

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: P670562 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: GFLL100FSUNVDBZK-80W-5000K

Issue Date: 4/3/2023

Test Information

Test Method: LM-79-2019
Report Number: P670562 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ()
Test Lab: INNOVATION CENTER
Issue Date: 4/3/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: GFL100FSUNVDBZK-80W-5000K
Description: SLIM LED FLOODLIGHT
Light Source:
Ballast/Driver: -

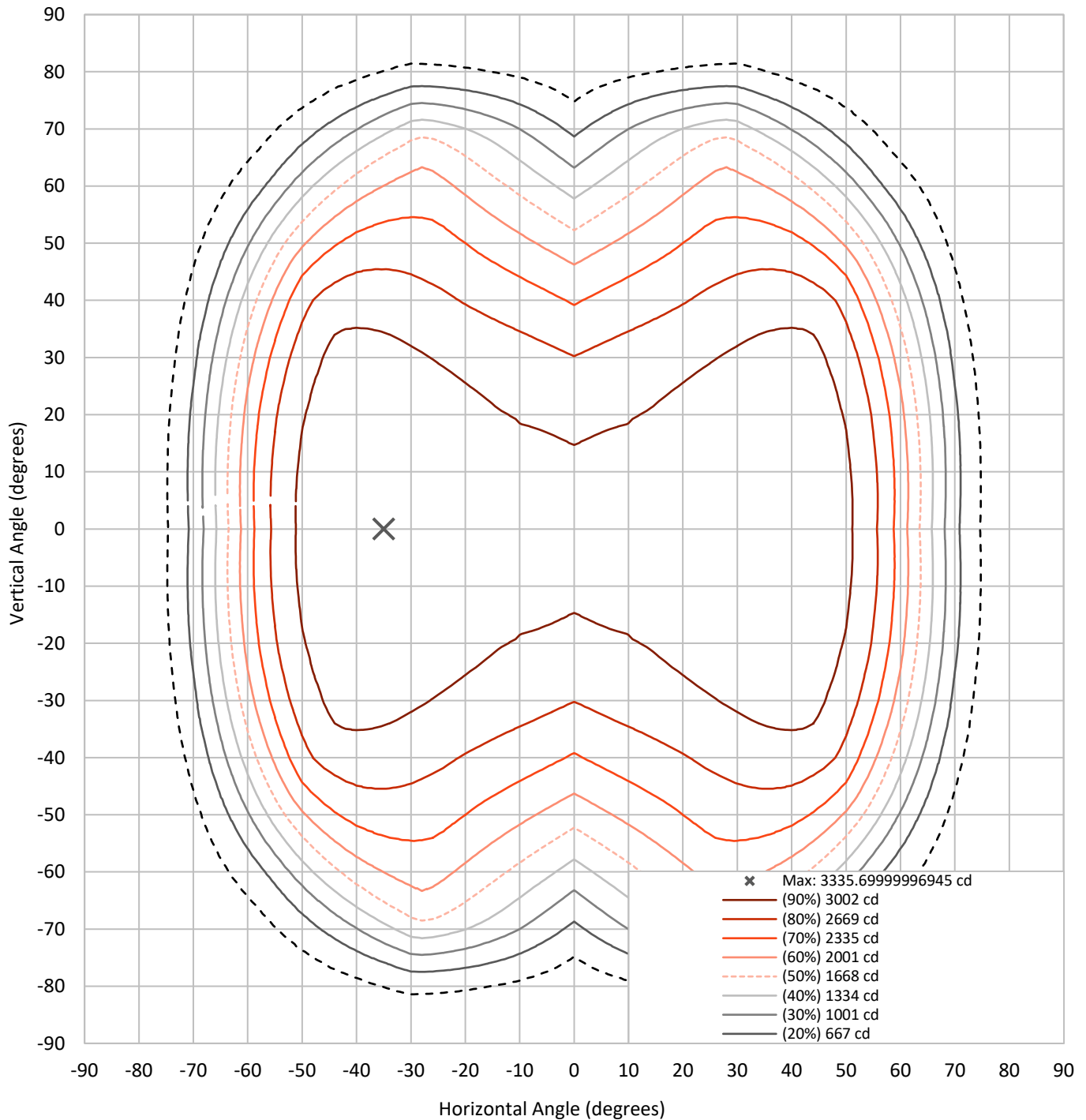
Summary

| | | | |
|-----------------------------------|---|----------------------|-------------------|
| Lumens per Lamp: | N/A | NEMA Type: | 7H x 7V |
| Luminaire Lumens: | 11474.1 lumens | Max Intensity: | 3335.7 candela |
| Efficiency: | N/A | Max Intensity Angle: | -35°H x 0°V |
| Efficacy: | 138.9 lumens/watt | | |
| Luminous Opening: | Rectangular w/ Sides (W: 0.33' x L: 0.56' x H: 0.18') | | |
| Beam Angle (50%): | 127°H x 130.8°V | Field Angle (10%): | 149.3°H x 160.3°V |
| Beam Lumens: | 9959.2 lumens | Field Lumens: | 11334.4 lumens |
| Beam Efficiency: | 86.8% | Field Efficiency: | 98.8% |
| Input Watts (W): | 82.6 | | |
| 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 | | |



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CATALOG NUMBER: GFLL100FSUNVDBZK-80W-5000K

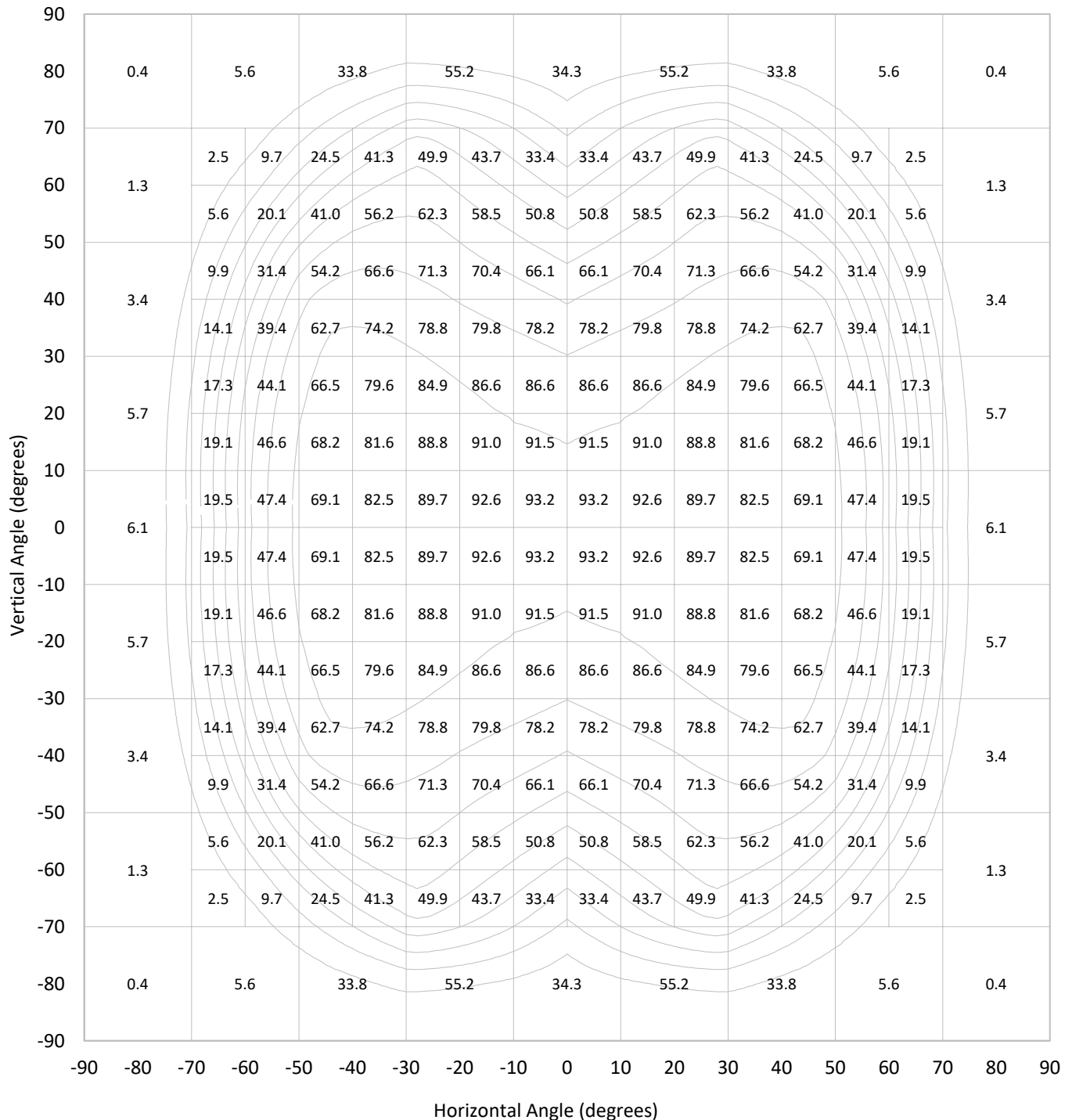
Iso-Candela Plot





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Lumen Table



Classified

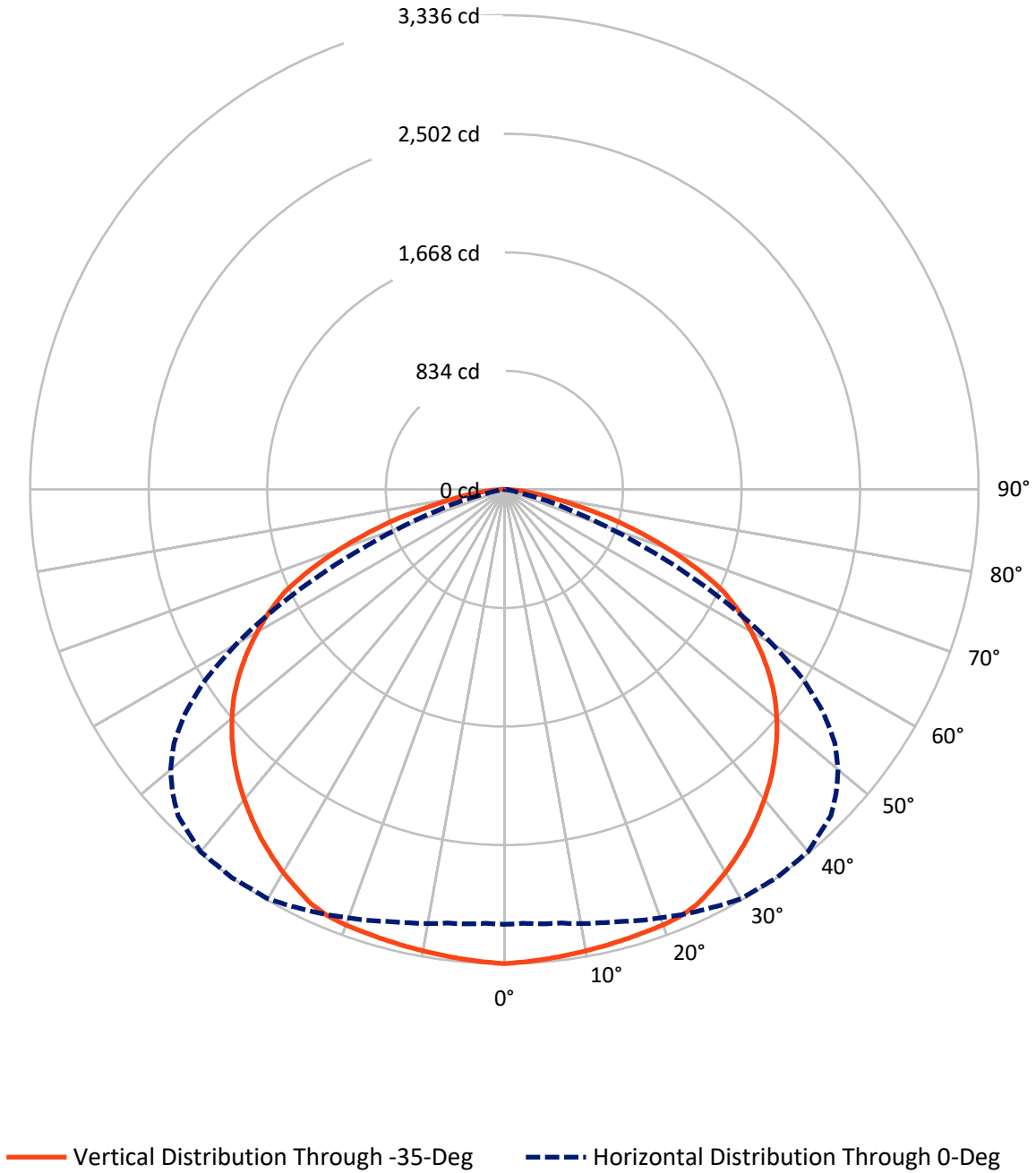
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Scaled Data Report



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CATALOG NUMBER: GFLL100FSUNVDBZK-80W-5000K

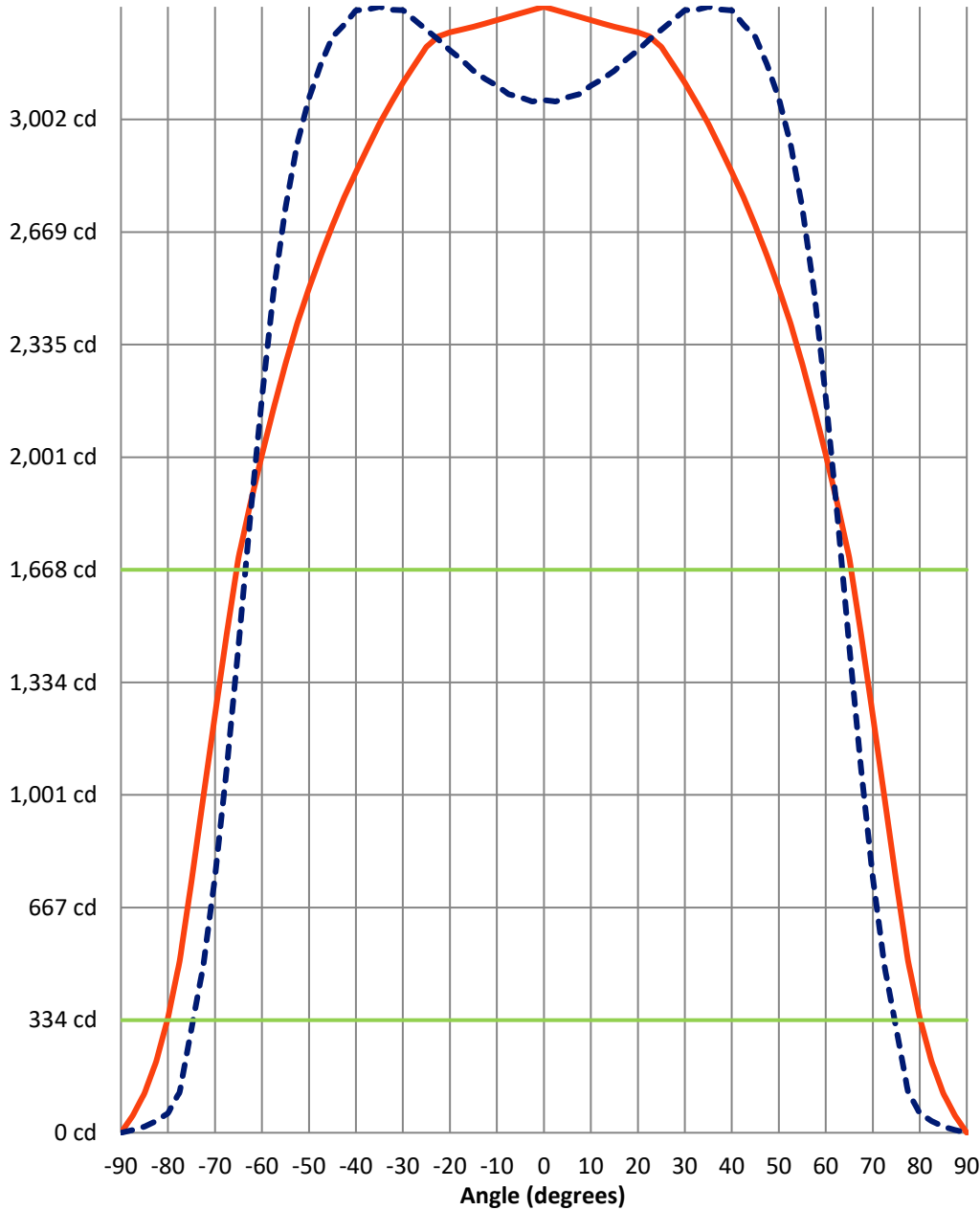
Luminous Intensity Polar Plot





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Luminous Intensity Plot



Beam:
 H Angle: 127°
 V Angle: 130.8°
 Lumens: 9959.2
 Efficiency: 86.8%

Field:
 H Angle: 149.3°
 V Angle: 160.3°
 Lumens: 11334.4
 Efficiency: 98.8%

Spill:
 Lumens: 139.7
 Efficiency: 1.2%

— Vertical Distribution through -35-Deg
 - - - Horizontal Distribution through 0-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° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.5 | 1.2 | 2.1 | 3.3 | 4.7 | 6.4 | 8.2 | 10.3 | 12.6 | 15.1 |
| 85° | 0.0 | 0.9 | 2.4 | 4.3 | 6.6 | 9.4 | 12.7 | 16.4 | 20.6 | 25.2 | 30.1 |
| 82.5° | 0.0 | 1.4 | 3.5 | 6.4 | 9.9 | 14.1 | 19.0 | 24.5 | 30.5 | 36.1 | 42.0 |
| 80° | 0.0 | 1.9 | 4.7 | 8.5 | 13.2 | 18.7 | 25.0 | 31.1 | 37.7 | 44.7 | 52.0 |
| 77.5° | 0.0 | 2.3 | 5.8 | 10.5 | 16.3 | 22.9 | 29.6 | 36.9 | 44.7 | 53.0 | 62.1 |
| 75° | 0.0 | 2.8 | 6.9 | 12.5 | 19.3 | 26.3 | 34.1 | 42.5 | 51.6 | 61.9 | 72.5 |
| 72.5° | 0.0 | 3.2 | 8.0 | 14.4 | 21.8 | 29.7 | 38.4 | 48.2 | 59.2 | 70.8 | 82.8 |
| 70° | 0.0 | 3.7 | 9.1 | 16.2 | 24.1 | 32.9 | 42.7 | 54.4 | 66.7 | 79.8 | 107.2 |
| 67.5° | 0.0 | 4.1 | 10.1 | 17.8 | 26.4 | 36.0 | 47.7 | 60.4 | 74.1 | 102.6 | 134.2 |
| 65° | 0.0 | 4.5 | 11.1 | 19.3 | 28.6 | 39.4 | 52.5 | 66.2 | 92.4 | 124.5 | 168.1 |
| 62.5° | 0.0 | 4.9 | 12.0 | 20.8 | 30.7 | 43.1 | 57.1 | 77.9 | 109.7 | 150.0 | 219.5 |
| 60° | 0.0 | 5.3 | 12.9 | 22.2 | 32.7 | 46.7 | 61.5 | 91.4 | 126.2 | 192.2 | 268.4 |
| 57.5° | 0.0 | 5.6 | 13.7 | 23.5 | 35.3 | 50.1 | 71.0 | 104.1 | 156.4 | 232.1 | 331.2 |
| 55° | 0.0 | 6.0 | 14.4 | 24.7 | 37.7 | 53.2 | 80.6 | 116.0 | 188.5 | 275.0 | 399.5 |
| 52.5° | 0.0 | 6.3 | 15.2 | 25.8 | 40.1 | 56.9 | 89.5 | 139.8 | 218.5 | 333.9 | 465.2 |
| 50° | 0.0 | 6.6 | 15.8 | 26.9 | 42.3 | 63.4 | 97.7 | 163.5 | 253.0 | 390.3 | 550.5 |
| 47.5° | 0.0 | 6.9 | 16.5 | 28.0 | 44.3 | 69.4 | 106.7 | 185.4 | 300.7 | 444.3 | 633.2 |
| 45° | 0.0 | 7.1 | 17.0 | 29.4 | 46.2 | 74.8 | 123.6 | 205.5 | 346.1 | 512.5 | 710.2 |
| 42.5° | 0.0 | 7.4 | 17.6 | 30.6 | 47.9 | 79.7 | 139.2 | 234.9 | 389.1 | 576.2 | 799.1 |
| 40° | 0.0 | 7.6 | 18.0 | 31.8 | 50.4 | 84.0 | 153.2 | 270.2 | 433.1 | 634.8 | 884.3 |
| 37.5° | 0.0 | 7.8 | 18.4 | 32.9 | 53.5 | 87.7 | 165.8 | 303.2 | 480.9 | 693.0 | 962.7 |
| 35° | 0.0 | 8.0 | 18.8 | 33.8 | 56.3 | 95.1 | 176.8 | 333.8 | 524.3 | 757.6 | 1038.6 |
| 32.5° | 0.0 | 8.1 | 19.1 | 34.6 | 58.6 | 103.7 | 190.7 | 362.1 | 563.2 | 816.2 | 1114.1 |
| 30° | 0.0 | 8.2 | 19.3 | 35.3 | 60.6 | 111.1 | 212.9 | 389.1 | 597.6 | 868.5 | 1182.2 |
| 27.5° | 0.0 | 8.3 | 19.5 | 35.9 | 62.2 | 117.5 | 233.0 | 416.8 | 632.2 | 914.7 | 1242.6 |
| 25° | 0.0 | 8.4 | 19.6 | 36.4 | 63.4 | 122.7 | 250.9 | 440.9 | 669.2 | 960.2 | 1295.5 |
| 22.5° | 0.0 | 8.5 | 19.7 | 36.7 | 64.3 | 126.9 | 266.7 | 461.3 | 700.9 | 1002.0 | 1343.9 |
| 20° | 0.0 | 8.5 | 19.7 | 37.0 | 64.8 | 130.0 | 280.2 | 478.1 | 727.3 | 1037.0 | 1384.9 |
| 17.5° | 0.0 | 8.5 | 19.7 | 37.1 | 64.9 | 132.0 | 291.6 | 491.4 | 748.4 | 1065.3 | 1418.4 |
| 15° | 0.0 | 8.5 | 19.6 | 37.1 | 64.8 | 133.1 | 300.6 | 501.2 | 764.3 | 1086.8 | 1444.3 |
| 12.5° | 0.0 | 8.5 | 19.5 | 37.0 | 64.3 | 133.3 | 307.4 | 507.6 | 775.2 | 1101.6 | 1462.7 |
| 10° | 0.0 | 8.5 | 19.3 | 36.7 | 63.5 | 132.5 | 312.0 | 510.8 | 781.0 | 1109.8 | 1473.4 |
| 7.5° | 0.0 | 8.4 | 19.1 | 36.4 | 62.5 | 131.0 | 314.3 | 510.8 | 781.9 | 1111.5 | 1476.5 |
| 5° | 0.0 | 8.3 | 18.9 | 36.0 | 61.2 | 128.6 | 314.4 | 507.8 | 778.2 | 1106.9 | 1472.0 |
| 2.5° | 0.0 | 8.2 | 18.5 | 35.4 | 59.7 | 125.5 | 312.2 | 501.9 | 769.8 | 1096.1 | 1460.0 |
| 0° | 0.0 | 8.1 | 18.2 | 34.8 | 58.0 | 121.7 | 307.9 | 493.3 | 757.1 | 1079.2 | 1440.5 |
| -2.5° | 0.0 | 8.2 | 18.5 | 35.4 | 59.7 | 125.5 | 312.2 | 501.9 | 769.8 | 1096.1 | 1460.0 |
| -5° | 0.0 | 8.3 | 18.9 | 36.0 | 61.2 | 128.6 | 314.4 | 507.8 | 778.2 | 1106.9 | 1472.0 |
| -7.5° | 0.0 | 8.4 | 19.1 | 36.4 | 62.5 | 131.0 | 314.3 | 510.8 | 781.9 | 1111.5 | 1476.5 |
| -10° | 0.0 | 8.5 | 19.3 | 36.7 | 63.5 | 132.5 | 312.0 | 510.8 | 781.0 | 1109.8 | 1473.4 |
| -12.5° | 0.0 | 8.5 | 19.5 | 37.0 | 64.3 | 133.3 | 307.4 | 507.6 | 775.2 | 1101.6 | 1462.7 |
| -15° | 0.0 | 8.5 | 19.6 | 37.1 | 64.8 | 133.1 | 300.6 | 501.2 | 764.3 | 1086.8 | 1444.3 |
| -17.5° | 0.0 | 8.5 | 19.7 | 37.1 | 64.9 | 132.0 | 291.6 | 491.4 | 748.4 | 1065.3 | 1418.4 |
| -20° | 0.0 | 8.5 | 19.7 | 37.0 | 64.8 | 130.0 | 280.2 | 478.1 | 727.3 | 1037.0 | 1384.9 |

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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° | 0.0 | 8.5 | 19.7 | 36.7 | 64.3 | 126.9 | 266.7 | 461.3 | 700.9 | 1002.0 | 1343.9 |
| -25° | 0.0 | 8.4 | 19.6 | 36.4 | 63.4 | 122.7 | 250.9 | 440.9 | 669.2 | 960.2 | 1295.5 |
| -27.5° | 0.0 | 8.3 | 19.5 | 35.9 | 62.2 | 117.5 | 233.0 | 416.8 | 632.2 | 914.7 | 1242.6 |
| -30° | 0.0 | 8.2 | 19.3 | 35.3 | 60.6 | 111.1 | 212.9 | 389.1 | 597.6 | 868.5 | 1182.2 |
| -32.5° | 0.0 | 8.1 | 19.1 | 34.6 | 58.6 | 103.7 | 190.7 | 362.1 | 563.2 | 816.2 | 1114.1 |
| -35° | 0.0 | 8.0 | 18.8 | 33.8 | 56.3 | 95.1 | 176.8 | 333.8 | 524.3 | 757.6 | 1038.6 |
| -37.5° | 0.0 | 7.8 | 18.4 | 32.9 | 53.5 | 87.7 | 165.8 | 303.2 | 480.9 | 693.0 | 962.7 |
| -40° | 0.0 | 7.6 | 18.0 | 31.8 | 50.4 | 84.0 | 153.2 | 270.2 | 433.1 | 634.8 | 884.3 |
| -42.5° | 0.0 | 7.4 | 17.6 | 30.6 | 47.9 | 79.7 | 139.2 | 234.9 | 389.1 | 576.2 | 799.1 |
| -45° | 0.0 | 7.1 | 17.0 | 29.4 | 46.2 | 74.8 | 123.6 | 205.5 | 346.1 | 512.5 | 710.2 |
| -47.5° | 0.0 | 6.9 | 16.5 | 28.0 | 44.3 | 69.4 | 106.7 | 185.4 | 300.7 | 444.3 | 633.2 |
| -50° | 0.0 | 6.6 | 15.8 | 26.9 | 42.3 | 63.4 | 97.7 | 163.5 | 253.0 | 390.3 | 550.5 |
| -52.5° | 0.0 | 6.3 | 15.2 | 25.8 | 40.1 | 56.9 | 89.5 | 139.8 | 218.5 | 333.9 | 465.2 |
| -55° | 0.0 | 6.0 | 14.4 | 24.7 | 37.7 | 53.2 | 80.6 | 116.0 | 188.5 | 275.0 | 399.5 |
| -57.5° | 0.0 | 5.6 | 13.7 | 23.5 | 35.3 | 50.1 | 71.0 | 104.1 | 156.4 | 232.1 | 331.2 |
| -60° | 0.0 | 5.3 | 12.9 | 22.2 | 32.7 | 46.7 | 61.5 | 91.4 | 126.2 | 192.2 | 268.4 |
| -62.5° | 0.0 | 4.9 | 12.0 | 20.8 | 30.7 | 43.1 | 57.1 | 77.9 | 109.7 | 150.0 | 219.5 |
| -65° | 0.0 | 4.5 | 11.1 | 19.3 | 28.6 | 39.4 | 52.5 | 66.2 | 92.4 | 124.5 | 168.1 |
| -67.5° | 0.0 | 4.1 | 10.1 | 17.8 | 26.4 | 36.0 | 47.7 | 60.4 | 74.1 | 102.6 | 134.2 |
| -70° | 0.0 | 3.7 | 9.1 | 16.2 | 24.1 | 32.9 | 42.7 | 54.4 | 66.7 | 79.8 | 107.2 |
| -72.5° | 0.0 | 3.2 | 8.0 | 14.4 | 21.8 | 29.7 | 38.4 | 48.2 | 59.2 | 70.8 | 82.8 |
| -75° | 0.0 | 2.8 | 6.9 | 12.5 | 19.3 | 26.3 | 34.1 | 42.5 | 51.6 | 61.9 | 72.5 |
| -77.5° | 0.0 | 2.3 | 5.8 | 10.5 | 16.3 | 22.9 | 29.6 | 36.9 | 44.7 | 53.0 | 62.1 |
| -80° | 0.0 | 1.9 | 4.7 | 8.5 | 13.2 | 18.7 | 25.0 | 31.1 | 37.7 | 44.7 | 52.0 |
| -82.5° | 0.0 | 1.4 | 3.5 | 6.4 | 9.9 | 14.1 | 19.0 | 24.5 | 30.5 | 36.1 | 42.0 |
| -85° | 0.0 | 0.9 | 2.4 | 4.3 | 6.6 | 9.4 | 12.7 | 16.4 | 20.6 | 25.2 | 30.1 |
| -87.5° | 0.0 | 0.5 | 1.2 | 2.1 | 3.3 | 4.7 | 6.4 | 8.2 | 10.3 | 12.6 | 15.1 |
| -90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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 CATALOG NUMBER: GFLL100FSUNVDBZK-80W-5000K

CANDELA DISTRIBUTION (continued):

| | -62.5° | -60° | -57.5° | -55° | -52.5° | -50° | -47.5° | -45° | -42.5° | -40° | -37.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 17.8 | 20.6 | 23.2 | 26.0 | 28.9 | 31.9 | 34.8 | 37.9 | 41.1 | 44.3 | 47.6 |
| 85° | 35.4 | 41.1 | 45.7 | 51.0 | 57.1 | 64.0 | 71.4 | 79.5 | 88.2 | 97.4 | 107.0 |
| 82.5° | 48.2 | 54.6 | 63.1 | 73.0 | 84.0 | 96.1 | 109.9 | 127.1 | 146.0 | 166.5 | 188.3 |
| 80° | 59.8 | 67.9 | 80.8 | 97.5 | 117.2 | 139.6 | 164.8 | 192.4 | 222.3 | 257.8 | 298.6 |
| 77.5° | 71.6 | 81.6 | 99.7 | 123.8 | 153.2 | 194.5 | 239.1 | 286.6 | 337.0 | 389.8 | 444.8 |
| 75° | 83.6 | 95.0 | 127.8 | 171.5 | 219.7 | 272.1 | 330.9 | 407.9 | 488.1 | 571.1 | 656.7 |
| 72.5° | 104.6 | 132.3 | 171.8 | 224.8 | 301.5 | 385.4 | 474.1 | 567.1 | 668.0 | 774.2 | 882.3 |
| 70° | 137.2 | 169.9 | 232.0 | 318.0 | 410.3 | 511.6 | 624.6 | 741.3 | 861.4 | 986.2 | 1113.4 |
| 67.5° | 173.9 | 237.8 | 310.7 | 411.9 | 529.7 | 652.8 | 780.6 | 927.0 | 1070.4 | 1210.3 | 1346.6 |
| 65° | 235.5 | 307.8 | 396.0 | 520.5 | 651.4 | 811.6 | 971.8 | 1128.5 | 1286.4 | 1437.0 | 1579.3 |
| 62.5° | 294.5 | 392.4 | 494.4 | 638.4 | 815.3 | 989.1 | 1168.6 | 1342.9 | 1508.1 | 1644.6 | 1761.5 |
| 60° | 370.6 | 480.6 | 615.4 | 791.1 | 982.9 | 1183.7 | 1374.9 | 1546.6 | 1695.9 | 1825.0 | 1926.1 |
| 57.5° | 448.7 | 588.7 | 758.1 | 949.8 | 1169.7 | 1379.3 | 1570.6 | 1739.7 | 1878.4 | 1993.6 | 2084.3 |
| 55° | 536.4 | 711.5 | 905.2 | 1124.8 | 1356.4 | 1574.2 | 1765.0 | 1923.8 | 2058.3 | 2153.5 | 2228.6 |
| 52.5° | 640.9 | 833.5 | 1062.2 | 1301.8 | 1549.1 | 1767.1 | 1952.6 | 2103.3 | 2217.9 | 2305.0 | 2359.1 |
| 50° | 739.6 | 969.2 | 1214.0 | 1479.7 | 1739.0 | 1955.9 | 2130.7 | 2269.3 | 2367.4 | 2437.2 | 2480.0 |
| 47.5° | 849.6 | 1097.4 | 1369.4 | 1646.9 | 1917.2 | 2132.8 | 2299.6 | 2416.2 | 2505.2 | 2556.5 | 2591.0 |
| 45° | 958.7 | 1227.9 | 1516.2 | 1800.6 | 2072.5 | 2300.6 | 2445.0 | 2556.6 | 2622.6 | 2668.3 | 2684.2 |
| 42.5° | 1060.4 | 1354.1 | 1651.4 | 1946.2 | 2207.3 | 2436.8 | 2584.9 | 2673.1 | 2734.4 | 2762.7 | 2773.5 |
| 40° | 1166.0 | 1471.7 | 1778.2 | 2066.4 | 2328.7 | 2541.4 | 2702.7 | 2786.9 | 2829.3 | 2851.2 | 2858.7 |
| 37.5° | 1265.3 | 1580.4 | 1893.8 | 2181.1 | 2423.8 | 2629.5 | 2798.3 | 2880.5 | 2917.8 | 2936.2 | 2931.5 |
| 35° | 1356.5 | 1681.4 | 1993.5 | 2276.9 | 2516.2 | 2706.3 | 2854.2 | 2966.9 | 3001.3 | 3008.4 | 3003.3 |
| 32.5° | 1440.6 | 1774.4 | 2087.1 | 2358.1 | 2587.2 | 2774.1 | 2908.8 | 3009.1 | 3074.9 | 3080.1 | 3071.6 |
| 30° | 1517.7 | 1853.7 | 2169.2 | 2435.4 | 2654.8 | 2823.8 | 2952.0 | 3049.0 | 3115.0 | 3145.7 | 3133.5 |
| 27.5° | 1587.1 | 1925.9 | 2234.0 | 2497.2 | 2715.5 | 2873.0 | 2991.5 | 3078.0 | 3140.7 | 3185.6 | 3192.3 |
| 25° | 1648.5 | 1991.4 | 2294.0 | 2551.9 | 2757.3 | 2911.1 | 3027.3 | 3107.6 | 3164.6 | 3203.2 | 3224.6 |
| 22.5° | 1701.0 | 2049.5 | 2348.8 | 2603.2 | 2797.3 | 2944.6 | 3052.8 | 3130.0 | 3185.6 | 3222.2 | 3236.7 |
| 20° | 1745.4 | 2091.0 | 2392.3 | 2647.4 | 2835.0 | 2976.8 | 3077.6 | 3150.9 | 3203.1 | 3233.5 | 3249.6 |
| 17.5° | 1782.6 | 2126.6 | 2426.8 | 2675.1 | 2861.1 | 3001.7 | 3100.4 | 3171.3 | 3221.3 | 3245.2 | 3263.6 |
| 15° | 1812.4 | 2155.9 | 2456.2 | 2699.3 | 2882.8 | 3019.2 | 3115.9 | 3186.5 | 3234.9 | 3257.3 | 3278.4 |
| 12.5° | 1834.5 | 2178.4 | 2480.0 | 2719.4 | 2901.4 | 3034.7 | 3130.1 | 3200.5 | 3244.7 | 3269.9 | 3286.4 |
| 10° | 1848.7 | 2193.9 | 2497.6 | 2734.9 | 2916.4 | 3047.6 | 3142.3 | 3213.5 | 3254.1 | 3282.6 | 3294.6 |
| 7.5° | 1854.8 | 2201.9 | 2508.4 | 2745.1 | 2927.2 | 3057.5 | 3152.3 | 3225.2 | 3262.9 | 3294.9 | 3302.9 |
| 5° | 1852.6 | 2202.0 | 2512.0 | 2749.6 | 2933.4 | 3064.0 | 3159.6 | 3235.0 | 3270.8 | 3306.3 | 3311.3 |
| 2.5° | 1842.1 | 2193.8 | 2507.7 | 2747.8 | 2934.3 | 3066.5 | 3163.8 | 3242.2 | 3277.4 | 3316.5 | 3319.6 |
| 0° | 1822.9 | 2177.0 | 2495.0 | 2739.0 | 2929.3 | 3064.4 | 3164.4 | 3246.4 | 3282.7 | 3325.0 | 3327.9 |
| -2.5° | 1842.1 | 2193.8 | 2507.7 | 2747.8 | 2934.3 | 3066.5 | 3163.8 | 3242.2 | 3277.4 | 3316.5 | 3319.6 |
| -5° | 1852.6 | 2202.0 | 2512.0 | 2749.6 | 2933.4 | 3064.0 | 3159.6 | 3235.0 | 3270.8 | 3306.3 | 3311.3 |
| -7.5° | 1854.8 | 2201.9 | 2508.4 | 2745.1 | 2927.2 | 3057.5 | 3152.3 | 3225.2 | 3262.9 | 3294.9 | 3302.9 |
| -10° | 1848.7 | 2193.9 | 2497.6 | 2734.9 | 2916.4 | 3047.6 | 3142.3 | 3213.5 | 3254.1 | 3282.6 | 3294.6 |
| -12.5° | 1834.5 | 2178.4 | 2480.0 | 2719.4 | 2901.4 | 3034.7 | 3130.1 | 3200.5 | 3244.7 | 3269.9 | 3286.4 |
| -15° | 1812.4 | 2155.9 | 2456.2 | 2699.3 | 2882.8 | 3019.2 | 3115.9 | 3186.5 | 3234.9 | 3257.3 | 3278.4 |
| -17.5° | 1782.6 | 2126.6 | 2426.8 | 2675.1 | 2861.1 | 3001.7 | 3100.4 | 3171.3 | 3221.3 | 3245.2 | 3263.6 |
| -20° | 1745.4 | 2091.0 | 2392.3 | 2647.4 | 2835.0 | 2976.8 | 3077.6 | 3150.9 | 3203.1 | 3233.5 | 3249.6 |



REPORT NUMBER: P670562 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLL100FSUNVDBZK-80W-5000K

CANDELA DISTRIBUTION (continued):

| | -62.5° | -60° | -57.5° | -55° | -52.5° | -50° | -47.5° | -45° | -42.5° | -40° | -37.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| -22.5° | 1701.0 | 2049.5 | 2348.8 | 2603.2 | 2797.3 | 2944.6 | 3052.8 | 3130.0 | 3185.6 | 3222.2 | 3236.7 |
| -25° | 1648.5 | 1991.4 | 2294.0 | 2551.9 | 2757.3 | 2911.1 | 3027.3 | 3107.6 | 3164.6 | 3203.2 | 3224.6 |
| -27.5° | 1587.1 | 1925.9 | 2234.0 | 2497.2 | 2715.5 | 2873.0 | 2991.5 | 3078.0 | 3140.7 | 3185.6 | 3192.3 |
| -30° | 1517.7 | 1853.7 | 2169.2 | 2435.4 | 2654.8 | 2823.8 | 2952.0 | 3049.0 | 3115.0 | 3145.7 | 3133.5 |
| -32.5° | 1440.6 | 1774.4 | 2087.1 | 2358.1 | 2587.2 | 2774.1 | 2908.8 | 3009.1 | 3074.9 | 3080.1 | 3071.6 |
| -35° | 1356.5 | 1681.4 | 1993.5 | 2276.9 | 2516.2 | 2706.3 | 2854.2 | 2966.9 | 3001.3 | 3008.4 | 3003.3 |
| -37.5° | 1265.3 | 1580.4 | 1893.8 | 2181.1 | 2423.8 | 2629.5 | 2798.3 | 2880.5 | 2917.8 | 2936.2 | 2931.5 |
| -40° | 1166.0 | 1471.7 | 1778.2 | 2066.4 | 2328.7 | 2541.4 | 2702.7 | 2786.9 | 2829.3 | 2851.2 | 2858.7 |
| -42.5° | 1060.4 | 1354.1 | 1651.4 | 1946.2 | 2207.3 | 2436.8 | 2584.9 | 2673.1 | 2734.4 | 2762.7 | 2773.5 |
| -45° | 958.7 | 1227.9 | 1516.2 | 1800.6 | 2072.5 | 2300.6 | 2445.0 | 2556.6 | 2622.6 | 2668.3 | 2684.2 |
| -47.5° | 849.6 | 1097.4 | 1369.4 | 1646.9 | 1917.2 | 2132.8 | 2299.6 | 2416.2 | 2505.2 | 2556.5 | 2591.0 |
| -50° | 739.6 | 969.2 | 1214.0 | 1479.7 | 1739.0 | 1955.9 | 2130.7 | 2269.3 | 2367.4 | 2437.2 | 2480.0 |
| -52.5° | 640.9 | 833.5 | 1062.2 | 1301.8 | 1549.1 | 1767.1 | 1952.6 | 2103.3 | 2217.9 | 2305.0 | 2359.1 |
| -55° | 536.4 | 711.5 | 905.2 | 1124.8 | 1356.4 | 1574.2 | 1765.0 | 1923.8 | 2058.3 | 2153.5 | 2228.6 |
| -57.5° | 448.7 | 588.7 | 758.1 | 949.8 | 1169.7 | 1379.3 | 1570.6 | 1739.7 | 1878.4 | 1993.6 | 2084.3 |
| -60° | 370.6 | 480.6 | 615.4 | 791.1 | 982.9 | 1183.7 | 1374.9 | 1546.6 | 1695.9 | 1825.0 | 1926.1 |
| -62.5° | 294.5 | 392.4 | 494.4 | 638.4 | 815.3 | 989.1 | 1168.6 | 1342.9 | 1508.1 | 1644.6 | 1761.5 |
| -65° | 235.5 | 307.8 | 396.0 | 520.5 | 651.4 | 811.6 | 971.8 | 1128.5 | 1286.4 | 1437.0 | 1579.3 |
| -67.5° | 173.9 | 237.8 | 310.7 | 411.9 | 529.7 | 652.8 | 780.6 | 927.0 | 1070.4 | 1210.3 | 1346.6 |
| -70° | 137.2 | 169.9 | 232.0 | 318.0 | 410.3 | 511.6 | 624.6 | 741.3 | 861.4 | 986.2 | 1113.4 |
| -72.5° | 104.6 | 132.3 | 171.8 | 224.8 | 301.5 | 385.4 | 474.1 | 567.1 | 668.0 | 774.2 | 882.3 |
| -75° | 83.6 | 95.0 | 127.8 | 171.5 | 219.7 | 272.1 | 330.9 | 407.9 | 488.1 | 571.1 | 656.7 |
| -77.5° | 71.6 | 81.6 | 99.7 | 123.8 | 153.2 | 194.5 | 239.1 | 286.6 | 337.0 | 389.8 | 444.8 |
| -80° | 59.8 | 67.9 | 80.8 | 97.5 | 117.2 | 139.6 | 164.8 | 192.4 | 222.3 | 257.8 | 298.6 |
| -82.5° | 48.2 | 54.6 | 63.1 | 73.0 | 84.0 | 96.1 | 109.9 | 127.1 | 146.0 | 166.5 | 188.3 |
| -85° | 35.4 | 41.1 | 45.7 | 51.0 | 57.1 | 64.0 | 71.4 | 79.5 | 88.2 | 97.4 | 107.0 |
| -87.5° | 17.8 | 20.6 | 23.2 | 26.0 | 28.9 | 31.9 | 34.8 | 37.9 | 41.1 | 44.3 | 47.6 |
| -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: P670562 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLL100FSUNVDBZK-80W-5000K

CANDELA DISTRIBUTION (continued):

| | -35° | -32.5° | -30° | -27.5° | -25° | -22.5° | -20° | -17.5° | -15° | -12.5° | -10° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 50.8 | 54.0 | 57.3 | 56.3 | 54.9 | 53.3 | 51.5 | 49.6 | 47.4 | 45.2 | 42.8 |
| 85° | 117.0 | 127.3 | 137.9 | 135.1 | 130.9 | 125.9 | 120.3 | 113.9 | 107.1 | 99.7 | 91.9 |
| 82.5° | 211.4 | 235.5 | 260.5 | 257.2 | 249.0 | 239.0 | 227.0 | 213.5 | 198.3 | 182.0 | 164.5 |
| 80° | 340.7 | 384.1 | 428.4 | 427.3 | 414.4 | 397.8 | 377.9 | 355.0 | 329.2 | 301.0 | 270.8 |
| 77.5° | 509.7 | 580.1 | 651.4 | 660.6 | 644.5 | 621.9 | 593.4 | 559.4 | 520.5 | 477.2 | 430.1 |
| 75° | 744.3 | 834.4 | 927.5 | 946.7 | 920.5 | 886.3 | 844.7 | 796.2 | 741.5 | 681.3 | 616.2 |
| 72.5° | 991.9 | 1102.5 | 1212.6 | 1243.4 | 1202.4 | 1153.1 | 1096.0 | 1031.8 | 961.1 | 884.5 | 802.7 |
| 70° | 1236.9 | 1356.8 | 1472.9 | 1523.0 | 1469.9 | 1408.9 | 1340.4 | 1264.7 | 1182.5 | 1094.3 | 1000.7 |
| 67.5° | 1477.1 | 1600.3 | 1716.3 | 1788.5 | 1714.5 | 1629.1 | 1541.2 | 1450.7 | 1357.7 | 1261.9 | 1163.4 |
| 65° | 1703.0 | 1798.0 | 1879.4 | 1941.1 | 1860.9 | 1773.6 | 1684.5 | 1593.6 | 1500.5 | 1405.3 | 1307.6 |
| 62.5° | 1861.5 | 1940.6 | 2001.5 | 2048.1 | 1984.6 | 1899.6 | 1812.1 | 1723.5 | 1633.2 | 1541.2 | 1447.1 |
| 60° | 2008.3 | 2072.6 | 2113.8 | 2140.7 | 2096.8 | 2015.2 | 1931.4 | 1846.7 | 1760.8 | 1673.3 | 1583.9 |
| 57.5° | 2147.0 | 2192.7 | 2220.2 | 2230.6 | 2201.8 | 2124.0 | 2044.3 | 1963.2 | 1881.9 | 1799.6 | 1715.8 |
| 55° | 2277.4 | 2305.7 | 2320.3 | 2317.5 | 2296.0 | 2220.9 | 2146.4 | 2071.3 | 1996.1 | 1920.3 | 1843.0 |
| 52.5° | 2397.5 | 2410.3 | 2410.3 | 2398.3 | 2374.6 | 2311.4 | 2242.8 | 2174.4 | 2105.8 | 2036.5 | 1965.8 |
| 50° | 2501.5 | 2506.8 | 2495.4 | 2475.8 | 2447.6 | 2398.2 | 2335.8 | 2273.0 | 2209.5 | 2145.9 | 2081.4 |
| 47.5° | 2597.7 | 2593.8 | 2577.4 | 2553.4 | 2521.8 | 2477.7 | 2419.0 | 2362.3 | 2307.6 | 2252.1 | 2195.1 |
| 45° | 2687.3 | 2676.6 | 2657.0 | 2625.9 | 2589.8 | 2551.7 | 2503.5 | 2455.0 | 2403.8 | 2352.5 | 2300.8 |
| 42.5° | 2771.2 | 2753.9 | 2728.3 | 2698.1 | 2664.8 | 2625.5 | 2578.8 | 2532.6 | 2488.6 | 2444.6 | 2399.4 |
| 40° | 2846.0 | 2826.7 | 2801.5 | 2771.1 | 2731.6 | 2689.6 | 2648.8 | 2610.6 | 2572.5 | 2533.2 | 2492.8 |
| 37.5° | 2918.6 | 2898.8 | 2869.4 | 2834.0 | 2796.8 | 2759.2 | 2719.9 | 2684.2 | 2650.6 | 2614.9 | 2578.6 |
| 35° | 2989.1 | 2963.0 | 2931.7 | 2897.1 | 2862.2 | 2825.9 | 2787.9 | 2750.4 | 2719.8 | 2689.1 | 2657.6 |
| 32.5° | 3051.3 | 3023.7 | 2991.3 | 2958.4 | 2925.0 | 2887.4 | 2849.8 | 2811.4 | 2783.6 | 2757.0 | 2728.8 |
| 30° | 3110.9 | 3080.1 | 3049.0 | 3017.1 | 2980.4 | 2944.6 | 2909.0 | 2872.0 | 2840.7 | 2817.4 | 2794.0 |
| 27.5° | 3164.4 | 3134.9 | 3104.4 | 3068.3 | 3033.7 | 3000.0 | 2963.5 | 2928.3 | 2893.9 | 2874.8 | 2853.6 |
| 25° | 3216.8 | 3188.4 | 3152.6 | 3118.4 | 3085.2 | 3048.7 | 3013.5 | 2980.5 | 2946.5 | 2920.2 | 2902.3 |
| 22.5° | 3247.6 | 3234.9 | 3200.0 | 3167.6 | 3129.9 | 3093.3 | 3059.2 | 3026.2 | 2992.0 | 2959.2 | 2944.4 |
| 20° | 3260.1 | 3256.8 | 3247.2 | 3209.7 | 3170.9 | 3134.2 | 3101.5 | 3064.2 | 3030.5 | 3005.2 | 2986.5 |
| 17.5° | 3268.2 | 3266.7 | 3262.3 | 3249.6 | 3208.2 | 3174.3 | 3133.9 | 3096.8 | 3071.7 | 3041.7 | 3012.9 |
| 15° | 3276.6 | 3277.1 | 3268.0 | 3253.6 | 3239.0 | 3207.0 | 3160.4 | 3133.2 | 3099.5 | 3070.5 | 3050.6 |
| 12.5° | 3286.2 | 3285.6 | 3274.2 | 3260.1 | 3245.5 | 3215.6 | 3194.2 | 3158.4 | 3123.4 | 3100.0 | 3074.9 |
| 10° | 3296.2 | 3292.5 | 3281.5 | 3267.1 | 3245.6 | 3216.7 | 3200.8 | 3173.7 | 3147.7 | 3118.4 | 3093.8 |
| 7.5° | 3306.3 | 3300.1 | 3290.7 | 3273.7 | 3246.4 | 3221.8 | 3198.1 | 3173.4 | 3154.1 | 3134.1 | 3108.2 |
| 5° | 3316.4 | 3308.4 | 3301.3 | 3280.3 | 3250.4 | 3226.6 | 3198.0 | 3173.6 | 3149.5 | 3128.7 | 3110.9 |
| 2.5° | 3326.2 | 3317.4 | 3313.1 | 3287.6 | 3257.5 | 3231.9 | 3200.7 | 3175.1 | 3146.3 | 3123.9 | 3104.4 |
| 0° | 3335.7 | 3327.0 | 3325.5 | 3296.6 | 3267.6 | 3239.2 | 3207.0 | 3179.0 | 3146.3 | 3122.2 | 3102.0 |
| -2.5° | 3326.2 | 3317.4 | 3313.1 | 3287.6 | 3257.5 | 3231.9 | 3200.7 | 3175.1 | 3146.3 | 3123.9 | 3104.4 |
| -5° | 3316.4 | 3308.4 | 3301.3 | 3280.3 | 3250.4 | 3226.6 | 3198.0 | 3173.6 | 3149.5 | 3128.7 | 3110.9 |
| -7.5° | 3306.3 | 3300.1 | 3290.7 | 3273.7 | 3246.4 | 3221.8 | 3198.1 | 3173.4 | 3154.1 | 3134.1 | 3108.2 |
| -10° | 3296.2 | 3292.5 | 3281.5 | 3267.1 | 3245.6 | 3216.7 | 3200.8 | 3173.7 | 3147.7 | 3118.4 | 3093.8 |
| -12.5° | 3286.2 | 3285.6 | 3274.2 | 3260.1 | 3245.5 | 3215.6 | 3194.2 | 3158.4 | 3123.4 | 3100.0 | 3074.9 |
| -15° | 3276.6 | 3277.1 | 3268.0 | 3253.6 | 3239.0 | 3207.0 | 3160.4 | 3133.2 | 3099.5 | 3070.5 | 3050.6 |
| -17.5° | 3268.2 | 3266.7 | 3262.3 | 3249.6 | 3208.2 | 3174.3 | 3133.9 | 3096.8 | 3071.7 | 3041.7 | 3012.9 |
| -20° | 3260.1 | 3256.8 | 3247.2 | 3209.7 | 3170.9 | 3134.2 | 3101.5 | 3064.2 | 3030.5 | 3005.2 | 2986.5 |



REPORT NUMBER: P670562 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLL100FSUNVDBZK-80W-5000K

CANDELA DISTRIBUTION (continued):

| | -35° | -32.5° | -30° | -27.5° | -25° | -22.5° | -20° | -17.5° | -15° | -12.5° | -10° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| -22.5° | 3247.6 | 3234.9 | 3200.0 | 3167.6 | 3129.9 | 3093.3 | 3059.2 | 3026.2 | 2992.0 | 2959.2 | 2944.4 |
| -25° | 3216.8 | 3188.4 | 3152.6 | 3118.4 | 3085.2 | 3048.7 | 3013.5 | 2980.5 | 2946.5 | 2920.2 | 2902.3 |
| -27.5° | 3164.4 | 3134.9 | 3104.4 | 3068.3 | 3033.7 | 3000.0 | 2963.5 | 2928.3 | 2893.9 | 2874.8 | 2853.6 |
| -30° | 3110.9 | 3080.1 | 3049.0 | 3017.1 | 2980.4 | 2944.6 | 2909.0 | 2872.0 | 2840.7 | 2817.4 | 2794.0 |
| -32.5° | 3051.3 | 3023.7 | 2991.3 | 2958.4 | 2925.0 | 2887.4 | 2849.8 | 2811.4 | 2783.6 | 2757.0 | 2728.8 |
| -35° | 2989.1 | 2963.0 | 2931.7 | 2897.1 | 2862.2 | 2825.9 | 2787.9 | 2750.4 | 2719.8 | 2689.1 | 2657.6 |
| -37.5° | 2918.6 | 2898.8 | 2869.4 | 2834.0 | 2796.8 | 2759.2 | 2719.9 | 2684.2 | 2650.6 | 2614.9 | 2578.6 |
| -40° | 2846.0 | 2826.7 | 2801.5 | 2771.1 | 2731.6 | 2689.6 | 2648.8 | 2610.6 | 2572.5 | 2533.2 | 2492.8 |
| -42.5° | 2771.2 | 2753.9 | 2728.3 | 2698.1 | 2664.8 | 2625.5 | 2578.8 | 2532.6 | 2488.6 | 2444.6 | 2399.4 |
| -45° | 2687.3 | 2676.6 | 2657.0 | 2625.9 | 2589.8 | 2551.7 | 2503.5 | 2455.0 | 2403.8 | 2352.5 | 2300.8 |
| -47.5° | 2597.7 | 2593.8 | 2577.4 | 2553.4 | 2521.8 | 2477.7 | 2419.0 | 2362.3 | 2307.6 | 2252.1 | 2195.1 |
| -50° | 2501.5 | 2506.8 | 2495.4 | 2475.8 | 2447.6 | 2398.2 | 2335.8 | 2273.0 | 2209.5 | 2145.9 | 2081.4 |
| -52.5° | 2397.5 | 2410.3 | 2410.3 | 2398.3 | 2374.6 | 2311.4 | 2242.8 | 2174.4 | 2105.8 | 2036.5 | 1965.8 |
| -55° | 2277.4 | 2305.7 | 2320.3 | 2317.5 | 2296.0 | 2220.9 | 2146.4 | 2071.3 | 1996.1 | 1920.3 | 1843.0 |
| -57.5° | 2147.0 | 2192.7 | 2220.2 | 2230.6 | 2201.8 | 2124.0 | 2044.3 | 1963.2 | 1881.9 | 1799.6 | 1715.8 |
| -60° | 2008.3 | 2072.6 | 2113.8 | 2140.7 | 2096.8 | 2015.2 | 1931.4 | 1846.7 | 1760.8 | 1673.3 | 1583.9 |
| -62.5° | 1861.5 | 1940.6 | 2001.5 | 2048.1 | 1984.6 | 1899.6 | 1812.1 | 1723.5 | 1633.2 | 1541.2 | 1447.1 |
| -65° | 1703.0 | 1798.0 | 1879.4 | 1941.1 | 1860.9 | 1773.6 | 1684.5 | 1593.6 | 1500.5 | 1405.3 | 1307.6 |
| -67.5° | 1477.1 | 1600.3 | 1716.3 | 1788.5 | 1714.5 | 1629.1 | 1541.2 | 1450.7 | 1357.7 | 1261.9 | 1163.4 |
| -70° | 1236.9 | 1356.8 | 1472.9 | 1523.0 | 1469.9 | 1408.9 | 1340.4 | 1264.7 | 1182.5 | 1094.3 | 1000.7 |
| -72.5° | 991.9 | 1102.5 | 1212.6 | 1243.4 | 1202.4 | 1153.1 | 1096.0 | 1031.8 | 961.1 | 884.5 | 802.7 |
| -75° | 744.3 | 834.4 | 927.5 | 946.7 | 920.5 | 886.3 | 844.7 | 796.2 | 741.5 | 681.3 | 616.2 |
| -77.5° | 509.7 | 580.1 | 651.4 | 660.6 | 644.5 | 621.9 | 593.4 | 559.4 | 520.5 | 477.2 | 430.1 |
| -80° | 340.7 | 384.1 | 428.4 | 427.3 | 414.4 | 397.8 | 377.9 | 355.0 | 329.2 | 301.0 | 270.8 |
| -82.5° | 211.4 | 235.5 | 260.5 | 257.2 | 249.0 | 239.0 | 227.0 | 213.5 | 198.3 | 182.0 | 164.5 |
| -85° | 117.0 | 127.3 | 137.9 | 135.1 | 130.9 | 125.9 | 120.3 | 113.9 | 107.1 | 99.7 | 91.9 |
| -87.5° | 50.8 | 54.0 | 57.3 | 56.3 | 54.9 | 53.3 | 51.5 | 49.6 | 47.4 | 45.2 | 42.8 |
| -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: P670562 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLL100FSUNVDBZK-80W-5000K

CANDELA DISTRIBUTION (continued):

| | -7.5° | -5° | -2.5° | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 40.3 | 37.6 | 34.9 | 32.0 | 34.9 | 37.6 | 40.3 | 42.8 | 45.2 | 47.4 | 49.6 |
| 85° | 83.7 | 75.3 | 66.6 | 57.7 | 66.6 | 75.3 | 83.7 | 91.9 | 99.7 | 107.1 | 113.9 |
| 82.5° | 146.1 | 126.9 | 107.2 | 87.0 | 107.2 | 126.9 | 146.1 | 164.5 | 182.0 | 198.3 | 213.5 |
| 80° | 238.8 | 205.4 | 170.8 | 135.5 | 170.8 | 205.4 | 238.8 | 270.8 | 301.0 | 329.2 | 355.0 |
| 77.5° | 379.9 | 326.9 | 272.1 | 215.7 | 272.1 | 326.9 | 379.9 | 430.1 | 477.2 | 520.5 | 559.4 |
| 75° | 546.9 | 474.2 | 398.7 | 321.3 | 398.7 | 474.2 | 546.9 | 616.2 | 681.3 | 741.5 | 796.2 |
| 72.5° | 716.3 | 626.1 | 532.7 | 437.1 | 532.7 | 626.1 | 716.3 | 802.7 | 884.5 | 961.1 | 1031.8 |
| 70° | 902.1 | 799.3 | 692.9 | 583.5 | 692.9 | 799.3 | 902.1 | 1000.7 | 1094.3 | 1182.5 | 1264.7 |
| 67.5° | 1062.2 | 958.1 | 851.2 | 741.5 | 851.2 | 958.1 | 1062.2 | 1163.4 | 1261.9 | 1357.7 | 1450.7 |
| 65° | 1207.4 | 1104.6 | 999.0 | 890.4 | 999.0 | 1104.6 | 1207.4 | 1307.6 | 1405.3 | 1500.5 | 1593.6 |
| 62.5° | 1350.6 | 1251.5 | 1149.4 | 1044.0 | 1149.4 | 1251.5 | 1350.6 | 1447.1 | 1541.2 | 1633.2 | 1723.5 |
| 60° | 1492.0 | 1397.4 | 1299.6 | 1198.3 | 1299.6 | 1397.4 | 1492.0 | 1583.9 | 1673.3 | 1760.8 | 1846.7 |
| 57.5° | 1630.0 | 1541.5 | 1449.8 | 1354.4 | 1449.8 | 1541.5 | 1630.0 | 1715.8 | 1799.6 | 1881.9 | 1963.2 |
| 55° | 1763.8 | 1681.9 | 1596.6 | 1507.4 | 1596.6 | 1681.9 | 1763.8 | 1843.0 | 1920.3 | 1996.1 | 2071.3 |
| 52.5° | 1893.1 | 1817.4 | 1738.3 | 1654.9 | 1738.3 | 1817.4 | 1893.1 | 1965.8 | 2036.5 | 2105.8 | 2174.4 |
| 50° | 2015.3 | 1946.5 | 1874.2 | 1797.6 | 1874.2 | 1946.5 | 2015.3 | 2081.4 | 2145.9 | 2209.5 | 2273.0 |
| 47.5° | 2135.9 | 2073.6 | 2007.4 | 1936.5 | 2007.4 | 2073.6 | 2135.9 | 2195.1 | 2252.1 | 2307.6 | 2362.3 |
| 45° | 2247.6 | 2191.9 | 2132.6 | 2068.6 | 2132.6 | 2191.9 | 2247.6 | 2300.8 | 2352.5 | 2403.8 | 2455.0 |
| 42.5° | 2352.0 | 2301.5 | 2247.1 | 2187.9 | 2247.1 | 2301.5 | 2352.0 | 2399.4 | 2444.6 | 2488.6 | 2532.6 |
| 40° | 2450.2 | 2404.8 | 2355.3 | 2301.0 | 2355.3 | 2404.8 | 2450.2 | 2492.8 | 2533.2 | 2572.5 | 2610.6 |
| 37.5° | 2540.7 | 2500.0 | 2455.5 | 2406.2 | 2455.5 | 2500.0 | 2540.7 | 2578.6 | 2614.9 | 2650.6 | 2684.2 |
| 35° | 2624.8 | 2589.3 | 2550.1 | 2505.9 | 2550.1 | 2589.3 | 2624.8 | 2657.6 | 2689.1 | 2719.8 | 2750.4 |
| 32.5° | 2699.1 | 2666.8 | 2630.9 | 2590.2 | 2630.9 | 2666.8 | 2699.1 | 2728.8 | 2757.0 | 2783.6 | 2811.4 |
| 30° | 2769.5 | 2742.7 | 2712.2 | 2676.5 | 2712.2 | 2742.7 | 2769.5 | 2794.0 | 2817.4 | 2840.7 | 2872.0 |
| 27.5° | 2832.4 | 2809.8 | 2784.3 | 2754.1 | 2784.3 | 2809.8 | 2832.4 | 2853.6 | 2874.8 | 2893.9 | 2928.3 |
| 25° | 2882.7 | 2861.3 | 2837.0 | 2808.6 | 2837.0 | 2861.3 | 2882.7 | 2902.3 | 2920.2 | 2946.5 | 2980.5 |
| 22.5° | 2930.6 | 2915.2 | 2896.5 | 2872.8 | 2896.5 | 2915.2 | 2930.6 | 2944.4 | 2959.2 | 2992.0 | 3026.2 |
| 20° | 2972.9 | 2961.4 | 2949.3 | 2933.3 | 2949.3 | 2961.4 | 2972.9 | 2986.5 | 3005.2 | 3030.5 | 3064.2 |
| 17.5° | 3005.9 | 2996.9 | 2984.0 | 2966.7 | 2984.0 | 2996.9 | 3005.9 | 3012.9 | 3041.7 | 3071.7 | 3096.8 |
| 15° | 3033.9 | 3022.9 | 3011.4 | 2997.4 | 3011.4 | 3022.9 | 3033.9 | 3050.6 | 3070.5 | 3099.5 | 3133.2 |
| 12.5° | 3053.9 | 3046.9 | 3041.2 | 3032.1 | 3041.2 | 3046.9 | 3053.9 | 3074.9 | 3100.0 | 3123.4 | 3158.4 |
| 10° | 3076.7 | 3058.8 | 3048.3 | 3037.8 | 3048.3 | 3058.8 | 3076.7 | 3093.8 | 3118.4 | 3147.7 | 3173.7 |
| 7.5° | 3084.2 | 3067.8 | 3064.1 | 3063.8 | 3064.1 | 3067.8 | 3084.2 | 3108.2 | 3134.1 | 3154.1 | 3173.4 |
| 5° | 3092.9 | 3077.5 | 3072.1 | 3065.1 | 3072.1 | 3077.5 | 3092.9 | 3110.9 | 3128.7 | 3149.5 | 3173.6 |
| 2.5° | 3087.1 | 3074.4 | 3067.7 | 3071.6 | 3067.7 | 3074.4 | 3087.1 | 3104.4 | 3123.9 | 3146.3 | 3175.1 |
| 0° | 3076.9 | 3067.6 | 3055.3 | 3059.4 | 3055.3 | 3067.6 | 3076.9 | 3102.0 | 3122.2 | 3146.3 | 3179.0 |
| -2.5° | 3087.1 | 3074.4 | 3067.7 | 3071.6 | 3067.7 | 3074.4 | 3087.1 | 3104.4 | 3123.9 | 3146.3 | 3175.1 |
| -5° | 3092.9 | 3077.5 | 3072.1 | 3065.1 | 3072.1 | 3077.5 | 3092.9 | 3110.9 | 3128.7 | 3149.5 | 3173.6 |
| -7.5° | 3084.2 | 3067.8 | 3064.1 | 3063.8 | 3064.1 | 3067.8 | 3084.2 | 3108.2 | 3134.1 | 3154.1 | 3173.4 |
| -10° | 3076.7 | 3058.8 | 3048.3 | 3037.8 | 3048.3 | 3058.8 | 3076.7 | 3093.8 | 3118.4 | 3147.7 | 3173.7 |
| -12.5° | 3053.9 | 3046.9 | 3041.2 | 3032.1 | 3041.2 | 3046.9 | 3053.9 | 3074.9 | 3100.0 | 3123.4 | 3158.4 |
| -15° | 3033.9 | 3022.9 | 3011.4 | 2997.4 | 3011.4 | 3022.9 | 3033.9 | 3050.6 | 3070.5 | 3099.5 | 3133.2 |
| -17.5° | 3005.9 | 2996.9 | 2984.0 | 2966.7 | 2984.0 | 2996.9 | 3005.9 | 3012.9 | 3041.7 | 3071.7 | 3096.8 |
| -20° | 2972.9 | 2961.4 | 2949.3 | 2933.3 | 2949.3 | 2961.4 | 2972.9 | 2986.5 | 3005.2 | 3030.5 | 3064.2 |

Classified

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

Scaled Data Report



REPORT NUMBER: P670562 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: GFLL100FSUNVDBZK-80W-5000K

CANDELA DISTRIBUTION (continued):

| | -7.5° | -5° | -2.5° | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| -22.5° | 2930.6 | 2915.2 | 2896.5 | 2872.8 | 2896.5 | 2915.2 | 2930.6 | 2944.4 | 2959.2 | 2992.0 | 3026.2 |
| -25° | 2882.7 | 2861.3 | 2837.0 | 2808.6 | 2837.0 | 2861.3 | 2882.7 | 2902.3 | 2920.2 | 2946.5 | 2980.5 |
| -27.5° | 2832.4 | 2809.8 | 2784.3 | 2754.1 | 2784.3 | 2809.8 | 2832.4 | 2853.6 | 2874.8 | 2893.9 | 2928.3 |
| -30° | 2769.5 | 2742.7 | 2712.2 | 2676.5 | 2712.2 | 2742.7 | 2769.5 | 2794.0 | 2817.4 | 2840.7 | 2872.0 |
| -32.5° | 2699.1 | 2666.8 | 2630.9 | 2590.2 | 2630.9 | 2666.8 | 2699.1 | 2728.8 | 2757.0 | 2783.6 | 2811.4 |
| -35° | 2624.8 | 2589.3 | 2550.1 | 2505.9 | 2550.1 | 2589.3 | 2624.8 | 2657.6 | 2689.1 | 2719.8 | 2750.4 |
| -37.5° | 2540.7 | 2500.0 | 2455.5 | 2406.2 | 2455.5 | 2500.0 | 2540.7 | 2578.6 | 2614.9 | 2650.6 | 2684.2 |
| -40° | 2450.2 | 2404.8 | 2355.3 | 2301.0 | 2355.3 | 2404.8 | 2450.2 | 2492.8 | 2533.2 | 2572.5 | 2610.6 |
| -42.5° | 2352.0 | 2301.5 | 2247.1 | 2187.9 | 2247.1 | 2301.5 | 2352.0 | 2399.4 | 2444.6 | 2488.6 | 2532.6 |
| -45° | 2247.6 | 2191.9 | 2132.6 | 2068.6 | 2132.6 | 2191.9 | 2247.6 | 2300.8 | 2352.5 | 2403.8 | 2455.0 |
| -47.5° | 2135.9 | 2073.6 | 2007.4 | 1936.5 | 2007.4 | 2073.6 | 2135.9 | 2195.1 | 2252.1 | 2307.6 | 2362.3 |
| -50° | 2015.3 | 1946.5 | 1874.2 | 1797.6 | 1874.2 | 1946.5 | 2015.3 | 2081.4 | 2145.9 | 2209.5 | 2273.0 |
| -52.5° | 1893.1 | 1817.4 | 1738.3 | 1654.9 | 1738.3 | 1817.4 | 1893.1 | 1965.8 | 2036.5 | 2105.8 | 2174.4 |
| -55° | 1763.8 | 1681.9 | 1596.6 | 1507.4 | 1596.6 | 1681.9 | 1763.8 | 1843.0 | 1920.3 | 1996.1 | 2071.3 |
| -57.5° | 1630.0 | 1541.5 | 1449.8 | 1354.4 | 1449.8 | 1541.5 | 1630.0 | 1715.8 | 1799.6 | 1881.9 | 1963.2 |
| -60° | 1492.0 | 1397.4 | 1299.6 | 1198.3 | 1299.6 | 1397.4 | 1492.0 | 1583.9 | 1673.3 | 1760.8 | 1846.7 |
| -62.5° | 1350.6 | 1251.5 | 1149.4 | 1044.0 | 1149.4 | 1251.5 | 1350.6 | 1447.1 | 1541.2 | 1633.2 | 1723.5 |
| -65° | 1207.4 | 1104.6 | 999.0 | 890.4 | 999.0 | 1104.6 | 1207.4 | 1307.6 | 1405.3 | 1500.5 | 1593.6 |
| -67.5° | 1062.2 | 958.1 | 851.2 | 741.5 | 851.2 | 958.1 | 1062.2 | 1163.4 | 1261.9 | 1357.7 | 1450.7 |
| -70° | 902.1 | 799.3 | 692.9 | 583.5 | 692.9 | 799.3 | 902.1 | 1000.7 | 1094.3 | 1182.5 | 1264.7 |
| -72.5° | 716.3 | 626.1 | 532.7 | 437.1 | 532.7 | 626.1 | 716.3 | 802.7 | 884.5 | 961.1 | 1031.8 |
| -75° | 546.9 | 474.2 | 398.7 | 321.3 | 398.7 | 474.2 | 546.9 | 616.2 | 681.3 | 741.5 | 796.2 |
| -77.5° | 379.9 | 326.9 | 272.1 | 215.7 | 272.1 | 326.9 | 379.9 | 430.1 | 477.2 | 520.5 | 559.4 |
| -80° | 238.8 | 205.4 | 170.8 | 135.5 | 170.8 | 205.4 | 238.8 | 270.8 | 301.0 | 329.2 | 355.0 |
| -82.5° | 146.1 | 126.9 | 107.2 | 87.0 | 107.2 | 126.9 | 146.1 | 164.5 | 182.0 | 198.3 | 213.5 |
| -85° | 83.7 | 75.3 | 66.6 | 57.7 | 66.6 | 75.3 | 83.7 | 91.9 | 99.7 | 107.1 | 113.9 |
| -87.5° | 40.3 | 37.6 | 34.9 | 32.0 | 34.9 | 37.6 | 40.3 | 42.8 | 45.2 | 47.4 | 49.6 |
| -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: P670562 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLL100FSUNVDBZK-80W-5000K

CANDELA DISTRIBUTION (continued):

| | 20° | 22.5° | 25° | 27.5° | 30° | 32.5° | 35° | 37.5° | 40° | 42.5° | 45° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 51.5 | 53.3 | 54.9 | 56.3 | 57.3 | 54.0 | 50.8 | 47.6 | 44.3 | 41.1 | 37.9 |
| 85° | 120.3 | 125.9 | 130.9 | 135.1 | 137.9 | 127.3 | 117.0 | 107.0 | 97.4 | 88.2 | 79.5 |
| 82.5° | 227.0 | 239.0 | 249.0 | 257.2 | 260.5 | 235.5 | 211.4 | 188.3 | 166.5 | 146.0 | 127.1 |
| 80° | 377.9 | 397.8 | 414.4 | 427.3 | 428.4 | 384.1 | 340.7 | 298.6 | 257.8 | 222.3 | 192.4 |
| 77.5° | 593.4 | 621.9 | 644.5 | 660.6 | 651.4 | 580.1 | 509.7 | 444.8 | 389.8 | 337.0 | 286.6 |
| 75° | 844.7 | 886.3 | 920.5 | 946.7 | 927.5 | 834.4 | 744.3 | 656.7 | 571.1 | 488.1 | 407.9 |
| 72.5° | 1096.0 | 1153.1 | 1202.4 | 1243.4 | 1212.6 | 1102.5 | 991.9 | 882.3 | 774.2 | 668.0 | 567.1 |
| 70° | 1340.4 | 1408.9 | 1469.9 | 1523.0 | 1472.9 | 1356.8 | 1236.9 | 1113.4 | 986.2 | 861.4 | 741.3 |
| 67.5° | 1541.2 | 1629.1 | 1714.5 | 1788.5 | 1716.3 | 1600.3 | 1477.1 | 1346.6 | 1210.3 | 1070.4 | 927.0 |
| 65° | 1684.5 | 1773.6 | 1860.9 | 1941.1 | 1879.4 | 1798.0 | 1703.0 | 1579.3 | 1437.0 | 1286.4 | 1128.5 |
| 62.5° | 1812.1 | 1899.6 | 1984.6 | 2048.1 | 2001.5 | 1940.6 | 1861.5 | 1761.5 | 1644.6 | 1508.1 | 1342.9 |
| 60° | 1931.4 | 2015.2 | 2096.8 | 2140.7 | 2113.8 | 2072.6 | 2008.3 | 1926.1 | 1825.0 | 1695.9 | 1546.6 |
| 57.5° | 2044.3 | 2124.0 | 2201.8 | 2230.6 | 2220.2 | 2192.7 | 2147.0 | 2084.3 | 1993.6 | 1878.4 | 1739.7 |
| 55° | 2146.4 | 2220.9 | 2296.0 | 2317.5 | 2320.3 | 2305.7 | 2277.4 | 2228.6 | 2153.5 | 2058.3 | 1923.8 |
| 52.5° | 2242.8 | 2311.4 | 2374.6 | 2398.3 | 2410.3 | 2410.3 | 2397.5 | 2359.1 | 2305.0 | 2217.9 | 2103.3 |
| 50° | 2335.8 | 2398.2 | 2447.6 | 2475.8 | 2495.4 | 2506.8 | 2501.5 | 2480.0 | 2437.2 | 2367.4 | 2269.3 |
| 47.5° | 2419.0 | 2477.7 | 2521.8 | 2553.4 | 2577.4 | 2593.8 | 2597.7 | 2591.0 | 2556.5 | 2505.2 | 2416.2 |
| 45° | 2503.5 | 2551.7 | 2589.8 | 2625.9 | 2657.0 | 2676.6 | 2687.3 | 2684.2 | 2668.3 | 2622.6 | 2556.6 |
| 42.5° | 2578.8 | 2625.5 | 2664.8 | 2698.1 | 2728.3 | 2753.9 | 2771.2 | 2773.5 | 2762.7 | 2734.4 | 2673.1 |
| 40° | 2648.8 | 2689.6 | 2731.6 | 2771.1 | 2801.5 | 2826.7 | 2846.0 | 2858.7 | 2851.2 | 2829.3 | 2786.9 |
| 37.5° | 2719.9 | 2759.2 | 2796.8 | 2834.0 | 2869.4 | 2898.8 | 2918.6 | 2931.5 | 2936.2 | 2917.8 | 2880.5 |
| 35° | 2787.9 | 2825.9 | 2862.2 | 2897.1 | 2931.7 | 2963.0 | 2989.1 | 3003.3 | 3008.4 | 3001.3 | 2966.9 |
| 32.5° | 2849.8 | 2887.4 | 2925.0 | 2958.4 | 2991.3 | 3023.7 | 3051.3 | 3071.6 | 3080.1 | 3074.9 | 3009.1 |
| 30° | 2909.0 | 2944.6 | 2980.4 | 3017.1 | 3049.0 | 3080.1 | 3110.9 | 3133.5 | 3145.7 | 3115.0 | 3049.0 |
| 27.5° | 2963.5 | 3000.0 | 3033.7 | 3068.3 | 3104.4 | 3134.9 | 3164.4 | 3192.3 | 3185.6 | 3140.7 | 3078.0 |
| 25° | 3013.5 | 3048.7 | 3085.2 | 3118.4 | 3152.6 | 3188.4 | 3216.8 | 3224.6 | 3203.2 | 3164.6 | 3107.6 |
| 22.5° | 3059.2 | 3093.3 | 3129.9 | 3167.6 | 3200.0 | 3234.9 | 3247.6 | 3236.7 | 3222.2 | 3185.6 | 3130.0 |
| 20° | 3101.5 | 3134.2 | 3170.9 | 3209.7 | 3247.2 | 3256.8 | 3260.1 | 3249.6 | 3233.5 | 3203.1 | 3150.9 |
| 17.5° | 3133.9 | 3174.3 | 3208.2 | 3249.6 | 3262.3 | 3266.7 | 3268.2 | 3263.6 | 3245.2 | 3221.3 | 3171.3 |
| 15° | 3160.4 | 3207.0 | 3239.0 | 3253.6 | 3268.0 | 3277.1 | 3276.6 | 3278.4 | 3257.3 | 3234.9 | 3186.5 |
| 12.5° | 3194.2 | 3215.6 | 3245.5 | 3260.1 | 3274.2 | 3285.6 | 3286.2 | 3286.4 | 3269.9 | 3244.7 | 3200.5 |
| 10° | 3200.8 | 3216.7 | 3245.6 | 3267.1 | 3281.5 | 3292.5 | 3296.2 | 3294.6 | 3282.6 | 3254.1 | 3213.5 |
| 7.5° | 3198.1 | 3221.8 | 3246.4 | 3273.7 | 3290.7 | 3300.1 | 3306.3 | 3302.9 | 3294.9 | 3262.9 | 3225.2 |
| 5° | 3198.0 | 3226.6 | 3250.4 | 3280.3 | 3301.3 | 3308.4 | 3316.4 | 3311.3 | 3306.3 | 3270.8 | 3235.0 |
| 2.5° | 3200.7 | 3231.9 | 3257.5 | 3287.6 | 3313.1 | 3317.4 | 3326.2 | 3319.6 | 3316.5 | 3277.4 | 3242.2 |
| 0° | 3207.0 | 3239.2 | 3267.6 | 3296.6 | 3325.5 | 3327.0 | 3335.7 | 3327.9 | 3325.0 | 3282.7 | 3246.4 |
| -2.5° | 3200.7 | 3231.9 | 3257.5 | 3287.6 | 3313.1 | 3317.4 | 3326.2 | 3319.6 | 3316.5 | 3277.4 | 3242.2 |
| -5° | 3198.0 | 3226.6 | 3250.4 | 3280.3 | 3301.3 | 3308.4 | 3316.4 | 3311.3 | 3306.3 | 3270.8 | 3235.0 |
| -7.5° | 3198.1 | 3221.8 | 3246.4 | 3273.7 | 3290.7 | 3300.1 | 3306.3 | 3302.9 | 3294.9 | 3262.9 | 3225.2 |
| -10° | 3200.8 | 3216.7 | 3245.6 | 3267.1 | 3281.5 | 3292.5 | 3296.2 | 3294.6 | 3282.6 | 3254.1 | 3213.5 |
| -12.5° | 3194.2 | 3215.6 | 3245.5 | 3260.1 | 3274.2 | 3285.6 | 3286.2 | 3286.4 | 3269.9 | 3244.7 | 3200.5 |
| -15° | 3160.4 | 3207.0 | 3239.0 | 3253.6 | 3268.0 | 3277.1 | 3276.6 | 3278.4 | 3257.3 | 3234.9 | 3186.5 |
| -17.5° | 3133.9 | 3174.3 | 3208.2 | 3249.6 | 3262.3 | 3266.7 | 3268.2 | 3263.6 | 3245.2 | 3221.3 | 3171.3 |
| -20° | 3101.5 | 3134.2 | 3170.9 | 3209.7 | 3247.2 | 3256.8 | 3260.1 | 3249.6 | 3233.5 | 3203.1 | 3150.9 |



REPORT NUMBER: P670562 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLL100FSUNVDBZK-80W-5000K

CANDELA DISTRIBUTION (continued):

| | 20° | 22.5° | 25° | 27.5° | 30° | 32.5° | 35° | 37.5° | 40° | 42.5° | 45° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| -22.5° | 3059.2 | 3093.3 | 3129.9 | 3167.6 | 3200.0 | 3234.9 | 3247.6 | 3236.7 | 3222.2 | 3185.6 | 3130.0 |
| -25° | 3013.5 | 3048.7 | 3085.2 | 3118.4 | 3152.6 | 3188.4 | 3216.8 | 3224.6 | 3203.2 | 3164.6 | 3107.6 |
| -27.5° | 2963.5 | 3000.0 | 3033.7 | 3068.3 | 3104.4 | 3134.9 | 3164.4 | 3192.3 | 3185.6 | 3140.7 | 3078.0 |
| -30° | 2909.0 | 2944.6 | 2980.4 | 3017.1 | 3049.0 | 3080.1 | 3110.9 | 3133.5 | 3145.7 | 3115.0 | 3049.0 |
| -32.5° | 2849.8 | 2887.4 | 2925.0 | 2958.4 | 2991.3 | 3023.7 | 3051.3 | 3071.6 | 3080.1 | 3074.9 | 3009.1 |
| -35° | 2787.9 | 2825.9 | 2862.2 | 2897.1 | 2931.7 | 2963.0 | 2989.1 | 3003.3 | 3008.4 | 3001.3 | 2966.9 |
| -37.5° | 2719.9 | 2759.2 | 2796.8 | 2834.0 | 2869.4 | 2898.8 | 2918.6 | 2931.5 | 2936.2 | 2917.8 | 2880.5 |
| -40° | 2648.8 | 2689.6 | 2731.6 | 2771.1 | 2801.5 | 2826.7 | 2846.0 | 2858.7 | 2851.2 | 2829.3 | 2786.9 |
| -42.5° | 2578.8 | 2625.5 | 2664.8 | 2698.1 | 2728.3 | 2753.9 | 2771.2 | 2773.5 | 2762.7 | 2734.4 | 2673.1 |
| -45° | 2503.5 | 2551.7 | 2589.8 | 2625.9 | 2657.0 | 2676.6 | 2687.3 | 2684.2 | 2668.3 | 2622.6 | 2556.6 |
| -47.5° | 2419.0 | 2477.7 | 2521.8 | 2553.4 | 2577.4 | 2593.8 | 2597.7 | 2591.0 | 2556.5 | 2505.2 | 2416.2 |
| -50° | 2335.8 | 2398.2 | 2447.6 | 2475.8 | 2495.4 | 2506.8 | 2501.5 | 2480.0 | 2437.2 | 2367.4 | 2269.3 |
| -52.5° | 2242.8 | 2311.4 | 2374.6 | 2398.3 | 2410.3 | 2410.3 | 2397.5 | 2359.1 | 2305.0 | 2217.9 | 2103.3 |
| -55° | 2146.4 | 2220.9 | 2296.0 | 2317.5 | 2320.3 | 2305.7 | 2277.4 | 2228.6 | 2153.5 | 2058.3 | 1923.8 |
| -57.5° | 2044.3 | 2124.0 | 2201.8 | 2230.6 | 2220.2 | 2192.7 | 2147.0 | 2084.3 | 1993.6 | 1878.4 | 1739.7 |
| -60° | 1931.4 | 2015.2 | 2096.8 | 2140.7 | 2113.8 | 2072.6 | 2008.3 | 1926.1 | 1825.0 | 1695.9 | 1546.6 |
| -62.5° | 1812.1 | 1899.6 | 1984.6 | 2048.1 | 2001.5 | 1940.6 | 1861.5 | 1761.5 | 1644.6 | 1508.1 | 1342.9 |
| -65° | 1684.5 | 1773.6 | 1860.9 | 1941.1 | 1879.4 | 1798.0 | 1703.0 | 1579.3 | 1437.0 | 1286.4 | 1128.5 |
| -67.5° | 1541.2 | 1629.1 | 1714.5 | 1788.5 | 1716.3 | 1600.3 | 1477.1 | 1346.6 | 1210.3 | 1070.4 | 927.0 |
| -70° | 1340.4 | 1408.9 | 1469.9 | 1523.0 | 1472.9 | 1356.8 | 1236.9 | 1113.4 | 986.2 | 861.4 | 741.3 |
| -72.5° | 1096.0 | 1153.1 | 1202.4 | 1243.4 | 1212.6 | 1102.5 | 991.9 | 882.3 | 774.2 | 668.0 | 567.1 |
| -75° | 844.7 | 886.3 | 920.5 | 946.7 | 927.5 | 834.4 | 744.3 | 656.7 | 571.1 | 488.1 | 407.9 |
| -77.5° | 593.4 | 621.9 | 644.5 | 660.6 | 651.4 | 580.1 | 509.7 | 444.8 | 389.8 | 337.0 | 286.6 |
| -80° | 377.9 | 397.8 | 414.4 | 427.3 | 428.4 | 384.1 | 340.7 | 298.6 | 257.8 | 222.3 | 192.4 |
| -82.5° | 227.0 | 239.0 | 249.0 | 257.2 | 260.5 | 235.5 | 211.4 | 188.3 | 166.5 | 146.0 | 127.1 |
| -85° | 120.3 | 125.9 | 130.9 | 135.1 | 137.9 | 127.3 | 117.0 | 107.0 | 97.4 | 88.2 | 79.5 |
| -87.5° | 51.5 | 53.3 | 54.9 | 56.3 | 57.3 | 54.0 | 50.8 | 47.6 | 44.3 | 41.1 | 37.9 |
| -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: P670562 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLL100FSUNVDBZK-80W-5000K

CANDELA DISTRIBUTION (continued):

| | 47.5° | 50° | 52.5° | 55° | 57.5° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 34.8 | 31.9 | 28.9 | 26.0 | 23.2 | 20.6 | 17.8 | 15.1 | 12.6 | 10.3 | 8.2 |
| 85° | 71.4 | 64.0 | 57.1 | 51.0 | 45.7 | 41.1 | 35.4 | 30.1 | 25.2 | 20.6 | 16.4 |
| 82.5° | 109.9 | 96.1 | 84.0 | 73.0 | 63.1 | 54.6 | 48.2 | 42.0 | 36.1 | 30.5 | 24.5 |
| 80° | 164.8 | 139.6 | 117.2 | 97.5 | 80.8 | 67.9 | 59.8 | 52.0 | 44.7 | 37.7 | 31.1 |
| 77.5° | 239.1 | 194.5 | 153.2 | 123.8 | 99.7 | 81.6 | 71.6 | 62.1 | 53.0 | 44.7 | 36.9 |
| 75° | 330.9 | 272.1 | 219.7 | 171.5 | 127.8 | 95.0 | 83.6 | 72.5 | 61.9 | 51.6 | 42.5 |
| 72.5° | 474.1 | 385.4 | 301.5 | 224.8 | 171.8 | 132.3 | 104.6 | 82.8 | 70.8 | 59.2 | 48.2 |
| 70° | 624.6 | 511.6 | 410.3 | 318.0 | 232.0 | 169.9 | 137.2 | 107.2 | 79.8 | 66.7 | 54.4 |
| 67.5° | 780.6 | 652.8 | 529.7 | 411.9 | 310.7 | 237.8 | 173.9 | 134.2 | 102.6 | 74.1 | 60.4 |
| 65° | 971.8 | 811.6 | 651.4 | 520.5 | 396.0 | 307.8 | 235.5 | 168.1 | 124.5 | 92.4 | 66.2 |
| 62.5° | 1168.6 | 989.1 | 815.3 | 638.4 | 494.4 | 392.4 | 294.5 | 219.5 | 150.0 | 109.7 | 77.9 |
| 60° | 1374.9 | 1183.7 | 982.9 | 791.1 | 615.4 | 480.6 | 370.6 | 268.4 | 192.2 | 126.2 | 91.4 |
| 57.5° | 1570.6 | 1379.3 | 1169.7 | 949.8 | 758.1 | 588.7 | 448.7 | 331.2 | 232.1 | 156.4 | 104.1 |
| 55° | 1765.0 | 1574.2 | 1356.4 | 1124.8 | 905.2 | 711.5 | 536.4 | 399.5 | 275.0 | 188.5 | 116.0 |
| 52.5° | 1952.6 | 1767.1 | 1549.1 | 1301.8 | 1062.2 | 833.5 | 640.9 | 465.2 | 333.9 | 218.5 | 139.8 |
| 50° | 2130.7 | 1955.9 | 1739.0 | 1479.7 | 1214.0 | 969.2 | 739.6 | 550.5 | 390.3 | 253.0 | 163.5 |
| 47.5° | 2299.6 | 2132.8 | 1917.2 | 1646.9 | 1369.4 | 1097.4 | 849.6 | 633.2 | 444.3 | 300.7 | 185.4 |
| 45° | 2445.0 | 2300.6 | 2072.5 | 1800.6 | 1516.2 | 1227.9 | 958.7 | 710.2 | 512.5 | 346.1 | 205.5 |
| 42.5° | 2584.9 | 2436.8 | 2207.3 | 1946.2 | 1651.4 | 1354.1 | 1060.4 | 799.1 | 576.2 | 389.1 | 234.9 |
| 40° | 2702.7 | 2541.4 | 2328.7 | 2066.4 | 1778.2 | 1471.7 | 1166.0 | 884.3 | 634.8 | 433.1 | 270.2 |
| 37.5° | 2798.3 | 2629.5 | 2423.8 | 2181.1 | 1893.8 | 1580.4 | 1265.3 | 962.7 | 693.0 | 480.9 | 303.2 |
| 35° | 2854.2 | 2706.3 | 2516.2 | 2276.9 | 1993.5 | 1681.4 | 1356.5 | 1038.6 | 757.6 | 524.3 | 333.8 |
| 32.5° | 2908.8 | 2774.1 | 2587.2 | 2358.1 | 2087.1 | 1774.4 | 1440.6 | 1114.1 | 816.2 | 563.2 | 362.1 |
| 30° | 2952.0 | 2823.8 | 2654.8 | 2435.4 | 2169.2 | 1853.7 | 1517.7 | 1182.2 | 868.5 | 597.6 | 389.1 |
| 27.5° | 2991.5 | 2873.0 | 2715.5 | 2497.2 | 2234.0 | 1925.9 | 1587.1 | 1242.6 | 914.7 | 632.2 | 416.8 |
| 25° | 3027.3 | 2911.1 | 2757.3 | 2551.9 | 2294.0 | 1991.4 | 1648.5 | 1295.5 | 960.2 | 669.2 | 440.9 |
| 22.5° | 3052.8 | 2944.6 | 2797.3 | 2603.2 | 2348.8 | 2049.5 | 1701.0 | 1343.9 | 1002.0 | 700.9 | 461.3 |
| 20° | 3077.6 | 2976.8 | 2835.0 | 2647.4 | 2392.3 | 2091.0 | 1745.4 | 1384.9 | 1037.0 | 727.3 | 478.1 |
| 17.5° | 3100.4 | 3001.7 | 2861.1 | 2675.1 | 2426.8 | 2126.6 | 1782.6 | 1418.4 | 1065.3 | 748.4 | 491.4 |
| 15° | 3115.9 | 3019.2 | 2882.8 | 2699.3 | 2456.2 | 2155.9 | 1812.4 | 1444.3 | 1086.8 | 764.3 | 501.2 |
| 12.5° | 3130.1 | 3034.7 | 2901.4 | 2719.4 | 2480.0 | 2178.4 | 1834.5 | 1462.7 | 1101.6 | 775.2 | 507.6 |
| 10° | 3142.3 | 3047.6 | 2916.4 | 2734.9 | 2497.6 | 2193.9 | 1848.7 | 1473.4 | 1109.8 | 781.0 | 510.8 |
| 7.5° | 3152.3 | 3057.5 | 2927.2 | 2745.1 | 2508.4 | 2201.9 | 1854.8 | 1476.5 | 1111.5 | 781.9 | 510.8 |
| 5° | 3159.6 | 3064.0 | 2933.4 | 2749.6 | 2512.0 | 2202.0 | 1852.6 | 1472.0 | 1106.9 | 778.2 | 507.8 |
| 2.5° | 3163.8 | 3066.5 | 2934.3 | 2747.8 | 2507.7 | 2193.8 | 1842.1 | 1460.0 | 1096.1 | 769.8 | 501.9 |
| 0° | 3164.4 | 3064.4 | 2929.3 | 2739.0 | 2495.0 | 2177.0 | 1822.9 | 1440.5 | 1079.2 | 757.1 | 493.3 |
| -2.5° | 3163.8 | 3066.5 | 2934.3 | 2747.8 | 2507.7 | 2193.8 | 1842.1 | 1460.0 | 1096.1 | 769.8 | 501.9 |
| -5° | 3159.6 | 3064.0 | 2933.4 | 2749.6 | 2512.0 | 2202.0 | 1852.6 | 1472.0 | 1106.9 | 778.2 | 507.8 |
| -7.5° | 3152.3 | 3057.5 | 2927.2 | 2745.1 | 2508.4 | 2201.9 | 1854.8 | 1476.5 | 1111.5 | 781.9 | 510.8 |
| -10° | 3142.3 | 3047.6 | 2916.4 | 2734.9 | 2497.6 | 2193.9 | 1848.7 | 1473.4 | 1109.8 | 781.0 | 510.8 |
| -12.5° | 3130.1 | 3034.7 | 2901.4 | 2719.4 | 2480.0 | 2178.4 | 1834.5 | 1462.7 | 1101.6 | 775.2 | 507.6 |
| -15° | 3115.9 | 3019.2 | 2882.8 | 2699.3 | 2456.2 | 2155.9 | 1812.4 | 1444.3 | 1086.8 | 764.3 | 501.2 |
| -17.5° | 3100.4 | 3001.7 | 2861.1 | 2675.1 | 2426.8 | 2126.6 | 1782.6 | 1418.4 | 1065.3 | 748.4 | 491.4 |
| -20° | 3077.6 | 2976.8 | 2835.0 | 2647.4 | 2392.3 | 2091.0 | 1745.4 | 1384.9 | 1037.0 | 727.3 | 478.1 |



REPORT NUMBER: P670562 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLL100FSUNVDBZK-80W-5000K

CANDELA DISTRIBUTION (continued):

| | 47.5° | 50° | 52.5° | 55° | 57.5° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| -22.5° | 3052.8 | 2944.6 | 2797.3 | 2603.2 | 2348.8 | 2049.5 | 1701.0 | 1343.9 | 1002.0 | 700.9 | 461.3 |
| -25° | 3027.3 | 2911.1 | 2757.3 | 2551.9 | 2294.0 | 1991.4 | 1648.5 | 1295.5 | 960.2 | 669.2 | 440.9 |
| -27.5° | 2991.5 | 2873.0 | 2715.5 | 2497.2 | 2234.0 | 1925.9 | 1587.1 | 1242.6 | 914.7 | 632.2 | 416.8 |
| -30° | 2952.0 | 2823.8 | 2654.8 | 2435.4 | 2169.2 | 1853.7 | 1517.7 | 1182.2 | 868.5 | 597.6 | 389.1 |
| -32.5° | 2908.8 | 2774.1 | 2587.2 | 2358.1 | 2087.1 | 1774.4 | 1440.6 | 1114.1 | 816.2 | 563.2 | 362.1 |
| -35° | 2854.2 | 2706.3 | 2516.2 | 2276.9 | 1993.5 | 1681.4 | 1356.5 | 1038.6 | 757.6 | 524.3 | 333.8 |
| -37.5° | 2798.3 | 2629.5 | 2423.8 | 2181.1 | 1893.8 | 1580.4 | 1265.3 | 962.7 | 693.0 | 480.9 | 303.2 |
| -40° | 2702.7 | 2541.4 | 2328.7 | 2066.4 | 1778.2 | 1471.7 | 1166.0 | 884.3 | 634.8 | 433.1 | 270.2 |
| -42.5° | 2584.9 | 2436.8 | 2207.3 | 1946.2 | 1651.4 | 1354.1 | 1060.4 | 799.1 | 576.2 | 389.1 | 234.9 |
| -45° | 2445.0 | 2300.6 | 2072.5 | 1800.6 | 1516.2 | 1227.9 | 958.7 | 710.2 | 512.5 | 346.1 | 205.5 |
| -47.5° | 2299.6 | 2132.8 | 1917.2 | 1646.9 | 1369.4 | 1097.4 | 849.6 | 633.2 | 444.3 | 300.7 | 185.4 |
| -50° | 2130.7 | 1955.9 | 1739.0 | 1479.7 | 1214.0 | 969.2 | 739.6 | 550.5 | 390.3 | 253.0 | 163.5 |
| -52.5° | 1952.6 | 1767.1 | 1549.1 | 1301.8 | 1062.2 | 833.5 | 640.9 | 465.2 | 333.9 | 218.5 | 139.8 |
| -55° | 1765.0 | 1574.2 | 1356.4 | 1124.8 | 905.2 | 711.5 | 536.4 | 399.5 | 275.0 | 188.5 | 116.0 |
| -57.5° | 1570.6 | 1379.3 | 1169.7 | 949.8 | 758.1 | 588.7 | 448.7 | 331.2 | 232.1 | 156.4 | 104.1 |
| -60° | 1374.9 | 1183.7 | 982.9 | 791.1 | 615.4 | 480.6 | 370.6 | 268.4 | 192.2 | 126.2 | 91.4 |
| -62.5° | 1168.6 | 989.1 | 815.3 | 638.4 | 494.4 | 392.4 | 294.5 | 219.5 | 150.0 | 109.7 | 77.9 |
| -65° | 971.8 | 811.6 | 651.4 | 520.5 | 396.0 | 307.8 | 235.5 | 168.1 | 124.5 | 92.4 | 66.2 |
| -67.5° | 780.6 | 652.8 | 529.7 | 411.9 | 310.7 | 237.8 | 173.9 | 134.2 | 102.6 | 74.1 | 60.4 |
| -70° | 624.6 | 511.6 | 410.3 | 318.0 | 232.0 | 169.9 | 137.2 | 107.2 | 79.8 | 66.7 | 54.4 |
| -72.5° | 474.1 | 385.4 | 301.5 | 224.8 | 171.8 | 132.3 | 104.6 | 82.8 | 70.8 | 59.2 | 48.2 |
| -75° | 330.9 | 272.1 | 219.7 | 171.5 | 127.8 | 95.0 | 83.6 | 72.5 | 61.9 | 51.6 | 42.5 |
| -77.5° | 239.1 | 194.5 | 153.2 | 123.8 | 99.7 | 81.6 | 71.6 | 62.1 | 53.0 | 44.7 | 36.9 |
| -80° | 164.8 | 139.6 | 117.2 | 97.5 | 80.8 | 67.9 | 59.8 | 52.0 | 44.7 | 37.7 | 31.1 |
| -82.5° | 109.9 | 96.1 | 84.0 | 73.0 | 63.1 | 54.6 | 48.2 | 42.0 | 36.1 | 30.5 | 24.5 |
| -85° | 71.4 | 64.0 | 57.1 | 51.0 | 45.7 | 41.1 | 35.4 | 30.1 | 25.2 | 20.6 | 16.4 |
| -87.5° | 34.8 | 31.9 | 28.9 | 26.0 | 23.2 | 20.6 | 17.8 | 15.1 | 12.6 | 10.3 | 8.2 |
| -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: P670562 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLL100FSUNVDBZK-80W-5000K

CANDELA DISTRIBUTION (continued):

| | 75° | 77.5° | 80° | 82.5° | 85° | 87.5° | 90° |
|--------|-------|-------|------|-------|------|-------|-----|
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 6.4 | 4.7 | 3.3 | 2.1 | 1.2 | 0.5 | 0.0 |
| 85° | 12.7 | 9.4 | 6.6 | 4.3 | 2.4 | 0.9 | 0.0 |
| 82.5° | 19.0 | 14.1 | 9.9 | 6.4 | 3.5 | 1.4 | 0.0 |
| 80° | 25.0 | 18.7 | 13.2 | 8.5 | 4.7 | 1.9 | 0.0 |
| 77.5° | 29.6 | 22.9 | 16.3 | 10.5 | 5.8 | 2.3 | 0.0 |
| 75° | 34.1 | 26.3 | 19.3 | 12.5 | 6.9 | 2.8 | 0.0 |
| 72.5° | 38.4 | 29.7 | 21.8 | 14.4 | 8.0 | 3.2 | 0.0 |
| 70° | 42.7 | 32.9 | 24.1 | 16.2 | 9.1 | 3.7 | 0.0 |
| 67.5° | 47.7 | 36.0 | 26.4 | 17.8 | 10.1 | 4.1 | 0.0 |
| 65° | 52.5 | 39.4 | 28.6 | 19.3 | 11.1 | 4.5 | 0.0 |
| 62.5° | 57.1 | 43.1 | 30.7 | 20.8 | 12.0 | 4.9 | 0.0 |
| 60° | 61.5 | 46.7 | 32.7 | 22.2 | 12.9 | 5.3 | 0.0 |
| 57.5° | 71.0 | 50.1 | 35.3 | 23.5 | 13.7 | 5.6 | 0.0 |
| 55° | 80.6 | 53.2 | 37.7 | 24.7 | 14.4 | 6.0 | 0.0 |
| 52.5° | 89.5 | 56.9 | 40.1 | 25.8 | 15.2 | 6.3 | 0.0 |
| 50° | 97.7 | 63.4 | 42.3 | 26.9 | 15.8 | 6.6 | 0.0 |
| 47.5° | 106.7 | 69.4 | 44.3 | 28.0 | 16.5 | 6.9 | 0.0 |
| 45° | 123.6 | 74.8 | 46.2 | 29.4 | 17.0 | 7.1 | 0.0 |
| 42.5° | 139.2 | 79.7 | 47.9 | 30.6 | 17.6 | 7.4 | 0.0 |
| 40° | 153.2 | 84.0 | 50.4 | 31.8 | 18.0 | 7.6 | 0.0 |
| 37.5° | 165.8 | 87.7 | 53.5 | 32.9 | 18.4 | 7.8 | 0.0 |
| 35° | 176.8 | 95.1 | 56.3 | 33.8 | 18.8 | 8.0 | 0.0 |
| 32.5° | 190.7 | 103.7 | 58.6 | 34.6 | 19.1 | 8.1 | 0.0 |
| 30° | 212.9 | 111.1 | 60.6 | 35.3 | 19.3 | 8.2 | 0.0 |
| 27.5° | 233.0 | 117.5 | 62.2 | 35.9 | 19.5 | 8.3 | 0.0 |
| 25° | 250.9 | 122.7 | 63.4 | 36.4 | 19.6 | 8.4 | 0.0 |
| 22.5° | 266.7 | 126.9 | 64.3 | 36.7 | 19.7 | 8.5 | 0.0 |
| 20° | 280.2 | 130.0 | 64.8 | 37.0 | 19.7 | 8.5 | 0.0 |
| 17.5° | 291.6 | 132.0 | 64.9 | 37.1 | 19.7 | 8.5 | 0.0 |
| 15° | 300.6 | 133.1 | 64.8 | 37.1 | 19.6 | 8.5 | 0.0 |
| 12.5° | 307.4 | 133.3 | 64.3 | 37.0 | 19.5 | 8.5 | 0.0 |
| 10° | 312.0 | 132.5 | 63.5 | 36.7 | 19.3 | 8.5 | 0.0 |
| 7.5° | 314.3 | 131.0 | 62.5 | 36.4 | 19.1 | 8.4 | 0.0 |
| 5° | 314.4 | 128.6 | 61.2 | 36.0 | 18.9 | 8.3 | 0.0 |
| 2.5° | 312.2 | 125.5 | 59.7 | 35.4 | 18.5 | 8.2 | 0.0 |
| 0° | 307.9 | 121.7 | 58.0 | 34.8 | 18.2 | 8.1 | 0.0 |
| -2.5° | 312.2 | 125.5 | 59.7 | 35.4 | 18.5 | 8.2 | 0.0 |
| -5° | 314.4 | 128.6 | 61.2 | 36.0 | 18.9 | 8.3 | 0.0 |
| -7.5° | 314.3 | 131.0 | 62.5 | 36.4 | 19.1 | 8.4 | 0.0 |
| -10° | 312.0 | 132.5 | 63.5 | 36.7 | 19.3 | 8.5 | 0.0 |
| -12.5° | 307.4 | 133.3 | 64.3 | 37.0 | 19.5 | 8.5 | 0.0 |
| -15° | 300.6 | 133.1 | 64.8 | 37.1 | 19.6 | 8.5 | 0.0 |
| -17.5° | 291.6 | 132.0 | 64.9 | 37.1 | 19.7 | 8.5 | 0.0 |
| -20° | 280.2 | 130.0 | 64.8 | 37.0 | 19.7 | 8.5 | 0.0 |

Classified

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

Scaled Data Report



REPORT NUMBER: P670562 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: GFLL100FSUNVDBZK-80W-5000K

CANDELA DISTRIBUTION (continued):

| | 75° | 77.5° | 80° | 82.5° | 85° | 87.5° | 90° |
|--------|-------|-------|------|-------|------|-------|-----|
| -22.5° | 266.7 | 126.9 | 64.3 | 36.7 | 19.7 | 8.5 | 0.0 |
| -25° | 250.9 | 122.7 | 63.4 | 36.4 | 19.6 | 8.4 | 0.0 |
| -27.5° | 233.0 | 117.5 | 62.2 | 35.9 | 19.5 | 8.3 | 0.0 |
| -30° | 212.9 | 111.1 | 60.6 | 35.3 | 19.3 | 8.2 | 0.0 |
| -32.5° | 190.7 | 103.7 | 58.6 | 34.6 | 19.1 | 8.1 | 0.0 |
| -35° | 176.8 | 95.1 | 56.3 | 33.8 | 18.8 | 8.0 | 0.0 |
| -37.5° | 165.8 | 87.7 | 53.5 | 32.9 | 18.4 | 7.8 | 0.0 |
| -40° | 153.2 | 84.0 | 50.4 | 31.8 | 18.0 | 7.6 | 0.0 |
| -42.5° | 139.2 | 79.7 | 47.9 | 30.6 | 17.6 | 7.4 | 0.0 |
| -45° | 123.6 | 74.8 | 46.2 | 29.4 | 17.0 | 7.1 | 0.0 |
| -47.5° | 106.7 | 69.4 | 44.3 | 28.0 | 16.5 | 6.9 | 0.0 |
| -50° | 97.7 | 63.4 | 42.3 | 26.9 | 15.8 | 6.6 | 0.0 |
| -52.5° | 89.5 | 56.9 | 40.1 | 25.8 | 15.2 | 6.3 | 0.0 |
| -55° | 80.6 | 53.2 | 37.7 | 24.7 | 14.4 | 6.0 | 0.0 |
| -57.5° | 71.0 | 50.1 | 35.3 | 23.5 | 13.7 | 5.6 | 0.0 |
| -60° | 61.5 | 46.7 | 32.7 | 22.2 | 12.9 | 5.3 | 0.0 |
| -62.5° | 57.1 | 43.1 | 30.7 | 20.8 | 12.0 | 4.9 | 0.0 |
| -65° | 52.5 | 39.4 | 28.6 | 19.3 | 11.1 | 4.5 | 0.0 |
| -67.5° | 47.7 | 36.0 | 26.4 | 17.8 | 10.1 | 4.1 | 0.0 |
| -70° | 42.7 | 32.9 | 24.1 | 16.2 | 9.1 | 3.7 | 0.0 |
| -72.5° | 38.4 | 29.7 | 21.8 | 14.4 | 8.0 | 3.2 | 0.0 |
| -75° | 34.1 | 26.3 | 19.3 | 12.5 | 6.9 | 2.8 | 0.0 |
| -77.5° | 29.6 | 22.9 | 16.3 | 10.5 | 5.8 | 2.3 | 0.0 |
| -80° | 25.0 | 18.7 | 13.2 | 8.5 | 4.7 | 1.9 | 0.0 |
| -82.5° | 19.0 | 14.1 | 9.9 | 6.4 | 3.5 | 1.4 | 0.0 |
| -85° | 12.7 | 9.4 | 6.6 | 4.3 | 2.4 | 0.9 | 0.0 |
| -87.5° | 6.4 | 4.7 | 3.3 | 2.1 | 1.2 | 0.5 | 0.0 |
| -90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)