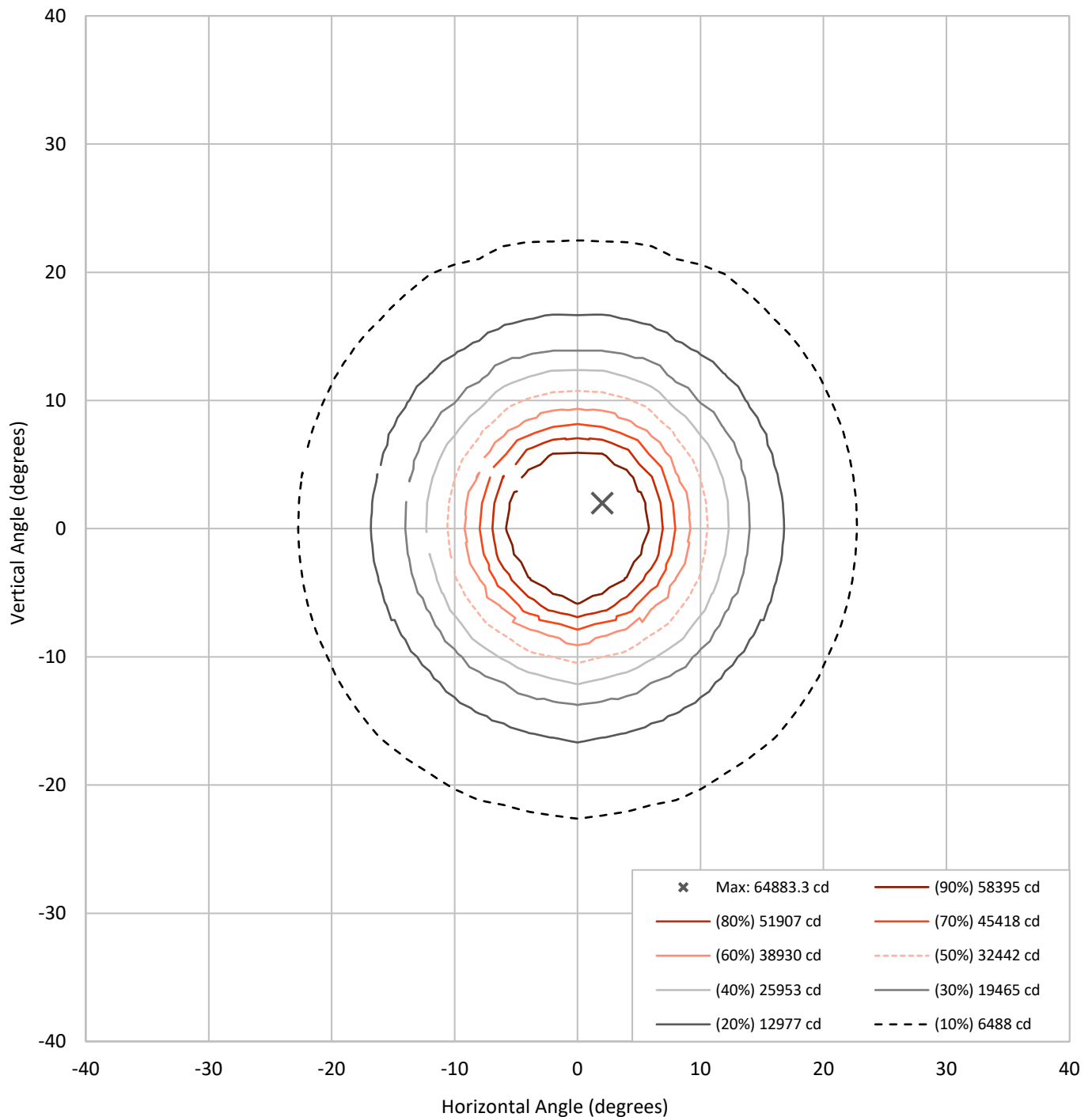
|                   |                                          |                      |                 |
|-------------------|------------------------------------------|----------------------|-----------------|
| Lumens per Lamp:  | N/A                                      | NEMA Type:           | 3H x 3V         |
| Luminaire Lumens: | 11860.5 lumens                           | Max Intensity:       | 64883.3 candela |
| Efficiency:       | N/A                                      | Max Intensity Angle: | 2°H x 2°V       |
| Efficacy:         | 132.4 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:      | 5135.9 lumens                            | Field Lumens:        | 10461.9 lumens  |
| Beam Efficiency:  | 43.3%                                    | Field Efficiency:    | 88.2%           |

Input Watts (W): 89.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 6.32%  
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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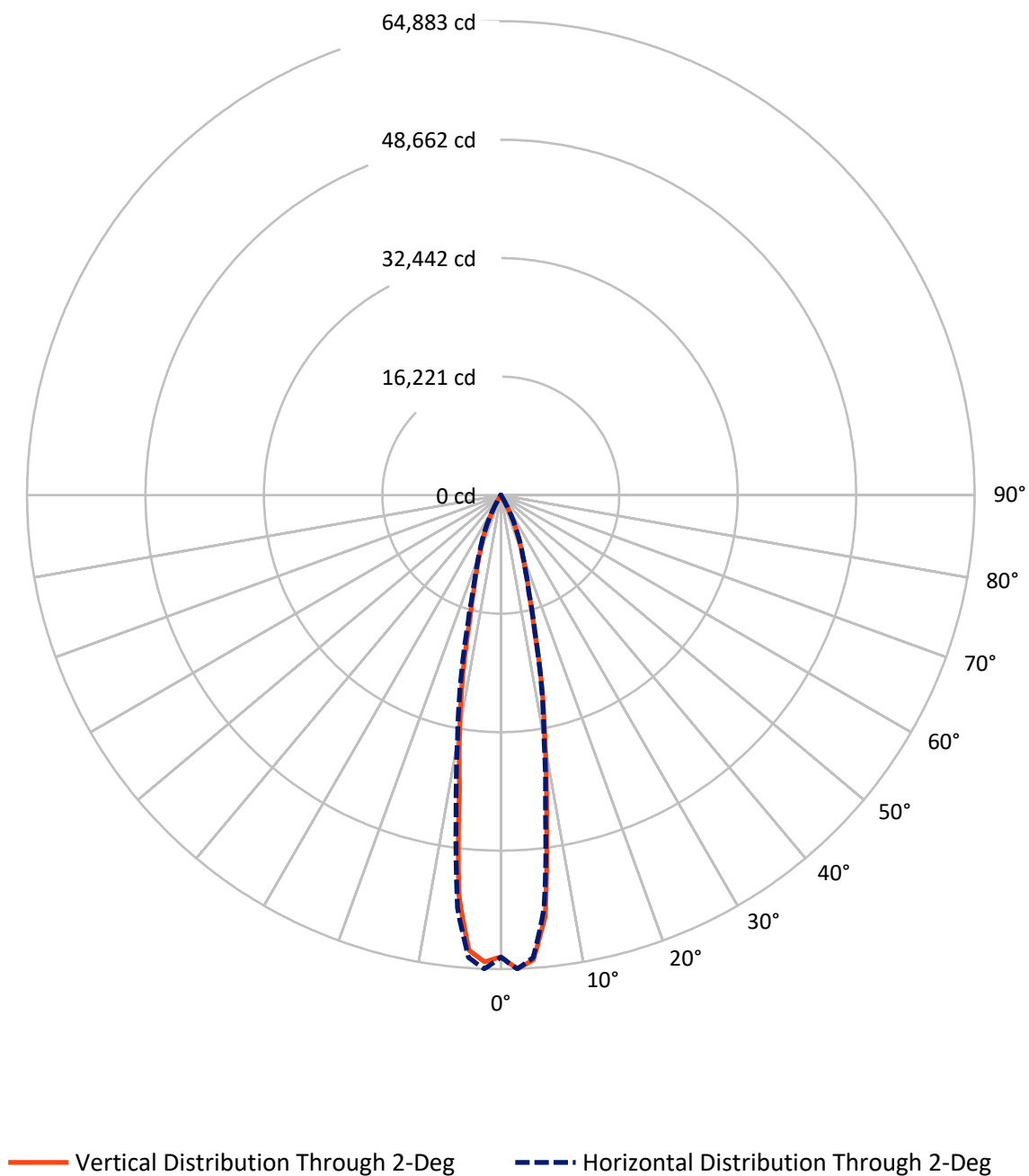
## Lumen Table

|     |     |     |     |     |     |     |       |       |        |        |       |       |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-------|-------|--------|--------|-------|-------|-----|-----|-----|-----|
| 90  |     |     |     |     |     |     |       |       |        |        |       |       |     |     |     |     |
| 80  | 0.0 | 0.0 |     | 0.0 |     | 0.0 |       | 0.0   |        | 0.0    |       | 0.0   |     | 0.0 |     | 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   | 0.8   | 3.2    | 3.2    | 0.8   | 0.0   | 0.0 | 0.0 |     |     |
| 30  | 0.0 |     | 0.0 | 0.0 | 0.0 | 0.0 | 6.6   | 62.0  | 125.2  | 125.2  | 62.0  | 6.6   | 0.0 | 0.0 | 0.0 | 0.0 |
| 20  |     |     | 0.0 | 0.0 | 0.0 | 1.1 | 60.9  | 240.0 | 492.1  | 492.1  | 240.0 | 60.9  | 1.1 | 0.0 | 0.0 |     |
| 10  | 0.0 |     | 0.0 | 0.0 | 0.0 | 5.3 | 121.7 | 480.3 | 1428.3 | 1428.3 | 480.3 | 121.7 | 5.3 | 0.0 | 0.0 | 0.0 |
| 0   |     |     | 0.0 | 0.0 | 0.0 | 5.0 | 119.3 | 463.4 | 1376.0 | 1376.0 | 463.4 | 119.3 | 5.0 | 0.0 | 0.0 |     |
| -10 | 0.0 |     | 0.0 | 0.0 | 0.0 | 0.9 | 56.4  | 229.9 | 462.2  | 462.2  | 229.9 | 56.4  | 0.9 | 0.0 | 0.0 | 0.0 |
| -20 |     |     | 0.0 | 0.0 | 0.0 | 0.0 | 5.3   | 57.8  | 122.3  | 122.3  | 57.8  | 5.3   | 0.0 | 0.0 | 0.0 |     |
| -30 | 0.0 |     | 0.0 | 0.0 | 0.0 | 0.0 | 0.5   | 3.4   | 3.4    | 0.5    | 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 |     | 0.0 |

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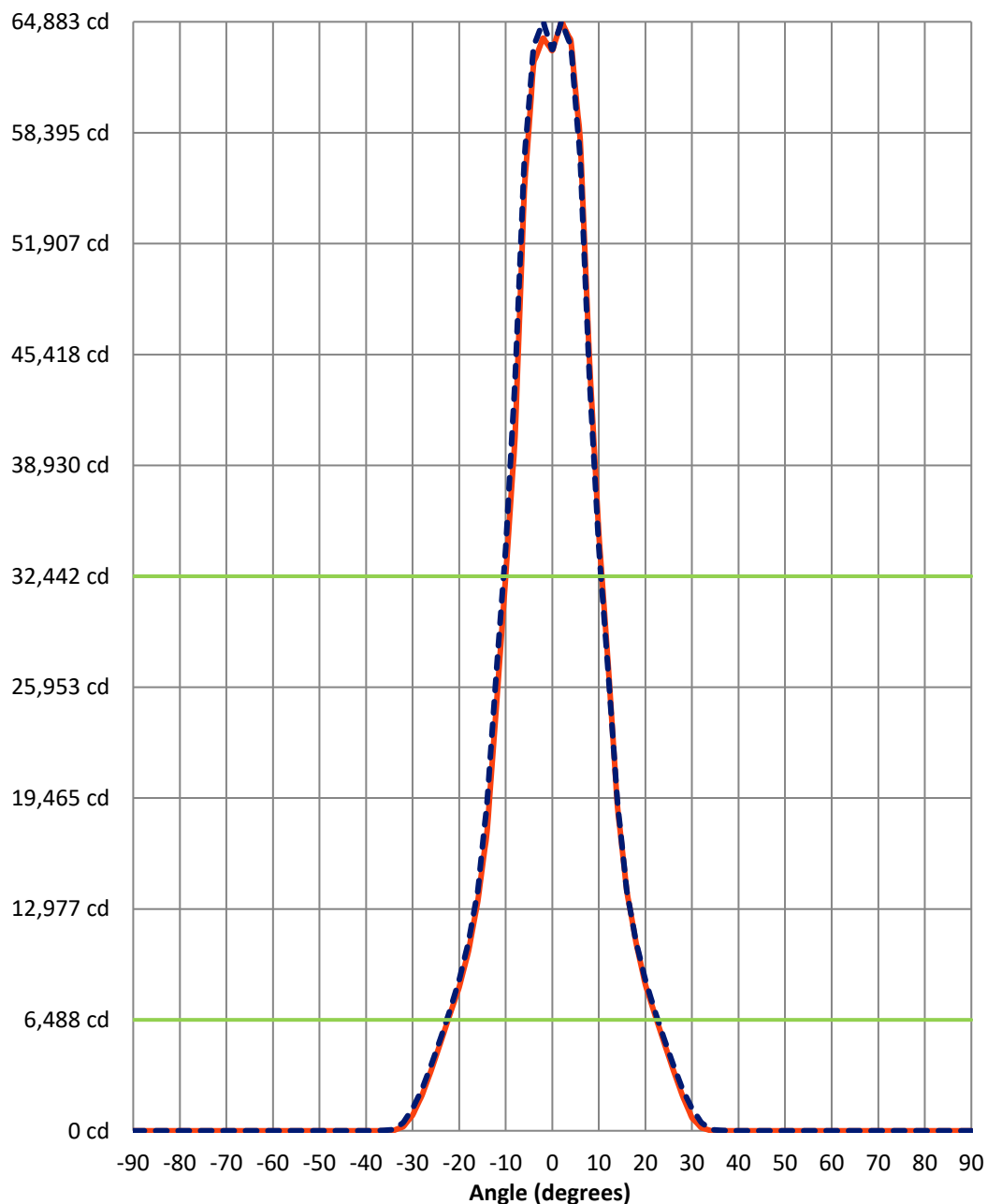
## Luminous Intensity Polar Plot



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## Luminous Intensity Plot



**Beam:**

H Angle: 20.9°

V Angle: 20.7°

Lumens: 5135.9

Efficiency: 43.3%

**Field:**

H Angle: 45.3°

V Angle: 44.8°

Lumens: 10461.9

Efficiency: 88.2%

**Spill:**

Lumens: 1398.5

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° | 6.1     | 12.2    | 6.1     | 6.1     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    |
| 32° | 156.0   | 180.4   | 171.3   | 217.1   | 140.7   | 146.8   | 73.4    | 9.2     | 0.0     | 0.0     | 0.0    |
| 30° | 715.7   | 761.5   | 740.1   | 834.9   | 559.7   | 575.0   | 412.9   | 204.9   | 91.8    | 24.5    | 0.0    |
| 28° | 1987.9  | 2027.7  | 1939.0  | 1917.6  | 1461.9  | 1416.0  | 1149.9  | 700.4   | 403.7   | 201.9   | 52.0   |
| 26° | 3523.2  | 3544.6  | 3462.1  | 3367.3  | 2749.5  | 2630.2  | 2241.8  | 1510.8  | 1030.7  | 620.8   | 308.9  |
| 24° | 5187.0  | 5168.6  | 5110.5  | 4927.0  | 4229.7  | 4018.7  | 3559.9  | 2657.7  | 1963.5  | 1330.4  | 834.9  |
| 22° | 6896.6  | 6829.3  | 6777.3  | 6523.5  | 5777.3  | 5471.4  | 4966.8  | 3969.8  | 3089.0  | 2278.5  | 1596.5 |
| 20° | 8612.4  | 8545.1  | 8444.2  | 8150.6  | 7269.7  | 6921.1  | 6385.9  | 5358.3  | 4330.6  | 3400.9  | 2498.7 |
| 18° | 10933.7 | 10994.8 | 10719.6 | 10190.5 | 9013.0  | 8404.4  | 7685.7  | 6655.0  | 5557.1  | 4520.3  | 3474.3 |
| 16° | 13989.0 | 14047.1 | 13438.5 | 12732.0 | 11117.2 | 10285.3 | 9169.0  | 7869.2  | 6682.5  | 5642.7  | 4495.8 |
| 14° | 19023.0 | 18974.1 | 17799.7 | 16420.4 | 13891.1 | 12401.7 | 10970.4 | 9276.0  | 7774.4  | 6618.3  | 5407.2 |
| 12° | 27571.2 | 27292.9 | 25347.8 | 22613.6 | 17778.3 | 15086.9 | 13025.6 | 10841.9 | 8921.3  | 7514.4  | 6217.7 |
| 10° | 35321.1 | 34926.6 | 33054.8 | 29849.7 | 23815.5 | 18971.1 | 15472.3 | 12496.5 | 10193.5 | 8453.3  | 6927.2 |
| 8°  | 46282.3 | 45006.9 | 40896.5 | 35896.1 | 30277.8 | 24200.9 | 18830.4 | 14322.3 | 11395.5 | 9309.7  | 7587.8 |
| 6°  | 58173.2 | 57977.5 | 53157.5 | 43829.5 | 35223.2 | 29075.9 | 22362.8 | 16356.2 | 12499.5 | 10062.0 | 8129.1 |
| 4°  | 64005.5 | 63760.9 | 60543.4 | 52435.7 | 39780.2 | 32351.4 | 25210.1 | 18081.1 | 13417.1 | 10649.2 | 8523.7 |
| 2°  | 63259.3 | 64883.3 | 63452.0 | 56796.9 | 43930.4 | 34125.3 | 26849.4 | 19240.2 | 14031.8 | 11046.8 | 8817.3 |



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**CANDELA DISTRIBUTION (continued):**

|      | 0°      | 2°      | 4°      | 6°      | 8°      | 10°     | 12°     | 14°     | 16°     | 18°     | 20°    |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°   | 62898.4 | 63204.2 | 63653.8 | 57809.3 | 45117.0 | 34611.5 | 27106.3 | 19472.6 | 14212.2 | 11156.9 | 8863.1 |
| -2°  | 64501.0 | 63929.1 | 62402.9 | 55530.8 | 43061.8 | 33788.8 | 26032.8 | 18714.2 | 13909.5 | 10961.2 | 8694.9 |
| -4°  | 63834.3 | 62467.2 | 57953.0 | 48992.0 | 38624.1 | 31794.8 | 23592.2 | 17224.7 | 13224.4 | 10526.9 | 8376.9 |
| -6°  | 57953.0 | 55017.0 | 48747.3 | 39893.3 | 34128.3 | 27941.2 | 20393.2 | 15389.7 | 12242.6 | 9884.6  | 7908.9 |
| -8°  | 44545.1 | 40602.9 | 37877.9 | 33421.8 | 29164.6 | 22794.0 | 17056.5 | 13554.7 | 11120.2 | 9110.9  | 7367.6 |
| -10° | 34345.5 | 32467.6 | 30754.9 | 26754.6 | 22717.6 | 18044.4 | 14224.5 | 11820.6 | 9927.5  | 8257.6  | 6728.4 |
| -12° | 26454.9 | 24852.3 | 22821.5 | 19564.4 | 17114.6 | 14505.8 | 12001.0 | 10263.9 | 8774.5  | 7404.3  | 6046.4 |
| -14° | 18521.5 | 17524.4 | 16506.0 | 14805.6 | 13524.1 | 11894.0 | 10138.5 | 8805.0  | 7704.0  | 6492.9  | 5205.3 |
| -16° | 13970.6 | 13426.2 | 12839.0 | 11768.6 | 10988.7 | 9829.6  | 8520.6  | 7575.6  | 6691.7  | 5532.6  | 4297.0 |
| -18° | 10991.8 | 10499.4 | 10144.6 | 9480.9  | 8954.9  | 8101.6  | 7220.8  | 6422.6  | 5566.2  | 4413.2  | 3290.8 |
| -20° | 8655.2  | 8398.3  | 8098.6  | 7688.7  | 7392.1  | 6728.4  | 5893.5  | 5122.8  | 4333.7  | 3269.4  | 2321.3 |
| -22° | 7006.7  | 6795.7  | 6544.9  | 6147.3  | 5853.7  | 5235.9  | 4446.9  | 3859.7  | 3140.9  | 2214.3  | 1465.0 |
| -24° | 5355.2  | 5153.3  | 4933.1  | 4550.9  | 4266.4  | 3728.2  | 3058.4  | 2590.4  | 2030.8  | 1257.0  | 721.8  |
| -26° | 3740.4  | 3538.5  | 3361.1  | 3003.3  | 2767.8  | 2327.4  | 1822.8  | 1477.2  | 1055.1  | 535.2   | 244.7  |
| -28° | 2251.0  | 2061.3  | 1942.1  | 1630.1  | 1465.0  | 1156.1  | 862.5   | 636.1   | 403.7   | 159.0   | 30.6   |
| -30° | 1033.7  | 914.5   | 841.1   | 636.1   | 559.7   | 385.4   | 260.0   | 180.4   | 91.8    | 15.3    | 0.0    |
| -32° | 299.7   | 241.6   | 204.9   | 149.9   | 137.6   | 73.4    | 27.5    | 9.2     | 3.1     | 0.0     | 0.0    |
| -34° | 45.9    | 27.5    | 9.2     | 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: P980879  
CATALOG NUMBER: UFLD-CA2-90-740-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: P980879

CATALOG NUMBER: UFLD-CA2-90-740-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° | 15.3   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 26° | 140.7  | 24.5   | 6.1    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 24° | 440.4  | 131.5  | 52.0   | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 22° | 966.4  | 391.5  | 171.3  | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 20° | 1648.5 | 874.7  | 415.9  | 42.8   | 24.5   | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 18° | 2428.3 | 1477.2 | 776.8  | 171.3  | 91.8   | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 16° | 3266.3 | 2137.8 | 1241.7 | 428.2  | 223.3  | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 14° | 4049.3 | 2810.6 | 1746.3 | 795.2  | 385.4  | 39.8  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 12° | 4823.0 | 3471.2 | 2254.0 | 1177.5 | 581.1  | 104.0 | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 10° | 5505.1 | 4064.6 | 2731.1 | 1541.4 | 773.8  | 183.5 | 3.1  | 3.1  | 0.0 | 0.0 | 0.0 |
| 8°  | 6073.9 | 4563.1 | 3137.9 | 1859.5 | 957.3  | 284.4 | 21.4 | 9.2  | 0.0 | 0.0 | 0.0 |
| 6°  | 6526.6 | 4963.7 | 3471.2 | 2119.4 | 1113.2 | 373.1 | 39.8 | 15.3 | 0.0 | 0.0 | 0.0 |
| 4°  | 6841.6 | 5245.1 | 3715.9 | 2312.1 | 1232.5 | 443.5 | 55.1 | 24.5 | 0.0 | 0.0 | 0.0 |
| 2°  | 7034.2 | 5398.0 | 3850.5 | 2419.2 | 1299.8 | 486.3 | 67.3 | 27.5 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P980879

CATALOG NUMBER: UFLD-CA2-90-740-U-33

**CANDELA DISTRIBUTION (continued):**

|      | 22°    | 24°    | 26°    | 28°    | 30°    | 32°   | 34°  | 36°  | 38° | 40° | 42° |
|------|--------|--------|--------|--------|--------|-------|------|------|-----|-----|-----|
| 0°   | 7086.2 | 5443.9 | 3887.2 | 2446.7 | 1321.2 | 501.6 | 70.3 | 30.6 | 0.0 | 0.0 | 0.0 |
| -2°  | 6994.5 | 5370.5 | 3816.8 | 2385.5 | 1278.4 | 480.2 | 67.3 | 27.5 | 0.0 | 0.0 | 0.0 |
| -4°  | 6774.3 | 5174.8 | 3633.3 | 2244.8 | 1189.7 | 428.2 | 55.1 | 24.5 | 0.0 | 0.0 | 0.0 |
| -6°  | 6431.7 | 4862.8 | 3355.0 | 2024.6 | 1052.1 | 351.7 | 36.7 | 15.3 | 0.0 | 0.0 | 0.0 |
| -8°  | 5966.9 | 4437.7 | 2997.2 | 1740.2 | 880.8  | 260.0 | 18.4 | 9.2  | 0.0 | 0.0 | 0.0 |
| -10° | 5373.6 | 3899.4 | 2559.9 | 1409.9 | 694.2  | 165.2 | 3.1  | 0.0  | 0.0 | 0.0 | 0.0 |
| -12° | 4679.3 | 3275.5 | 2064.4 | 1042.9 | 504.6  | 91.8  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -14° | 3893.3 | 2593.5 | 1541.4 | 657.5  | 318.1  | 33.6  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -16° | 3055.3 | 1899.2 | 1042.9 | 299.7  | 159.0  | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -18° | 2220.4 | 1235.6 | 617.8  | 100.9  | 55.1   | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -20° | 1443.5 | 648.4  | 299.7  | 21.4   | 12.2   | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -22° | 804.4  | 223.3  | 104.0  | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -24° | 342.5  | 70.3   | 30.6   | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -26° | 100.9  | 9.2    | 3.1    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| -28° | 9.2    | 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: P980879  
CATALOG NUMBER: UFLD-CA2-90-740-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: P980879

CATALOG NUMBER: UFLD-CA2-90-740-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: P980879

CATALOG NUMBER: UFLD-CA2-90-740-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: P980879  
CATALOG NUMBER: UFLD-CA2-90-740-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: P980879

CATALOG NUMBER: UFLD-CA2-90-740-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: P980879

CATALOG NUMBER: UFLD-CA2-90-740-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: P980879  
CATALOG NUMBER: UFLD-CA2-90-740-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: P980879

CATALOG NUMBER: UFLD-CA2-90-740-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: P980879

CATALOG NUMBER: UFLD-CA2-90-740-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: P980879

CATALOG NUMBER: UFLD-CA2-90-740-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: SP1-2501-319-6

Test Date: 02/05/2025

Luminaire Tested: NFFLD-C25-7040-33

Data in this report applies to families of products including NFFLD-C25-7040-33

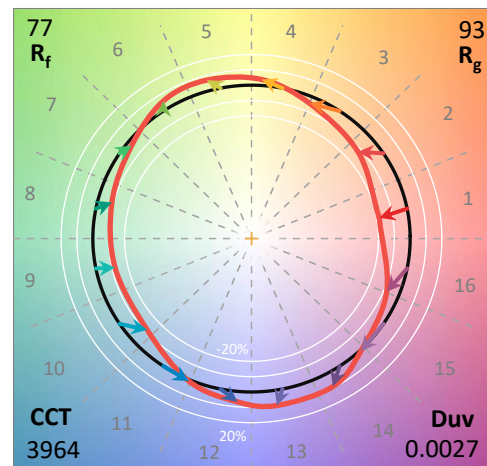
### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2501-319-6  
 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-C25-7040-33**  
 Description: LUMARK NIGHT FALCON 10500LM NEMA 3

### Spectral Parameters

CCT (K): 3964  
 CIE  $u'$ : 0.2242  
 CIE  $v'$ : 0.5057  
 Duv: 0.0027  
 CIE x: 0.3840  
 CIE y: 0.3849  
 CIE z: 0.2311  
 Peak Wavelength (nm): 446  
 Dominant Wavelength (nm): 577  
 Purity: 30.76983  
 R<sub>f</sub>: 76.7  
 R<sub>g</sub>: 92.6

CRI (Ra): 72.6  
 R1: 67.8  
 R2: 80.8  
 R3: 92.3  
 R4: 70.7  
 R5: 69.3  
 R6: 74.2  
 R7: 79.4  
 R8: 46.4  
 R9: -43.1  
 R10: 56.8  
 R11: 67.5  
 R12: 52.2  
 R13: 70.3  
 R14: 95.9  
 R15: 58.4



### Test Conditions

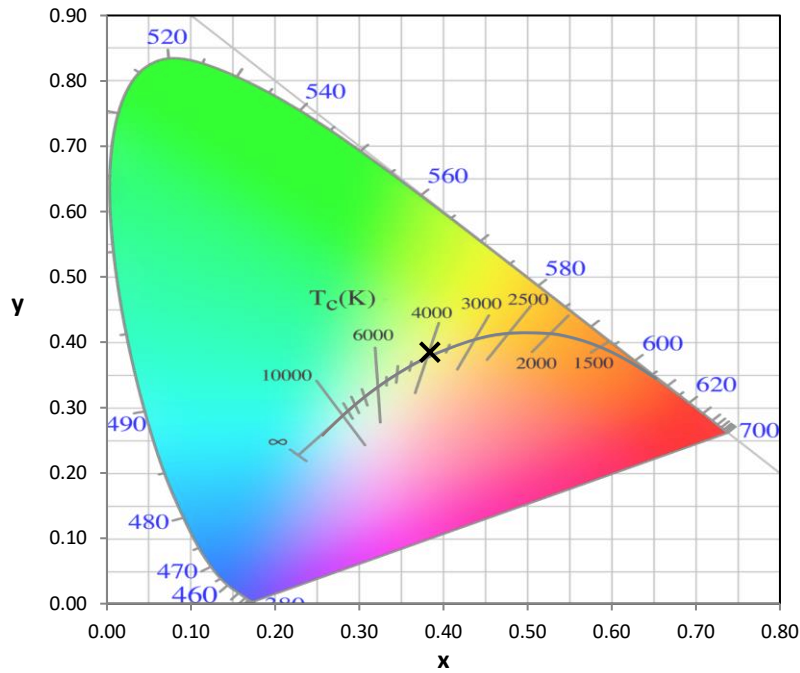
Stabilization Time: 42M  
 Operation Time: 1H 42M  
 Sphere Temperature (°C): 25.0

REPORT NUMBER: SP1-2501-319-6

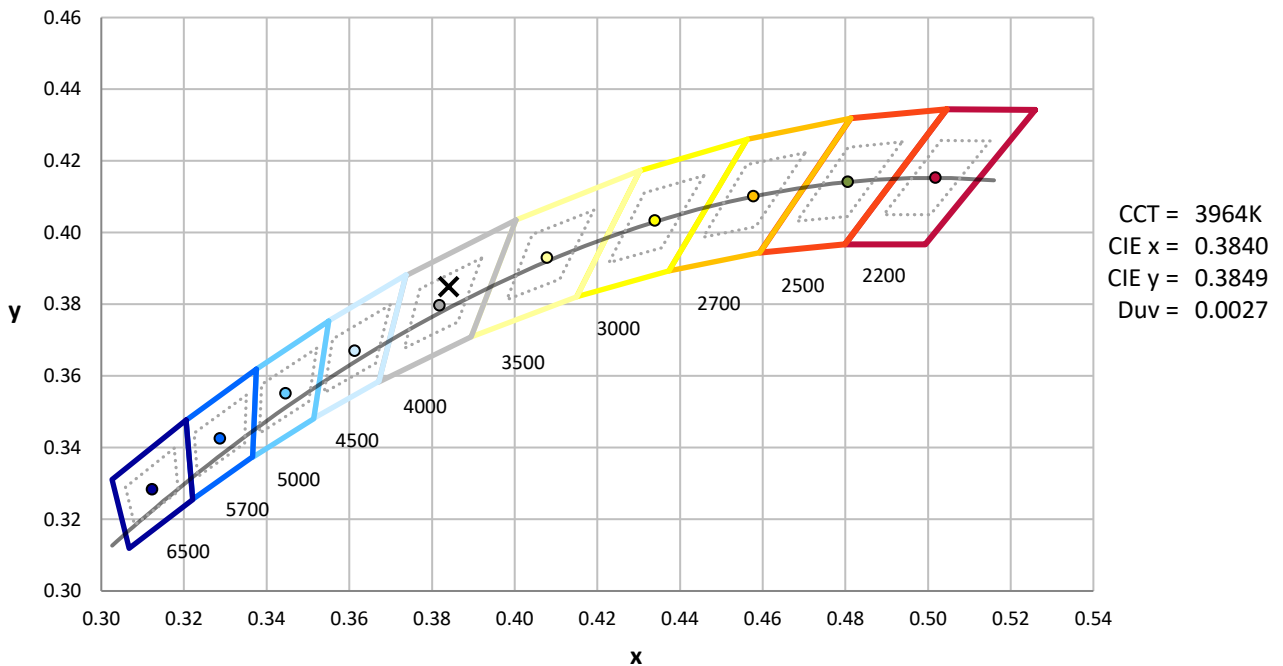
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| 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: SP1-2501-319-6

**CIE 1931 Chromaticity Diagram**



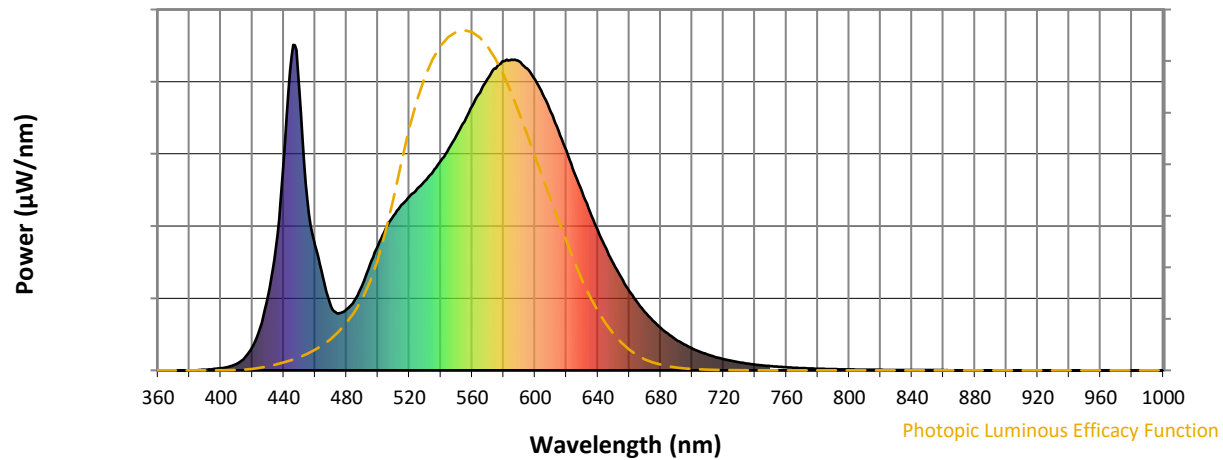
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-319-6

### Photopic Flux vs. Wavelength

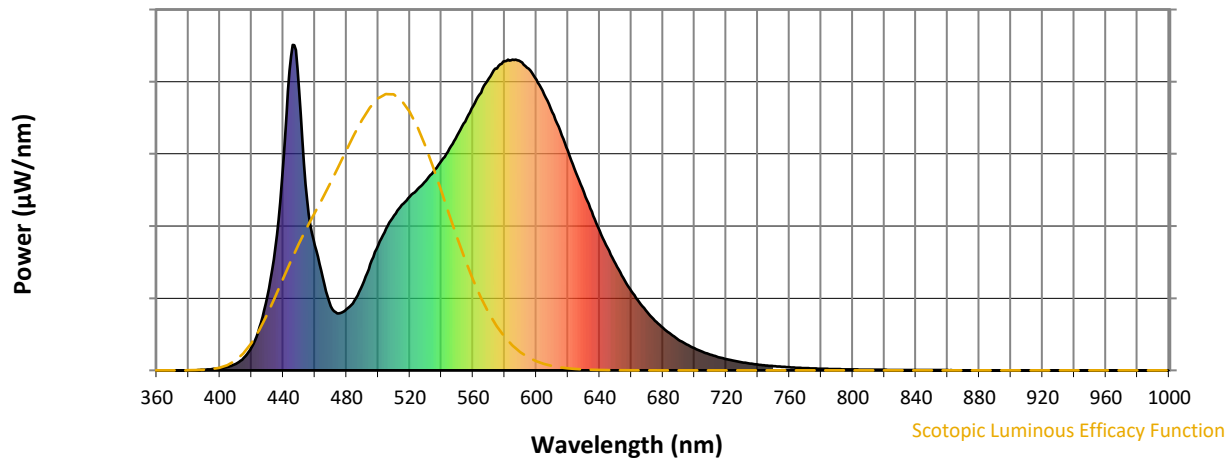


### Photopic Lumens: NR

| $\lambda$<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               | 262                                  | NR                             | 620               | 674                                  | NR                             | 750               | 13                                   | NR                             | 880               | 0                                    | NR                             |
| 365               | 0                                    | NR                             | 495               | 326                                  | NR                             | 625               | 608                                  | NR                             | 755               | 11                                   | NR                             | 885               | 0                                    | NR                             |
| 370               | 0                                    | NR                             | 500               | 384                                  | NR                             | 630               | 548                                  | NR                             | 760               | 9                                    | NR                             | 890               | 0                                    | NR                             |
| 375               | 0                                    | NR                             | 505               | 435                                  | NR                             | 635               | 487                                  | NR                             | 765               | 8                                    | NR                             | 895               | 0                                    | NR                             |
| 380               | 0                                    | NR                             | 510               | 475                                  | NR                             | 640               | 430                                  | NR                             | 770               | 7                                    | NR                             | 900               | 0                                    | NR                             |
| 385               | 0                                    | NR                             | 515               | 508                                  | NR                             | 645               | 377                                  | NR                             | 775               | 6                                    | NR                             | 905               | 0                                    | NR                             |
| 390               | 2                                    | NR                             | 520               | 534                                  | NR                             | 650               | 327                                  | NR                             | 780               | 5                                    | NR                             | 910               | 0                                    | NR                             |
| 395               | 4                                    | NR                             | 525               | 557                                  | NR                             | 655               | 284                                  | NR                             | 785               | 4                                    | NR                             | 915               | 0                                    | NR                             |
| 400               | 7                                    | NR                             | 530               | 582                                  | NR                             | 660               | 243                                  | NR                             | 790               | 4                                    | NR                             | 920               | 0                                    | NR                             |
| 405               | 11                                   | NR                             | 535               | 611                                  | NR                             | 665               | 210                                  | NR                             | 795               | 3                                    | NR                             | 925               | 0                                    | NR                             |
| 410               | 20                                   | NR                             | 540               | 644                                  | NR                             | 670               | 179                                  | NR                             | 800               | 3                                    | NR                             | 930               | 0                                    | NR                             |
| 415               | 38                                   | NR                             | 545               | 681                                  | NR                             | 675               | 153                                  | NR                             | 805               | 2                                    | NR                             | 935               | 0                                    | NR                             |
| 420               | 71                                   | NR                             | 550               | 721                                  | NR                             | 680               | 131                                  | NR                             | 810               | 2                                    | NR                             | 940               | 0                                    | NR                             |
| 425               | 132                                  | NR                             | 555               | 764                                  | NR                             | 685               | 111                                  | NR                             | 815               | 2                                    | NR                             | 945               | 0                                    | NR                             |
| 430               | 228                                  | NR                             | 560               | 812                                  | NR                             | 690               | 94                                   | NR                             | 820               | 2                                    | NR                             | 950               | 0                                    | NR                             |
| 435               | 378                                  | NR                             | 565               | 854                                  | NR                             | 695               | 80                                   | NR                             | 825               | 1                                    | NR                             | 955               | 0                                    | NR                             |
| 440               | 643                                  | NR                             | 570               | 897                                  | NR                             | 700               | 68                                   | NR                             | 830               | 1                                    | NR                             | 960               | 0                                    | NR                             |
| 445               | 965                                  | NR                             | 575               | 927                                  | NR                             | 705               | 57                                   | NR                             | 835               | 1                                    | NR                             | 965               | 0                                    | NR                             |
| 450               | 860                                  | NR                             | 580               | 950                                  | NR                             | 710               | 48                                   | NR                             | 840               | 1                                    | NR                             | 970               | 0                                    | NR                             |
| 455               | 525                                  | NR                             | 585               | 955                                  | NR                             | 715               | 41                                   | NR                             | 845               | 1                                    | NR                             | 975               | 0                                    | NR                             |
| 460               | 385                                  | NR                             | 590               | 949                                  | NR                             | 720               | 35                                   | NR                             | 850               | 1                                    | NR                             | 980               | 0                                    | NR                             |
| 465               | 285                                  | NR                             | 595               | 927                                  | NR                             | 725               | 29                                   | NR                             | 855               | 1                                    | NR                             | 985               | 0                                    | NR                             |
| 470               | 197                                  | NR                             | 600               | 893                                  | NR                             | 730               | 25                                   | NR                             | 860               | 1                                    | NR                             | 990               | 0                                    | NR                             |
| 475               | 175                                  | NR                             | 605               | 847                                  | NR                             | 735               | 21                                   | NR                             | 865               | 1                                    | NR                             | 995               | 0                                    | NR                             |
| 480               | 188                                  | NR                             | 610               | 794                                  | NR                             | 740               | 18                                   | NR                             | 870               | 0                                    | NR                             | 1000              | 0                                    | NR                             |
| 485               | 215                                  | NR                             | 615               | 736                                  | NR                             | 745               | 15                                   | NR                             | 875               | 0                                    | NR                             |                   |                                      |                                |

REPORT NUMBER: SP1-2501-319-6

### Scotopic Flux vs. Wavelength



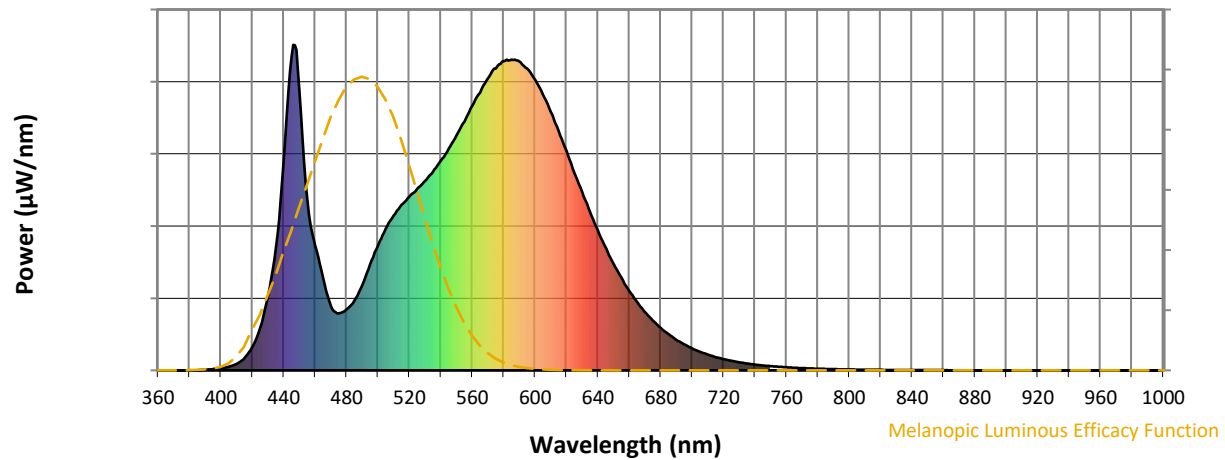
Scotopic Lumens: NR

S/P: 1.56

| 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       | 262                         | NR               | 620       | 674                         | NR               | 750       | 13                          | NR               | 880       | 0                           | NR               |
| 365       | 0                           | NR               | 495       | 326                         | NR               | 625       | 608                         | NR               | 755       | 11                          | NR               | 885       | 0                           | NR               |
| 370       | 0                           | NR               | 500       | 384                         | NR               | 630       | 548                         | NR               | 760       | 9                           | NR               | 890       | 0                           | NR               |
| 375       | 0                           | NR               | 505       | 435                         | NR               | 635       | 487                         | NR               | 765       | 8                           | NR               | 895       | 0                           | NR               |
| 380       | 0                           | NR               | 510       | 475                         | NR               | 640       | 430                         | NR               | 770       | 7                           | NR               | 900       | 0                           | NR               |
| 385       | 0                           | NR               | 515       | 508                         | NR               | 645       | 377                         | NR               | 775       | 6                           | NR               | 905       | 0                           | NR               |
| 390       | 2                           | NR               | 520       | 534                         | NR               | 650       | 327                         | NR               | 780       | 5                           | NR               | 910       | 0                           | NR               |
| 395       | 4                           | NR               | 525       | 557                         | NR               | 655       | 284                         | NR               | 785       | 4                           | NR               | 915       | 0                           | NR               |
| 400       | 7                           | NR               | 530       | 582                         | NR               | 660       | 243                         | NR               | 790       | 4                           | NR               | 920       | 0                           | NR               |
| 405       | 11                          | NR               | 535       | 611                         | NR               | 665       | 210                         | NR               | 795       | 3                           | NR               | 925       | 0                           | NR               |
| 410       | 20                          | NR               | 540       | 644                         | NR               | 670       | 179                         | NR               | 800       | 3                           | NR               | 930       | 0                           | NR               |
| 415       | 38                          | NR               | 545       | 681                         | NR               | 675       | 153                         | NR               | 805       | 2                           | NR               | 935       | 0                           | NR               |
| 420       | 71                          | NR               | 550       | 721                         | NR               | 680       | 131                         | NR               | 810       | 2                           | NR               | 940       | 0                           | NR               |
| 425       | 132                         | NR               | 555       | 764                         | NR               | 685       | 111                         | NR               | 815       | 2                           | NR               | 945       | 0                           | NR               |
| 430       | 228                         | NR               | 560       | 812                         | NR               | 690       | 94                          | NR               | 820       | 2                           | NR               | 950       | 0                           | NR               |
| 435       | 378                         | NR               | 565       | 854                         | NR               | 695       | 80                          | NR               | 825       | 1                           | NR               | 955       | 0                           | NR               |
| 440       | 643                         | NR               | 570       | 897                         | NR               | 700       | 68                          | NR               | 830       | 1                           | NR               | 960       | 0                           | NR               |
| 445       | 965                         | NR               | 575       | 927                         | NR               | 705       | 57                          | NR               | 835       | 1                           | NR               | 965       | 0                           | NR               |
| 450       | 860                         | NR               | 580       | 950                         | NR               | 710       | 48                          | NR               | 840       | 1                           | NR               | 970       | 0                           | NR               |
| 455       | 525                         | NR               | 585       | 955                         | NR               | 715       | 41                          | NR               | 845       | 1                           | NR               | 975       | 0                           | NR               |
| 460       | 385                         | NR               | 590       | 949                         | NR               | 720       | 35                          | NR               | 850       | 1                           | NR               | 980       | 0                           | NR               |
| 465       | 285                         | NR               | 595       | 927                         | NR               | 725       | 29                          | NR               | 855       | 1                           | NR               | 985       | 0                           | NR               |
| 470       | 197                         | NR               | 600       | 893                         | NR               | 730       | 25                          | NR               | 860       | 1                           | NR               | 990       | 0                           | NR               |
| 475       | 175                         | NR               | 605       | 847                         | NR               | 735       | 21                          | NR               | 865       | 1                           | NR               | 995       | 0                           | NR               |
| 480       | 188                         | NR               | 610       | 794                         | NR               | 740       | 18                          | NR               | 870       | 0                           | NR               | 1000      | 0                           | NR               |
| 485       | 215                         | NR               | 615       | 736                         | NR               | 745       | 15                          | NR               | 875       | 0                           | NR               |           |                             |                  |

REPORT NUMBER: SP1-2501-319-6

### Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.08

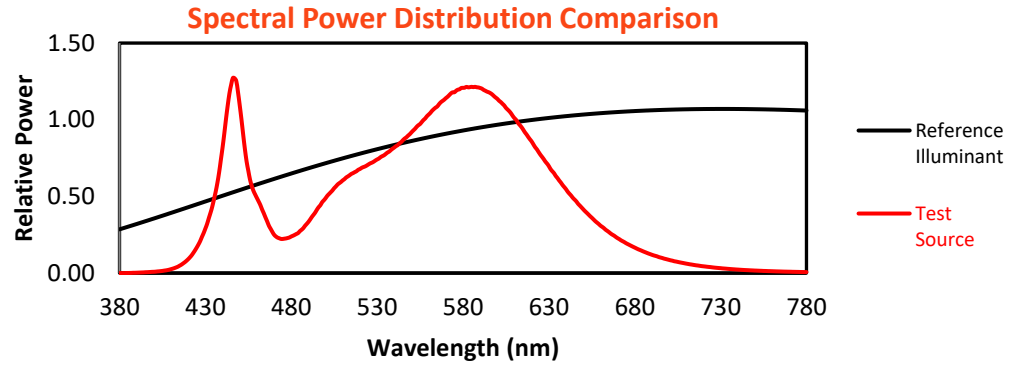
| λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) |
|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|
| 360       | 0                           | NR               | 490       | 262                         | NR               | 620       | 674                         | NR               | 750       | 13                          | NR               | 880       | 0                           | NR               |
| 365       | 0                           | NR               | 495       | 326                         | NR               | 625       | 608                         | NR               | 755       | 11                          | NR               | 885       | 0                           | NR               |
| 370       | 0                           | NR               | 500       | 384                         | NR               | 630       | 548                         | NR               | 760       | 9                           | NR               | 890       | 0                           | NR               |
| 375       | 0                           | NR               | 505       | 435                         | NR               | 635       | 487                         | NR               | 765       | 8                           | NR               | 895       | 0                           | NR               |
| 380       | 0                           | NR               | 510       | 475                         | NR               | 640       | 430                         | NR               | 770       | 7                           | NR               | 900       | 0                           | NR               |
| 385       | 0                           | NR               | 515       | 508                         | NR               | 645       | 377                         | NR               | 775       | 6                           | NR               | 905       | 0                           | NR               |
| 390       | 2                           | NR               | 520       | 534                         | NR               | 650       | 327                         | NR               | 780       | 5                           | NR               | 910       | 0                           | NR               |
| 395       | 4                           | NR               | 525       | 557                         | NR               | 655       | 284                         | NR               | 785       | 4                           | NR               | 915       | 0                           | NR               |
| 400       | 7                           | NR               | 530       | 582                         | NR               | 660       | 243                         | NR               | 790       | 4                           | NR               | 920       | 0                           | NR               |
| 405       | 11                          | NR               | 535       | 611                         | NR               | 665       | 210                         | NR               | 795       | 3                           | NR               | 925       | 0                           | NR               |
| 410       | 20                          | NR               | 540       | 644                         | NR               | 670       | 179                         | NR               | 800       | 3                           | NR               | 930       | 0                           | NR               |
| 415       | 38                          | NR               | 545       | 681                         | NR               | 675       | 153                         | NR               | 805       | 2                           | NR               | 935       | 0                           | NR               |
| 420       | 71                          | NR               | 550       | 721                         | NR               | 680       | 131                         | NR               | 810       | 2                           | NR               | 940       | 0                           | NR               |
| 425       | 132                         | NR               | 555       | 764                         | NR               | 685       | 111                         | NR               | 815       | 2                           | NR               | 945       | 0                           | NR               |
| 430       | 228                         | NR               | 560       | 812                         | NR               | 690       | 94                          | NR               | 820       | 2                           | NR               | 950       | 0                           | NR               |
| 435       | 378                         | NR               | 565       | 854                         | NR               | 695       | 80                          | NR               | 825       | 1                           | NR               | 955       | 0                           | NR               |
| 440       | 643                         | NR               | 570       | 897                         | NR               | 700       | 68                          | NR               | 830       | 1                           | NR               | 960       | 0                           | NR               |
| 445       | 965                         | NR               | 575       | 927                         | NR               | 705       | 57                          | NR               | 835       | 1                           | NR               | 965       | 0                           | NR               |
| 450       | 860                         | NR               | 580       | 950                         | NR               | 710       | 48                          | NR               | 840       | 1                           | NR               | 970       | 0                           | NR               |
| 455       | 525                         | NR               | 585       | 955                         | NR               | 715       | 41                          | NR               | 845       | 1                           | NR               | 975       | 0                           | NR               |
| 460       | 385                         | NR               | 590       | 949                         | NR               | 720       | 35                          | NR               | 850       | 1                           | NR               | 980       | 0                           | NR               |
| 465       | 285                         | NR               | 595       | 927                         | NR               | 725       | 29                          | NR               | 855       | 1                           | NR               | 985       | 0                           | NR               |
| 470       | 197                         | NR               | 600       | 893                         | NR               | 730       | 25                          | NR               | 860       | 1                           | NR               | 990       | 0                           | NR               |
| 475       | 175                         | NR               | 605       | 847                         | NR               | 735       | 21                          | NR               | 865       | 1                           | NR               | 995       | 0                           | NR               |
| 480       | 188                         | NR               | 610       | 794                         | NR               | 740       | 18                          | NR               | 870       | 0                           | NR               | 1000      | 0                           | NR               |
| 485       | 215                         | NR               | 615       | 736                         | NR               | 745       | 15                          | NR               | 875       | 0                           | NR               |           |                             |                  |

REPORT NUMBER: SP1-2501-319-6

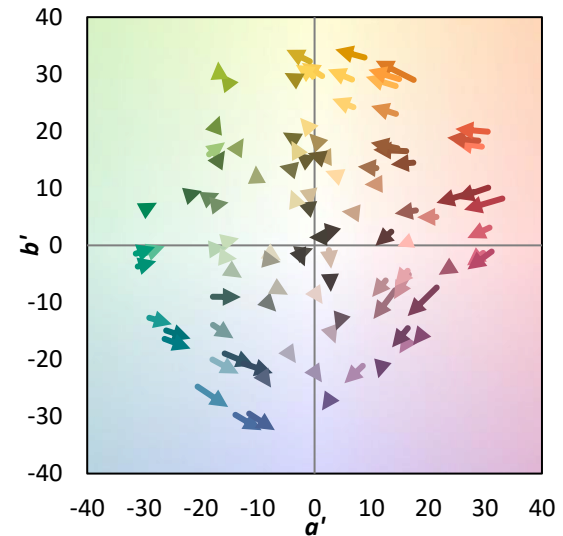
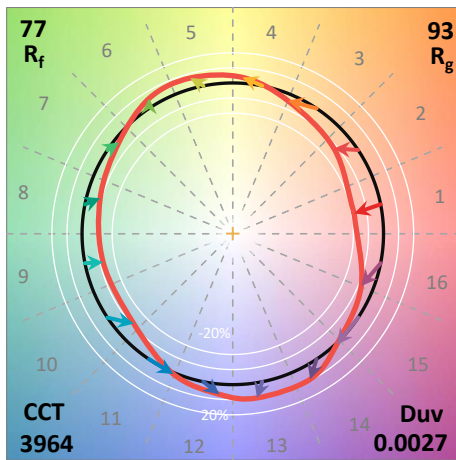
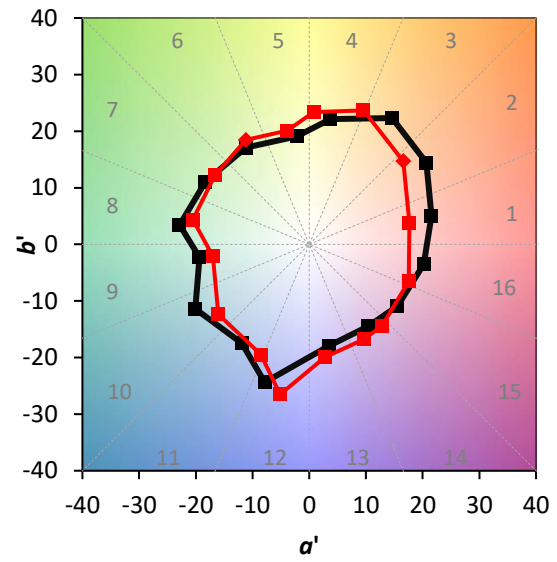
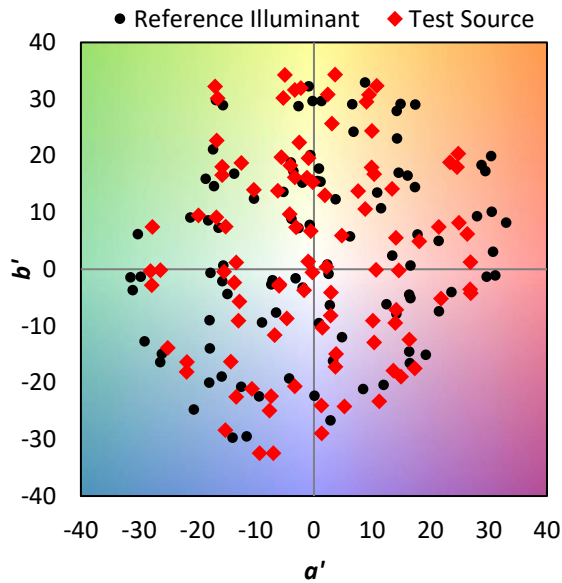
TM-30-18

### Summary

$R_f = 76.7$   
 $R_g = 92.6$   
 $CIE R_a = 72.6$   
 $R_g = -43.1$

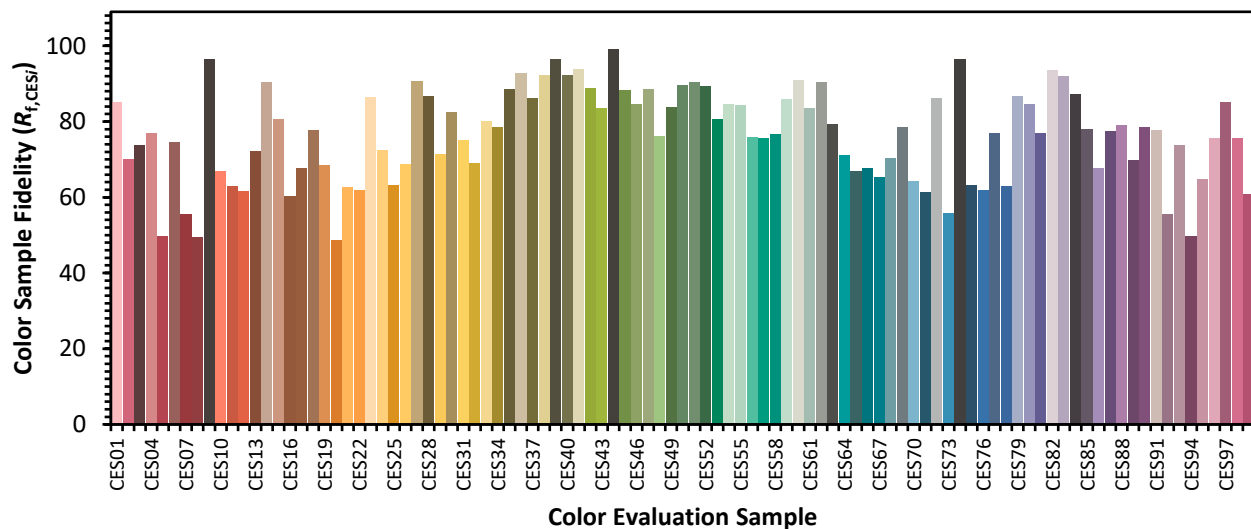


### Color Vector Graphics

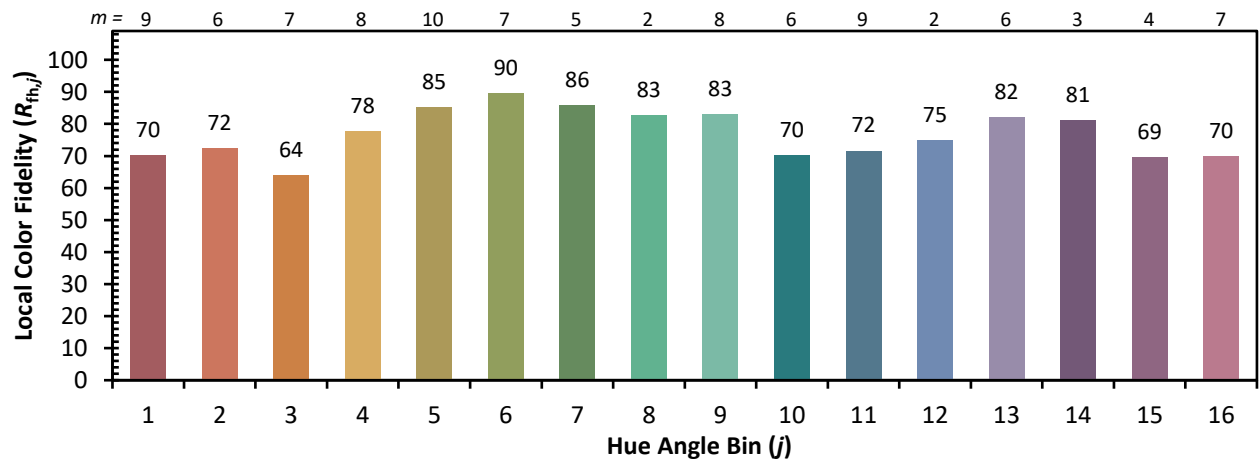
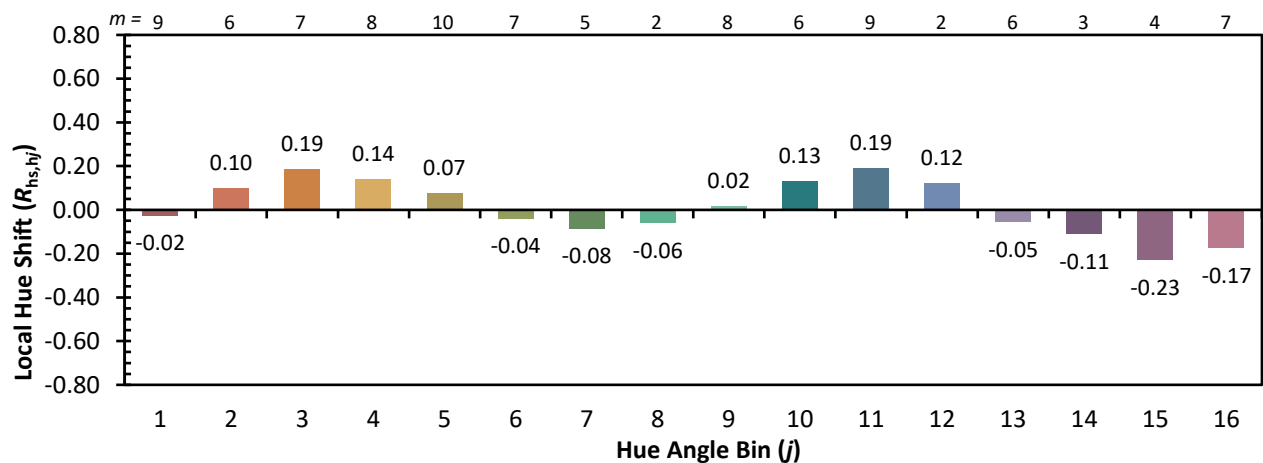
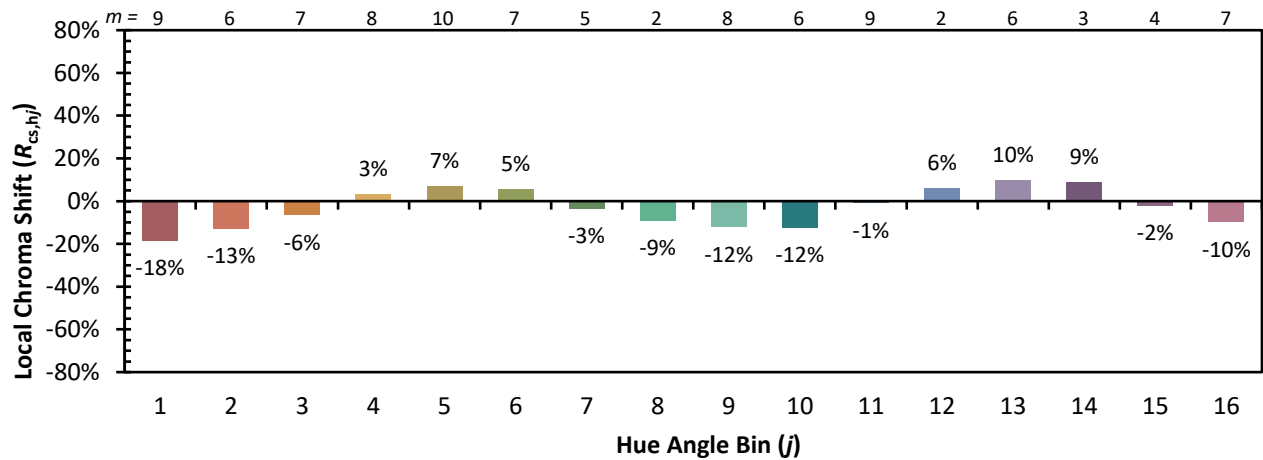


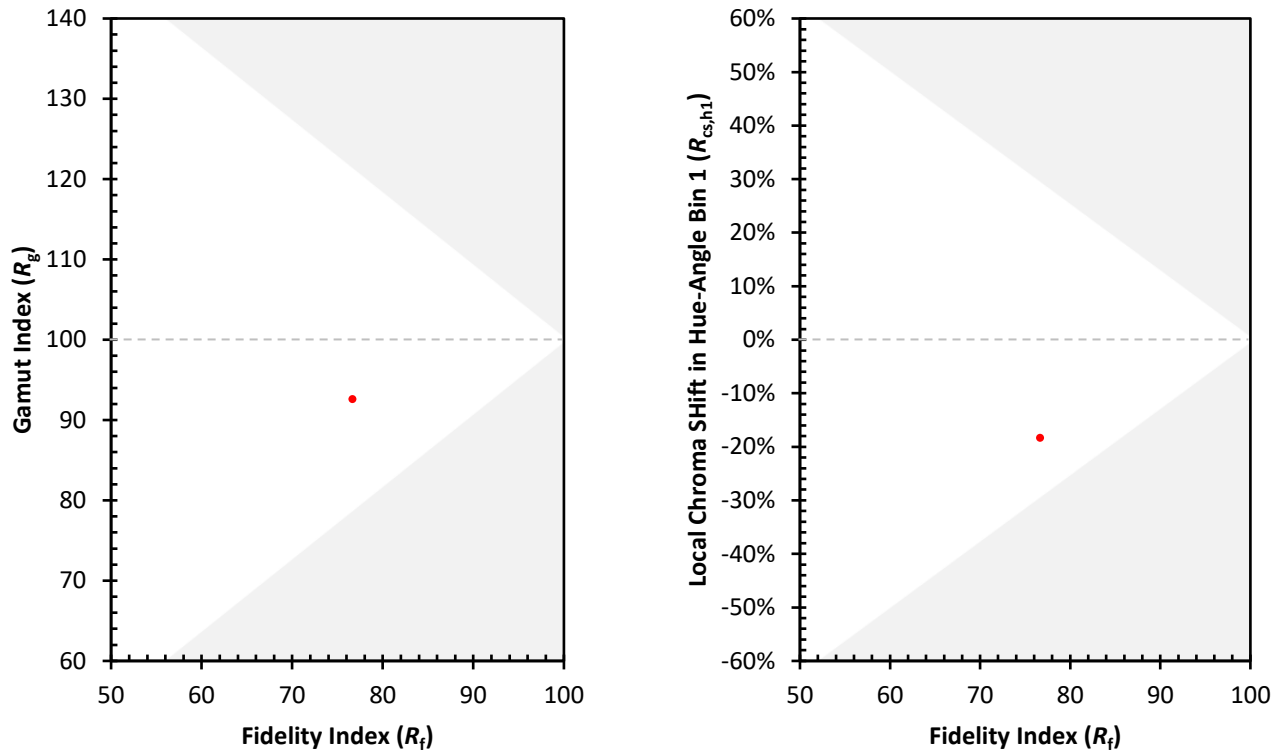
**Individual Sample Fidelity Index ( $R_{f,i}$ )**

|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 69 | CES51 = 90 | CES76 = 62 |
| CES02 = 61 | CES27 = 91 | CES52 = 89 | CES77 = 77 |
| CES03 = 30 | CES28 = 87 | CES53 = 81 | CES78 = 63 |
| CES04 = 70 | CES29 = 71 | CES54 = 85 | CES79 = 87 |
| CES05 = 47 | CES30 = 82 | CES55 = 84 | CES80 = 85 |
| CES06 = 50 | CES31 = 75 | CES56 = 76 | CES81 = 77 |
| CES07 = 39 | CES32 = 69 | CES57 = 76 | CES82 = 93 |
| CES08 = 38 | CES33 = 80 | CES58 = 77 | CES83 = 92 |
| CES09 = 29 | CES34 = 79 | CES59 = 86 | CES84 = 87 |
| CES10 = 74 | CES35 = 88 | CES60 = 91 | CES85 = 78 |
| CES11 = 57 | CES36 = 93 | CES61 = 84 | CES86 = 68 |
| CES12 = 63 | CES37 = 86 | CES62 = 90 | CES87 = 77 |
| CES13 = 42 | CES38 = 92 | CES63 = 79 | CES88 = 79 |
| CES14 = 74 | CES39 = 96 | CES64 = 71 | CES89 = 70 |
| CES15 = 71 | CES40 = 92 | CES65 = 67 | CES90 = 78 |
| CES16 = 46 | CES41 = 94 | CES66 = 68 | CES91 = 78 |
| CES17 = 49 | CES42 = 89 | CES67 = 65 | CES92 = 56 |
| CES18 = 56 | CES43 = 84 | CES68 = 70 | CES93 = 74 |
| CES19 = 72 | CES44 = 99 | CES69 = 79 | CES94 = 50 |
| CES20 = 65 | CES45 = 88 | CES70 = 64 | CES95 = 65 |
| CES21 = 86 | CES46 = 84 | CES71 = 61 | CES96 = 76 |
| CES22 = 78 | CES47 = 88 | CES72 = 86 | CES97 = 85 |
| CES23 = 92 | CES48 = 76 | CES73 = 56 | CES98 = 76 |
| CES24 = 91 | CES49 = 84 | CES74 = 96 | CES99 = 61 |
| CES25 = 72 | CES50 = 90 | CES75 = 63 |            |



Color Rendition by Hue-Angle Bin



**Measure Comparisons**


(END OF REPORT)