

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: P220416 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1002-[A1, P1, S1, SU1]-FL-LED4097-M-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220416 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29422)
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]-FL-LED4097-M-BK-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS,
MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

| | | | |
|-------------------|-------------------------------|----------------------|-----------------|
| Lumens per Lamp: | N/A | NEMA Type: | 3H x 3V |
| Luminaire Lumens: | 819.2 lumens | Max Intensity: | 4597.7 candela |
| Efficiency: | N/A | Max Intensity Angle: | 0°H x 0°V |
| Efficacy: | 81.9 lumens/watt | | |
| Luminous Opening: | Circular (Dia: 0.17' x H: 0') | | |
| Beam Angle (50%): | 23°H x 23°V | Field Angle (10%): | 38.1°H x 38.1°V |
| Beam Lumens: | 427.7 lumens | Field Lumens: | 656.7 lumens |
| Beam Efficiency: | 52.2% | Field Efficiency: | 80.2% |

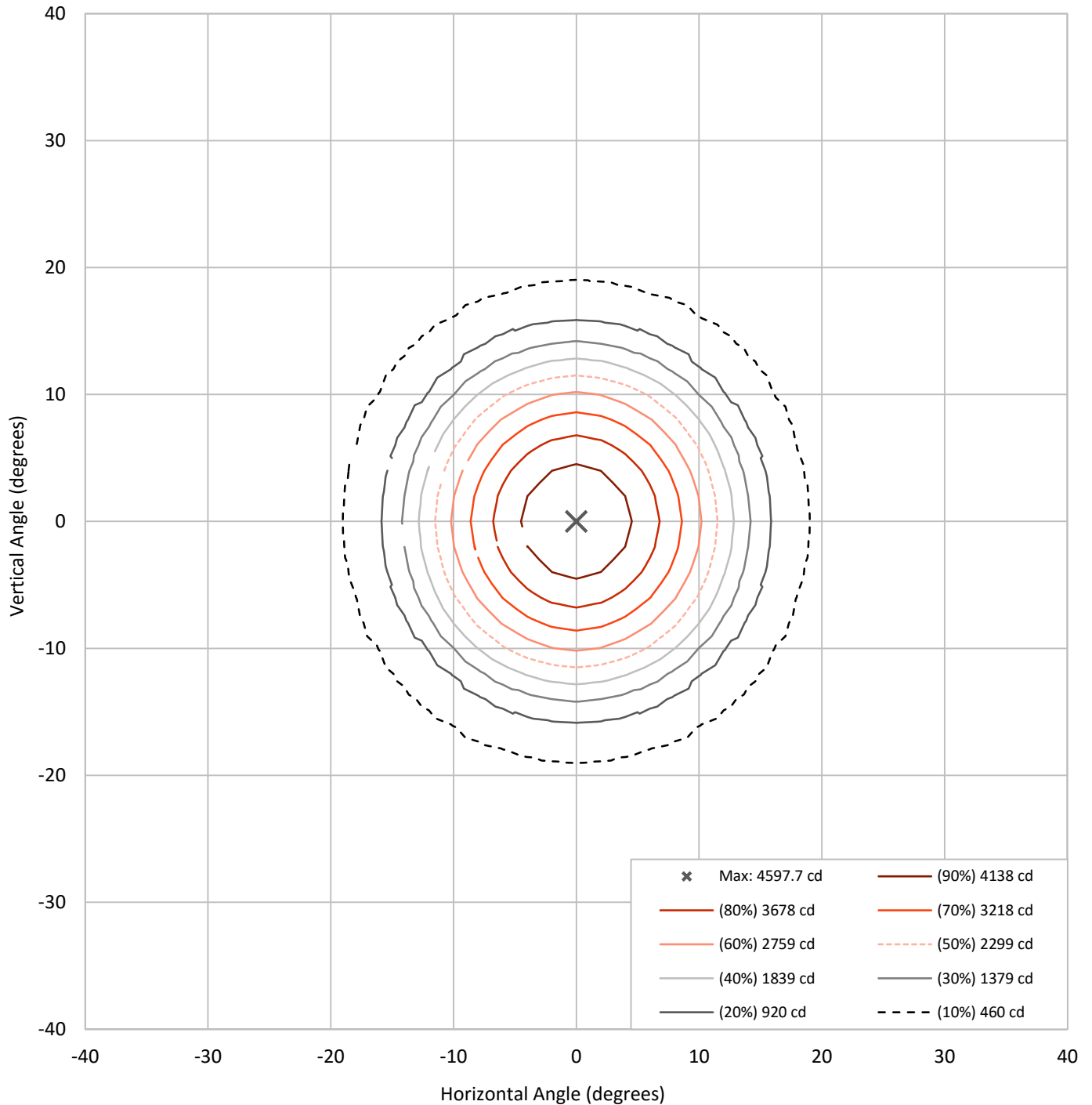
Input Watts (W): 10
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-M-BK-L1-UNV

Iso-Candela Plot





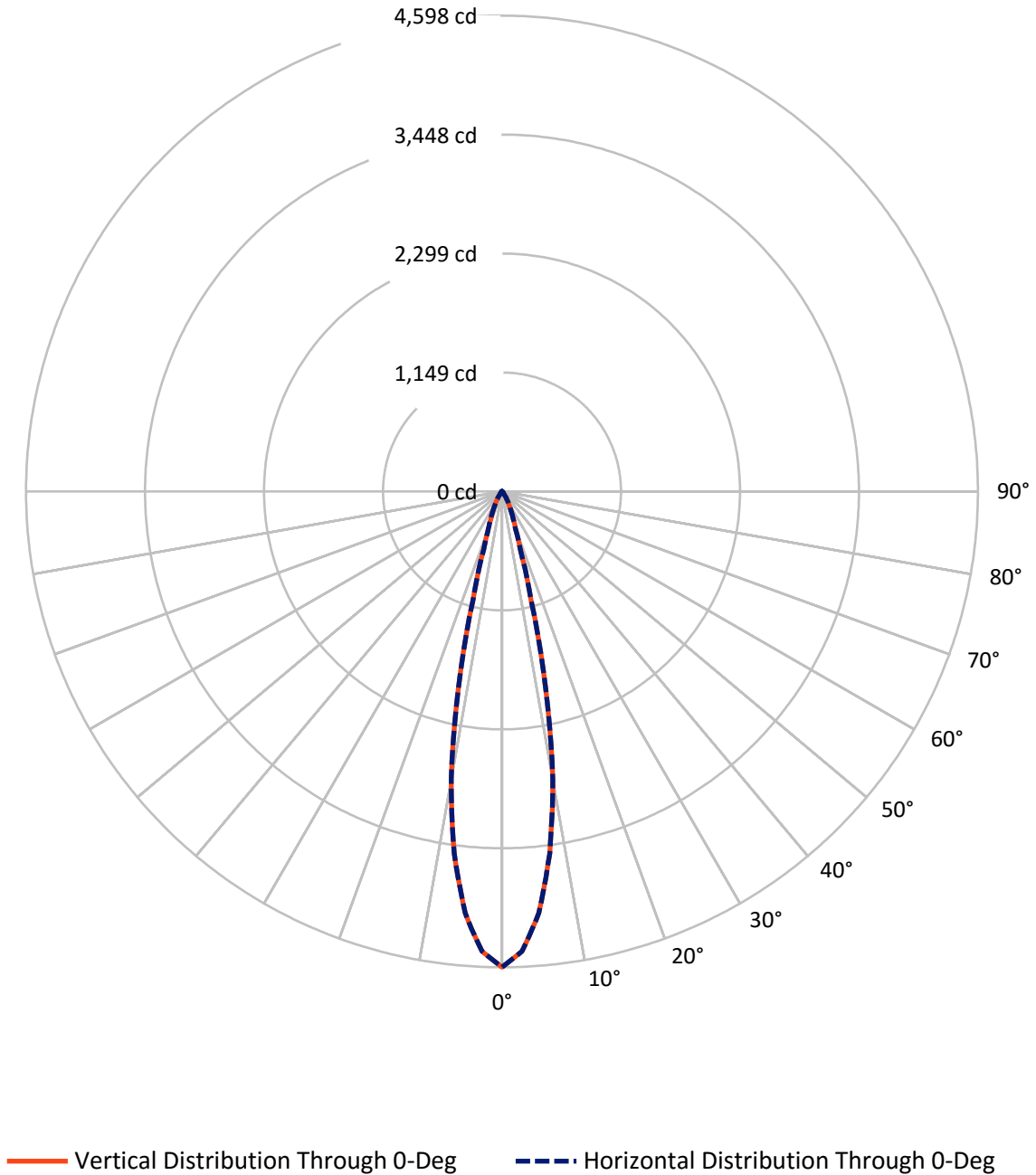
REPORT NUMBER: P220416 (CONVERTED FROM TYPE C PHOTOMETRY)
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Lumen Table

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|------|-------|-------|------|-----|-----|-----|-----|-----|-----|
| 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 | 0.0 |
| 80 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 60 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 50 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | |
| 40 | | 0.0 | 0.0 | 0.1 | 0.2 | 0.4 | 1.0 | 1.6 | 1.6 | 1.0 | 0.4 | 0.2 | 0.1 | 0.0 | | |
| 30 | 0.0 | 0.0 | 0.0 | 0.1 | 0.4 | 1.6 | 3.9 | 6.2 | 6.2 | 3.9 | 1.6 | 0.4 | 0.1 | 0.0 | 0.0 | |
| 20 | | 0.0 | 0.0 | 0.2 | 0.9 | 3.7 | 11.1 | 31.9 | 31.9 | 11.1 | 3.7 | 0.9 | 0.2 | 0.0 | | |
| 10 | 0.0 | 0.0 | 0.0 | 0.2 | 1.4 | 5.7 | 31.1 | 101.8 | 101.8 | 31.1 | 5.7 | 1.4 | 0.2 | 0.0 | 0.0 | |
| 0 | | 0.0 | 0.0 | 0.2 | 1.4 | 5.7 | 31.1 | 101.8 | 101.8 | 31.1 | 5.7 | 1.4 | 0.2 | 0.0 | | |
| -10 | 0.0 | 0.0 | 0.0 | 0.2 | 0.9 | 3.7 | 11.1 | 31.9 | 31.9 | 11.1 | 3.7 | 0.9 | 0.2 | 0.0 | 0.0 | |
| -20 | | 0.0 | 0.0 | 0.1 | 0.4 | 1.6 | 3.9 | 6.2 | 6.2 | 3.9 | 1.6 | 0.4 | 0.1 | 0.0 | | |
| -30 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.4 | 1.0 | 1.6 | 1.6 | 1.0 | 0.4 | 0.2 | 0.1 | 0.0 | 0.0 | |
| -40 | | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | | |
| -50 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| -60 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| -70 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| -80 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| -90 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |

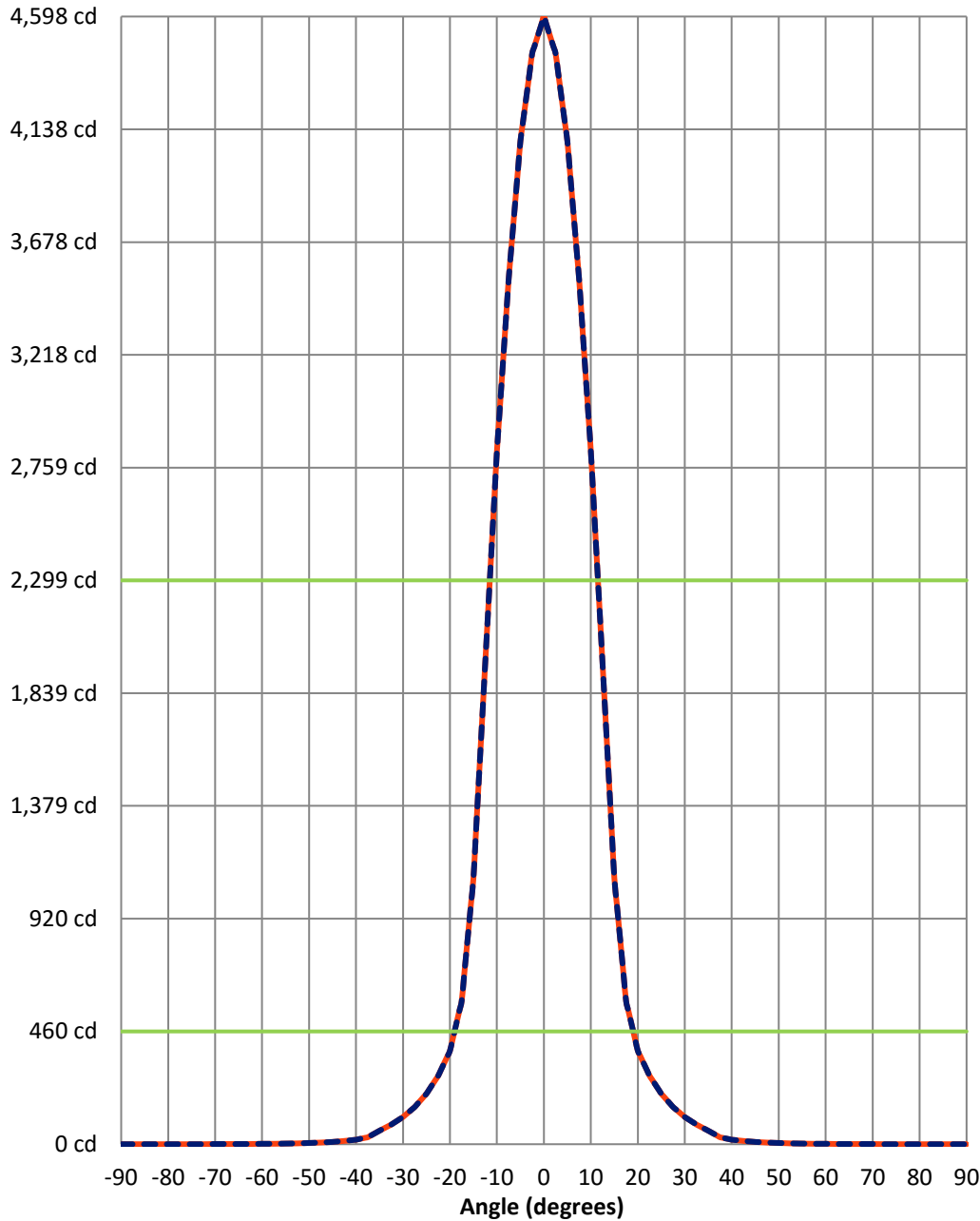
REPORT NUMBER: P220416 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-M-BK-L1-UNV

Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 23°
 V Angle: 23°
 Lumens: 427.7
 Efficiency: 52.2%

Field:
 H Angle: 38.1°
 V Angle: 38.1°
 Lumens: 656.7
 Efficiency: 80.2%

Spill:
 Lumens: 162.5
 Efficiency: 19.8%

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



REPORT NUMBER: P220416 (CONVERTED FROM TYPE C PHOTOMETRY)
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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 | 1 |
| 35° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 32.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 30° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 27.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 25° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 22.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 20° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 17.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 15° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 12.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 10° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 7.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 2.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| -2.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| -5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| -7.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| -10° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| -12.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| -15° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| -17.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| -20° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-M-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 | 1 | 1 |
| -25° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| -27.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| -30° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| -32.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| -35° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| -37.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| -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]-FL-LED4097-M-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 | 1 |
| 62.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 60° | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |
| 57.5° | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 55° | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 52.5° | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 50° | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 |
| 47.5° | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| 45° | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| 42.5° | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 |
| 40° | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 |
| 37.5° | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 4 |
| 35° | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 4 | 5 |
| 32.5° | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 4 | 5 | 6 |
| 30° | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 5 | 6 | 8 |
| 27.5° | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 4 | 6 | 7 | 9 |
| 25° | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 5 | 6 | 8 | 11 |
| 22.5° | 1 | 1 | 2 | 2 | 2 | 3 | 4 | 6 | 7 | 9 | 13 |
| 20° | 1 | 1 | 2 | 2 | 2 | 3 | 5 | 6 | 8 | 11 | 15 |
| 17.5° | 1 | 1 | 2 | 2 | 3 | 4 | 5 | 7 | 9 | 12 | 17 |
| 15° | 1 | 1 | 2 | 2 | 3 | 4 | 6 | 7 | 10 | 14 | 18 |
| 12.5° | 1 | 1 | 2 | 2 | 3 | 4 | 6 | 8 | 11 | 15 | 21 |
| 10° | 1 | 2 | 2 | 2 | 3 | 5 | 6 | 8 | 12 | 16 | 24 |
| 7.5° | 1 | 2 | 2 | 2 | 3 | 5 | 6 | 9 | 12 | 17 | 26 |
| 5° | 1 | 2 | 2 | 2 | 3 | 5 | 7 | 9 | 13 | 18 | 27 |
| 2.5° | 1 | 2 | 2 | 2 | 3 | 5 | 7 | 9 | 13 | 18 | 28 |
| 0° | 1 | 2 | 2 | 3 | 3 | 5 | 7 | 9 | 13 | 18 | 28 |
| -2.5° | 1 | 2 | 2 | 2 | 3 | 5 | 7 | 9 | 13 | 18 | 28 |
| -5° | 1 | 2 | 2 | 2 | 3 | 5 | 7 | 9 | 13 | 18 | 27 |
| -7.5° | 1 | 2 | 2 | 2 | 3 | 5 | 6 | 9 | 12 | 17 | 26 |
| -10° | 1 | 2 | 2 | 2 | 3 | 5 | 6 | 8 | 12 | 16 | 24 |
| -12.5° | 1 | 1 | 2 | 2 | 3 | 4 | 6 | 8 | 11 | 15 | 21 |
| -15° | 1 | 1 | 2 | 2 | 3 | 4 | 6 | 7 | 10 | 14 | 18 |
| -17.5° | 1 | 1 | 2 | 2 | 3 | 4 | 5 | 7 | 9 | 12 | 17 |
| -20° | 1 | 1 | 2 | 2 | 2 | 3 | 5 | 6 | 8 | 11 | 15 |



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-M-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° | 1 | 1 | 2 | 2 | 2 | 3 | 4 | 6 | 7 | 9 | 13 |
| -25° | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 5 | 6 | 8 | 11 |
| -27.5° | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 4 | 6 | 7 | 9 |
| -30° | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 5 | 6 | 8 |
| -32.5° | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 4 | 5 | 6 |
| -35° | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 4 | 5 |
| -37.5° | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 4 |
| -40° | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 |
| -42.5° | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 |
| -45° | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| -47.5° | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| -50° | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 |
| -52.5° | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| -55° | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| -57.5° | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| -60° | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |
| -62.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| -65° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| -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]-FL-LED4097-M-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 | 1 | 1 | 1 |
| 67.5° | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 65° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 62.5° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 60° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| 57.5° | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| 55° | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 52.5° | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| 50° | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 5 |
| 47.5° | 2 | 2 | 3 | 3 | 3 | 4 | 5 | 5 | 6 | 6 | 6 |
| 45° | 3 | 3 | 3 | 4 | 5 | 6 | 6 | 7 | 7 | 8 | 8 |
| 42.5° | 3 | 4 | 5 | 6 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 40° | 4 | 5 | 6 | 7 | 8 | 9 | 11 | 12 | 14 | 15 | 16 |
| 37.5° | 5 | 6 | 8 | 9 | 11 | 13 | 15 | 17 | 18 | 21 | 24 |
| 35° | 6 | 8 | 10 | 12 | 14 | 17 | 20 | 24 | 28 | 35 | 42 |
| 32.5° | 8 | 10 | 12 | 15 | 18 | 23 | 28 | 39 | 50 | 59 | 67 |
| 30° | 10 | 12 | 15 | 19 | 25 | 35 | 49 | 62 | 73 | 83 | 93 |
| 27.5° | 12 | 15 | 19 | 26 | 39 | 55 | 70 | 83 | 98 | 111 | 124 |
| 25° | 14 | 18 | 25 | 39 | 57 | 74 | 91 | 108 | 127 | 147 | 165 |
| 22.5° | 17 | 23 | 35 | 55 | 74 | 94 | 114 | 139 | 164 | 192 | 220 |
| 20° | 20 | 28 | 49 | 70 | 91 | 114 | 143 | 175 | 211 | 251 | 288 |
| 17.5° | 24 | 39 | 62 | 83 | 108 | 139 | 175 | 219 | 268 | 324 | 378 |
| 15° | 28 | 50 | 73 | 98 | 127 | 164 | 211 | 268 | 336 | 414 | 527 |
| 12.5° | 35 | 59 | 83 | 111 | 147 | 192 | 251 | 324 | 414 | 571 | 840 |
| 10° | 42 | 67 | 93 | 124 | 165 | 220 | 288 | 378 | 527 | 840 | 1369 |
| 7.5° | 48 | 72 | 100 | 135 | 181 | 245 | 328 | 440 | 695 | 1229 | 1965 |
| 5° | 52 | 77 | 106 | 144 | 195 | 264 | 357 | 507 | 882 | 1605 | 2441 |
| 2.5° | 54 | 79 | 110 | 150 | 203 | 275 | 375 | 563 | 1033 | 1866 | 2726 |
| 0° | 55 | 80 | 111 | 152 | 206 | 279 | 381 | 584 | 1085 | 1957 | 2825 |
| -2.5° | 54 | 79 | 110 | 150 | 203 | 275 | 375 | 563 | 1033 | 1866 | 2726 |
| -5° | 52 | 77 | 106 | 144 | 195 | 264 | 357 | 507 | 882 | 1605 | 2441 |
| -7.5° | 48 | 72 | 100 | 135 | 181 | 245 | 328 | 440 | 695 | 1229 | 1965 |
| -10° | 42 | 67 | 93 | 124 | 165 | 220 | 288 | 378 | 527 | 840 | 1369 |
| -12.5° | 35 | 59 | 83 | 111 | 147 | 192 | 251 | 324 | 414 | 571 | 840 |
| -15° | 28 | 50 | 73 | 98 | 127 | 164 | 211 | 268 | 336 | 414 | 527 |
| -17.5° | 24 | 39 | 62 | 83 | 108 | 139 | 175 | 219 | 268 | 324 | 378 |
| -20° | 20 | 28 | 49 | 70 | 91 | 114 | 143 | 175 | 211 | 251 | 288 |



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-M-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

| | -35° | -32.5° | -30° | -27.5° | -25° | -22.5° | -20° | -17.5° | -15° | -12.5° | -10° |
|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| -22.5° | 17 | 23 | 35 | 55 | 74 | 94 | 114 | 139 | 164 | 192 | 220 |
| -25° | 14 | 18 | 25 | 39 | 57 | 74 | 91 | 108 | 127 | 147 | 165 |
| -27.5° | 12 | 15 | 19 | 26 | 39 | 55 | 70 | 83 | 98 | 111 | 124 |
| -30° | 10 | 12 | 15 | 19 | 25 | 35 | 49 | 62 | 73 | 83 | 93 |
| -32.5° | 8 | 10 | 12 | 15 | 18 | 23 | 28 | 39 | 50 | 59 | 67 |
| -35° | 6 | 8 | 10 | 12 | 14 | 17 | 20 | 24 | 28 | 35 | 42 |
| -37.5° | 5 | 6 | 8 | 9 | 11 | 13 | 15 | 17 | 18 | 21 | 24 |
| -40° | 4 | 5 | 6 | 7 | 8 | 9 | 11 | 12 | 14 | 15 | 16 |
| -42.5° | 3 | 4 | 5 | 6 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| -45° | 3 | 3 | 3 | 4 | 5 | 6 | 6 | 7 | 7 | 8 | 8 |
| -47.5° | 2 | 2 | 3 | 3 | 3 | 4 | 5 | 5 | 6 | 6 | 6 |
| -50° | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 5 |
| -52.5° | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| -55° | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| -57.5° | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| -60° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| -62.5° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| -65° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| -67.5° | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| -70° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| -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]-FL-LED4097-M-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° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |
| 67.5° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 65° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 62.5° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 60° | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 |
| 57.5° | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 55° | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 52.5° | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 50° | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 |
| 47.5° | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 6 | 6 | 5 |
| 45° | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 8 | 7 | 7 |
| 42.5° | 12 | 13 | 13 | 13 | 13 | 13 | 12 | 12 | 11 | 10 | 9 |
| 40° | 17 | 18 | 18 | 18 | 18 | 18 | 17 | 16 | 15 | 14 | 12 |
| 37.5° | 26 | 27 | 28 | 28 | 28 | 27 | 26 | 24 | 21 | 18 | 17 |
| 35° | 48 | 52 | 54 | 55 | 54 | 52 | 48 | 42 | 35 | 28 | 24 |
| 32.5° | 72 | 77 | 79 | 80 | 79 | 77 | 72 | 67 | 59 | 50 | 39 |
| 30° | 100 | 106 | 110 | 111 | 110 | 106 | 100 | 93 | 83 | 73 | 62 |
| 27.5° | 135 | 144 | 150 | 152 | 150 | 144 | 135 | 124 | 111 | 98 | 83 |
| 25° | 181 | 195 | 203 | 206 | 203 | 195 | 181 | 165 | 147 | 127 | 108 |
| 22.5° | 245 | 264 | 275 | 279 | 275 | 264 | 245 | 220 | 192 | 164 | 139 |
| 20° | 328 | 357 | 375 | 381 | 375 | 357 | 328 | 288 | 251 | 211 | 175 |
| 17.5° | 440 | 507 | 563 | 584 | 563 | 507 | 440 | 378 | 324 | 268 | 219 |
| 15° | 695 | 882 | 1033 | 1085 | 1033 | 882 | 695 | 527 | 414 | 336 | 268 |
| 12.5° | 1229 | 1605 | 1866 | 1957 | 1866 | 1605 | 1229 | 840 | 571 | 414 | 324 |
| 10° | 1965 | 2441 | 2726 | 2825 | 2726 | 2441 | 1965 | 1369 | 840 | 527 | 378 |
| 7.5° | 2633 | 3119 | 3424 | 3527 | 3424 | 3119 | 2633 | 1965 | 1229 | 695 | 440 |
| 5° | 3119 | 3638 | 3968 | 4090 | 3968 | 3638 | 3119 | 2441 | 1605 | 882 | 507 |
| 2.5° | 3424 | 3968 | 4325 | 4447 | 4325 | 3968 | 3424 | 2726 | 1866 | 1033 | 563 |
| 0° | 3527 | 4090 | 4447 | 4598 | 4447 | 4090 | 3527 | 2825 | 1957 | 1085 | 584 |
| -2.5° | 3424 | 3968 | 4325 | 4447 | 4325 | 3968 | 3424 | 2726 | 1866 | 1033 | 563 |
| -5° | 3119 | 3638 | 3968 | 4090 | 3968 | 3638 | 3119 | 2441 | 1605 | 882 | 507 |
| -7.5° | 2633 | 3119 | 3424 | 3527 | 3424 | 3119 | 2633 | 1965 | 1229 | 695 | 440 |
| -10° | 1965 | 2441 | 2726 | 2825 | 2726 | 2441 | 1965 | 1369 | 840 | 527 | 378 |
| -12.5° | 1229 | 1605 | 1866 | 1957 | 1866 | 1605 | 1229 | 840 | 571 | 414 | 324 |
| -15° | 695 | 882 | 1033 | 1085 | 1033 | 882 | 695 | 527 | 414 | 336 | 268 |
| -17.5° | 440 | 507 | 563 | 584 | 563 | 507 | 440 | 378 | 324 | 268 | 219 |
| -20° | 328 | 357 | 375 | 381 | 375 | 357 | 328 | 288 | 251 | 211 | 175 |



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CANDELA DISTRIBUTION (continued):

| | -7.5° | -5° | -2.5° | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° |
|--------|-------|-----|-------|-----|------|-----|------|-----|-------|-----|-------|
| -22.5° | 245 | 264 | 275 | 279 | 275 | 264 | 245 | 220 | 192 | 164 | 139 |
| -25° | 181 | 195 | 203 | 206 | 203 | 195 | 181 | 165 | 147 | 127 | 108 |
| -27.5° | 135 | 144 | 150 | 152 | 150 | 144 | 135 | 124 | 111 | 98 | 83 |
| -30° | 100 | 106 | 110 | 111 | 110 | 106 | 100 | 93 | 83 | 73 | 62 |
| -32.5° | 72 | 77 | 79 | 80 | 79 | 77 | 72 | 67 | 59 | 50 | 39 |
| -35° | 48 | 52 | 54 | 55 | 54 | 52 | 48 | 42 | 35 | 28 | 24 |
| -37.5° | 26 | 27 | 28 | 28 | 28 | 27 | 26 | 24 | 21 | 18 | 17 |
| -40° | 17 | 18 | 18 | 18 | 18 | 18 | 17 | 16 | 15 | 14 | 12 |
| -42.5° | 12 | 13 | 13 | 13 | 13 | 13 | 12 | 12 | 11 | 10 | 9 |
| -45° | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 8 | 7 | 7 |
| -47.5° | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 6 | 6 | 5 |
| -50° | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 |
| -52.5° | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| -55° | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| -57.5° | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| -60° | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 |
| -62.5° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| -65° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| -67.5° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| -70° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 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]-FL-LED4097-M-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° | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 65° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| 62.5° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |
| 60° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 57.5° | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 55° | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 52.5° | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 |
| 50° | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 |
| 47.5° | 5 | 4 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 1 |
| 45° | 6 | 6 | 5 | 4 | 3 | 3 | 3 | 2 | 2 | 2 | 2 |
| 42.5° | 8 | 7 | 6 | 6 | 5 | 4 | 3 | 3 | 2 | 2 | 2 |
| 40° | 11 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 3 | 2 | 2 |
| 37.5° | 15 | 13 | 11 | 9 | 8 | 6 | 5 | 4 | 3 | 3 | 2 |
| 35° | 20 | 17 | 14 | 12 | 10 | 8 | 6 | 5 | 4 | 3 | 3 |
| 32.5° | 28 | 23 | 18 | 15 | 12 | 10 | 8 | 6 | 5 | 4 | 3 |
| 30° | 49 | 35 | 25 | 19 | 15 | 12 | 10 | 8 | 6 | 5 | 3 |
| 27.5° | 70 | 55 | 39 | 26 | 19 | 15 | 12 | 9 | 7 | 6 | 4 |
| 25° | 91 | 74 | 57 | 39 | 25 | 18 | 14 | 11 | 8 | 6 | 5 |
| 22.5° | 114 | 94 | 74 | 55 | 35 | 23 | 17 | 13 | 9 | 7 | 6 |
| 20° | 143 | 114 | 91 | 70 | 49 | 28 | 20 | 15 | 11 | 8 | 6 |
| 17.5° | 175 | 139 | 108 | 83 | 62 | 39 | 24 | 17 | 12 | 9 | 7 |
| 15° | 211 | 164 | 127 | 98 | 73 | 50 | 28 | 18 | 14 | 10 | 7 |
| 12.5° | 251 | 192 | 147 | 111 | 83 | 59 | 35 | 21 | 15 | 11 | 8 |
| 10° | 288 | 220 | 165 | 124 | 93 | 67 | 42 | 24 | 16 | 12 | 8 |
| 7.5° | 328 | 245 | 181 | 135 | 100 | 72 | 48 | 26 | 17 | 12 | 9 |
| 5° | 357 | 264 | 195 | 144 | 106 | 77 | 52 | 27 | 18 | 13 | 9 |
| 2.5° | 375 | 275 | 203 | 150 | 110 | 79 | 54 | 28 | 18 | 13 | 9 |
| 0° | 381 | 279 | 206 | 152 | 111 | 80 | 55 | 28 | 18 | 13 | 9 |
| -2.5° | 375 | 275 | 203 | 150 | 110 | 79 | 54 | 28 | 18 | 13 | 9 |
| -5° | 357 | 264 | 195 | 144 | 106 | 77 | 52 | 27 | 18 | 13 | 9 |
| -7.5° | 328 | 245 | 181 | 135 | 100 | 72 | 48 | 26 | 17 | 12 | 9 |
| -10° | 288 | 220 | 165 | 124 | 93 | 67 | 42 | 24 | 16 | 12 | 8 |
| -12.5° | 251 | 192 | 147 | 111 | 83 | 59 | 35 | 21 | 15 | 11 | 8 |
| -15° | 211 | 164 | 127 | 98 | 73 | 50 | 28 | 18 | 14 | 10 | 7 |
| -17.5° | 175 | 139 | 108 | 83 | 62 | 39 | 24 | 17 | 12 | 9 | 7 |
| -20° | 143 | 114 | 91 | 70 | 49 | 28 | 20 | 15 | 11 | 8 | 6 |



REPORT NUMBER: P220416 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-M-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

| | 20° | 22.5° | 25° | 27.5° | 30° | 32.5° | 35° | 37.5° | 40° | 42.5° | 45° |
|--------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
| -22.5° | 114 | 94 | 74 | 55 | 35 | 23 | 17 | 13 | 9 | 7 | 6 |
| -25° | 91 | 74 | 57 | 39 | 25 | 18 | 14 | 11 | 8 | 6 | 5 |
| -27.5° | 70 | 55 | 39 | 26 | 19 | 15 | 12 | 9 | 7 | 6 | 4 |
| -30° | 49 | 35 | 25 | 19 | 15 | 12 | 10 | 8 | 6 | 5 | 3 |
| -32.5° | 28 | 23 | 18 | 15 | 12 | 10 | 8 | 6 | 5 | 4 | 3 |
| -35° | 20 | 17 | 14 | 12 | 10 | 8 | 6 | 5 | 4 | 3 | 3 |
| -37.5° | 15 | 13 | 11 | 9 | 8 | 6 | 5 | 4 | 3 | 3 | 2 |
| -40° | 11 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 3 | 2 | 2 |
| -42.5° | 8 | 7 | 6 | 6 | 5 | 4 | 3 | 3 | 2 | 2 | 2 |
| -45° | 6 | 6 | 5 | 4 | 3 | 3 | 3 | 2 | 2 | 2 | 2 |
| -47.5° | 5 | 4 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 1 |
| -50° | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 |
| -52.5° | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 |
| -55° | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| -57.5° | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| -60° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| -62.5° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |
| -65° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| -67.5° | 1 | 1 | 1 | 1 | 1 | 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: P220416 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-M-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° | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 57.5° | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 55° | 1 | 1 | 1 | 1 | 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 | 0 | 0 | 0 | 0 | 0 | 0 |
| 47.5° | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 45° | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 42.5° | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| 40° | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| 37.5° | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| 35° | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| 32.5° | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| 30° | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |
| 27.5° | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |
| 25° | 3 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |
| 22.5° | 4 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 0 | 0 |
| 20° | 5 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 0 | 0 |
| 17.5° | 5 | 4 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 0 | 0 |
| 15° | 6 | 4 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 0 |
| 12.5° | 6 | 4 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 0 |
| 10° | 6 | 5 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 0 |
| 7.5° | 6 | 5 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 0 |
| 5° | 7 | 5 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 0 |
| 2.5° | 7 | 5 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 0 |
| 0° | 7 | 5 | 3 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 0 |
| -2.5° | 7 | 5 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 0 |
| -5° | 7 | 5 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 0 |
| -7.5° | 6 | 5 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 0 |
| -10° | 6 | 5 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 0 |
| -12.5° | 6 | 4 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 0 |
| -15° | 6 | 4 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 0 |
| -17.5° | 5 | 4 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 0 | 0 |
| -20° | 5 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 0 | 0 |



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CANDELA DISTRIBUTION (continued):

| | 47.5° | 50° | 52.5° | 55° | 57.5° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° |
|--------|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|
| -22.5° | 4 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 0 | 0 |
| -25° | 3 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |
| -27.5° | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |
| -30° | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |
| -32.5° | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| -35° | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| -37.5° | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| -40° | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| -42.5° | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| -45° | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| -47.5° | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| -50° | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| -52.5° | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| -55° | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -57.5° | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -60° | 1 | 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]-FL-LED4097-M-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 |



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CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-M-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)