

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

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMIERE

Report Number: P220366 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-W-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220366 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29416)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-W-BK-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, RECESSED LENS,
WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

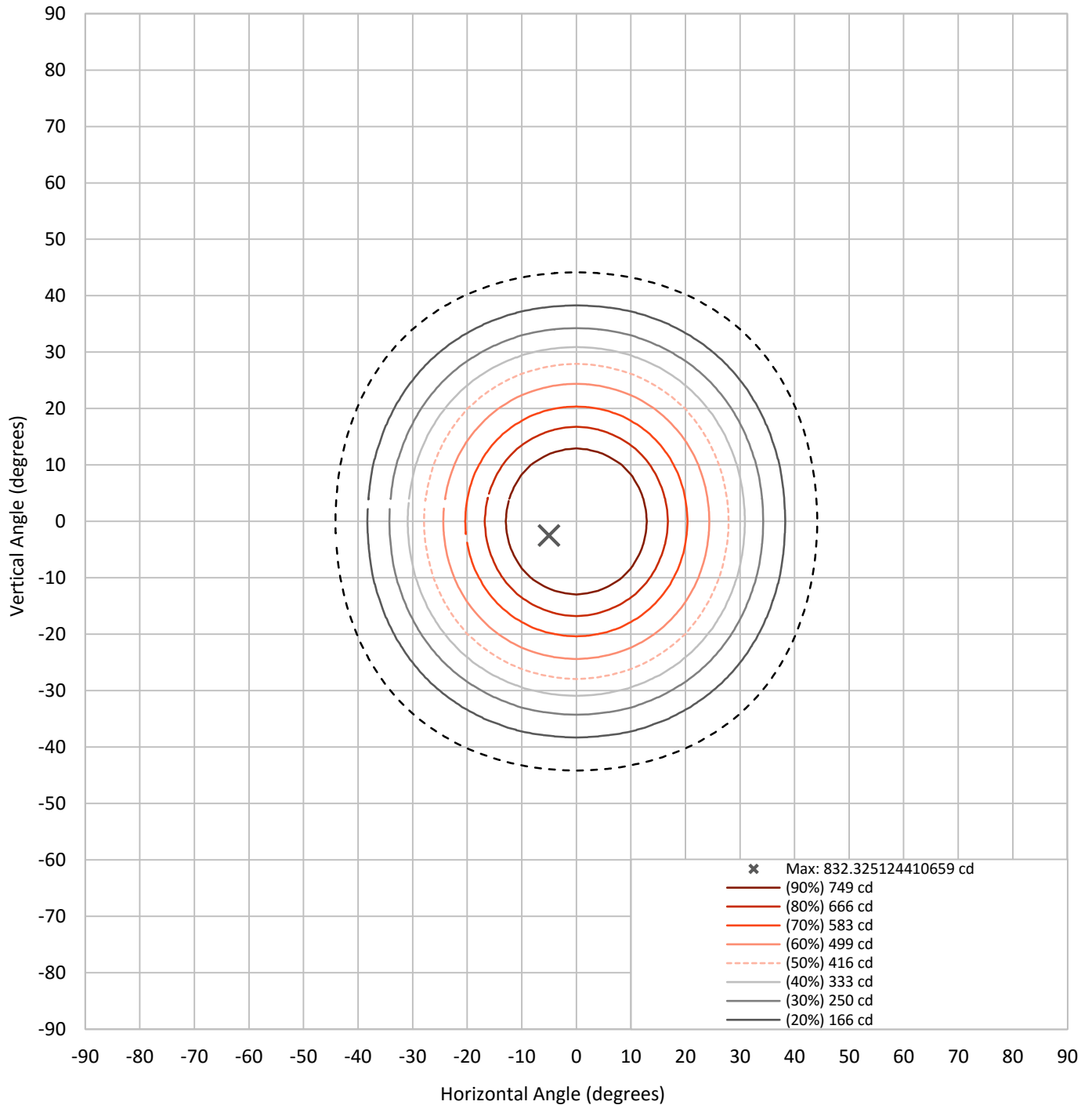
Summary

| | | | |
|-----------------------------------|-------------------------------|----------------------|-----------------|
| Lumens per Lamp: | N/A | NEMA Type: | 5H x 5V |
| Luminaire Lumens: | 698 lumens | Max Intensity: | 832.3 candela |
| Efficiency: | N/A | Max Intensity Angle: | -5°H x -2.5°V |
| Efficacy: | 69.8 lumens/watt | | |
| Luminous Opening: | Circular (Dia: 0.17' x H: 0') | | |
| Beam Angle (50%): | 55.7°H x 55.1°V | Field Angle (10%): | 88.2°H x 87.9°V |
| Beam Lumens: | 447.8 lumens | Field Lumens: | 673.6 lumens |
| Beam Efficiency: | 64.2% | Field Efficiency: | 96.5% |
| Input Watts (W): | 10 | | |
| 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: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-W-BK-L1-UNV

Iso-Candela Plot





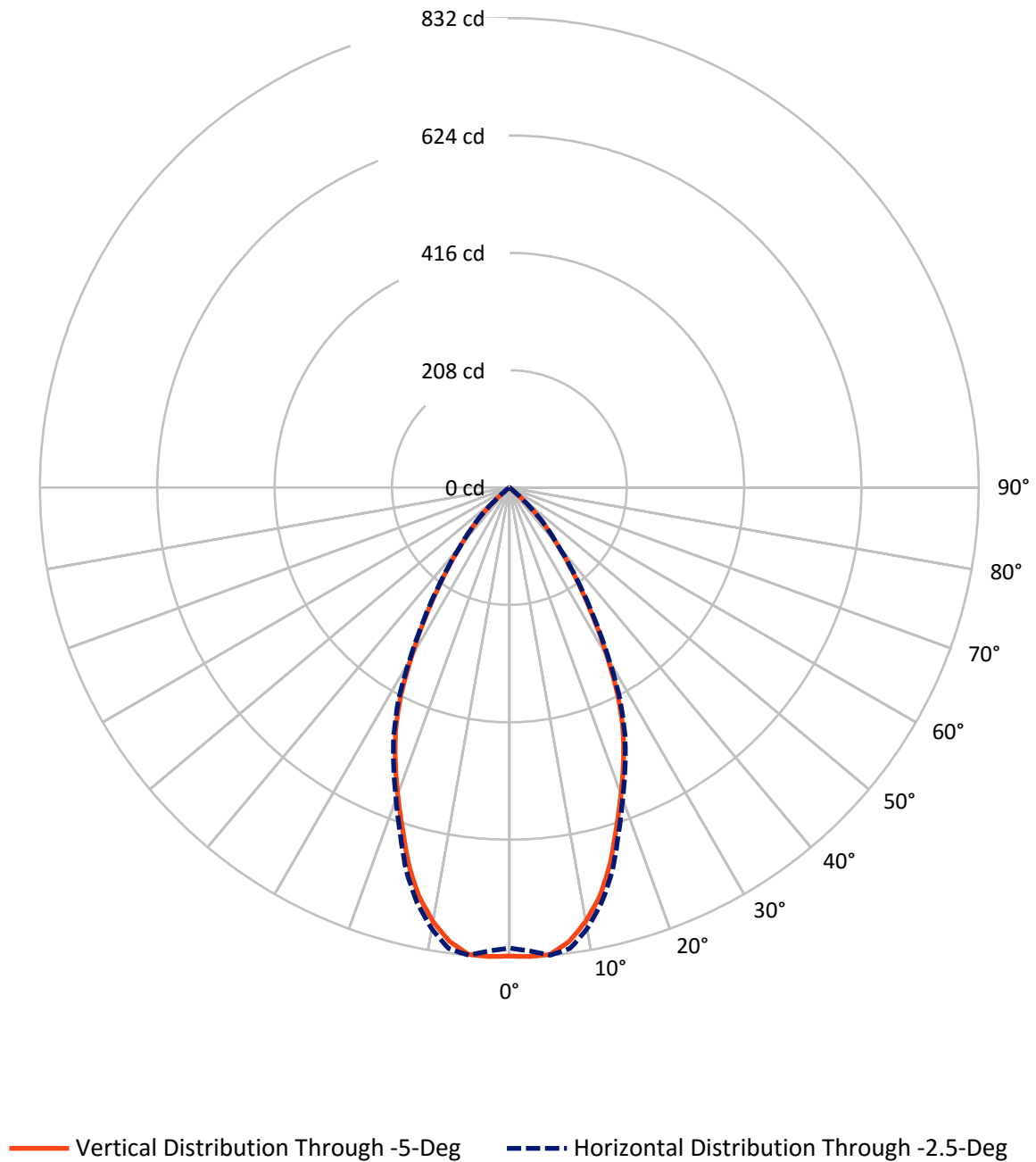
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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-W-BK-L1-UNV

Lumen Table

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|-----|-----|-----|-----|-----|----|----|----|
| 90 | | | | | | | | | | | | | | | | | | | |
| 80 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | |
| 70 | | | | | | | | | | | | | | | | | | | |
| 60 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | |
| 50 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |
| 40 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.6 | 1.5 | 2.1 | 2.1 | 1.5 | 0.6 | 0.1 | 0.0 | 0.0 | 0.0 | | | | |
| 30 | | 0.0 | 0.0 | 0.1 | 1.0 | 3.1 | 5.3 | 6.9 | 6.9 | 5.3 | 3.1 | 1.0 | 0.1 | 0.0 | | 0.0 | | | |
| 20 | 0.0 | 0.0 | 0.0 | 0.5 | 2.8 | 6.6 | 11.3 | 14.2 | 14.2 | 11.3 | 6.6 | 2.8 | 0.5 | 0.0 | 0.0 | | | | |
| 10 | | 0.0 | 0.0 | 1.1 | 4.5 | 10.6 | 16.6 | 20.6 | 20.6 | 16.6 | 10.6 | 4.5 | 1.1 | 0.0 | | 0.0 | | | |
| 0 | 0.0 | 0.0 | 0.0 | 1.5 | 5.7 | 12.9 | 20.0 | 24.6 | 24.6 | 20.0 | 12.9 | 5.7 | 1.5 | 0.0 | 0.0 | | | | |
| -10 | | 0.0 | 0.0 | 1.5 | 5.7 | 12.9 | 20.0 | 24.6 | 24.6 | 20.0 | 12.9 | 5.7 | 1.5 | 0.0 | | 0.0 | | | |
| -20 | 0.0 | 0.0 | 0.0 | 1.1 | 4.5 | 10.6 | 16.6 | 20.6 | 20.6 | 16.6 | 10.6 | 4.5 | 1.1 | 0.0 | 0.0 | | | | |
| -30 | | 0.0 | 0.0 | 0.5 | 2.8 | 6.6 | 11.3 | 14.2 | 14.2 | 11.3 | 6.6 | 2.8 | 0.5 | 0.0 | | 0.0 | | | |
| -40 | 0.0 | 0.0 | 0.0 | 0.1 | 1.0 | 3.1 | 5.3 | 6.9 | 6.9 | 5.3 | 3.1 | 1.0 | 0.1 | 0.0 | 0.0 | | | | |
| -50 | | 0.0 | 0.0 | 0.0 | 0.1 | 0.6 | 1.5 | 2.1 | 2.1 | 1.5 | 0.6 | 0.1 | 0.0 | 0.0 | | 0.0 | | | |
| -60 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | |
| -70 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | | | |
| -80 | | | | | | | | | | | | | | | | | | | |
| -90 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | |
| | -90 | -80 | -70 | -60 | -50 | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 |

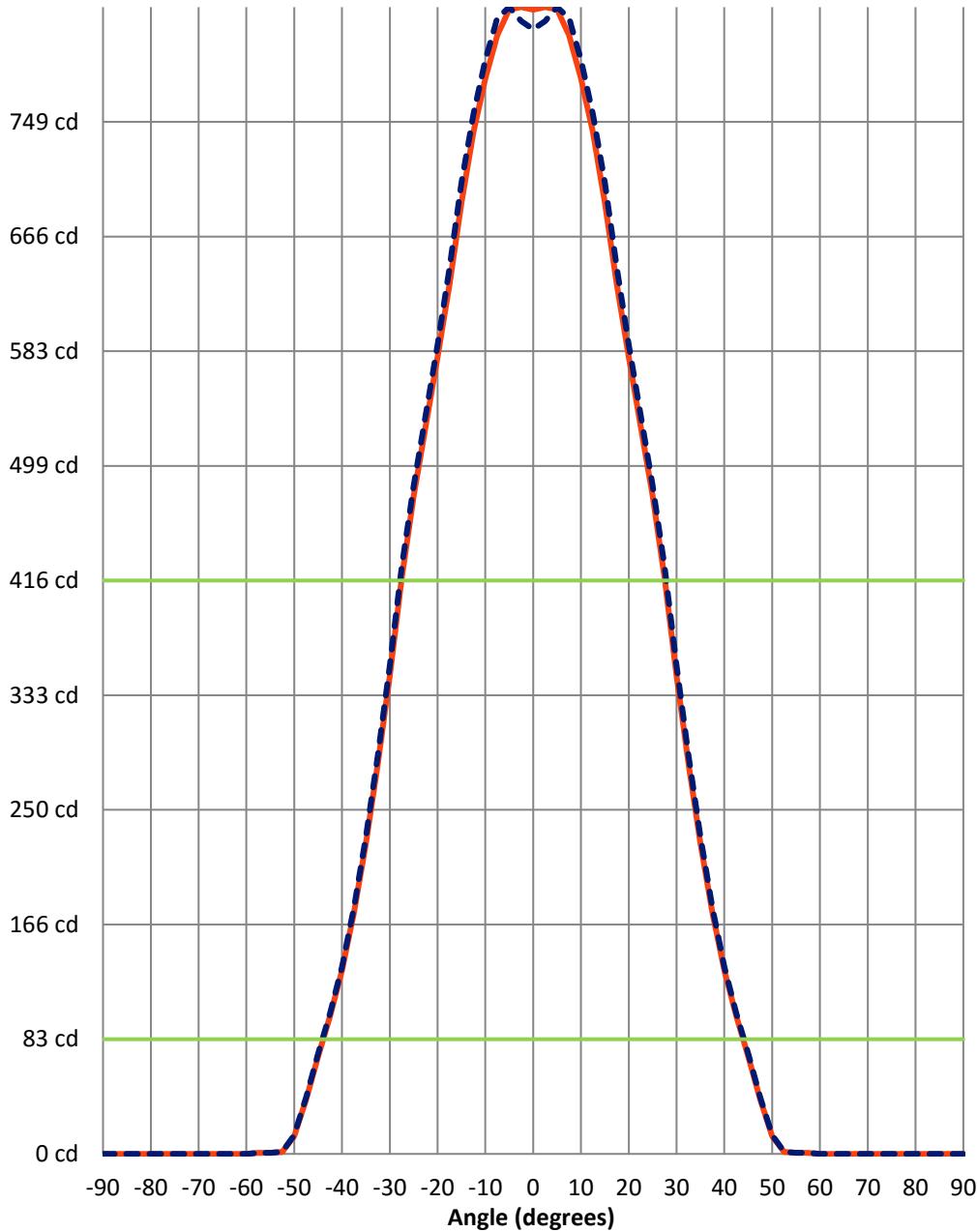
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CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-W-BK-L1-UNV

Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 55.7°
 V Angle: 55.1°
 Lumens: 447.8
 Efficiency: 64.2%

Field:
 H Angle: 88.2°
 V Angle: 87.9°
 Lumens: 673.6
 Efficiency: 96.5%

Spill:
 Lumens: 24.3
 Efficiency: 3.5%

— Vertical Distribution through -5-Deg
 - - Horizontal Distribution through -2.5-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° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 87.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 82.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 80° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 77.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 72.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 70° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 67.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 65° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 60° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 57.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 55° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 52.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 50° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 47.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 45° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 37.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 35° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 32.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 30° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 27.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 25° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -2.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -7.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -10° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -12.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -15° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -17.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -20° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-W-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

| | -90° | -87.5° | -85° | -82.5° | -80° | -77.5° | -75° | -72.5° | -70° | -67.5° | -65° |
|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| -22.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -25° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -27.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -30° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -32.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -35° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -37.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -40° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -42.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -45° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -47.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -50° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -52.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -55° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -57.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -60° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -62.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -65° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -67.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -70° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -72.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -75° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -77.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -80° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -82.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -85° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -87.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-W-BK-L1-UNV

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 |
| 87.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 82.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 80° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 77.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 72.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 70° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 67.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 65° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 60° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 57.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 55° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 52.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 50° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 47.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 45° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 42.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 40° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| 37.5° | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 9 |
| 35° | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 8 | 20 |
| 32.5° | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 6 | 17 | 36 |
| 30° | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 3 | 12 | 31 | 53 |
| 27.5° | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 8 | 23 | 46 | 70 |
| 25° | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 13 | 35 | 60 | 85 |
| 22.5° | 0 | 0 | 0 | 1 | 1 | 1 | 7 | 23 | 47 | 74 | 99 |
| 20° | 0 | 0 | 0 | 1 | 1 | 1 | 11 | 32 | 59 | 86 | 112 |
| 17.5° | 0 | 0 | 0 | 1 | 1 | 3 | 15 | 41 | 69 | 96 | 125 |
| 15° | 0 | 0 | 0 | 1 | 1 | 6 | 22 | 49 | 78 | 106 | 137 |
| 12.5° | 0 | 0 | 1 | 1 | 1 | 8 | 28 | 56 | 86 | 115 | 150 |
| 10° | 0 | 0 | 1 | 1 | 1 | 10 | 33 | 62 | 92 | 123 | 161 |
| 7.5° | 0 | 0 | 1 | 1 | 1 | 12 | 37 | 67 | 97 | 129 | 169 |
| 5° | 0 | 0 | 1 | 1 | 1 | 13 | 39 | 71 | 100 | 133 | 175 |
| 2.5° | 0 | 0 | 1 | 1 | 1 | 14 | 41 | 73 | 102 | 136 | 179 |
| 0° | 0 | 0 | 1 | 1 | 2 | 14 | 42 | 73 | 103 | 137 | 180 |
| -2.5° | 0 | 0 | 1 | 1 | 1 | 14 | 41 | 73 | 102 | 136 | 179 |
| -5° | 0 | 0 | 1 | 1 | 1 | 13 | 39 | 71 | 100 | 133 | 175 |
| -7.5° | 0 | 0 | 1 | 1 | 1 | 12 | 37 | 67 | 97 | 129 | 169 |
| -10° | 0 | 0 | 1 | 1 | 1 | 10 | 33 | 62 | 92 | 123 | 161 |
| -12.5° | 0 | 0 | 1 | 1 | 1 | 8 | 28 | 56 | 86 | 115 | 150 |
| -15° | 0 | 0 | 0 | 1 | 1 | 6 | 22 | 49 | 78 | 106 | 137 |
| -17.5° | 0 | 0 | 0 | 1 | 1 | 3 | 15 | 41 | 69 | 96 | 125 |
| -20° | 0 | 0 | 0 | 1 | 1 | 1 | 11 | 32 | 59 | 86 | 112 |



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-W-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

| | -62.5° | -60° | -57.5° | -55° | -52.5° | -50° | -47.5° | -45° | -42.5° | -40° | -37.5° |
|--------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|
| -22.5° | 0 | 0 | 0 | 1 | 1 | 1 | 7 | 23 | 47 | 74 | 99 |
| -25° | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 13 | 35 | 60 | 85 |
| -27.5° | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 8 | 23 | 46 | 70 |
| -30° | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 3 | 12 | 31 | 53 |
| -32.5° | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 6 | 17 | 36 |
| -35° | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 8 | 20 |
| -37.5° | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 9 |
| -40° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| -42.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| -45° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| -47.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| -50° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -52.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -55° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -57.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -60° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -62.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -65° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -67.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -70° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -72.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -75° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -77.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -80° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -82.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -85° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -87.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-W-BK-L1-UNV

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 |
| 87.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 82.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 80° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 77.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 72.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 70° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 67.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 65° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 60° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 57.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 55° | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 52.5° | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 50° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 6 | 8 | 10 |
| 47.5° | 1 | 1 | 1 | 1 | 3 | 7 | 11 | 15 | 22 | 28 | 33 |
| 45° | 1 | 1 | 3 | 8 | 13 | 23 | 32 | 41 | 49 | 56 | 62 |
| 42.5° | 1 | 6 | 12 | 23 | 35 | 47 | 59 | 69 | 78 | 86 | 92 |
| 40° | 8 | 17 | 31 | 46 | 60 | 74 | 86 | 96 | 106 | 115 | 123 |
| 37.5° | 20 | 36 | 53 | 70 | 85 | 99 | 112 | 125 | 137 | 150 | 161 |
| 35° | 38 | 57 | 76 | 92 | 109 | 126 | 142 | 161 | 177 | 193 | 206 |
| 32.5° | 57 | 77 | 96 | 115 | 135 | 157 | 179 | 202 | 223 | 242 | 259 |
| 30° | 76 | 96 | 118 | 140 | 166 | 193 | 221 | 248 | 274 | 297 | 318 |
| 27.5° | 92 | 115 | 140 | 169 | 201 | 233 | 267 | 299 | 330 | 357 | 382 |
| 25° | 109 | 135 | 166 | 201 | 237 | 276 | 315 | 352 | 388 | 422 | 447 |
| 22.5° | 126 | 157 | 193 | 233 | 276 | 320 | 364 | 409 | 446 | 475 | 498 |
| 20° | 142 | 179 | 221 | 267 | 315 | 364 | 416 | 458 | 491 | 519 | 544 |
| 17.5° | 161 | 202 | 248 | 299 | 352 | 409 | 458 | 497 | 531 | 562 | 589 |
| 15° | 177 | 223 | 274 | 330 | 388 | 446 | 491 | 531 | 568 | 603 | 636 |
| 12.5° | 193 | 242 | 297 | 357 | 422 | 475 | 519 | 562 | 603 | 645 | 686 |
| 10° | 206 | 259 | 318 | 382 | 447 | 498 | 544 | 589 | 636 | 686 | 729 |
| 7.5° | 217 | 273 | 335 | 403 | 465 | 515 | 564 | 613 | 667 | 719 | 759 |
| 5° | 225 | 283 | 347 | 418 | 477 | 528 | 578 | 631 | 690 | 742 | 781 |
| 2.5° | 230 | 289 | 354 | 426 | 485 | 536 | 587 | 643 | 705 | 755 | 794 |
| 0° | 232 | 291 | 357 | 429 | 488 | 539 | 590 | 647 | 710 | 759 | 799 |
| -2.5° | 230 | 289 | 354 | 426 | 485 | 536 | 587 | 643 | 705 | 755 | 794 |
| -5° | 225 | 283 | 347 | 418 | 477 | 528 | 578 | 631 | 690 | 742 | 781 |
| -7.5° | 217 | 273 | 335 | 403 | 465 | 515 | 564 | 613 | 667 | 719 | 759 |
| -10° | 206 | 259 | 318 | 382 | 447 | 498 | 544 | 589 | 636 | 686 | 729 |
| -12.5° | 193 | 242 | 297 | 357 | 422 | 475 | 519 | 562 | 603 | 645 | 686 |
| -15° | 177 | 223 | 274 | 330 | 388 | 446 | 491 | 531 | 568 | 603 | 636 |
| -17.5° | 161 | 202 | 248 | 299 | 352 | 409 | 458 | 497 | 531 | 562 | 589 |
| -20° | 142 | 179 | 221 | 267 | 315 | 364 | 416 | 458 | 491 | 519 | 544 |



REPORT NUMBER: P220366 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-W-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

| | -35° | -32.5° | -30° | -27.5° | -25° | -22.5° | -20° | -17.5° | -15° | -12.5° | -10° |
|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| -22.5° | 126 | 157 | 193 | 233 | 276 | 320 | 364 | 409 | 446 | 475 | 498 |
| -25° | 109 | 135 | 166 | 201 | 237 | 276 | 315 | 352 | 388 | 422 | 447 |
| -27.5° | 92 | 115 | 140 | 169 | 201 | 233 | 267 | 299 | 330 | 357 | 382 |
| -30° | 76 | 96 | 118 | 140 | 166 | 193 | 221 | 248 | 274 | 297 | 318 |
| -32.5° | 57 | 77 | 96 | 115 | 135 | 157 | 179 | 202 | 223 | 242 | 259 |
| -35° | 38 | 57 | 76 | 92 | 109 | 126 | 142 | 161 | 177 | 193 | 206 |
| -37.5° | 20 | 36 | 53 | 70 | 85 | 99 | 112 | 125 | 137 | 150 | 161 |
| -40° | 8 | 17 | 31 | 46 | 60 | 74 | 86 | 96 | 106 | 115 | 123 |
| -42.5° | 1 | 6 | 12 | 23 | 35 | 47 | 59 | 69 | 78 | 86 | 92 |
| -45° | 1 | 1 | 3 | 8 | 13 | 23 | 32 | 41 | 49 | 56 | 62 |
| -47.5° | 1 | 1 | 1 | 1 | 3 | 7 | 11 | 15 | 22 | 28 | 33 |
| -50° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 6 | 8 | 10 |
| -52.5° | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| -55° | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| -57.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| -60° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -62.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -65° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -67.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -70° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -72.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -75° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -77.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -80° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -82.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -85° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -87.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



REPORT NUMBER: P220366 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-W-BK-L1-UNV

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 |
| 87.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 82.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 80° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 77.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 72.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 70° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 67.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 65° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 60° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 57.5° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |
| 55° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 52.5° | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 50° | 12 | 13 | 14 | 14 | 14 | 13 | 12 | 10 | 8 | 6 | 3 |
| 47.5° | 37 | 39 | 41 | 42 | 41 | 39 | 37 | 33 | 28 | 22 | 15 |
| 45° | 67 | 71 | 73 | 73 | 73 | 71 | 67 | 62 | 56 | 49 | 41 |
| 42.5° | 97 | 100 | 102 | 103 | 102 | 100 | 97 | 92 | 86 | 78 | 69 |
| 40° | 129 | 133 | 136 | 137 | 136 | 133 | 129 | 123 | 115 | 106 | 96 |
| 37.5° | 169 | 175 | 179 | 180 | 179 | 175 | 169 | 161 | 150 | 137 | 125 |
| 35° | 217 | 225 | 230 | 232 | 230 | 225 | 217 | 206 | 193 | 177 | 161 |
| 32.5° | 273 | 283 | 289 | 291 | 289 | 283 | 273 | 259 | 242 | 223 | 202 |
| 30° | 335 | 347 | 354 | 357 | 354 | 347 | 335 | 318 | 297 | 274 | 248 |
| 27.5° | 403 | 418 | 426 | 429 | 426 | 418 | 403 | 382 | 357 | 330 | 299 |
| 25° | 465 | 477 | 485 | 488 | 485 | 477 | 465 | 447 | 422 | 388 | 352 |
| 22.5° | 515 | 528 | 536 | 539 | 536 | 528 | 515 | 498 | 475 | 446 | 409 |
| 20° | 564 | 578 | 587 | 590 | 587 | 578 | 564 | 544 | 519 | 491 | 458 |
| 17.5° | 613 | 631 | 643 | 647 | 643 | 631 | 613 | 589 | 562 | 531 | 497 |
| 15° | 667 | 690 | 705 | 710 | 705 | 690 | 667 | 636 | 603 | 568 | 531 |
| 12.5° | 719 | 742 | 755 | 759 | 755 | 742 | 719 | 686 | 645 | 603 | 562 |
| 10° | 759 | 781 | 794 | 799 | 794 | 781 | 759 | 729 | 686 | 636 | 589 |
| 7.5° | 790 | 812 | 824 | 827 | 824 | 812 | 790 | 759 | 719 | 667 | 613 |
| 5° | 812 | 831 | 832 | 831 | 832 | 831 | 812 | 781 | 742 | 690 | 631 |
| 2.5° | 824 | 832 | 822 | 816 | 822 | 832 | 824 | 794 | 755 | 705 | 643 |
| 0° | 827 | 831 | 816 | 814 | 816 | 831 | 827 | 799 | 759 | 710 | 647 |
| -2.5° | 824 | 832 | 822 | 816 | 822 | 832 | 824 | 794 | 755 | 705 | 643 |
| -5° | 812 | 831 | 832 | 831 | 832 | 831 | 812 | 781 | 742 | 690 | 631 |
| -7.5° | 790 | 812 | 824 | 827 | 824 | 812 | 790 | 759 | 719 | 667 | 613 |
| -10° | 759 | 781 | 794 | 799 | 794 | 781 | 759 | 729 | 686 | 636 | 589 |
| -12.5° | 719 | 742 | 755 | 759 | 755 | 742 | 719 | 686 | 645 | 603 | 562 |
| -15° | 667 | 690 | 705 | 710 | 705 | 690 | 667 | 636 | 603 | 568 | 531 |
| -17.5° | 613 | 631 | 643 | 647 | 643 | 631 | 613 | 589 | 562 | 531 | 497 |
| -20° | 564 | 578 | 587 | 590 | 587 | 578 | 564 | 544 | 519 | 491 | 458 |



REPORT NUMBER: P220366 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-W-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

| | -7.5° | -5° | -2.5° | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° |
|--------|-------|-----|-------|-----|------|-----|------|-----|-------|-----|-------|
| -22.5° | 515 | 528 | 536 | 539 | 536 | 528 | 515 | 498 | 475 | 446 | 409 |
| -25° | 465 | 477 | 485 | 488 | 485 | 477 | 465 | 447 | 422 | 388 | 352 |
| -27.5° | 403 | 418 | 426 | 429 | 426 | 418 | 403 | 382 | 357 | 330 | 299 |
| -30° | 335 | 347 | 354 | 357 | 354 | 347 | 335 | 318 | 297 | 274 | 248 |
| -32.5° | 273 | 283 | 289 | 291 | 289 | 283 | 273 | 259 | 242 | 223 | 202 |
| -35° | 217 | 225 | 230 | 232 | 230 | 225 | 217 | 206 | 193 | 177 | 161 |
| -37.5° | 169 | 175 | 179 | 180 | 179 | 175 | 169 | 161 | 150 | 137 | 125 |
| -40° | 129 | 133 | 136 | 137 | 136 | 133 | 129 | 123 | 115 | 106 | 96 |
| -42.5° | 97 | 100 | 102 | 103 | 102 | 100 | 97 | 92 | 86 | 78 | 69 |
| -45° | 67 | 71 | 73 | 73 | 73 | 71 | 67 | 62 | 56 | 49 | 41 |
| -47.5° | 37 | 39 | 41 | 42 | 41 | 39 | 37 | 33 | 28 | 22 | 15 |
| -50° | 12 | 13 | 14 | 14 | 14 | 13 | 12 | 10 | 8 | 6 | 3 |
| -52.5° | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| -55° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| -57.5° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |
| -60° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -62.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -65° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -67.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -70° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -72.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -75° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -77.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -80° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -82.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -85° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -87.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



REPORT NUMBER: P220366 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-W-BK-L1-UNV

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 |
| 87.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 82.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 80° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 77.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 72.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 70° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 67.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 65° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 60° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 57.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 55° | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 52.5° | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 50° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| 47.5° | 11 | 7 | 3 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| 45° | 32 | 23 | 13 | 8 | 3 | 1 | 1 | 1 | 1 | 0 | 0 |
| 42.5° | 59 | 47 | 35 | 23 | 12 | 6 | 1 | 1 | 1 | 1 | 0 |
| 40° | 86 | 74 | 60 | 46 | 31 | 17 | 8 | 1 | 1 | 1 | 1 |
| 37.5° | 112 | 99 | 85 | 70 | 53 | 36 | 20 | 9 | 1 | 1 | 1 |
| 35° | 142 | 126 | 109 | 92 | 76 | 57 | 38 | 20 | 8 | 1 | 1 |
| 32.5° | 179 | 157 | 135 | 115 | 96 | 77 | 57 | 36 | 17 | 6 | 1 |
| 30° | 221 | 193 | 166 | 140 | 118 | 96 | 76 | 53 | 31 | 12 | 3 |
| 27.5° | 267 | 233 | 201 | 169 | 140 | 115 | 92 | 70 | 46 | 23 | 8 |
| 25° | 315 | 276 | 237 | 201 | 166 | 135 | 109 | 85 | 60 | 35 | 13 |
| 22.5° | 364 | 320 | 276 | 233 | 193 | 157 | 126 | 99 | 74 | 47 | 23 |
| 20° | 416 | 364 | 315 | 267 | 221 | 179 | 142 | 112 | 86 | 59 | 32 |
| 17.5° | 458 | 409 | 352 | 299 | 248 | 202 | 161 | 125 | 96 | 69 | 41 |
| 15° | 491 | 446 | 388 | 330 | 274 | 223 | 177 | 137 | 106 | 78 | 49 |
| 12.5° | 519 | 475 | 422 | 357 | 297 | 242 | 193 | 150 | 115 | 86 | 56 |
| 10° | 544 | 498 | 447 | 382 | 318 | 259 | 206 | 161 | 123 | 92 | 62 |
| 7.5° | 564 | 515 | 465 | 403 | 335 | 273 | 217 | 169 | 129 | 97 | 67 |
| 5° | 578 | 528 | 477 | 418 | 347 | 283 | 225 | 175 | 133 | 100 | 71 |
| 2.5° | 587 | 536 | 485 | 426 | 354 | 289 | 230 | 179 | 136 | 102 | 73 |
| 0° | 590 | 539 | 488 | 429 | 357 | 291 | 232 | 180 | 137 | 103 | 73 |
| -2.5° | 587 | 536 | 485 | 426 | 354 | 289 | 230 | 179 | 136 | 102 | 73 |
| -5° | 578 | 528 | 477 | 418 | 347 | 283 | 225 | 175 | 133 | 100 | 71 |
| -7.5° | 564 | 515 | 465 | 403 | 335 | 273 | 217 | 169 | 129 | 97 | 67 |
| -10° | 544 | 498 | 447 | 382 | 318 | 259 | 206 | 161 | 123 | 92 | 62 |
| -12.5° | 519 | 475 | 422 | 357 | 297 | 242 | 193 | 150 | 115 | 86 | 56 |
| -15° | 491 | 446 | 388 | 330 | 274 | 223 | 177 | 137 | 106 | 78 | 49 |
| -17.5° | 458 | 409 | 352 | 299 | 248 | 202 | 161 | 125 | 96 | 69 | 41 |
| -20° | 416 | 364 | 315 | 267 | 221 | 179 | 142 | 112 | 86 | 59 | 32 |



REPORT NUMBER: P220366 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-W-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

| | 20° | 22.5° | 25° | 27.5° | 30° | 32.5° | 35° | 37.5° | 40° | 42.5° | 45° |
|--------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
| -22.5° | 364 | 320 | 276 | 233 | 193 | 157 | 126 | 99 | 74 | 47 | 23 |
| -25° | 315 | 276 | 237 | 201 | 166 | 135 | 109 | 85 | 60 | 35 | 13 |
| -27.5° | 267 | 233 | 201 | 169 | 140 | 115 | 92 | 70 | 46 | 23 | 8 |
| -30° | 221 | 193 | 166 | 140 | 118 | 96 | 76 | 53 | 31 | 12 | 3 |
| -32.5° | 179 | 157 | 135 | 115 | 96 | 77 | 57 | 36 | 17 | 6 | 1 |
| -35° | 142 | 126 | 109 | 92 | 76 | 57 | 38 | 20 | 8 | 1 | 1 |
| -37.5° | 112 | 99 | 85 | 70 | 53 | 36 | 20 | 9 | 1 | 1 | 1 |
| -40° | 86 | 74 | 60 | 46 | 31 | 17 | 8 | 1 | 1 | 1 | 1 |
| -42.5° | 59 | 47 | 35 | 23 | 12 | 6 | 1 | 1 | 1 | 1 | 0 |
| -45° | 32 | 23 | 13 | 8 | 3 | 1 | 1 | 1 | 1 | 0 | 0 |
| -47.5° | 11 | 7 | 3 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| -50° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| -52.5° | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| -55° | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -57.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -60° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -62.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -65° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -67.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -70° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -72.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -75° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -77.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -80° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -82.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -85° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -87.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



REPORT NUMBER: P220366 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-W-BK-L1-UNV

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 |
| 87.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 82.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 80° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 77.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 72.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 70° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 67.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 65° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 60° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 57.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 55° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 52.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 50° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 47.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 45° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 37.5° | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 35° | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 32.5° | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 30° | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 27.5° | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 25° | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22.5° | 7 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20° | 11 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17.5° | 15 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15° | 22 | 6 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12.5° | 28 | 8 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10° | 33 | 10 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7.5° | 37 | 12 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5° | 39 | 13 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2.5° | 41 | 14 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0° | 42 | 14 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| -2.5° | 41 | 14 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| -5° | 39 | 13 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| -7.5° | 37 | 12 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| -10° | 33 | 10 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| -12.5° | 28 | 8 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| -15° | 22 | 6 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -17.5° | 15 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -20° | 11 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



REPORT NUMBER: P220366 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-W-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

| | 47.5° | 50° | 52.5° | 55° | 57.5° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° |
|--------|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|
| -22.5° | 7 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -25° | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -27.5° | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -30° | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -32.5° | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -35° | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -37.5° | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -40° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -42.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -45° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -47.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -50° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -52.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -55° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -57.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -60° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -62.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -65° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -67.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -70° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -72.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -75° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -77.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -80° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -82.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -85° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -87.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



REPORT NUMBER: P220366 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-W-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

| | 75° | 77.5° | 80° | 82.5° | 85° | 87.5° | 90° |
|--------|-----|-------|-----|-------|-----|-------|-----|
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 87.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 82.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 80° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 77.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 72.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 70° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 67.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 65° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 60° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 57.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 55° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 52.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 50° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 47.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 45° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 37.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 35° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 32.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 30° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 27.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 25° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -2.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -7.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -10° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -12.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -15° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -17.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -20° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



REPORT NUMBER: P220366 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-W-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

| | 75° | 77.5° | 80° | 82.5° | 85° | 87.5° | 90° |
|--------|-----|-------|-----|-------|-----|-------|-----|
| -22.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -25° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -27.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -30° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -32.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -35° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -37.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -40° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -42.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -45° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -47.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -50° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -52.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -55° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -57.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -60° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -62.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -65° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -67.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -70° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -72.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -75° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -77.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -80° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -82.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -85° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -87.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(END OF REPORT)