

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



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

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: LUMARK

Report Number: P980915

Luminaire Tested: **NFFLD-C25-7040-33**

Issue Date: 04/10/2025



Test Information

Test Method: LM-79-08
Report Number: P980915
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NFFLD-C25-7040-33
Description: NIGHT FALCON MEDIUM SIZE 90W 70CRI 4000K LED FIXTURE NEMA 3
Light Source: (8) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

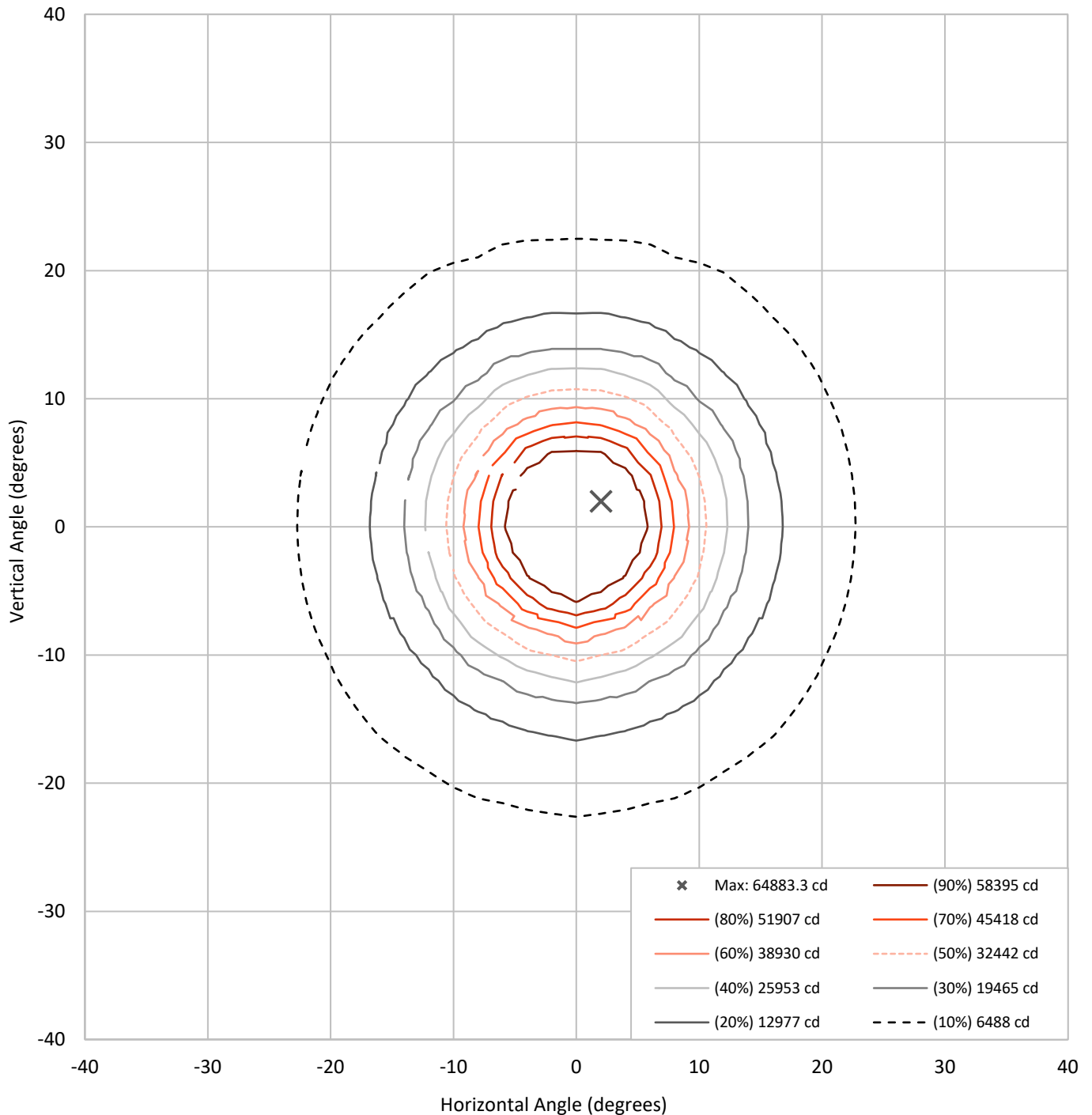
Summary

| | | | |
|-------------------|--|----------------------|-----------------|
| 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





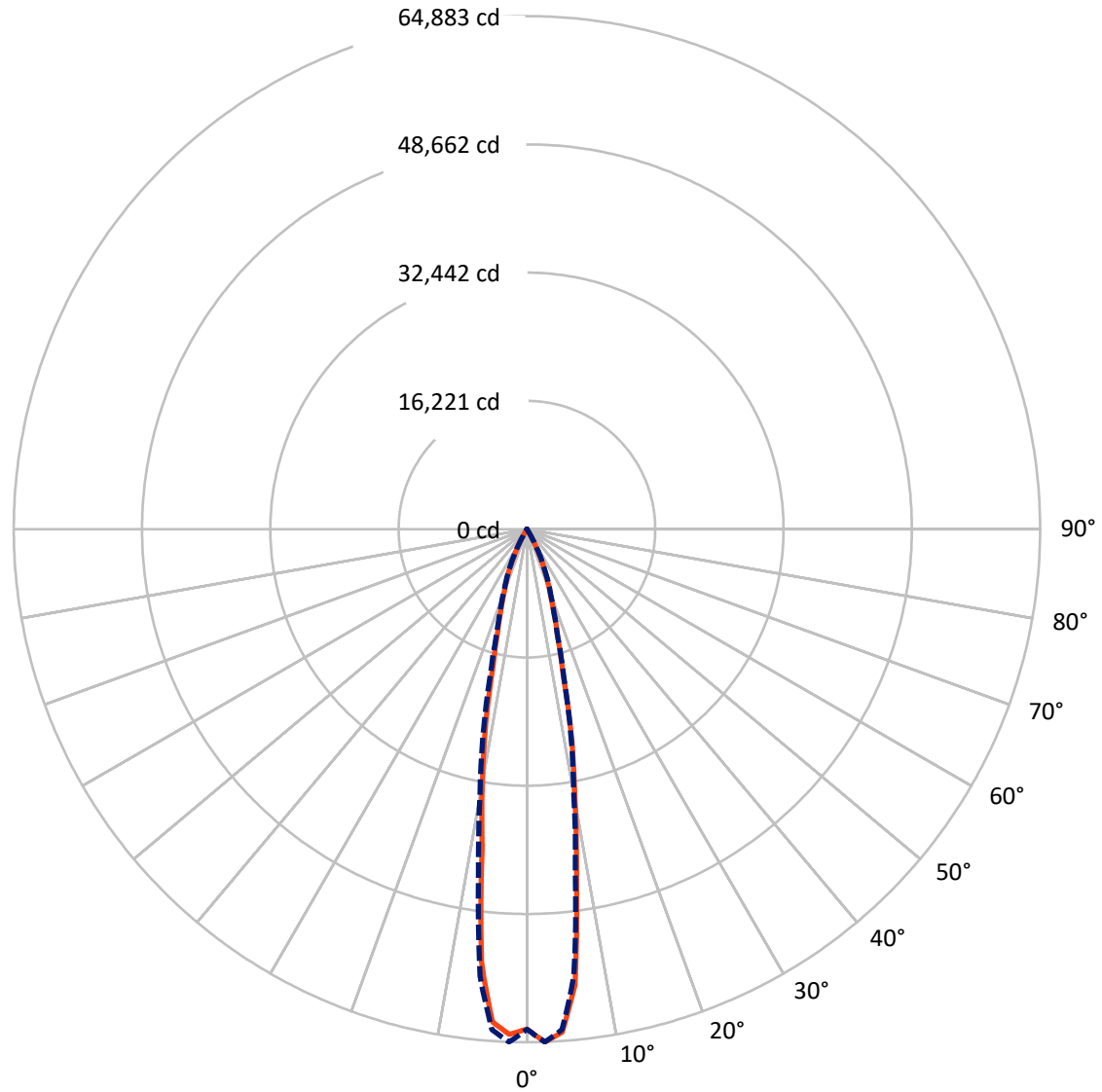
REPORT NUMBER: P980915
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Lumen Table

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-------|-------|--------|--------|-------|-------|-----|-----|-----|-----|-----|-----|----|----|----|
| 90 | | | | | | | | | | | | | | | | | | | |
| 80 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | |
| 70 | | | | | | | | | | | | | | | | | | | |
| 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 | 0.0 | 0.0 | 0.0 | | | |
| 50 | | | | | | | | | | | | | | | | | | | |
| 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 | 0.0 | 0.0 | 0.0 | | | |
| 30 | | | | | | | | | | | | | | | | | | | |
| 20 | 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 | 0.0 | 0.0 | | | |
| 10 | | | | | | | | | | | | | | | | | | | |
| 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 | | | |
| -10 | | | | | | | | | | | | | | | | | | | |
| -20 | 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 | 0.0 | 0.0 | | | |
| -30 | | | | | | | | | | | | | | | | | | | |
| -40 | 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 | 0.0 | | | |
| -50 | | | | | | | | | | | | | | | | | | | |
| -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 | 0.0 | 0.0 | 0.0 | | | |
| -70 | | | | | | | | | | | | | | | | | | | |
| -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 | 0.0 | 0.0 | 0.0 | | | |
| -90 | | | | | | | | | | | | | | | | | | | |
| | -90 | -80 | -70 | -60 | -50 | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 |

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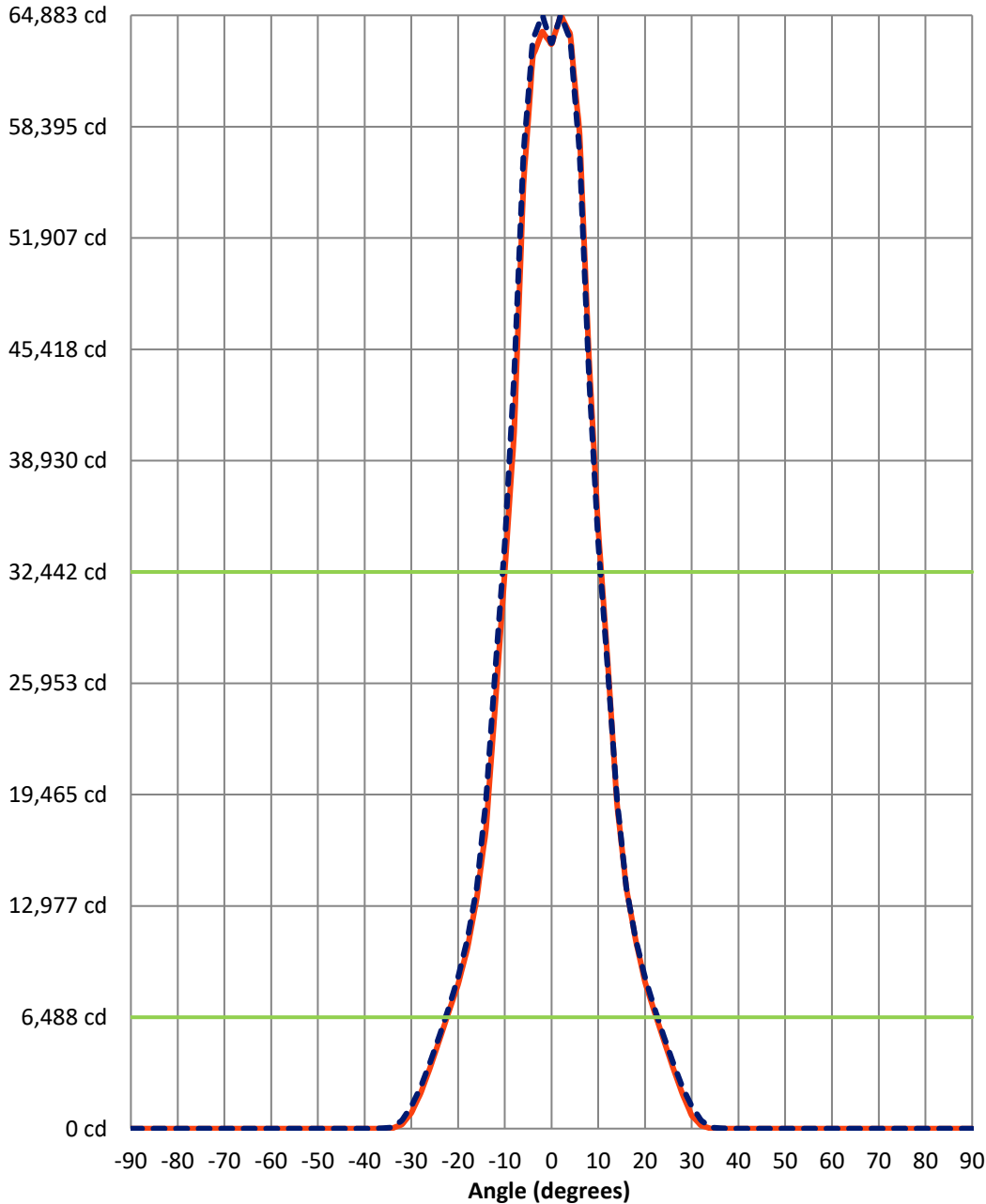
Luminous Intensity Polar Plot



— Vertical Distribution Through 2-Deg - - - Horizontal Distribution Through 2-Deg

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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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 CATALOG NUMBER: NFFLD-C25-7040-33

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: P980915
CATALOG NUMBER: NFFLD-C25-7040-33

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: P980915
 CATALOG NUMBER: NFFLD-C25-7040-33

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: P980915
 CATALOG NUMBER: NFFLD-C25-7040-33

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: P980915
CATALOG NUMBER: NFFLD-C25-7040-33

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: P980915
 CATALOG NUMBER: NFFLD-C25-7040-33

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: P980915
 CATALOG NUMBER: NFFLD-C25-7040-33

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: P980915
CATALOG NUMBER: NFFLD-C25-7040-33

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: P980915
 CATALOG NUMBER: NFFLD-C25-7040-33

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: P980915
 CATALOG NUMBER: NFFLD-C25-7040-33

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: P980915
CATALOG NUMBER: NFFLD-C25-7040-33

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: P980915
CATALOG NUMBER: NFFLD-C25-7040-33

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: P980915
CATALOG NUMBER: NFFLD-C25-7040-33

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: P980915
CATALOG NUMBER: NFFLD-C25-7040-33

CANDELA DISTRIBUTION (continued):

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

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



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

Report Prepared for

Cooper Lighting Solutions

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

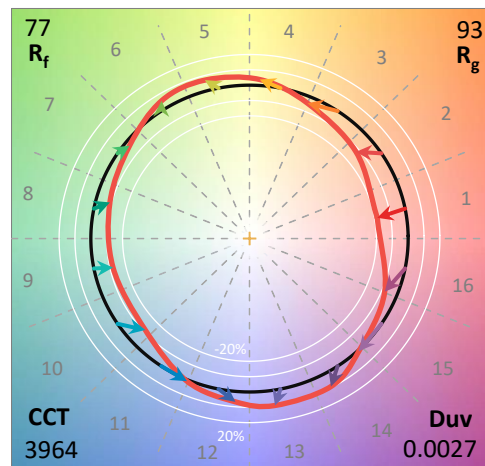
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2501-319-6
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 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
 Rf: 76.7
 Rg: 92.6

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



Test Conditions

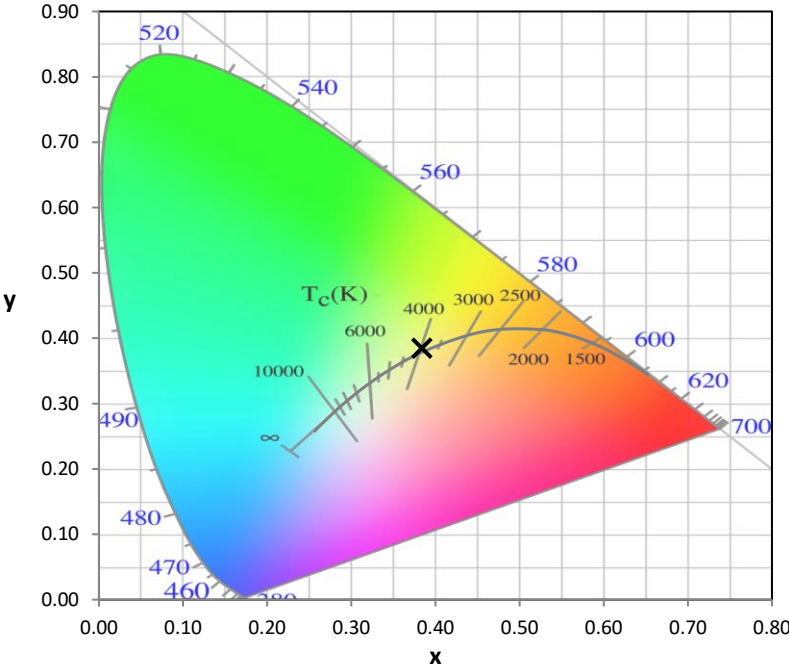
Stabilization Time: 42M
 Operation Time: 1H 42M
 Sphere Temperature (°C): 25.0

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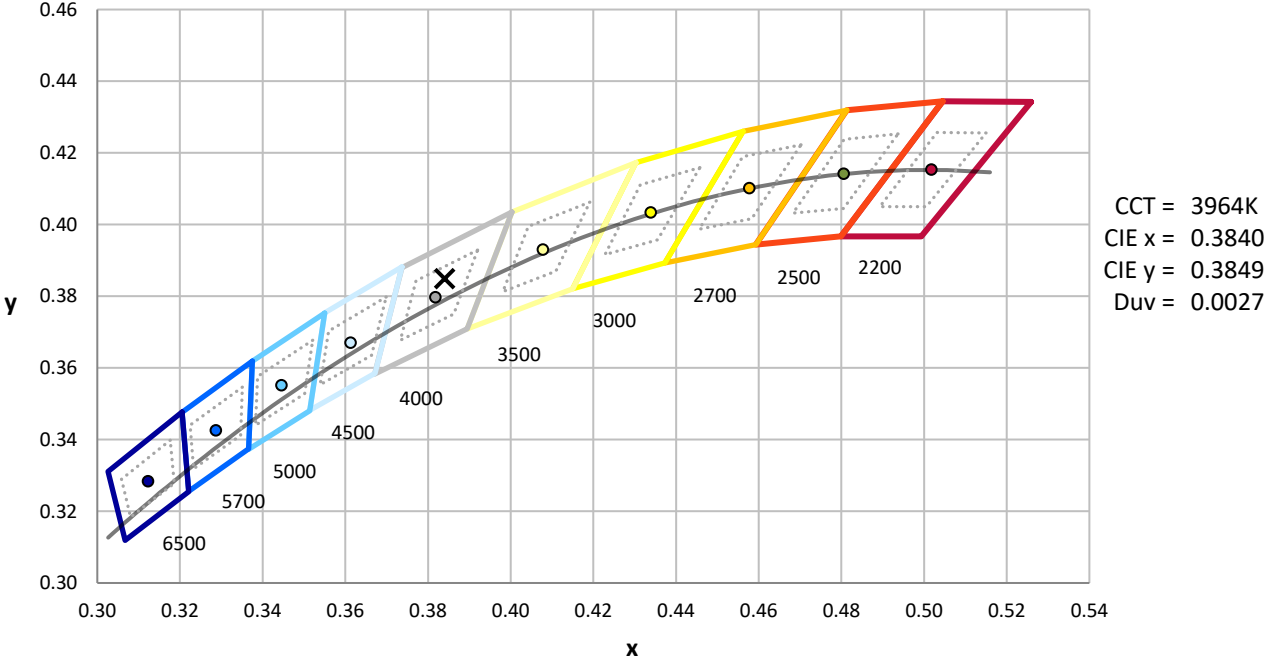
| Measurement and Test Equipment | | | |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 12/16/2024 | 6/16/2025 |
| Power Meter | INXT2011004 | 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 |

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CIE 1931 Chromaticity Diagram



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

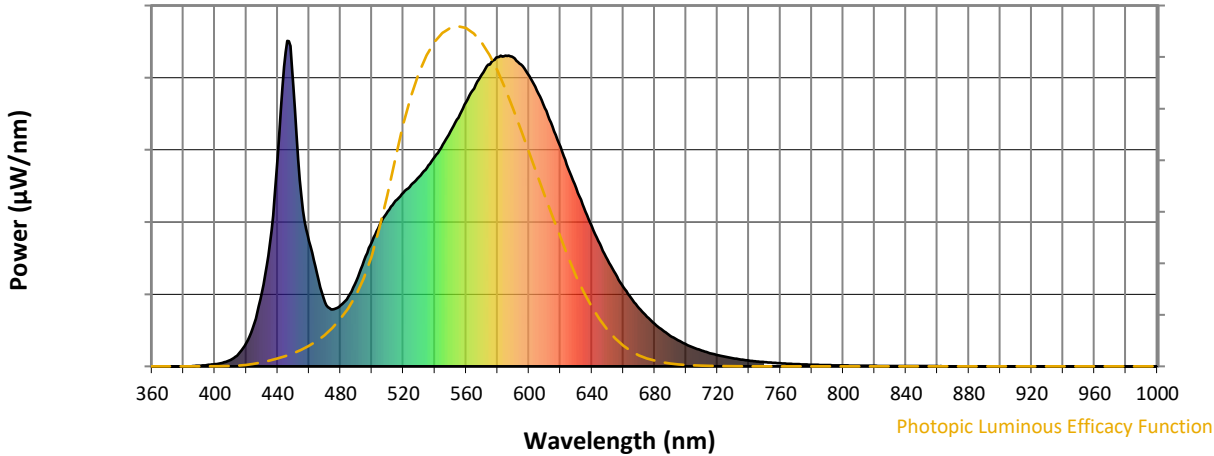


CCT = 3964K
 CIE x = 0.3840
 CIE y = 0.3849
 Duv = 0.0027

Point lies inside the ANSI 4000K 4-step quadrangle

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Photopic Flux vs. Wavelength

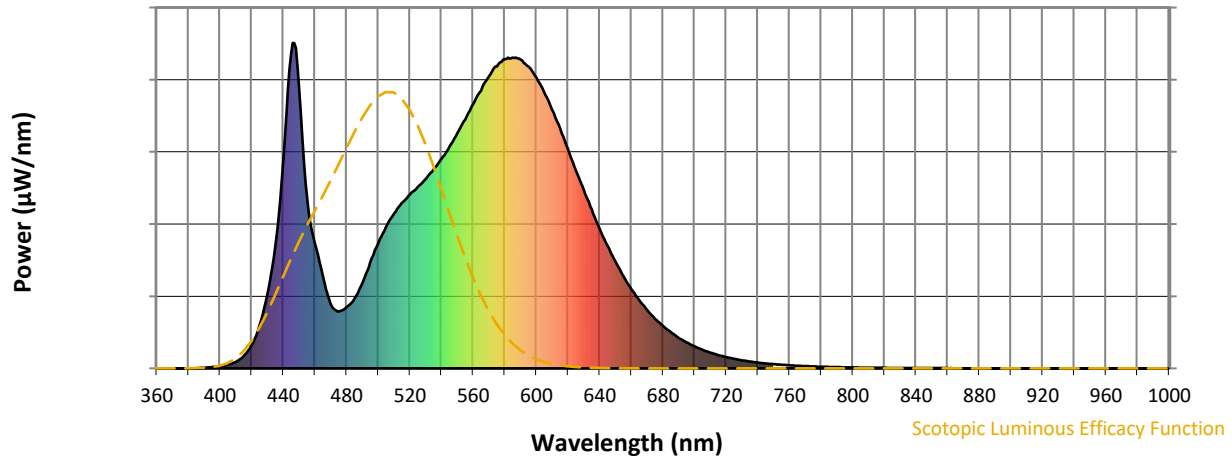


Photopic Lumens: NR

| λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (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 | | | |

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Scotopic Flux vs. Wavelength



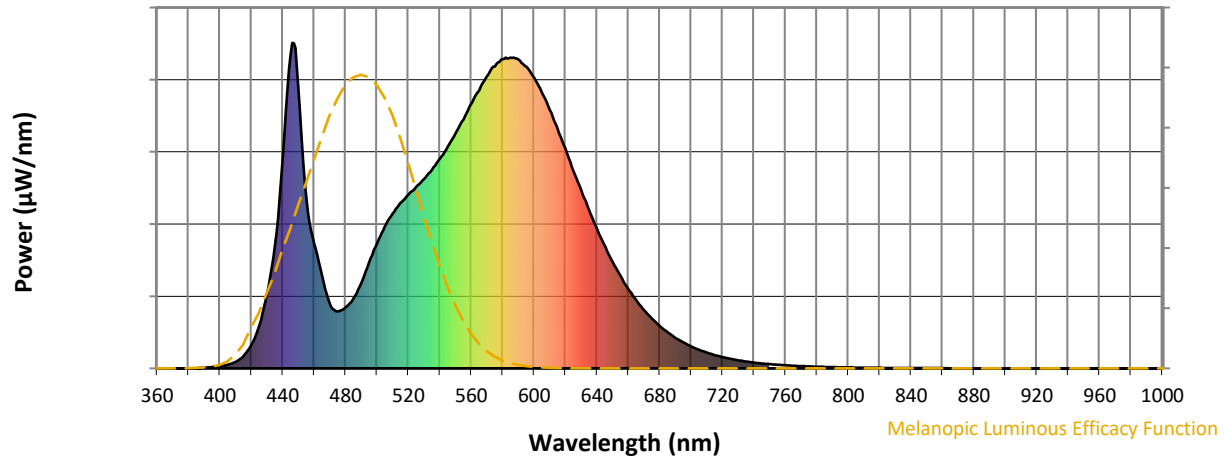
Scotopic Lumens: NR

S/P: 1.56

| λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (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



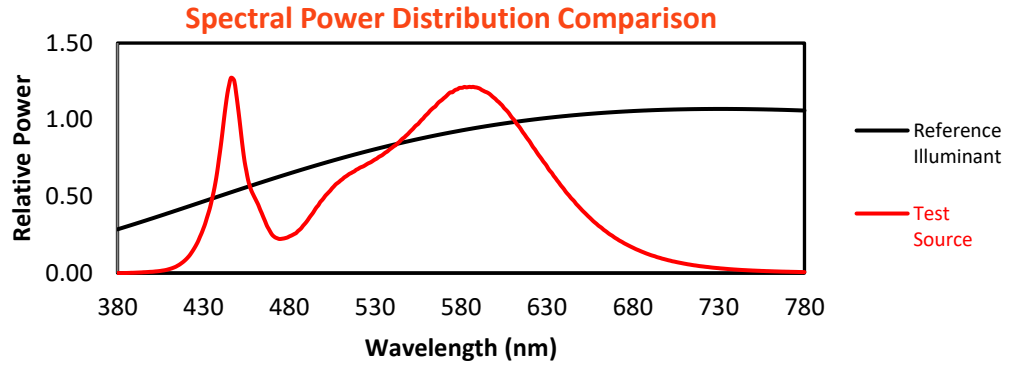
Melanopic Lumens: NR

M/P: 3.08

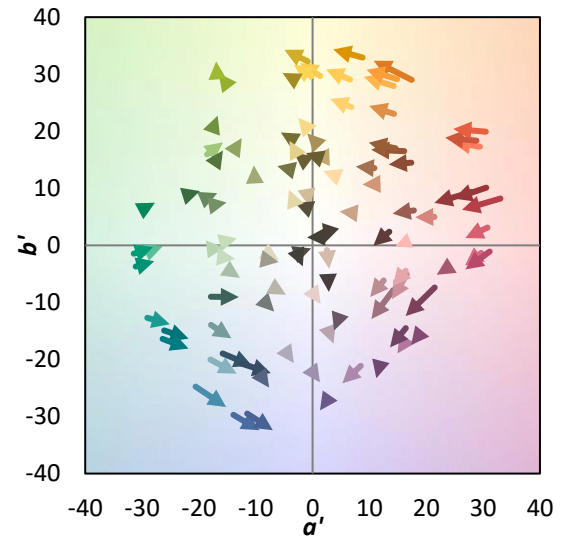
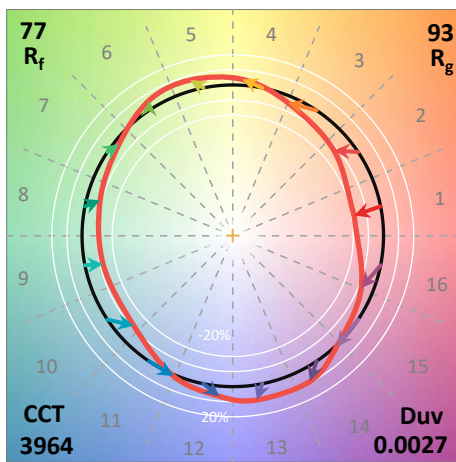
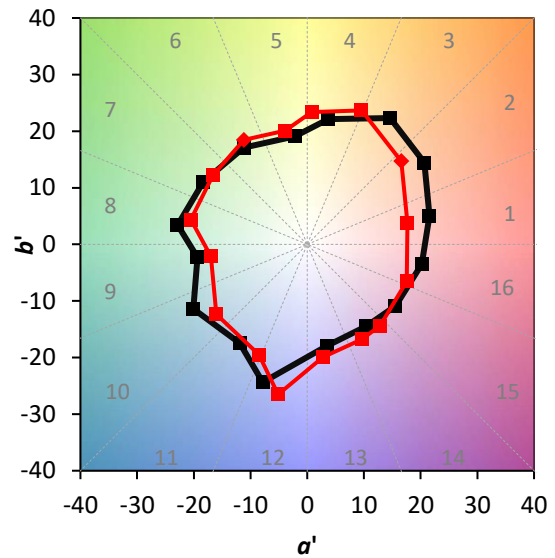
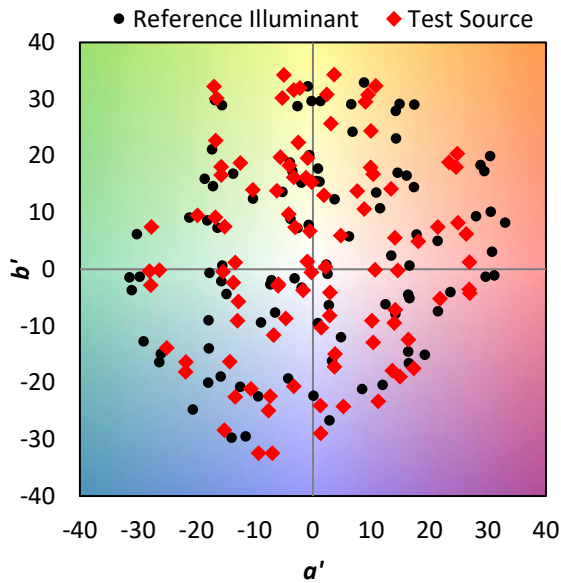
| λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) |
|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|
| 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 | | | |

Summary

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

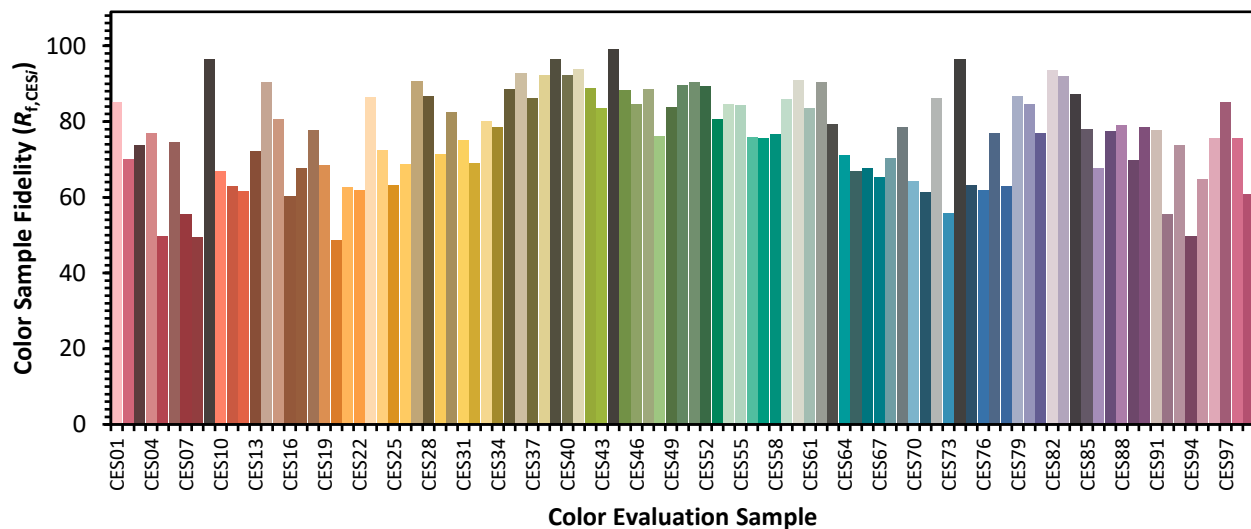


Color Vector Graphics

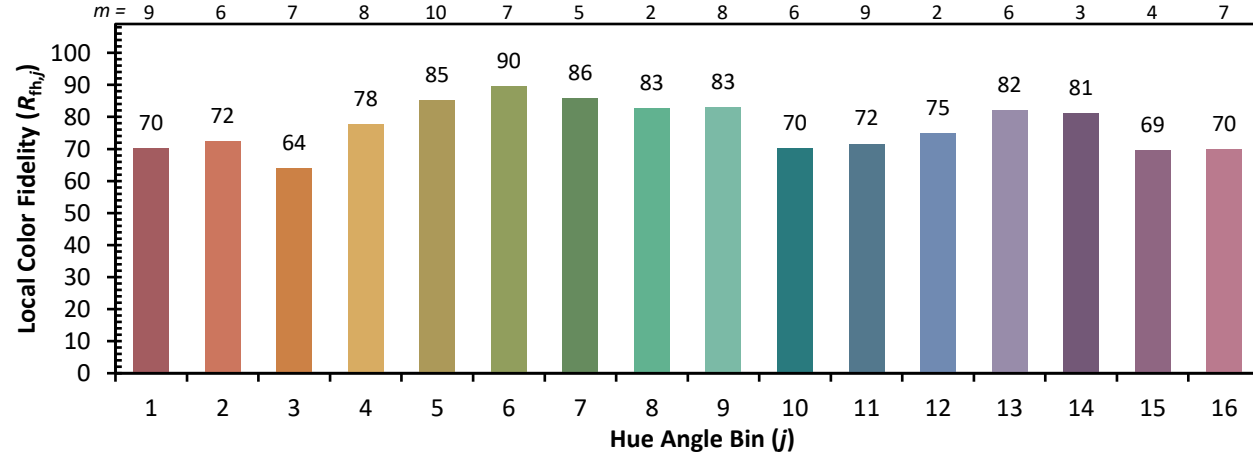
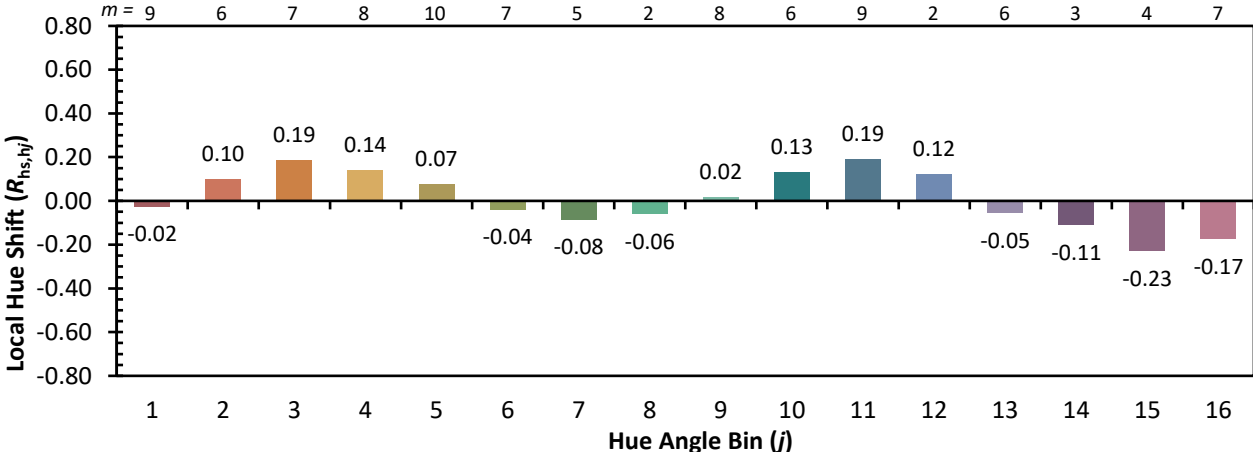
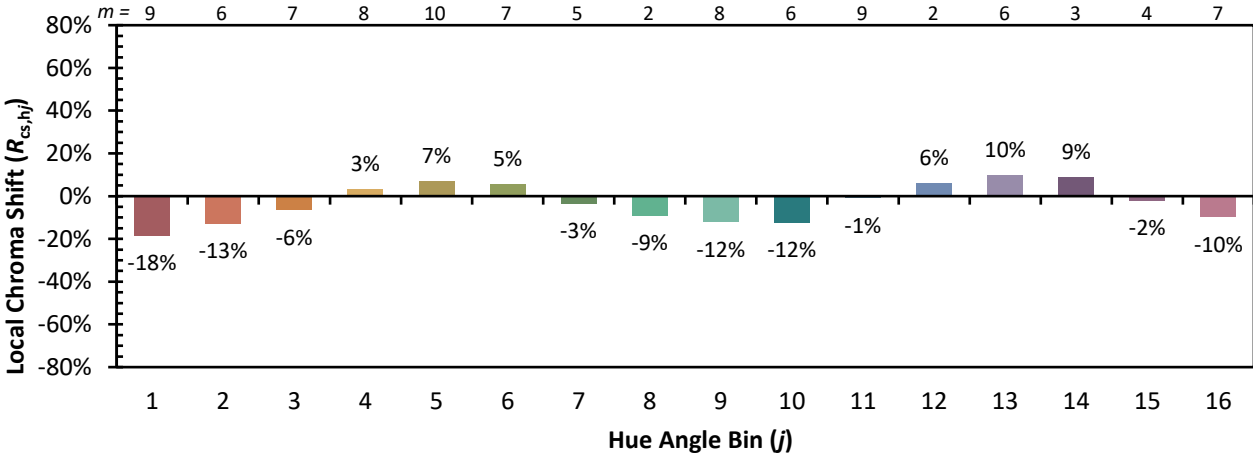


Individual Sample Fidelity Index ($R_{f,i}$)

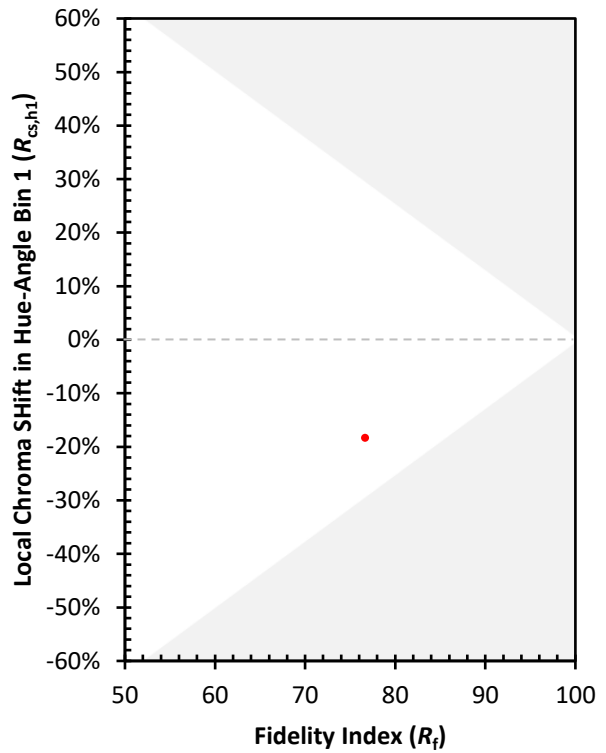
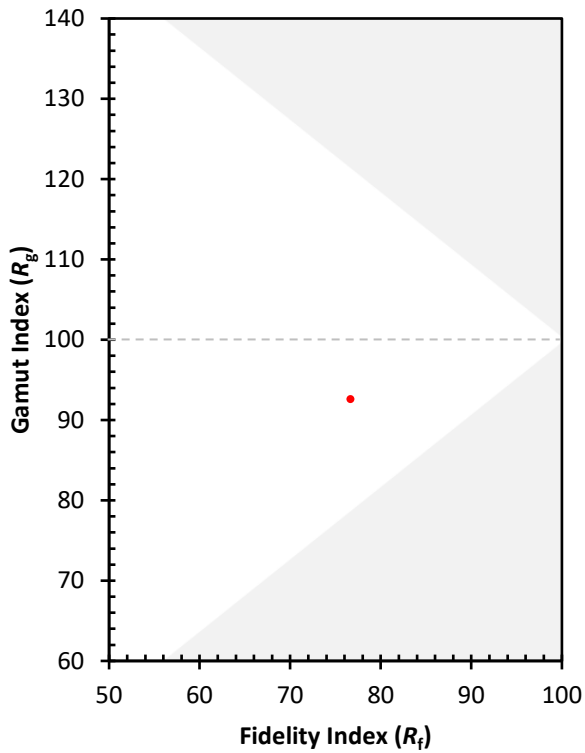
| | | | |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 69 | CES51 = 90 | CES76 = 62 |
| CES02 = 61 | CES27 = 91 | CES52 = 89 | CES77 = 77 |
| CES03 = 30 | CES28 = 87 | CES53 = 81 | CES78 = 63 |
| CES04 = 70 | CES29 = 71 | CES54 = 85 | CES79 = 87 |
| CES05 = 47 | CES30 = 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)