

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



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: HALO

Report Number: P670543 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: ARFL15DBZ-15W-4000K

Issue Date: 3/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P670543 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (2022-08-03)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ARFL15DBZ-15W-4000K
Description: SLIM WALL OR FLOODLIGHT
Light Source: 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

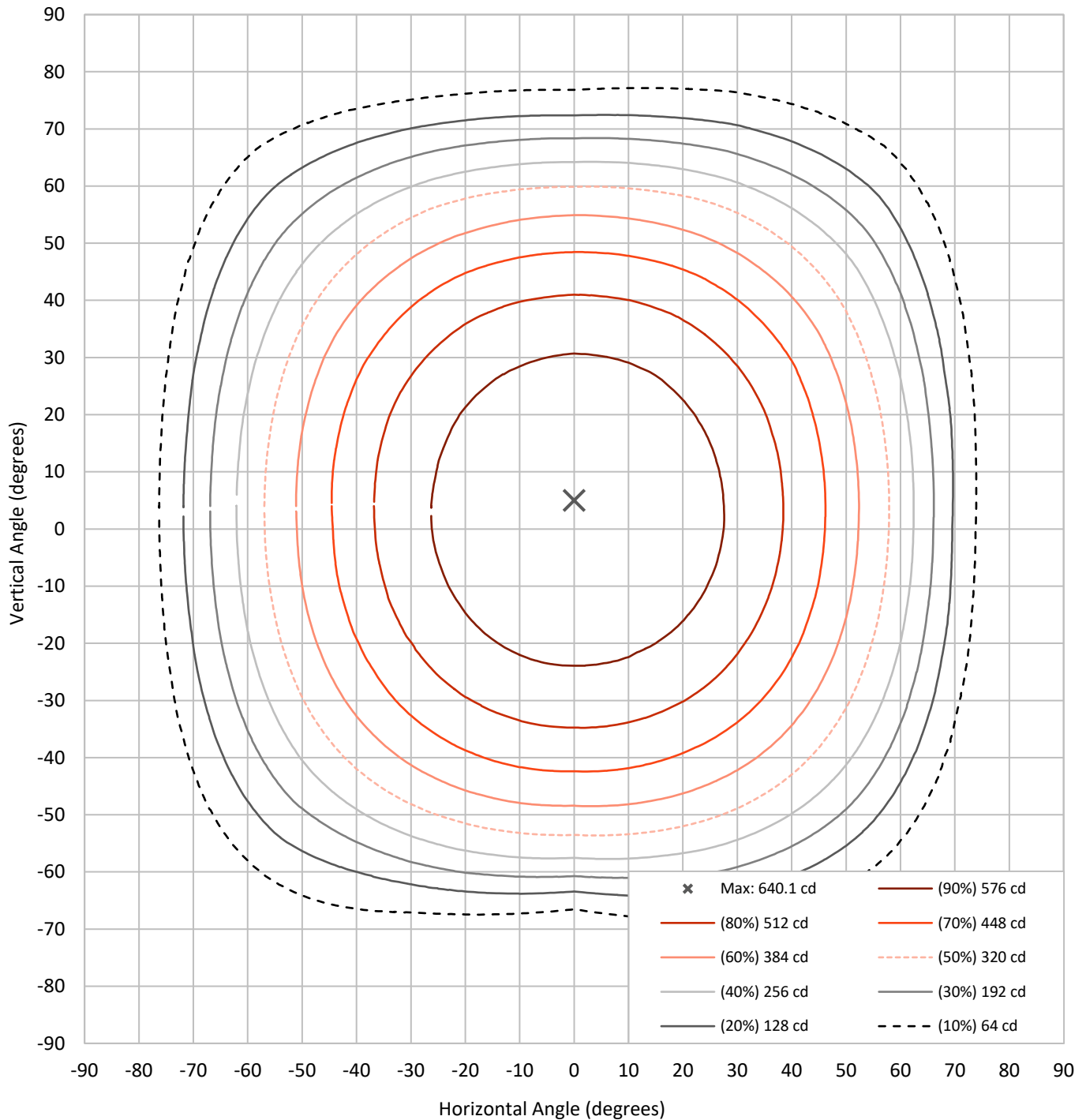
Summary

| | | | |
|-----------------------------------|---|----------------------|-------------------|
| Lumens per Lamp: | N/A | NEMA Type: | 7H x 7V |
| Luminaire Lumens: | 1777.1 lumens | Max Intensity: | 640.1 candela |
| Efficiency: | N/A | Max Intensity Angle: | 0°H x 5°V |
| Efficacy: | 125.1 lumens/watt | | |
| Luminous Opening: | Rectangular w/ Sides (W: 0.25' x L: 0.43' x H: 0.12') | | |
| Beam Angle (50%): | 114.9°H x 113.4°V | Field Angle (10%): | 150.2°H x 143.3°V |
| Beam Lumens: | 1423.7 lumens | Field Lumens: | 1750.5 lumens |
| Beam Efficiency: | 80.1% | Field Efficiency: | 98.5% |
| Input Watts (W): | 14.2 | | |
| Input Voltage (V): | 120 | | |
| Input Current (Ain): | NR | | |
| Voltage Rise (V): | NR | | |
| Power Factor: | NR | | |
| Total Harmonic Distortion (THDi): | NR | | |
| Frequency (hertz): | 60 | | |
| Stabilization Time: | NR | | |
| Operation Time: | NR | | |
| Ambient Temperature (°C): | NR | | |
| Test Distance: | 25 FT | | |



REPORT NUMBER: P670543 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: ARFL15DBZ-15W-4000K

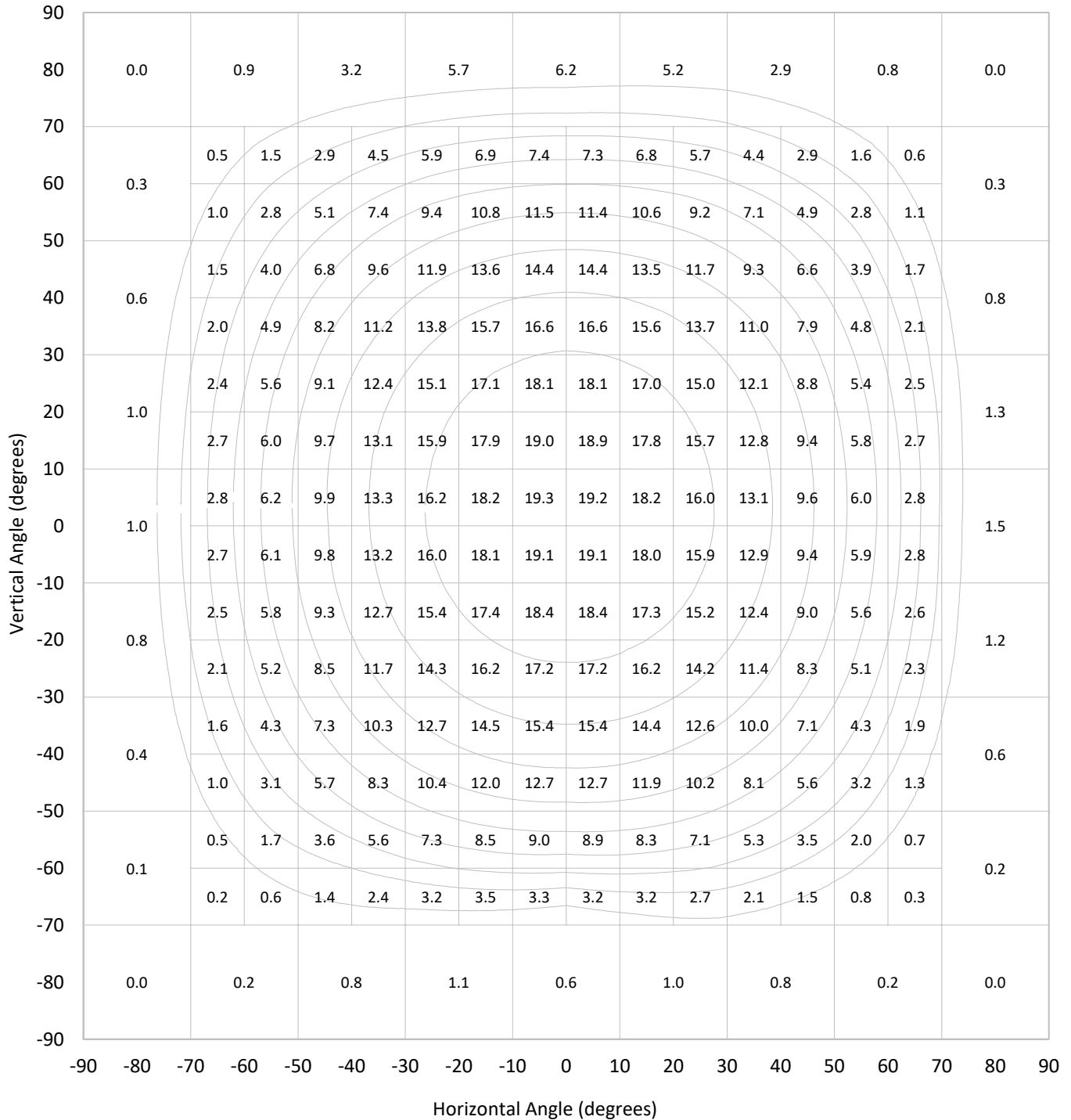
Iso-Candela Plot





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Lumen Table



Classified

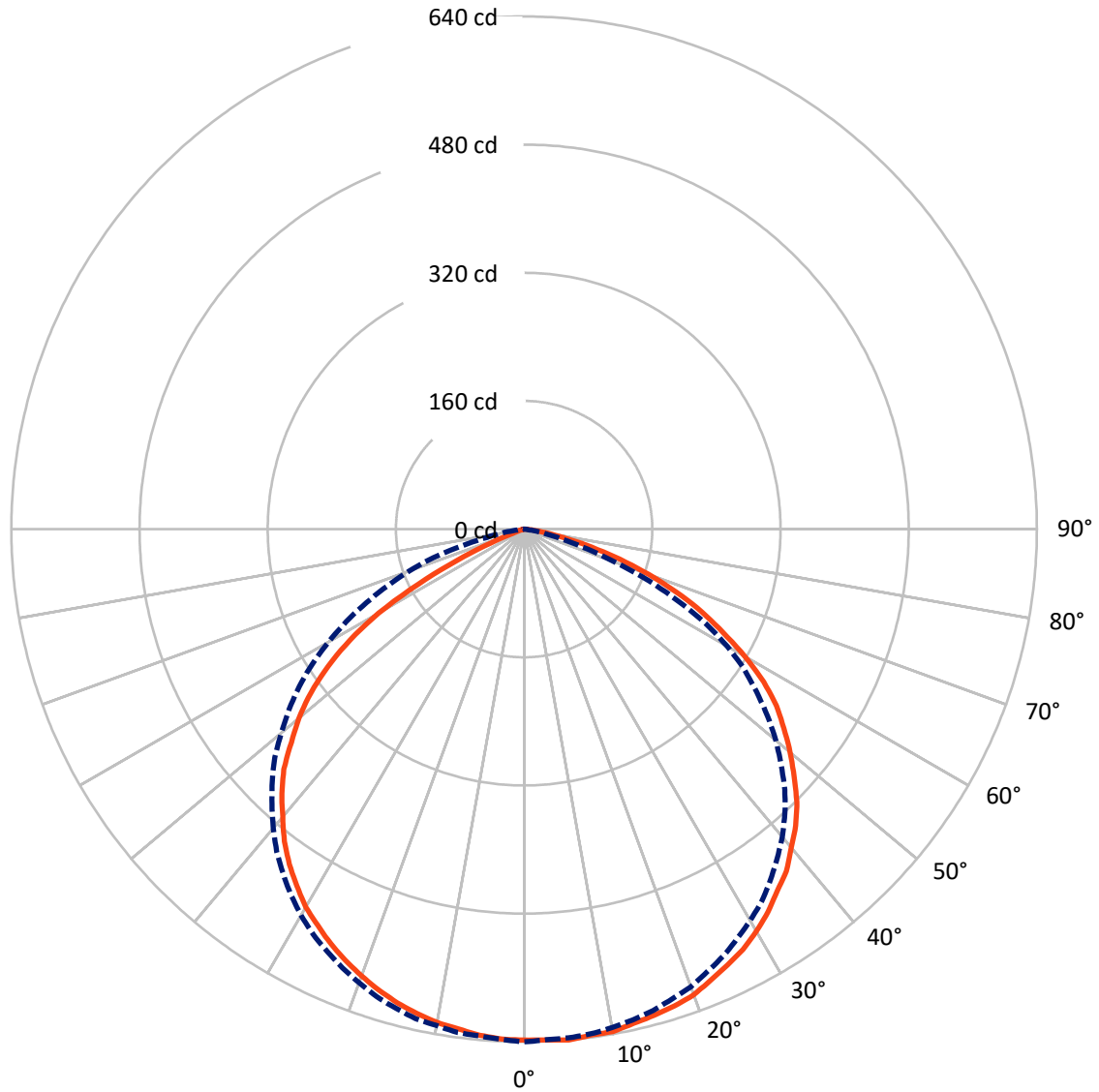
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Scaled Data Report



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CATALOG NUMBER: ARFL15DBZ-15W-4000K

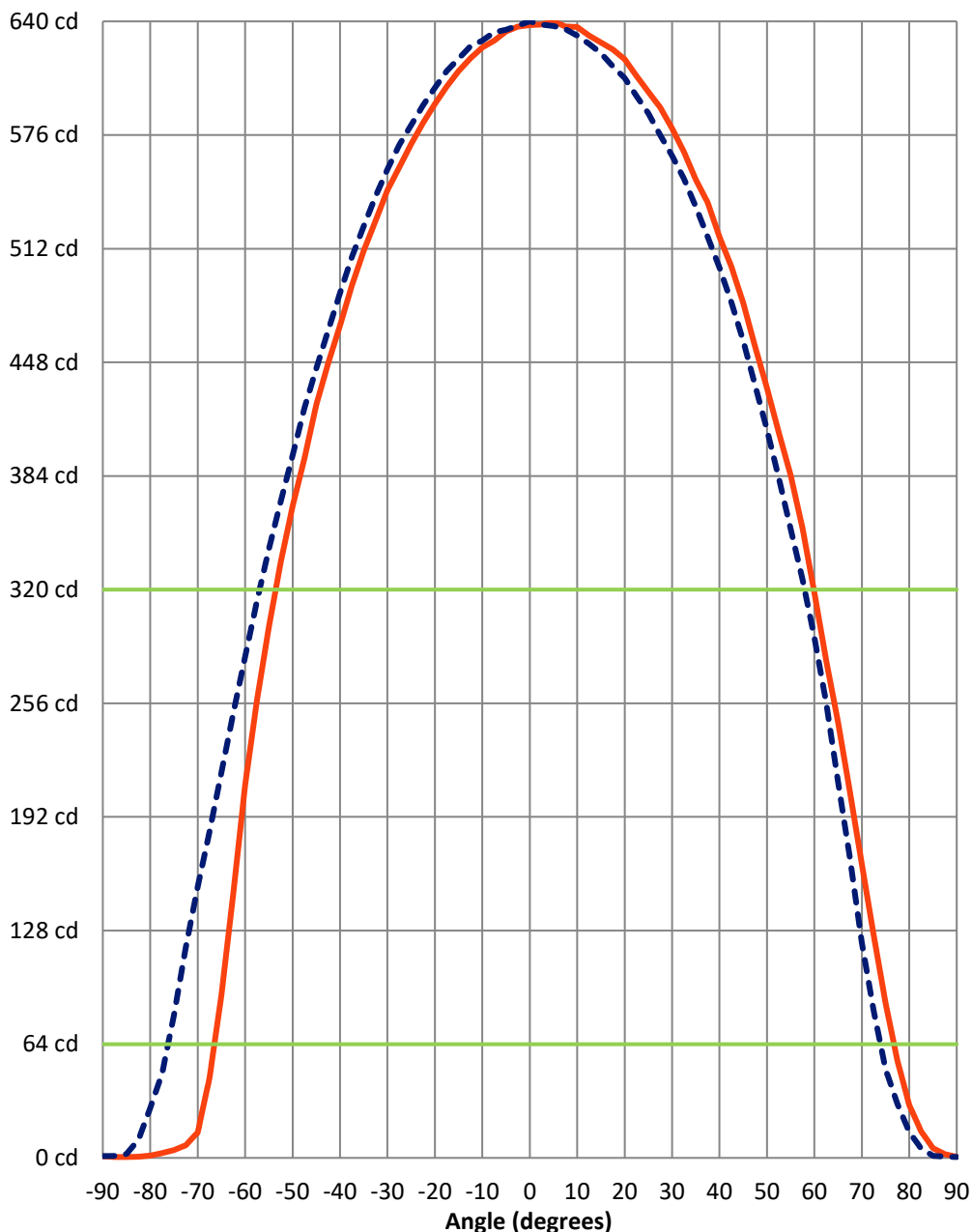
Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 5-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 114.9°
 V Angle: 113.4°
 Lumens: 1423.7
 Efficiency: 80.1%

Field:
 H Angle: 150.2°
 V Angle: 143.3°
 Lumens: 1750.5
 Efficiency: 98.5%

Spill:
 Lumens: 26.6
 Efficiency: 1.5%

— Vertical Distribution through 0-Deg
 - - Horizontal Distribution through 5-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

| | -90° | -87.5° | -85° | -82.5° | -80° | -77.5° | -75° | -72.5° | -70° | -67.5° | -65° |
|--------|------|--------|------|--------|------|--------|------|--------|-------|--------|-------|
| 90° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.9 | 0.9 | 0.9 | 0.9 |
| 87.5° | 1.0 | 1.0 | 1.1 | 1.1 | 1.2 | 1.2 | 1.3 | 1.3 | 1.4 | 1.5 | 1.5 |
| 85° | 1.0 | 1.0 | 1.1 | 1.2 | 1.2 | 1.3 | 1.4 | 1.6 | 1.7 | 1.9 | 2.1 |
| 82.5° | 1.0 | 1.1 | 1.1 | 1.2 | 1.3 | 1.5 | 1.6 | 1.9 | 2.2 | 2.5 | 3.0 |
| 80° | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.6 | 1.9 | 2.2 | 2.9 | 3.7 | 4.9 |
| 77.5° | 1.0 | 1.1 | 1.2 | 1.3 | 1.5 | 1.8 | 2.3 | 3.0 | 4.3 | 6.2 | 8.2 |
| 75° | 1.0 | 1.1 | 1.2 | 1.4 | 1.6 | 2.1 | 2.9 | 4.5 | 6.5 | 8.8 | 11.9 |
| 72.5° | 1.0 | 1.1 | 1.2 | 1.4 | 1.7 | 2.5 | 4.1 | 6.2 | 8.7 | 12.8 | 17.9 |
| 70° | 1.0 | 1.1 | 1.2 | 1.5 | 2.0 | 3.2 | 5.4 | 7.9 | 12.4 | 18.4 | 24.6 |
| 67.5° | 1.0 | 1.1 | 1.3 | 1.5 | 2.3 | 4.2 | 6.7 | 11.0 | 17.3 | 24.1 | 31.2 |
| 65° | 1.0 | 1.1 | 1.3 | 1.7 | 2.8 | 5.1 | 8.6 | 14.8 | 22.4 | 30.0 | 39.4 |
| 62.5° | 1.0 | 1.1 | 1.3 | 1.8 | 3.4 | 6.1 | 11.2 | 19.4 | 27.0 | 37.3 | 49.2 |
| 60° | 1.0 | 1.1 | 1.3 | 2.0 | 4.0 | 7.5 | 14.6 | 23.1 | 33.3 | 45.4 | 59.9 |
| 57.5° | 1.0 | 1.1 | 1.3 | 2.1 | 4.7 | 9.4 | 18.3 | 27.5 | 39.9 | 54.1 | 71.6 |
| 55° | 1.0 | 1.2 | 1.4 | 2.5 | 5.3 | 11.5 | 21.2 | 32.9 | 46.7 | 63.5 | 84.2 |
| 52.5° | 1.0 | 1.2 | 1.4 | 2.9 | 6.0 | 14.4 | 24.2 | 38.2 | 53.7 | 73.8 | 95.5 |
| 50° | 1.0 | 1.2 | 1.5 | 3.2 | 7.3 | 17.1 | 28.6 | 43.5 | 61.3 | 84.1 | 106.9 |
| 47.5° | 1.0 | 1.2 | 1.5 | 3.5 | 8.5 | 19.2 | 32.9 | 48.8 | 69.4 | 93.8 | 118.3 |
| 45° | 1.0 | 1.2 | 1.6 | 3.8 | 9.8 | 21.2 | 36.8 | 54.2 | 77.9 | 103.2 | 129.2 |
| 42.5° | 1.0 | 1.2 | 1.6 | 4.1 | 11.7 | 23.7 | 40.5 | 59.6 | 85.9 | 112.7 | 139.1 |
| 40° | 1.0 | 1.2 | 1.7 | 4.4 | 13.5 | 26.9 | 44.2 | 65.7 | 93.5 | 122.2 | 147.7 |
| 37.5° | 1.0 | 1.2 | 1.7 | 4.7 | 15.2 | 29.9 | 47.6 | 71.9 | 100.6 | 130.5 | 156.8 |
| 35° | 1.0 | 1.2 | 1.8 | 5.2 | 16.6 | 32.6 | 51.1 | 77.9 | 107.7 | 138.0 | 165.3 |
| 32.5° | 1.0 | 1.2 | 1.9 | 5.8 | 17.7 | 34.9 | 54.4 | 83.6 | 115.1 | 144.4 | 172.7 |
| 30° | 1.0 | 1.2 | 2.0 | 6.4 | 18.7 | 37.0 | 57.5 | 88.8 | 121.6 | 150.9 | 179.2 |
| 27.5° | 1.0 | 1.1 | 2.1 | 6.8 | 19.6 | 38.9 | 61.2 | 93.3 | 127.3 | 157.2 | 185.1 |
| 25° | 1.0 | 1.1 | 2.2 | 7.2 | 20.7 | 40.7 | 64.7 | 97.4 | 132.4 | 162.6 | 191.5 |
| 22.5° | 1.0 | 1.1 | 2.2 | 7.6 | 22.2 | 42.3 | 67.8 | 101.4 | 136.4 | 167.2 | 197.3 |
| 20° | 1.0 | 1.1 | 2.3 | 8.1 | 23.6 | 43.6 | 70.6 | 105.6 | 139.9 | 171.3 | 202.2 |
| 17.5° | 1.0 | 1.1 | 2.3 | 8.6 | 24.8 | 44.7 | 73.3 | 109.3 | 143.1 | 174.5 | 206.4 |
| 15° | 1.0 | 1.1 | 2.3 | 9.1 | 25.8 | 45.7 | 75.6 | 112.5 | 146.1 | 177.2 | 209.9 |
| 12.5° | 1.0 | 1.1 | 2.3 | 9.5 | 26.6 | 46.5 | 77.4 | 115.0 | 148.5 | 179.3 | 212.7 |
| 10° | 1.0 | 1.1 | 2.3 | 9.8 | 27.3 | 47.1 | 78.9 | 116.7 | 150.4 | 181.3 | 214.8 |
| 7.5° | 1.0 | 1.1 | 2.3 | 10.0 | 27.8 | 47.4 | 79.9 | 118.0 | 151.8 | 182.9 | 216.3 |
| 5° | 1.0 | 1.1 | 2.3 | 10.2 | 28.1 | 47.6 | 80.5 | 118.7 | 152.6 | 183.8 | 217.1 |
| 2.5° | 1.0 | 1.1 | 2.2 | 10.2 | 28.3 | 47.5 | 80.6 | 119.0 | 152.9 | 184.1 | 217.3 |
| 0° | 1.0 | 1.1 | 2.2 | 10.1 | 28.2 | 47.2 | 80.3 | 118.7 | 152.6 | 183.7 | 216.8 |
| -2.5° | 1.0 | 1.1 | 2.2 | 10.0 | 27.9 | 46.7 | 79.5 | 117.7 | 151.5 | 182.6 | 215.7 |
| -5° | 1.0 | 1.1 | 2.2 | 9.8 | 27.4 | 46.1 | 78.3 | 116.3 | 149.9 | 180.9 | 213.9 |
| -7.5° | 1.0 | 1.1 | 2.2 | 9.5 | 26.7 | 45.3 | 76.6 | 114.3 | 147.7 | 178.5 | 211.5 |
| -10° | 1.0 | 1.1 | 2.1 | 9.1 | 25.9 | 44.2 | 74.5 | 111.8 | 145.0 | 175.5 | 208.4 |
| -12.5° | 1.0 | 1.1 | 2.1 | 8.7 | 24.8 | 43.0 | 72.0 | 108.8 | 141.7 | 172.1 | 204.7 |
| -15° | 1.0 | 1.1 | 2.1 | 8.1 | 23.6 | 41.6 | 69.1 | 105.0 | 137.9 | 168.5 | 200.3 |
| -17.5° | 1.0 | 1.1 | 2.0 | 7.5 | 22.3 | 40.1 | 65.7 | 100.6 | 133.5 | 164.3 | 195.3 |
| -20° | 1.0 | 1.1 | 2.0 | 6.8 | 20.8 | 38.5 | 62.0 | 95.6 | 129.1 | 159.6 | 189.5 |

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CANDELA DISTRIBUTION (continued):

| | -90° | -87.5° | -85° | -82.5° | -80° | -77.5° | -75° | -72.5° | -70° | -67.5° | -65° |
|--------|------|--------|------|--------|------|--------|------|--------|-------|--------|-------|
| -22.5° | 1.0 | 1.1 | 1.9 | 6.3 | 19.1 | 36.8 | 58.3 | 90.1 | 124.3 | 154.1 | 183.2 |
| -25° | 1.0 | 1.1 | 1.8 | 5.8 | 17.4 | 35.0 | 54.5 | 84.9 | 119.2 | 147.8 | 175.8 |
| -27.5° | 1.0 | 1.1 | 1.8 | 5.4 | 16.1 | 33.0 | 50.5 | 79.8 | 112.6 | 140.9 | 167.9 |
| -30° | 1.0 | 1.1 | 1.7 | 4.9 | 15.0 | 30.8 | 46.4 | 74.3 | 105.4 | 133.2 | 160.4 |
| -32.5° | 1.0 | 1.1 | 1.6 | 4.3 | 13.9 | 28.6 | 43.2 | 67.9 | 97.4 | 125.3 | 152.2 |
| -35° | 1.0 | 1.1 | 1.5 | 3.8 | 12.7 | 26.2 | 39.9 | 61.0 | 88.5 | 117.6 | 142.9 |
| -37.5° | 1.0 | 1.1 | 1.4 | 3.3 | 11.3 | 23.5 | 36.6 | 54.3 | 80.0 | 108.7 | 132.8 |
| -40° | 1.0 | 1.1 | 1.4 | 3.1 | 9.7 | 20.3 | 33.5 | 48.2 | 72.1 | 98.5 | 122.3 |
| -42.5° | 1.0 | 1.1 | 1.3 | 2.8 | 8.0 | 17.1 | 30.2 | 42.6 | 63.3 | 87.3 | 112.6 |
| -45° | 1.0 | 1.1 | 1.3 | 2.5 | 6.3 | 14.5 | 26.8 | 37.9 | 54.0 | 76.4 | 100.7 |
| -47.5° | 1.0 | 1.1 | 1.3 | 2.3 | 5.3 | 12.7 | 23.2 | 33.6 | 46.4 | 66.3 | 87.7 |
| -50° | 1.0 | 1.1 | 1.2 | 2.1 | 4.4 | 10.8 | 19.1 | 29.5 | 39.6 | 55.1 | 74.6 |
| -52.5° | 1.0 | 1.1 | 1.2 | 1.9 | 3.5 | 8.6 | 14.9 | 25.1 | 33.8 | 45.5 | 62.6 |
| -55° | 1.0 | 1.1 | 1.1 | 1.7 | 3.0 | 6.4 | 12.3 | 20.6 | 29.0 | 37.5 | 49.6 |
| -57.5° | 1.0 | 1.1 | 1.1 | 1.5 | 2.6 | 4.9 | 10.0 | 15.7 | 23.9 | 31.0 | 39.7 |
| -60° | 1.0 | 1.1 | 1.1 | 1.4 | 2.2 | 3.7 | 7.4 | 11.9 | 18.6 | 25.6 | 31.8 |
| -62.5° | 1.0 | 1.1 | 1.1 | 1.3 | 1.9 | 2.9 | 5.1 | 9.2 | 13.1 | 19.5 | 25.5 |
| -65° | 1.0 | 1.1 | 1.1 | 1.2 | 1.7 | 2.4 | 3.8 | 6.3 | 9.7 | 13.7 | 18.9 |
| -67.5° | 1.0 | 1.1 | 1.1 | 1.2 | 1.5 | 2.0 | 2.8 | 4.3 | 6.7 | 9.4 | 12.7 |
| -70° | 1.0 | 1.1 | 1.1 | 1.1 | 1.3 | 1.7 | 2.3 | 3.0 | 4.3 | 6.2 | 8.2 |
| -72.5° | 1.0 | 1.1 | 1.1 | 1.1 | 1.2 | 1.5 | 1.9 | 2.4 | 2.9 | 3.9 | 5.1 |
| -75° | 1.0 | 1.1 | 1.1 | 1.1 | 1.2 | 1.3 | 1.5 | 1.9 | 2.3 | 2.7 | 3.2 |
| -77.5° | 1.0 | 1.0 | 1.1 | 1.1 | 1.1 | 1.2 | 1.3 | 1.5 | 1.8 | 2.1 | 2.4 |
| -80° | 1.0 | 1.0 | 1.1 | 1.1 | 1.1 | 1.2 | 1.2 | 1.3 | 1.4 | 1.6 | 1.8 |
| -82.5° | 1.0 | 1.0 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.2 | 1.2 | 1.3 | 1.4 |
| -85° | 1.0 | 1.0 | 1.0 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.2 | 1.2 |
| -87.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| -90° | 1.0 | 1.0 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.2 | 1.2 |



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 CATALOG NUMBER: ARFL15DBZ-15W-4000K

CANDELA DISTRIBUTION (continued):

| | -62.5° | -60° | -57.5° | -55° | -52.5° | -50° | -47.5° | -45° | -42.5° | -40° | -37.5° |
|--------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|
| 90° | 0.9 | 0.9 | 1.0 | 1.0 | 1.1 | 1.1 | 1.2 | 1.2 | 1.3 | 1.3 | 1.4 |
| 87.5° | 1.6 | 1.7 | 1.8 | 1.8 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 2.0 | 2.0 |
| 85° | 2.4 | 2.6 | 2.8 | 2.9 | 3.0 | 3.3 | 3.5 | 3.7 | 3.9 | 4.1 | 4.2 |
| 82.5° | 3.6 | 4.3 | 4.8 | 5.8 | 6.6 | 7.4 | 8.2 | 8.9 | 9.6 | 10.3 | 11.0 |
| 80° | 6.6 | 8.4 | 9.7 | 10.9 | 12.2 | 14.0 | 15.8 | 17.5 | 19.4 | 21.1 | 22.7 |
| 77.5° | 10.3 | 13.1 | 16.0 | 18.7 | 21.6 | 24.3 | 26.8 | 29.1 | 31.4 | 33.7 | 35.7 |
| 75° | 16.0 | 20.8 | 24.9 | 28.3 | 31.6 | 35.0 | 38.4 | 42.8 | 46.7 | 50.7 | 54.3 |
| 72.5° | 23.6 | 28.9 | 33.8 | 38.2 | 44.1 | 49.9 | 55.9 | 61.7 | 67.3 | 73.0 | 78.4 |
| 70° | 30.7 | 37.4 | 45.4 | 53.2 | 61.0 | 69.3 | 77.4 | 85.3 | 92.7 | 100.2 | 107.4 |
| 67.5° | 39.4 | 49.5 | 60.8 | 71.3 | 81.6 | 91.4 | 100.3 | 109.9 | 119.3 | 128.9 | 137.7 |
| 65° | 50.7 | 63.8 | 79.0 | 91.3 | 101.5 | 112.9 | 124.0 | 134.9 | 145.4 | 155.6 | 166.1 |
| 62.5° | 63.4 | 79.8 | 96.3 | 109.1 | 121.9 | 134.2 | 146.3 | 158.1 | 170.6 | 181.9 | 192.6 |
| 60° | 77.3 | 95.1 | 112.1 | 127.4 | 140.9 | 154.1 | 168.1 | 181.3 | 193.9 | 206.6 | 219.0 |
| 57.5° | 91.2 | 109.7 | 127.9 | 144.4 | 158.7 | 174.4 | 188.7 | 203.0 | 217.5 | 231.6 | 245.5 |
| 55° | 104.1 | 124.2 | 142.9 | 160.3 | 177.2 | 193.0 | 209.0 | 225.3 | 240.7 | 256.8 | 272.8 |
| 52.5° | 117.2 | 138.0 | 156.8 | 176.5 | 194.2 | 211.7 | 229.5 | 246.7 | 264.3 | 282.5 | 298.9 |
| 50° | 129.9 | 150.5 | 171.6 | 191.3 | 211.1 | 230.4 | 249.2 | 268.1 | 287.7 | 304.9 | 320.6 |
| 47.5° | 141.6 | 163.5 | 184.8 | 206.0 | 228.0 | 248.2 | 268.4 | 289.1 | 307.8 | 324.6 | 340.4 |
| 45° | 152.1 | 175.6 | 197.7 | 221.2 | 243.3 | 265.1 | 287.2 | 307.6 | 325.7 | 342.9 | 360.3 |
| 42.5° | 163.5 | 186.6 | 210.8 | 234.4 | 258.2 | 282.2 | 304.0 | 323.8 | 342.6 | 361.4 | 378.4 |
| 40° | 173.4 | 197.7 | 223.2 | 248.3 | 273.3 | 296.8 | 318.6 | 339.4 | 359.7 | 378.4 | 395.9 |
| 37.5° | 182.4 | 208.7 | 234.6 | 260.4 | 286.3 | 310.1 | 333.2 | 355.1 | 375.2 | 394.5 | 411.6 |
| 35° | 191.1 | 218.9 | 246.1 | 273.3 | 298.8 | 323.1 | 346.3 | 368.9 | 390.0 | 408.6 | 425.6 |
| 32.5° | 200.0 | 227.9 | 255.8 | 283.7 | 309.4 | 334.4 | 358.6 | 381.7 | 403.1 | 420.8 | 438.5 |
| 30° | 208.2 | 237.2 | 266.1 | 293.7 | 320.2 | 345.3 | 369.7 | 393.1 | 413.2 | 432.8 | 450.8 |
| 27.5° | 215.6 | 245.4 | 274.8 | 302.5 | 329.3 | 355.1 | 379.7 | 402.5 | 423.7 | 443.2 | 462.1 |
| 25° | 222.0 | 252.2 | 282.3 | 310.6 | 337.6 | 363.8 | 388.6 | 410.4 | 432.1 | 452.7 | 470.8 |
| 22.5° | 228.1 | 259.2 | 289.2 | 318.1 | 345.1 | 371.4 | 395.8 | 418.9 | 440.5 | 460.7 | 479.3 |
| 20° | 234.0 | 265.5 | 295.1 | 324.1 | 351.8 | 377.8 | 401.9 | 425.5 | 447.5 | 467.0 | 485.9 |
| 17.5° | 238.9 | 270.2 | 300.3 | 329.4 | 357.3 | 383.4 | 407.3 | 431.4 | 453.0 | 473.2 | 492.7 |
| 15° | 242.4 | 274.2 | 304.8 | 333.7 | 361.8 | 387.7 | 412.8 | 436.6 | 457.4 | 477.1 | 497.6 |
| 12.5° | 245.3 | 277.4 | 308.4 | 337.1 | 365.1 | 390.9 | 416.7 | 440.3 | 461.0 | 481.2 | 501.4 |
| 10° | 247.5 | 279.8 | 311.1 | 339.9 | 367.4 | 393.3 | 419.4 | 442.9 | 463.9 | 485.1 | 504.3 |
| 7.5° | 249.3 | 281.5 | 312.8 | 341.8 | 369.0 | 394.9 | 421.2 | 444.2 | 465.8 | 486.7 | 506.3 |
| 5° | 250.4 | 282.3 | 313.7 | 342.8 | 369.7 | 395.5 | 422.3 | 444.6 | 466.0 | 487.1 | 507.4 |
| 2.5° | 250.6 | 282.3 | 313.8 | 342.9 | 369.4 | 395.3 | 422.3 | 444.1 | 465.2 | 486.5 | 507.3 |
| 0° | 250.1 | 281.6 | 313.1 | 342.1 | 368.3 | 394.2 | 421.4 | 442.7 | 463.6 | 485.0 | 506.2 |
| -2.5° | 248.9 | 280.5 | 311.8 | 340.9 | 367.1 | 393.0 | 419.9 | 441.6 | 462.7 | 483.8 | 504.7 |
| -5° | 246.8 | 278.5 | 309.6 | 338.7 | 365.0 | 390.9 | 417.4 | 439.5 | 460.9 | 481.8 | 502.2 |
| -7.5° | 244.0 | 275.8 | 306.7 | 335.6 | 362.1 | 387.9 | 413.9 | 436.6 | 458.3 | 478.8 | 498.5 |
| -10° | 240.4 | 272.3 | 302.9 | 331.5 | 358.3 | 383.9 | 409.5 | 432.6 | 453.6 | 474.8 | 493.5 |
| -12.5° | 236.4 | 268.0 | 298.2 | 326.5 | 353.6 | 379.0 | 404.3 | 427.6 | 447.7 | 468.2 | 487.4 |
| -15° | 231.8 | 262.8 | 292.8 | 321.0 | 348.0 | 373.2 | 397.9 | 421.5 | 441.6 | 461.5 | 480.7 |
| -17.5° | 226.6 | 256.9 | 286.5 | 314.7 | 341.7 | 366.4 | 390.4 | 413.6 | 434.5 | 454.8 | 473.7 |
| -20° | 220.1 | 250.2 | 279.3 | 307.1 | 334.4 | 358.5 | 382.2 | 404.9 | 426.1 | 444.8 | 464.2 |



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 CATALOG NUMBER: ARFL15DBZ-15W-4000K

CANDELA DISTRIBUTION (continued):

| | -62.5° | -60° | -57.5° | -55° | -52.5° | -50° | -47.5° | -45° | -42.5° | -40° | -37.5° |
|--------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|
| -22.5° | 212.7 | 242.2 | 271.3 | 298.5 | 325.1 | 349.6 | 373.2 | 395.6 | 416.9 | 436.0 | 454.8 |
| -25° | 204.9 | 233.4 | 262.3 | 289.4 | 315.4 | 340.2 | 363.2 | 385.1 | 405.3 | 424.7 | 442.0 |
| -27.5° | 196.8 | 224.8 | 252.6 | 279.5 | 304.7 | 329.9 | 352.0 | 373.7 | 393.8 | 413.0 | 431.0 |
| -30° | 187.8 | 215.0 | 241.9 | 268.5 | 292.9 | 317.1 | 339.7 | 361.2 | 381.3 | 399.3 | 417.6 |
| -32.5° | 178.2 | 204.3 | 230.0 | 256.1 | 280.8 | 304.1 | 327.3 | 347.3 | 367.4 | 385.8 | 402.6 |
| -35° | 167.6 | 193.4 | 218.4 | 243.3 | 267.9 | 289.7 | 312.0 | 333.2 | 352.1 | 370.3 | 387.4 |
| -37.5° | 157.2 | 181.6 | 205.6 | 228.9 | 252.8 | 275.4 | 295.9 | 316.8 | 335.3 | 353.3 | 370.2 |
| -40° | 146.3 | 169.1 | 192.3 | 214.8 | 237.3 | 259.5 | 279.5 | 299.0 | 318.4 | 334.8 | 351.3 |
| -42.5° | 134.2 | 156.2 | 178.3 | 199.8 | 220.6 | 242.0 | 262.3 | 280.0 | 298.7 | 316.4 | 331.5 |
| -45° | 121.3 | 143.1 | 163.5 | 184.3 | 204.1 | 222.9 | 242.0 | 260.9 | 277.4 | 294.8 | 310.9 |
| -47.5° | 109.7 | 128.7 | 148.6 | 167.9 | 187.0 | 203.5 | 220.5 | 238.5 | 255.7 | 271.1 | 287.1 |
| -50° | 95.8 | 114.1 | 132.7 | 151.0 | 168.3 | 183.1 | 198.2 | 214.2 | 231.2 | 246.6 | 261.1 |
| -52.5° | 80.6 | 100.1 | 115.9 | 133.5 | 148.4 | 161.5 | 175.2 | 189.2 | 203.9 | 219.7 | 233.7 |
| -55° | 66.4 | 83.4 | 101.0 | 114.9 | 128.0 | 139.8 | 151.2 | 163.4 | 175.9 | 189.0 | 202.8 |
| -57.5° | 52.2 | 67.2 | 82.6 | 97.8 | 107.1 | 117.8 | 127.9 | 137.5 | 147.4 | 158.3 | 169.3 |
| -60° | 40.2 | 51.6 | 64.8 | 77.5 | 88.7 | 96.6 | 104.6 | 112.6 | 120.4 | 127.9 | 135.9 |
| -62.5° | 31.1 | 38.3 | 47.8 | 58.7 | 68.2 | 77.0 | 84.2 | 88.8 | 94.7 | 100.2 | 105.7 |
| -65° | 24.0 | 28.6 | 34.4 | 40.9 | 49.6 | 56.9 | 63.4 | 69.0 | 73.2 | 75.5 | 78.6 |
| -67.5° | 16.8 | 21.3 | 24.7 | 29.0 | 33.7 | 38.9 | 44.6 | 49.0 | 52.7 | 55.6 | 57.7 |
| -70° | 10.4 | 13.5 | 17.0 | 20.3 | 22.8 | 25.9 | 28.9 | 31.7 | 35.2 | 37.6 | 39.0 |
| -72.5° | 6.3 | 7.9 | 9.8 | 12.0 | 14.7 | 16.9 | 18.5 | 20.2 | 21.7 | 23.1 | 24.1 |
| -75° | 3.8 | 4.5 | 5.2 | 6.6 | 7.8 | 9.1 | 10.2 | 11.6 | 12.6 | 13.3 | 13.8 |
| -77.5° | 2.6 | 2.9 | 3.2 | 3.6 | 4.2 | 4.6 | 5.2 | 5.7 | 6.1 | 6.3 | 6.3 |
| -80° | 2.0 | 2.2 | 2.3 | 2.5 | 2.6 | 2.8 | 2.9 | 3.1 | 3.3 | 3.3 | 3.4 |
| -82.5° | 1.6 | 1.7 | 1.8 | 1.9 | 2.0 | 2.0 | 2.1 | 2.1 | 2.2 | 2.2 | 2.2 |
| -85° | 1.2 | 1.3 | 1.4 | 1.4 | 1.5 | 1.6 | 1.6 | 1.7 | 1.7 | 1.7 | 1.7 |
| -87.5° | 1.0 | 1.0 | 1.1 | 1.2 | 1.2 | 1.3 | 1.4 | 1.4 | 1.5 | 1.5 | 1.6 |
| -90° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |



REPORT NUMBER: P670543 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-4000K

CANDELA DISTRIBUTION (continued):

| | -35° | -32.5° | -30° | -27.5° | -25° | -22.5° | -20° | -17.5° | -15° | -12.5° | -10° |
|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| 90° | 1.4 | 1.5 | 1.5 | 1.4 | 1.4 | 1.3 | 1.2 | 1.1 | 1.1 | 1.0 | 0.9 |
| 87.5° | 2.0 | 2.0 | 2.0 | 2.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 85° | 4.5 | 4.8 | 5.1 | 5.3 | 5.4 | 5.6 | 5.7 | 5.8 | 5.8 | 5.8 | 5.8 |
| 82.5° | 11.9 | 12.8 | 13.6 | 14.2 | 14.6 | 15.0 | 15.3 | 15.6 | 15.7 | 15.8 | 15.8 |
| 80° | 24.1 | 25.5 | 26.7 | 27.6 | 28.4 | 29.0 | 29.6 | 30.1 | 30.4 | 30.6 | 30.7 |
| 77.5° | 38.1 | 40.4 | 42.4 | 44.3 | 46.1 | 47.8 | 49.3 | 50.6 | 51.8 | 52.9 | 53.8 |
| 75° | 57.6 | 60.7 | 63.2 | 66.8 | 70.4 | 73.6 | 76.7 | 79.7 | 82.2 | 84.2 | 85.7 |
| 72.5° | 83.9 | 89.4 | 94.7 | 99.5 | 104.1 | 108.6 | 112.9 | 116.6 | 119.7 | 122.1 | 123.8 |
| 70° | 114.8 | 122.4 | 129.5 | 135.7 | 141.3 | 146.3 | 150.9 | 154.9 | 158.3 | 161.0 | 163.1 |
| 67.5° | 146.2 | 154.4 | 162.5 | 170.1 | 176.2 | 181.6 | 186.5 | 190.9 | 194.7 | 198.1 | 201.0 |
| 65° | 175.9 | 184.8 | 193.2 | 201.1 | 208.5 | 215.4 | 221.2 | 226.5 | 231.2 | 235.4 | 238.9 |
| 62.5° | 203.1 | 213.7 | 223.3 | 232.5 | 241.2 | 249.1 | 256.0 | 262.1 | 267.5 | 272.0 | 275.5 |
| 60° | 230.9 | 242.7 | 254.4 | 266.0 | 276.4 | 285.1 | 292.7 | 298.8 | 304.2 | 308.5 | 312.0 |
| 57.5° | 259.5 | 273.5 | 287.4 | 299.8 | 310.0 | 317.3 | 324.3 | 331.0 | 336.5 | 341.3 | 345.6 |
| 55° | 289.1 | 303.0 | 315.1 | 326.7 | 336.8 | 344.2 | 351.5 | 358.5 | 365.3 | 371.0 | 375.1 |
| 52.5° | 313.4 | 327.0 | 338.9 | 349.5 | 360.4 | 369.8 | 377.0 | 384.2 | 390.5 | 395.6 | 399.9 |
| 50° | 335.1 | 348.0 | 361.6 | 372.6 | 383.5 | 393.2 | 401.2 | 408.3 | 414.8 | 420.4 | 424.9 |
| 47.5° | 355.7 | 369.5 | 382.8 | 395.0 | 405.8 | 416.0 | 424.5 | 431.8 | 438.2 | 443.7 | 448.4 |
| 45° | 375.3 | 390.1 | 403.4 | 415.9 | 427.0 | 437.6 | 446.7 | 454.2 | 460.4 | 466.1 | 470.9 |
| 42.5° | 394.5 | 409.1 | 422.3 | 435.2 | 447.3 | 457.7 | 466.5 | 474.1 | 481.1 | 487.1 | 492.1 |
| 40° | 411.8 | 426.1 | 440.4 | 453.2 | 464.8 | 475.3 | 485.1 | 493.7 | 500.5 | 506.0 | 510.3 |
| 37.5° | 427.3 | 442.6 | 456.6 | 469.5 | 481.2 | 493.0 | 502.6 | 510.4 | 516.4 | 522.8 | 527.9 |
| 35° | 441.9 | 457.4 | 471.5 | 484.8 | 497.1 | 507.9 | 517.2 | 525.8 | 532.6 | 538.6 | 543.4 |
| 32.5° | 455.5 | 470.9 | 485.5 | 498.7 | 510.6 | 521.6 | 531.2 | 539.9 | 546.8 | 552.3 | 557.0 |
| 30° | 467.8 | 483.4 | 497.9 | 511.2 | 523.1 | 534.1 | 543.7 | 552.1 | 559.0 | 563.8 | 569.0 |
| 27.5° | 478.5 | 494.5 | 509.3 | 522.4 | 534.5 | 545.0 | 554.0 | 561.8 | 570.0 | 575.8 | 580.3 |
| 25° | 488.5 | 505.0 | 519.3 | 532.5 | 543.7 | 554.0 | 563.4 | 572.3 | 579.1 | 586.7 | 591.3 |
| 22.5° | 497.4 | 513.6 | 528.1 | 540.3 | 551.8 | 562.8 | 572.2 | 581.2 | 588.4 | 596.3 | 600.0 |
| 20° | 504.7 | 521.1 | 535.2 | 547.2 | 559.8 | 570.3 | 580.3 | 588.4 | 596.1 | 603.2 | 607.2 |
| 17.5° | 510.6 | 527.0 | 540.3 | 554.6 | 566.4 | 576.6 | 585.6 | 594.4 | 603.0 | 608.5 | 614.7 |
| 15° | 515.8 | 531.4 | 545.5 | 559.6 | 570.7 | 580.9 | 590.8 | 600.2 | 607.5 | 614.1 | 619.4 |
| 12.5° | 519.9 | 534.9 | 550.6 | 563.9 | 575.3 | 584.9 | 595.2 | 604.2 | 612.3 | 618.9 | 624.1 |
| 10° | 522.1 | 537.5 | 553.7 | 566.6 | 577.3 | 589.1 | 598.9 | 608.0 | 615.6 | 622.2 | 627.4 |
| 7.5° | 523.6 | 540.1 | 555.7 | 569.1 | 579.6 | 591.8 | 601.2 | 610.8 | 618.9 | 623.8 | 629.4 |
| 5° | 524.7 | 541.6 | 556.8 | 570.5 | 581.7 | 592.8 | 602.7 | 612.1 | 619.1 | 626.0 | 629.3 |
| 2.5° | 524.9 | 541.8 | 556.8 | 569.9 | 582.8 | 592.9 | 602.9 | 612.3 | 619.3 | 625.4 | 630.6 |
| 0° | 523.9 | 540.9 | 555.8 | 568.7 | 582.5 | 591.9 | 602.0 | 611.1 | 618.9 | 624.8 | 630.8 |
| -2.5° | 522.2 | 539.1 | 553.7 | 567.4 | 580.5 | 590.3 | 599.8 | 608.9 | 616.2 | 622.1 | 627.3 |
| -5° | 519.3 | 536.1 | 550.8 | 565.2 | 577.0 | 587.9 | 597.1 | 605.6 | 612.0 | 619.1 | 623.1 |
| -7.5° | 515.1 | 532.1 | 547.5 | 561.2 | 572.4 | 584.0 | 593.3 | 601.8 | 607.5 | 614.0 | 619.9 |
| -10° | 510.5 | 527.6 | 542.5 | 555.8 | 567.8 | 579.0 | 587.8 | 594.8 | 602.1 | 608.3 | 614.8 |
| -12.5° | 506.1 | 521.7 | 535.8 | 547.4 | 561.7 | 572.6 | 581.9 | 590.7 | 597.3 | 602.8 | 607.7 |
| -15° | 499.6 | 514.1 | 528.8 | 542.9 | 554.4 | 566.0 | 575.5 | 584.1 | 591.3 | 596.6 | 600.4 |
| -17.5° | 490.8 | 506.3 | 521.8 | 533.1 | 544.2 | 557.1 | 567.2 | 575.6 | 583.5 | 589.5 | 594.3 |
| -20° | 481.3 | 498.5 | 511.2 | 525.5 | 537.1 | 546.8 | 557.5 | 566.4 | 573.4 | 579.9 | 585.8 |

Classified

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

Scaled Data Report



REPORT NUMBER: P670543 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: ARFL15DBZ-15W-4000K

CANDELA DISTRIBUTION (continued):

| | -35° | -32.5° | -30° | -27.5° | -25° | -22.5° | -20° | -17.5° | -15° | -12.5° | -10° |
|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| -22.5° | 471.8 | 487.2 | 502.1 | 514.7 | 527.0 | 538.1 | 546.7 | 555.8 | 562.9 | 568.8 | 573.9 |
| -25° | 460.6 | 476.1 | 491.4 | 503.6 | 515.3 | 526.7 | 536.0 | 543.7 | 552.9 | 556.9 | 562.1 |
| -27.5° | 447.7 | 464.2 | 478.0 | 492.2 | 502.8 | 512.8 | 523.3 | 531.6 | 539.0 | 544.6 | 550.9 |
| -30° | 434.3 | 450.2 | 465.0 | 477.3 | 489.8 | 499.2 | 508.4 | 516.1 | 525.0 | 530.7 | 535.7 |
| -32.5° | 419.6 | 434.5 | 449.3 | 462.8 | 474.0 | 484.7 | 493.5 | 501.2 | 508.0 | 513.8 | 519.1 |
| -35° | 403.2 | 418.8 | 432.2 | 444.9 | 457.4 | 468.6 | 476.7 | 485.1 | 491.6 | 496.9 | 502.1 |
| -37.5° | 386.1 | 400.7 | 414.9 | 427.2 | 437.5 | 448.9 | 458.7 | 467.3 | 472.7 | 478.7 | 483.5 |
| -40° | 366.9 | 381.5 | 395.2 | 407.5 | 419.7 | 428.3 | 436.8 | 445.6 | 452.8 | 458.7 | 463.4 |
| -42.5° | 346.2 | 360.2 | 373.4 | 386.3 | 397.3 | 407.1 | 416.9 | 423.8 | 430.1 | 435.7 | 440.5 |
| -45° | 325.3 | 337.7 | 350.1 | 362.0 | 372.8 | 383.6 | 392.4 | 399.6 | 405.8 | 411.7 | 416.3 |
| -47.5° | 301.9 | 315.4 | 326.5 | 336.8 | 346.8 | 356.4 | 365.4 | 373.2 | 379.9 | 385.1 | 389.1 |
| -50° | 275.5 | 289.3 | 301.4 | 312.2 | 321.1 | 329.3 | 337.1 | 344.6 | 351.1 | 356.6 | 360.8 |
| -52.5° | 247.0 | 259.2 | 272.0 | 283.4 | 293.2 | 301.6 | 309.0 | 315.4 | 321.2 | 325.9 | 329.7 |
| -55° | 217.0 | 228.3 | 239.1 | 249.1 | 259.1 | 268.9 | 276.3 | 282.7 | 287.9 | 292.2 | 295.5 |
| -57.5° | 180.9 | 192.7 | 204.7 | 214.5 | 222.6 | 230.0 | 237.1 | 243.4 | 249.0 | 253.6 | 256.9 |
| -60° | 144.9 | 153.7 | 163.0 | 172.2 | 180.8 | 188.3 | 194.9 | 199.5 | 203.5 | 207.0 | 209.7 |
| -62.5° | 111.0 | 115.9 | 122.2 | 128.5 | 134.6 | 140.2 | 145.3 | 149.4 | 152.7 | 154.9 | 156.0 |
| -65° | 81.6 | 84.2 | 87.1 | 89.7 | 92.9 | 95.5 | 98.6 | 100.8 | 102.1 | 102.8 | 102.6 |
| -67.5° | 58.5 | 58.3 | 58.5 | 58.9 | 60.2 | 61.0 | 61.3 | 61.6 | 61.1 | 59.8 | 58.2 |
| -70° | 39.7 | 39.9 | 39.4 | 38.9 | 38.8 | 38.2 | 37.0 | 35.4 | 33.9 | 31.7 | 29.0 |
| -72.5° | 25.0 | 25.4 | 25.0 | 24.6 | 24.4 | 24.0 | 23.4 | 22.3 | 20.9 | 19.1 | 17.2 |
| -75° | 14.2 | 14.3 | 14.1 | 14.2 | 14.4 | 14.3 | 13.9 | 13.4 | 12.6 | 11.6 | 10.4 |
| -77.5° | 6.4 | 6.4 | 6.2 | 6.3 | 6.7 | 6.9 | 6.9 | 6.7 | 6.4 | 6.0 | 5.5 |
| -80° | 3.4 | 3.3 | 3.1 | 3.0 | 2.9 | 2.8 | 2.7 | 2.6 | 2.4 | 2.3 | 2.1 |
| -82.5° | 2.3 | 2.3 | 2.3 | 2.2 | 2.1 | 1.9 | 1.8 | 1.7 | 1.6 | 1.4 | 1.3 |
| -85° | 1.7 | 1.7 | 1.7 | 1.6 | 1.5 | 1.4 | 1.3 | 1.2 | 1.1 | 1.0 | 0.9 |
| -87.5° | 1.6 | 1.7 | 1.7 | 1.6 | 1.5 | 1.4 | 1.3 | 1.2 | 1.1 | 1.0 | 0.9 |
| -90° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.9 | 0.9 |



REPORT NUMBER: P670543 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-4000K

CANDELA DISTRIBUTION (continued):

| | -7.5° | -5° | -2.5° | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 90° | 0.8 | 0.7 | 0.7 | 0.6 | 0.7 | 0.7 | 0.8 | 0.8 | 0.9 | 0.9 | 1.0 |
| 87.5° | 2.1 | 2.1 | 2.1 | 2.1 | 2.2 | 2.2 | 2.3 | 2.3 | 2.3 | 2.4 | 2.4 |
| 85° | 5.8 | 5.7 | 5.6 | 5.5 | 5.8 | 6.0 | 6.2 | 6.4 | 6.5 | 6.6 | 6.7 |
| 82.5° | 15.7 | 15.5 | 15.3 | 15.0 | 15.5 | 16.0 | 16.5 | 16.8 | 17.1 | 17.2 | 17.2 |
| 80° | 30.7 | 30.5 | 30.2 | 29.8 | 30.9 | 31.8 | 32.5 | 33.2 | 33.6 | 33.9 | 34.0 |
| 77.5° | 54.4 | 54.8 | 55.0 | 54.8 | 56.2 | 57.4 | 58.2 | 58.8 | 59.1 | 59.1 | 58.9 |
| 75° | 86.8 | 87.4 | 87.6 | 87.3 | 88.6 | 89.6 | 90.1 | 90.2 | 89.8 | 89.1 | 87.9 |
| 72.5° | 125.1 | 125.7 | 125.9 | 125.5 | 126.4 | 126.9 | 126.8 | 126.2 | 125.1 | 123.6 | 121.6 |
| 70° | 164.6 | 165.5 | 165.8 | 165.5 | 166.3 | 166.5 | 166.1 | 165.1 | 163.4 | 161.2 | 158.3 |
| 67.5° | 203.3 | 204.9 | 205.8 | 206.0 | 206.5 | 206.3 | 205.4 | 203.8 | 201.6 | 198.8 | 195.3 |
| 65° | 241.7 | 243.6 | 244.8 | 245.2 | 245.6 | 245.2 | 244.0 | 242.0 | 239.3 | 235.8 | 231.6 |
| 62.5° | 277.9 | 279.5 | 280.1 | 280.0 | 280.9 | 281.0 | 280.3 | 278.7 | 276.2 | 272.7 | 268.3 |
| 60° | 314.8 | 316.8 | 318.0 | 318.3 | 318.8 | 318.4 | 317.1 | 314.9 | 311.9 | 308.1 | 303.5 |
| 57.5° | 349.1 | 351.7 | 353.6 | 354.6 | 354.4 | 353.3 | 351.4 | 348.7 | 344.9 | 340.4 | 335.4 |
| 55° | 378.5 | 381.2 | 383.2 | 384.4 | 384.0 | 382.7 | 380.7 | 377.9 | 374.3 | 369.7 | 364.3 |
| 52.5° | 403.3 | 405.9 | 407.6 | 408.5 | 408.2 | 407.1 | 405.1 | 402.2 | 398.7 | 394.4 | 389.2 |
| 50° | 428.4 | 431.0 | 432.7 | 433.6 | 433.6 | 432.6 | 430.6 | 427.5 | 423.5 | 418.8 | 413.1 |
| 47.5° | 452.1 | 454.6 | 456.2 | 456.9 | 456.8 | 455.7 | 453.8 | 450.9 | 447.1 | 442.7 | 437.6 |
| 45° | 475.0 | 478.1 | 480.3 | 481.5 | 480.8 | 479.1 | 476.6 | 473.3 | 469.1 | 464.3 | 458.4 |
| 42.5° | 496.0 | 498.9 | 500.9 | 502.0 | 501.3 | 499.7 | 497.2 | 494.0 | 490.0 | 484.3 | 477.9 |
| 40° | 513.6 | 516.2 | 517.9 | 518.7 | 518.5 | 517.3 | 515.4 | 512.5 | 508.5 | 503.1 | 496.5 |
| 37.5° | 531.9 | 534.9 | 536.9 | 538.1 | 537.7 | 536.7 | 534.7 | 530.8 | 525.7 | 520.1 | 514.4 |
| 35° | 546.9 | 549.1 | 550.5 | 551.0 | 551.2 | 550.6 | 549.2 | 546.3 | 541.6 | 537.8 | 530.9 |
| 32.5° | 560.7 | 563.4 | 565.4 | 566.6 | 566.1 | 564.6 | 562.5 | 559.7 | 555.8 | 551.3 | 544.8 |
| 30° | 573.3 | 576.3 | 578.5 | 579.8 | 579.1 | 577.5 | 575.4 | 571.9 | 567.4 | 562.6 | 556.9 |
| 27.5° | 584.9 | 588.1 | 590.3 | 591.6 | 590.8 | 589.1 | 586.7 | 583.3 | 578.5 | 574.5 | 566.4 |
| 25° | 595.9 | 598.2 | 599.6 | 600.4 | 600.1 | 599.0 | 596.7 | 593.5 | 589.3 | 583.5 | 576.1 |
| 22.5° | 604.0 | 607.3 | 608.5 | 609.4 | 609.1 | 608.0 | 605.8 | 602.5 | 598.2 | 591.7 | 584.8 |
| 20° | 611.3 | 614.9 | 617.3 | 618.8 | 618.0 | 615.5 | 612.4 | 610.5 | 606.0 | 599.7 | 592.4 |
| 17.5° | 617.4 | 621.0 | 623.2 | 624.3 | 623.5 | 622.0 | 620.2 | 617.5 | 611.4 | 606.7 | 598.8 |
| 15° | 623.9 | 626.5 | 627.7 | 628.2 | 628.2 | 627.3 | 624.3 | 620.9 | 617.0 | 611.7 | 605.2 |
| 12.5° | 628.3 | 631.0 | 632.2 | 632.1 | 632.0 | 630.9 | 629.7 | 625.7 | 620.3 | 614.8 | 610.1 |
| 10° | 631.6 | 634.8 | 636.6 | 636.9 | 637.2 | 635.5 | 631.8 | 628.6 | 624.5 | 617.9 | 612.1 |
| 7.5° | 633.0 | 636.5 | 636.9 | 637.3 | 637.4 | 637.3 | 635.2 | 629.6 | 625.6 | 621.0 | 613.0 |
| 5° | 634.0 | 635.4 | 637.8 | 640.1 | 638.3 | 637.5 | 635.7 | 632.0 | 627.5 | 622.2 | 614.8 |
| 2.5° | 634.1 | 636.5 | 638.2 | 638.4 | 637.6 | 637.2 | 635.4 | 632.6 | 627.9 | 622.5 | 615.3 |
| 0° | 633.7 | 634.8 | 635.9 | 638.0 | 637.8 | 636.9 | 634.9 | 630.8 | 627.9 | 622.4 | 614.8 |
| -2.5° | 632.0 | 634.6 | 636.2 | 637.2 | 637.0 | 637.2 | 634.8 | 630.2 | 626.3 | 619.9 | 612.7 |
| -5° | 629.1 | 631.3 | 632.8 | 634.4 | 634.6 | 634.6 | 631.1 | 628.1 | 623.2 | 615.9 | 609.8 |
| -7.5° | 624.6 | 627.9 | 629.0 | 629.3 | 630.5 | 629.8 | 627.7 | 624.7 | 618.2 | 611.7 | 605.3 |
| -10° | 619.9 | 624.1 | 625.3 | 625.4 | 625.8 | 625.0 | 622.7 | 617.9 | 612.1 | 607.2 | 600.5 |
| -12.5° | 612.9 | 616.5 | 618.8 | 619.3 | 619.7 | 618.0 | 614.7 | 611.2 | 606.1 | 600.5 | 593.5 |
| -15° | 605.4 | 608.4 | 611.1 | 612.1 | 611.7 | 610.3 | 607.4 | 602.3 | 598.7 | 592.8 | 587.5 |
| -17.5° | 597.0 | 599.9 | 602.3 | 603.4 | 602.7 | 600.6 | 598.2 | 594.5 | 590.2 | 585.5 | 579.2 |
| -20° | 588.9 | 591.5 | 593.2 | 593.6 | 593.2 | 591.6 | 589.0 | 585.4 | 581.9 | 576.2 | 569.8 |



REPORT NUMBER: P670543 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-4000K

CANDELA DISTRIBUTION (continued):

| | -7.5° | -5° | -2.5° | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -22.5° | 578.4 | 581.4 | 582.8 | 582.9 | 582.8 | 581.6 | 579.9 | 576.1 | 570.1 | 565.5 | 559.2 |
| -25° | 566.4 | 569.0 | 570.5 | 571.0 | 570.9 | 569.5 | 566.8 | 563.7 | 558.9 | 554.4 | 548.5 |
| -27.5° | 553.8 | 555.9 | 557.5 | 558.0 | 557.9 | 556.7 | 554.7 | 551.9 | 547.5 | 542.1 | 535.1 |
| -30° | 539.9 | 542.6 | 544.3 | 545.0 | 544.9 | 543.7 | 541.4 | 537.7 | 533.1 | 527.6 | 520.8 |
| -32.5° | 523.6 | 526.3 | 527.6 | 527.9 | 528.0 | 527.1 | 524.9 | 521.4 | 517.2 | 511.7 | 504.9 |
| -35° | 505.8 | 508.5 | 510.2 | 510.9 | 510.9 | 509.7 | 507.3 | 504.0 | 499.9 | 495.0 | 488.6 |
| -37.5° | 487.3 | 489.7 | 491.0 | 491.3 | 491.6 | 490.8 | 488.8 | 485.5 | 481.3 | 476.5 | 468.7 |
| -40° | 466.1 | 468.0 | 468.9 | 468.8 | 469.5 | 469.0 | 467.1 | 463.9 | 460.1 | 455.2 | 448.8 |
| -42.5° | 444.0 | 446.3 | 447.5 | 447.5 | 447.9 | 447.2 | 445.4 | 442.6 | 438.8 | 433.5 | 427.2 |
| -45° | 419.7 | 422.3 | 423.8 | 424.1 | 424.3 | 423.2 | 421.0 | 418.0 | 414.2 | 409.8 | 404.3 |
| -47.5° | 392.0 | 393.7 | 394.3 | 394.0 | 395.0 | 395.0 | 393.9 | 391.7 | 388.3 | 384.0 | 378.5 |
| -50° | 364.0 | 366.0 | 367.0 | 366.9 | 367.8 | 367.5 | 366.1 | 363.6 | 360.0 | 355.5 | 349.9 |
| -52.5° | 332.7 | 334.7 | 335.6 | 335.5 | 336.4 | 336.2 | 335.0 | 332.8 | 329.7 | 325.8 | 320.5 |
| -55° | 298.0 | 299.4 | 299.7 | 298.9 | 300.4 | 300.8 | 300.0 | 298.3 | 295.7 | 292.1 | 287.6 |
| -57.5° | 258.8 | 259.6 | 259.3 | 257.8 | 260.0 | 261.1 | 261.0 | 259.9 | 257.6 | 254.2 | 249.9 |
| -60° | 211.5 | 212.3 | 211.8 | 209.9 | 212.8 | 214.2 | 214.5 | 213.6 | 211.9 | 209.6 | 206.7 |
| -62.5° | 156.1 | 154.9 | 152.5 | 148.9 | 153.8 | 157.4 | 160.0 | 161.5 | 162.1 | 161.9 | 160.9 |
| -65° | 101.4 | 99.2 | 95.9 | 91.7 | 97.7 | 102.8 | 106.8 | 109.9 | 112.1 | 113.4 | 114.4 |
| -67.5° | 56.0 | 53.1 | 49.5 | 45.2 | 51.6 | 57.3 | 62.2 | 66.3 | 69.9 | 73.2 | 75.8 |
| -70° | 25.9 | 22.3 | 18.5 | 14.4 | 20.3 | 26.0 | 31.3 | 36.0 | 40.3 | 43.8 | 46.5 |
| -72.5° | 14.9 | 12.5 | 9.9 | 7.2 | 10.9 | 14.4 | 17.8 | 20.8 | 23.5 | 25.8 | 27.7 |
| -75° | 9.0 | 7.6 | 6.0 | 4.4 | 6.4 | 8.3 | 10.1 | 11.7 | 13.1 | 14.3 | 15.2 |
| -77.5° | 4.9 | 4.2 | 3.5 | 2.7 | 3.6 | 4.4 | 5.2 | 5.8 | 6.4 | 6.8 | 7.2 |
| -80° | 1.9 | 1.7 | 1.5 | 1.3 | 1.6 | 1.9 | 2.2 | 2.4 | 2.6 | 2.8 | 3.0 |
| -82.5° | 1.1 | 1.0 | 0.8 | 0.7 | 0.8 | 1.0 | 1.2 | 1.3 | 1.5 | 1.7 | 1.8 |
| -85° | 0.8 | 0.7 | 0.6 | 0.5 | 0.6 | 0.7 | 0.8 | 1.0 | 1.1 | 1.2 | 1.3 |
| -87.5° | 0.8 | 0.7 | 0.6 | 0.5 | 0.6 | 0.7 | 0.7 | 0.8 | 0.9 | 1.0 | 1.0 |
| -90° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |



REPORT NUMBER: P670543 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-4000K

CANDELA DISTRIBUTION (continued):

| | 20° | 22.5° | 25° | 27.5° | 30° | 32.5° | 35° | 37.5° | 40° | 42.5° | 45° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 90° | 1.1 | 1.1 | 1.2 | 1.2 | 1.3 | 1.2 | 1.2 | 1.1 | 1.0 | 1.0 | 0.9 |
| 87.5° | 2.4 | 2.5 | 2.5 | 2.5 | 2.5 | 2.4 | 2.3 | 2.2 | 2.1 | 2.0 | 1.9 |
| 85° | 6.7 | 6.7 | 6.7 | 6.6 | 6.4 | 6.0 | 5.6 | 5.2 | 4.9 | 4.5 | 4.2 |
| 82.5° | 17.2 | 17.1 | 16.9 | 16.5 | 16.0 | 15.0 | 14.0 | 12.9 | 12.0 | 11.1 | 10.1 |
| 80° | 34.0 | 33.8 | 33.3 | 32.7 | 31.5 | 29.6 | 27.5 | 25.4 | 23.6 | 21.7 | 19.6 |
| 77.5° | 58.3 | 57.4 | 56.2 | 54.6 | 52.4 | 48.9 | 45.3 | 42.0 | 39.2 | 36.3 | 33.1 |
| 75° | 86.3 | 84.8 | 83.1 | 81.1 | 78.1 | 73.4 | 68.6 | 63.6 | 58.4 | 53.3 | 48.3 |
| 72.5° | 119.2 | 116.3 | 113.4 | 110.5 | 106.2 | 99.8 | 93.1 | 86.3 | 79.5 | 72.7 | 66.4 |
| 70° | 154.8 | 150.9 | 146.5 | 141.8 | 135.8 | 128.6 | 120.5 | 112.4 | 104.5 | 95.9 | 86.9 |
| 67.5° | 191.2 | 186.5 | 181.3 | 175.5 | 167.5 | 158.8 | 150.2 | 141.2 | 131.7 | 120.7 | 109.8 |
| 65° | 226.6 | 221.0 | 215.2 | 209.2 | 200.3 | 190.6 | 180.3 | 169.3 | 158.0 | 147.3 | 135.9 |
| 62.5° | 262.8 | 256.2 | 248.9 | 240.9 | 231.4 | 221.3 | 211.4 | 199.5 | 186.4 | 172.8 | 159.1 |
| 60° | 298.1 | 291.9 | 284.7 | 275.4 | 264.0 | 251.9 | 240.2 | 227.9 | 215.2 | 201.1 | 185.1 |
| 57.5° | 330.2 | 324.2 | 316.8 | 307.2 | 295.8 | 283.5 | 270.1 | 255.7 | 241.6 | 227.1 | 211.9 |
| 55° | 358.1 | 351.3 | 343.4 | 334.2 | 324.0 | 311.4 | 298.1 | 283.6 | 268.1 | 251.6 | 235.7 |
| 52.5° | 383.0 | 376.0 | 368.0 | 358.4 | 347.6 | 335.5 | 323.3 | 308.4 | 292.9 | 276.1 | 258.3 |
| 50° | 406.0 | 398.8 | 390.5 | 380.5 | 369.9 | 358.1 | 345.0 | 330.8 | 315.4 | 298.4 | 280.4 |
| 47.5° | 430.1 | 421.8 | 412.6 | 401.4 | 390.7 | 378.5 | 365.6 | 351.4 | 335.6 | 319.2 | 300.4 |
| 45° | 451.7 | 444.4 | 435.0 | 422.9 | 411.5 | 397.9 | 384.5 | 370.2 | 354.7 | 337.6 | 319.6 |
| 42.5° | 471.4 | 463.7 | 453.7 | 443.3 | 431.3 | 417.9 | 402.9 | 387.8 | 372.0 | 355.1 | 336.5 |
| 40° | 489.7 | 480.3 | 471.2 | 461.3 | 448.9 | 436.2 | 421.1 | 405.5 | 388.3 | 371.0 | 352.5 |
| 37.5° | 506.5 | 497.3 | 487.4 | 476.5 | 465.4 | 452.1 | 437.9 | 421.6 | 404.7 | 385.8 | 367.1 |
| 35° | 522.1 | 513.1 | 502.5 | 491.6 | 479.6 | 466.7 | 452.7 | 437.0 | 419.5 | 400.5 | 380.5 |
| 32.5° | 537.3 | 527.3 | 516.7 | 505.2 | 493.5 | 480.0 | 465.8 | 450.4 | 433.2 | 415.1 | 392.5 |
| 30° | 549.5 | 539.8 | 530.0 | 518.0 | 505.2 | 492.7 | 478.2 | 463.0 | 445.5 | 425.9 | 405.3 |
| 27.5° | 559.4 | 551.3 | 541.0 | 529.5 | 516.8 | 502.7 | 488.8 | 473.7 | 457.1 | 436.3 | 414.8 |
| 25° | 568.1 | 560.5 | 550.7 | 539.7 | 526.5 | 513.2 | 498.2 | 481.4 | 464.2 | 445.2 | 423.7 |
| 22.5° | 576.6 | 567.8 | 559.4 | 548.4 | 536.5 | 521.9 | 506.2 | 491.3 | 473.5 | 454.2 | 431.8 |
| 20° | 583.7 | 575.1 | 564.6 | 555.4 | 543.4 | 529.1 | 514.2 | 497.3 | 478.7 | 460.0 | 438.5 |
| 17.5° | 590.9 | 580.9 | 571.5 | 560.0 | 548.8 | 535.9 | 519.9 | 503.3 | 486.3 | 466.5 | 444.6 |
| 15° | 596.0 | 586.3 | 576.6 | 565.8 | 555.1 | 540.7 | 524.9 | 508.9 | 490.9 | 471.1 | 450.0 |
| 12.5° | 601.1 | 591.9 | 580.0 | 570.0 | 557.2 | 544.4 | 529.9 | 513.0 | 494.8 | 474.3 | 453.7 |
| 10° | 604.5 | 594.5 | 583.9 | 572.5 | 560.1 | 547.4 | 532.6 | 515.7 | 498.0 | 478.1 | 456.8 |
| 7.5° | 607.5 | 597.0 | 587.4 | 574.5 | 562.9 | 550.4 | 534.6 | 517.5 | 500.2 | 480.7 | 459.0 |
| 5° | 608.2 | 598.0 | 588.3 | 576.0 | 564.4 | 551.5 | 535.7 | 518.8 | 501.3 | 481.8 | 460.1 |
| 2.5° | 607.9 | 598.0 | 588.4 | 576.6 | 565.0 | 551.1 | 535.8 | 519.0 | 501.4 | 482.0 | 460.2 |
| 0° | 607.1 | 596.9 | 587.8 | 576.2 | 564.5 | 550.2 | 534.9 | 518.2 | 500.6 | 481.3 | 459.3 |
| -2.5° | 605.1 | 595.1 | 585.9 | 574.4 | 562.6 | 548.4 | 533.0 | 516.4 | 498.9 | 479.5 | 457.6 |
| -5° | 601.7 | 592.4 | 583.2 | 571.6 | 559.6 | 546.0 | 530.2 | 513.6 | 496.2 | 476.7 | 455.0 |
| -7.5° | 597.1 | 588.7 | 579.7 | 567.2 | 555.6 | 542.3 | 526.4 | 509.8 | 492.7 | 473.0 | 451.4 |
| -10° | 592.7 | 583.7 | 574.2 | 561.7 | 549.8 | 537.2 | 521.6 | 505.0 | 488.2 | 468.1 | 447.0 |
| -12.5° | 586.5 | 578.6 | 568.3 | 557.7 | 543.4 | 530.7 | 515.5 | 499.2 | 482.3 | 462.4 | 440.9 |
| -15° | 579.5 | 571.1 | 559.8 | 550.2 | 538.2 | 523.5 | 508.5 | 492.8 | 475.4 | 455.6 | 433.6 |
| -17.5° | 571.9 | 562.8 | 553.7 | 540.0 | 529.5 | 515.6 | 500.3 | 485.3 | 467.5 | 447.8 | 425.7 |
| -20° | 562.4 | 554.1 | 542.9 | 533.1 | 519.8 | 506.2 | 491.6 | 476.2 | 458.8 | 439.2 | 417.2 |



REPORT NUMBER: P670543 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-4000K

CANDELA DISTRIBUTION (continued):

| | 20° | 22.5° | 25° | 27.5° | 30° | 32.5° | 35° | 37.5° | 40° | 42.5° | 45° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -22.5° | 552.5 | 543.3 | 534.1 | 522.0 | 509.6 | 495.5 | 482.1 | 466.2 | 448.1 | 428.5 | 407.7 |
| -25° | 540.4 | 532.5 | 521.8 | 510.7 | 498.3 | 485.4 | 470.8 | 455.5 | 437.5 | 417.4 | 396.6 |
| -27.5° | 527.9 | 518.9 | 509.0 | 498.2 | 486.3 | 472.9 | 458.7 | 442.1 | 424.4 | 405.6 | 385.4 |
| -30° | 513.3 | 504.7 | 495.3 | 484.7 | 472.2 | 459.3 | 444.4 | 428.7 | 411.1 | 392.2 | 371.0 |
| -32.5° | 498.0 | 489.5 | 480.3 | 468.8 | 457.1 | 443.9 | 429.8 | 413.6 | 396.1 | 377.7 | 356.6 |
| -35° | 481.5 | 471.8 | 462.7 | 452.3 | 440.2 | 427.8 | 413.2 | 397.4 | 380.8 | 360.6 | 341.4 |
| -37.5° | 461.6 | 453.4 | 444.7 | 433.8 | 422.9 | 409.8 | 395.5 | 380.2 | 361.8 | 344.6 | 325.6 |
| -40° | 441.8 | 433.2 | 425.0 | 415.0 | 403.4 | 390.1 | 376.0 | 359.7 | 344.2 | 326.3 | 308.1 |
| -42.5° | 420.6 | 413.2 | 404.0 | 393.7 | 381.5 | 368.5 | 354.1 | 340.2 | 324.2 | 307.4 | 288.9 |
| -45° | 397.6 | 389.8 | 380.1 | 369.3 | 357.9 | 345.8 | 332.8 | 318.9 | 303.3 | 286.2 | 267.5 |
| -47.5° | 371.1 | 362.7 | 354.0 | 344.4 | 334.4 | 322.4 | 309.9 | 295.5 | 279.9 | 262.8 | 244.8 |
| -50° | 343.3 | 336.2 | 328.3 | 319.0 | 308.9 | 297.1 | 284.0 | 269.7 | 254.2 | 238.1 | 221.6 |
| -52.5° | 314.6 | 307.9 | 300.2 | 290.8 | 280.1 | 268.2 | 255.5 | 241.9 | 227.7 | 212.5 | 195.6 |
| -55° | 282.1 | 275.6 | 267.7 | 258.5 | 248.5 | 237.5 | 225.9 | 213.1 | 199.3 | 183.6 | 166.5 |
| -57.5° | 244.7 | 238.9 | 232.7 | 225.1 | 215.7 | 205.3 | 193.9 | 180.9 | 166.9 | 153.0 | 138.7 |
| -60° | 203.4 | 199.4 | 194.9 | 188.7 | 179.5 | 169.1 | 158.1 | 147.2 | 135.8 | 123.3 | 109.9 |
| -62.5° | 159.0 | 156.2 | 152.9 | 148.7 | 141.3 | 133.4 | 124.6 | 115.1 | 104.9 | 94.5 | 83.1 |
| -65° | 114.9 | 114.7 | 113.7 | 112.0 | 106.6 | 100.0 | 92.8 | 84.9 | 76.4 | 68.0 | 60.2 |
| -67.5° | 77.7 | 78.9 | 79.2 | 78.8 | 74.8 | 69.5 | 63.9 | 58.3 | 52.7 | 47.7 | 42.7 |
| -70° | 48.7 | 50.0 | 50.3 | 50.2 | 48.1 | 45.0 | 41.7 | 38.5 | 35.0 | 32.1 | 29.3 |
| -72.5° | 29.0 | 29.7 | 30.0 | 29.9 | 28.8 | 27.3 | 25.7 | 24.0 | 22.2 | 20.3 | 18.3 |
| -75° | 15.8 | 16.1 | 16.2 | 15.9 | 15.4 | 14.8 | 14.1 | 13.2 | 12.4 | 11.3 | 10.3 |
| -77.5° | 7.5 | 7.6 | 7.6 | 7.5 | 7.3 | 7.1 | 6.7 | 6.4 | 6.3 | 6.0 | 5.6 |
| -80° | 3.2 | 3.3 | 3.3 | 3.4 | 3.5 | 3.6 | 3.5 | 3.4 | 3.3 | 3.0 | 2.7 |
| -82.5° | 2.0 | 2.1 | 2.2 | 2.3 | 2.4 | 2.3 | 2.2 | 2.0 | 1.9 | 1.8 | 1.7 |
| -85° | 1.4 | 1.5 | 1.6 | 1.6 | 1.7 | 1.6 | 1.5 | 1.4 | 1.4 | 1.3 | 1.2 |
| -87.5° | 1.1 | 1.2 | 1.3 | 1.3 | 1.4 | 1.3 | 1.2 | 1.1 | 1.1 | 1.0 | 0.9 |
| -90° | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.0 | 1.0 | 1.0 |



REPORT NUMBER: P670543 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-4000K

CANDELA DISTRIBUTION (continued):

| | 47.5° | 50° | 52.5° | 55° | 57.5° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 90° | 0.8 | 0.8 | 0.7 | 0.6 | 0.6 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 87.5° | 1.8 | 1.7 | 1.7 | 1.6 | 1.5 | 1.4 | 1.3 | 1.2 | 1.1 | 1.0 | 0.9 |
| 85° | 3.8 | 3.4 | 2.9 | 2.7 | 2.5 | 2.2 | 2.0 | 1.7 | 1.5 | 1.3 | 1.1 |
| 82.5° | 9.1 | 8.2 | 7.3 | 6.3 | 5.2 | 4.5 | 3.5 | 2.7 | 2.1 | 1.7 | 1.4 |
| 80° | 17.7 | 15.7 | 13.7 | 12.0 | 10.5 | 8.8 | 6.8 | 5.0 | 3.6 | 2.7 | 1.8 |
| 77.5° | 29.8 | 26.4 | 23.5 | 20.3 | 17.4 | 14.4 | 11.1 | 8.5 | 6.2 | 4.3 | 2.9 |
| 75° | 43.5 | 39.4 | 35.4 | 31.1 | 26.7 | 22.1 | 16.9 | 12.6 | 9.2 | 6.4 | 4.3 |
| 72.5° | 60.0 | 53.8 | 47.8 | 42.1 | 37.2 | 31.1 | 24.2 | 18.2 | 13.1 | 9.0 | 6.0 |
| 70° | 77.9 | 69.3 | 61.7 | 54.7 | 47.9 | 40.0 | 32.2 | 24.7 | 18.0 | 12.3 | 8.0 |
| 67.5° | 99.5 | 89.0 | 78.0 | 67.6 | 59.1 | 49.6 | 39.9 | 31.3 | 23.4 | 16.3 | 10.6 |
| 65° | 122.9 | 109.2 | 97.0 | 84.9 | 71.7 | 59.4 | 48.5 | 38.1 | 28.9 | 20.7 | 13.6 |
| 62.5° | 146.8 | 133.3 | 117.3 | 102.3 | 87.9 | 71.0 | 57.1 | 45.4 | 34.6 | 25.1 | 17.0 |
| 60° | 169.0 | 153.7 | 139.6 | 122.7 | 103.1 | 84.9 | 67.3 | 52.9 | 40.7 | 29.7 | 20.4 |
| 57.5° | 194.3 | 175.6 | 157.7 | 142.5 | 121.4 | 98.4 | 79.1 | 60.9 | 46.9 | 34.5 | 23.8 |
| 55° | 218.7 | 200.0 | 178.8 | 158.5 | 138.2 | 114.1 | 90.6 | 71.0 | 53.2 | 39.5 | 27.3 |
| 52.5° | 240.6 | 222.2 | 201.7 | 176.8 | 151.8 | 129.4 | 103.5 | 80.2 | 60.6 | 44.6 | 31.2 |
| 50° | 261.3 | 242.0 | 222.0 | 196.6 | 167.6 | 142.3 | 117.1 | 90.6 | 68.4 | 49.6 | 34.9 |
| 47.5° | 281.1 | 260.7 | 239.4 | 214.1 | 185.4 | 155.1 | 129.8 | 101.5 | 75.7 | 55.2 | 38.8 |
| 45° | 299.2 | 278.5 | 255.1 | 229.4 | 202.1 | 170.1 | 140.5 | 112.6 | 84.3 | 61.1 | 42.6 |
| 42.5° | 316.5 | 294.7 | 270.6 | 244.0 | 215.8 | 185.7 | 151.2 | 123.4 | 92.8 | 66.6 | 46.2 |
| 40° | 332.2 | 309.3 | 285.1 | 258.6 | 228.9 | 198.9 | 164.2 | 132.3 | 100.8 | 72.3 | 50.1 |
| 37.5° | 346.5 | 323.5 | 298.0 | 271.8 | 242.1 | 210.1 | 177.2 | 140.8 | 109.9 | 78.7 | 54.0 |
| 35° | 359.1 | 336.2 | 311.1 | 284.1 | 254.7 | 220.9 | 188.7 | 149.7 | 117.9 | 84.6 | 57.6 |
| 32.5° | 370.5 | 347.6 | 322.8 | 294.8 | 265.8 | 232.2 | 197.4 | 160.0 | 124.7 | 89.7 | 60.9 |
| 30° | 380.9 | 357.8 | 333.1 | 305.6 | 275.9 | 242.9 | 205.5 | 169.8 | 130.6 | 95.3 | 64.2 |
| 27.5° | 390.9 | 366.9 | 342.2 | 315.2 | 284.8 | 252.4 | 213.5 | 178.7 | 135.7 | 101.4 | 68.2 |
| 25° | 401.1 | 375.1 | 350.2 | 323.6 | 292.8 | 260.6 | 222.1 | 184.5 | 141.9 | 106.8 | 71.7 |
| 22.5° | 408.6 | 382.8 | 357.2 | 330.7 | 300.5 | 267.7 | 229.9 | 189.5 | 148.3 | 110.9 | 74.6 |
| 20° | 415.2 | 389.9 | 363.3 | 336.7 | 307.2 | 273.9 | 236.9 | 194.2 | 154.0 | 114.4 | 76.7 |
| 17.5° | 421.1 | 396.3 | 368.6 | 341.8 | 313.0 | 279.0 | 242.7 | 198.1 | 159.0 | 117.4 | 78.3 |
| 15° | 426.1 | 400.9 | 373.0 | 345.9 | 317.5 | 283.4 | 247.1 | 201.7 | 163.1 | 119.2 | 79.4 |
| 12.5° | 429.8 | 404.5 | 376.9 | 349.3 | 320.8 | 287.0 | 250.8 | 205.5 | 166.5 | 120.5 | 80.6 |
| 10° | 432.4 | 407.4 | 379.9 | 351.7 | 323.3 | 289.9 | 253.5 | 208.5 | 168.1 | 121.3 | 81.9 |
| 7.5° | 434.1 | 409.2 | 381.9 | 353.4 | 325.0 | 291.9 | 255.2 | 210.5 | 168.7 | 121.5 | 82.7 |
| 5° | 435.1 | 410.2 | 382.9 | 354.2 | 325.8 | 293.1 | 256.1 | 211.6 | 168.7 | 121.2 | 82.8 |
| 2.5° | 435.1 | 410.2 | 382.8 | 354.1 | 325.7 | 293.2 | 256.1 | 211.7 | 168.0 | 120.4 | 82.4 |
| 0° | 434.1 | 409.2 | 381.9 | 353.2 | 324.9 | 292.5 | 255.3 | 210.7 | 166.7 | 119.1 | 81.3 |
| -2.5° | 432.5 | 407.7 | 380.4 | 351.8 | 323.5 | 291.0 | 254.0 | 209.6 | 165.9 | 118.5 | 80.6 |
| -5° | 430.0 | 405.3 | 378.0 | 349.5 | 321.3 | 288.6 | 251.8 | 207.4 | 164.5 | 117.4 | 79.4 |
| -7.5° | 426.5 | 401.9 | 374.6 | 346.4 | 318.2 | 285.3 | 248.8 | 204.2 | 162.4 | 115.8 | 77.5 |
| -10° | 422.2 | 397.7 | 370.3 | 342.4 | 314.3 | 281.1 | 245.0 | 199.9 | 159.6 | 113.7 | 75.1 |
| -12.5° | 417.1 | 392.4 | 365.0 | 337.7 | 309.5 | 275.9 | 240.1 | 194.7 | 155.8 | 111.0 | 72.0 |
| -15° | 410.7 | 385.7 | 358.9 | 332.0 | 303.9 | 270.0 | 234.3 | 188.5 | 150.4 | 107.7 | 69.4 |
| -17.5° | 403.0 | 378.0 | 351.7 | 325.4 | 297.1 | 263.2 | 227.6 | 182.5 | 144.1 | 103.9 | 67.0 |
| -20° | 394.8 | 369.4 | 343.6 | 317.8 | 288.7 | 255.7 | 219.4 | 176.2 | 137.0 | 99.0 | 64.2 |

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

Scaled Data Report



REPORT NUMBER: P670543 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: ARFL15DBZ-15W-4000K

CANDELA DISTRIBUTION (continued):

| | 47.5° | 50° | 52.5° | 55° | 57.5° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| -22.5° | 385.2 | 360.2 | 335.2 | 309.2 | 279.5 | 247.2 | 210.1 | 169.1 | 129.3 | 93.4 | 61.2 |
| -25° | 373.7 | 349.9 | 325.6 | 299.8 | 269.3 | 237.9 | 199.5 | 161.7 | 121.0 | 87.3 | 57.3 |
| -27.5° | 361.7 | 338.4 | 314.9 | 288.6 | 258.5 | 227.2 | 187.7 | 153.6 | 112.9 | 80.2 | 52.7 |
| -30° | 349.5 | 327.0 | 303.0 | 275.9 | 246.9 | 215.0 | 176.7 | 142.2 | 105.6 | 72.7 | 47.8 |
| -32.5° | 335.3 | 313.8 | 290.1 | 262.4 | 234.6 | 201.3 | 165.8 | 130.2 | 97.4 | 66.3 | 44.1 |
| -35° | 321.3 | 299.3 | 274.7 | 248.3 | 220.7 | 185.8 | 154.5 | 118.3 | 88.3 | 61.1 | 40.7 |
| -37.5° | 305.3 | 283.5 | 258.6 | 233.7 | 204.7 | 171.6 | 140.3 | 107.2 | 78.5 | 55.1 | 37.1 |
| -40° | 288.2 | 265.4 | 242.1 | 217.4 | 186.7 | 157.4 | 125.1 | 96.2 | 68.2 | 48.1 | 33.5 |
| -42.5° | 268.4 | 246.9 | 224.9 | 198.9 | 169.5 | 141.2 | 110.5 | 84.5 | 61.2 | 42.7 | 29.8 |
| -45° | 247.7 | 228.1 | 205.5 | 178.1 | 152.3 | 123.2 | 96.9 | 72.4 | 53.5 | 38.1 | 26.1 |
| -47.5° | 226.7 | 206.8 | 183.4 | 158.8 | 132.4 | 106.5 | 83.1 | 62.2 | 44.9 | 33.3 | 22.4 |
| -50° | 203.3 | 182.4 | 161.2 | 137.6 | 113.0 | 90.3 | 69.3 | 53.4 | 39.5 | 28.5 | 18.6 |
| -52.5° | 176.5 | 157.7 | 137.6 | 115.6 | 94.1 | 74.7 | 58.5 | 43.8 | 33.7 | 23.9 | 15.3 |
| -55° | 150.2 | 132.2 | 113.3 | 94.5 | 76.5 | 61.1 | 47.9 | 37.5 | 27.9 | 19.3 | 12.2 |
| -57.5° | 122.6 | 106.8 | 90.3 | 75.0 | 61.3 | 49.7 | 39.4 | 30.7 | 22.4 | 15.2 | 9.9 |
| -60° | 96.7 | 82.7 | 70.0 | 58.9 | 49.0 | 39.8 | 32.0 | 24.2 | 17.2 | 11.7 | 7.6 |
| -62.5° | 72.3 | 62.3 | 53.8 | 45.3 | 38.6 | 31.6 | 24.6 | 18.2 | 12.8 | 8.9 | 5.5 |
| -65° | 53.1 | 46.4 | 39.5 | 35.1 | 29.5 | 23.4 | 17.9 | 13.1 | 9.6 | 6.4 | 3.8 |
| -67.5° | 37.3 | 33.7 | 29.6 | 25.1 | 20.7 | 16.2 | 12.3 | 9.4 | 6.6 | 4.2 | 2.6 |
| -70° | 26.2 | 23.0 | 19.7 | 16.6 | 13.6 | 10.7 | 8.6 | 6.1 | 4.1 | 2.7 | 1.8 |
| -72.5° | 16.3 | 14.2 | 12.1 | 10.1 | 8.8 | 7.0 | 4.9 | 3.5 | 2.5 | 1.8 | 1.3 |
| -75° | 8.9 | 8.2 | 7.4 | 6.1 | 4.6 | 3.6 | 2.6 | 2.0 | 1.6 | 1.3 | 1.1 |
| -77.5° | 5.0 | 4.2 | 3.6 | 2.9 | 2.4 | 1.8 | 1.6 | 1.4 | 1.2 | 1.0 | 0.8 |
| -80° | 2.4 | 2.1 | 1.8 | 1.6 | 1.4 | 1.3 | 1.2 | 1.0 | 0.9 | 0.8 | 0.6 |
| -82.5° | 1.6 | 1.4 | 1.3 | 1.2 | 1.1 | 0.9 | 0.8 | 0.7 | 0.6 | 0.6 | 0.5 |
| -85° | 1.0 | 0.9 | 0.8 | 0.7 | 0.6 | 0.5 | 0.5 | 0.5 | 0.4 | 0.5 | 0.5 |
| -87.5° | 0.8 | 0.7 | 0.6 | 0.6 | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.5 |
| -90° | 1.0 | 1.0 | 1.0 | 0.9 | 0.9 | 0.9 | 0.9 | 0.8 | 0.8 | 0.8 | 0.7 |

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Scaled Data Report



REPORT NUMBER: P670543 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: ARFL15DBZ-15W-4000K

CANDELA DISTRIBUTION (continued):

| | 75° | 77.5° | 80° | 82.5° | 85° | 87.5° | 90° |
|--------|------|-------|------|-------|-----|-------|-----|
| 90° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 87.5° | 0.8 | 0.8 | 0.7 | 0.6 | 0.6 | 0.5 | 0.5 |
| 85° | 1.0 | 0.9 | 0.7 | 0.7 | 0.6 | 0.5 | 0.5 |
| 82.5° | 1.2 | 1.0 | 0.8 | 0.7 | 0.6 | 0.5 | 0.5 |
| 80° | 1.5 | 1.2 | 0.9 | 0.8 | 0.6 | 0.5 | 0.5 |
| 77.5° | 1.9 | 1.4 | 1.0 | 0.8 | 0.6 | 0.6 | 0.5 |
| 75° | 2.7 | 1.7 | 1.2 | 0.9 | 0.7 | 0.6 | 0.5 |
| 72.5° | 3.8 | 2.2 | 1.3 | 1.0 | 0.7 | 0.6 | 0.5 |
| 70° | 5.0 | 2.9 | 1.7 | 1.0 | 0.7 | 0.6 | 0.5 |
| 67.5° | 6.5 | 3.7 | 2.0 | 1.1 | 0.8 | 0.6 | 0.5 |
| 65° | 8.2 | 4.7 | 2.4 | 1.3 | 0.8 | 0.6 | 0.5 |
| 62.5° | 10.1 | 5.7 | 2.9 | 1.4 | 0.8 | 0.6 | 0.5 |
| 60° | 12.6 | 6.9 | 3.4 | 1.6 | 0.9 | 0.6 | 0.5 |
| 57.5° | 15.1 | 8.1 | 4.0 | 1.7 | 0.9 | 0.6 | 0.5 |
| 55° | 17.6 | 9.5 | 4.7 | 2.0 | 0.9 | 0.6 | 0.5 |
| 52.5° | 19.9 | 11.3 | 5.3 | 2.2 | 1.0 | 0.6 | 0.5 |
| 50° | 22.5 | 13.0 | 6.1 | 2.4 | 1.0 | 0.6 | 0.5 |
| 47.5° | 25.1 | 14.6 | 6.8 | 2.7 | 1.1 | 0.6 | 0.5 |
| 45° | 27.8 | 16.0 | 7.5 | 3.0 | 1.1 | 0.6 | 0.5 |
| 42.5° | 30.3 | 17.6 | 8.5 | 3.3 | 1.2 | 0.6 | 0.5 |
| 40° | 33.0 | 19.2 | 9.5 | 3.6 | 1.2 | 0.7 | 0.5 |
| 37.5° | 35.5 | 20.6 | 10.3 | 3.8 | 1.2 | 0.7 | 0.5 |
| 35° | 37.9 | 22.2 | 11.1 | 4.1 | 1.3 | 0.7 | 0.5 |
| 32.5° | 40.0 | 23.6 | 11.7 | 4.3 | 1.3 | 0.7 | 0.5 |
| 30° | 41.9 | 24.9 | 12.3 | 4.5 | 1.4 | 0.7 | 0.5 |
| 27.5° | 43.9 | 26.0 | 12.8 | 4.7 | 1.4 | 0.7 | 0.5 |
| 25° | 45.7 | 27.3 | 13.2 | 4.8 | 1.4 | 0.7 | 0.5 |
| 22.5° | 47.1 | 28.3 | 13.8 | 4.9 | 1.4 | 0.7 | 0.5 |
| 20° | 48.3 | 29.2 | 14.2 | 5.0 | 1.4 | 0.7 | 0.5 |
| 17.5° | 49.3 | 29.8 | 14.5 | 5.2 | 1.4 | 0.7 | 0.5 |
| 15° | 50.1 | 30.3 | 14.7 | 5.3 | 1.4 | 0.7 | 0.5 |
| 12.5° | 50.5 | 30.6 | 14.8 | 5.4 | 1.3 | 0.7 | 0.5 |
| 10° | 50.6 | 30.7 | 14.8 | 5.4 | 1.3 | 0.7 | 0.5 |
| 7.5° | 50.5 | 30.7 | 14.8 | 5.4 | 1.3 | 0.7 | 0.5 |
| 5° | 50.1 | 30.4 | 14.6 | 5.3 | 1.2 | 0.7 | 0.5 |
| 2.5° | 49.4 | 30.0 | 14.3 | 5.2 | 1.2 | 0.7 | 0.5 |
| 0° | 48.4 | 29.5 | 13.9 | 5.0 | 1.1 | 0.7 | 0.5 |
| -2.5° | 48.1 | 29.3 | 13.8 | 5.0 | 1.1 | 0.6 | 0.5 |
| -5° | 47.6 | 29.0 | 13.6 | 4.9 | 1.1 | 0.6 | 0.5 |
| -7.5° | 46.9 | 28.5 | 13.4 | 4.8 | 1.1 | 0.6 | 0.5 |
| -10° | 45.9 | 27.8 | 13.0 | 4.6 | 1.1 | 0.6 | 0.5 |
| -12.5° | 44.7 | 27.0 | 12.6 | 4.4 | 1.1 | 0.6 | 0.5 |
| -15° | 43.3 | 26.1 | 12.1 | 4.2 | 1.1 | 0.6 | 0.5 |
| -17.5° | 41.7 | 25.0 | 11.5 | 3.9 | 1.0 | 0.6 | 0.5 |
| -20° | 39.9 | 23.7 | 10.9 | 3.6 | 1.0 | 0.6 | 0.5 |

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REPORT NUMBER: P670543 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: ARFL15DBZ-15W-4000K

CANDELA DISTRIBUTION (continued):

| | 75° | 77.5° | 80° | 82.5° | 85° | 87.5° | 90° |
|--------|------|-------|------|-------|-----|-------|-----|
| -22.5° | 38.0 | 22.3 | 10.2 | 3.3 | 1.0 | 0.6 | 0.5 |
| -25° | 36.0 | 20.8 | 9.4 | 3.2 | 1.0 | 0.6 | 0.5 |
| -27.5° | 33.8 | 19.1 | 8.7 | 3.0 | 0.9 | 0.6 | 0.5 |
| -30° | 31.4 | 17.5 | 8.1 | 2.8 | 0.9 | 0.6 | 0.5 |
| -32.5° | 29.0 | 16.0 | 7.4 | 2.5 | 0.9 | 0.6 | 0.5 |
| -35° | 26.4 | 14.3 | 6.7 | 2.3 | 0.8 | 0.6 | 0.5 |
| -37.5° | 23.8 | 12.7 | 5.9 | 2.1 | 0.8 | 0.6 | 0.5 |
| -40° | 21.0 | 11.2 | 5.1 | 1.8 | 0.8 | 0.6 | 0.5 |
| -42.5° | 18.1 | 9.7 | 4.3 | 1.6 | 0.8 | 0.6 | 0.5 |
| -45° | 15.7 | 8.4 | 3.5 | 1.4 | 0.8 | 0.6 | 0.5 |
| -47.5° | 13.2 | 7.2 | 3.0 | 1.2 | 0.7 | 0.6 | 0.5 |
| -50° | 11.1 | 5.9 | 2.6 | 1.1 | 0.7 | 0.6 | 0.5 |
| -52.5° | 9.1 | 4.8 | 2.1 | 1.0 | 0.7 | 0.5 | 0.5 |
| -55° | 7.4 | 3.6 | 1.8 | 0.9 | 0.7 | 0.5 | 0.5 |
| -57.5° | 5.7 | 2.8 | 1.5 | 0.8 | 0.6 | 0.5 | 0.5 |
| -60° | 4.3 | 2.2 | 1.2 | 0.8 | 0.6 | 0.5 | 0.5 |
| -62.5° | 3.0 | 1.8 | 1.0 | 0.8 | 0.6 | 0.5 | 0.5 |
| -65° | 2.3 | 1.4 | 0.9 | 0.7 | 0.6 | 0.5 | 0.5 |
| -67.5° | 1.7 | 1.1 | 0.8 | 0.7 | 0.6 | 0.5 | 0.5 |
| -70° | 1.3 | 1.0 | 0.7 | 0.6 | 0.5 | 0.5 | 0.5 |
| -72.5° | 1.0 | 0.8 | 0.7 | 0.6 | 0.5 | 0.5 | 0.5 |
| -75° | 0.9 | 0.7 | 0.6 | 0.5 | 0.5 | 0.5 | 0.5 |
| -77.5° | 0.7 | 0.6 | 0.6 | 0.5 | 0.5 | 0.5 | 0.5 |
| -80° | 0.6 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| -82.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| -85° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| -87.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| -90° | 0.7 | 0.7 | 0.6 | 0.6 | 0.6 | 0.5 | 0.5 |

(END OF REPORT)