

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: P220382 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1002-[A1, P1, S1, SU1]-FL-LED3097-M-WT-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220382 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29418)  
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-LED3097-M-WT-L1-UNV  
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS,  
MEDIUM FLOOD OPTIC, WHITE HOUSING.  
Light Source: (1) 3000K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	783 lumens	Max Intensity:	4281.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	78.3 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	23.1°H x 23.1°V	Field Angle (10%):	38.1°H x 38.1°V
Beam Lumens:	398.8 lumens	Field Lumens:	613.3 lumens
Beam Efficiency:	50.9%	Field Efficiency:	78.3%

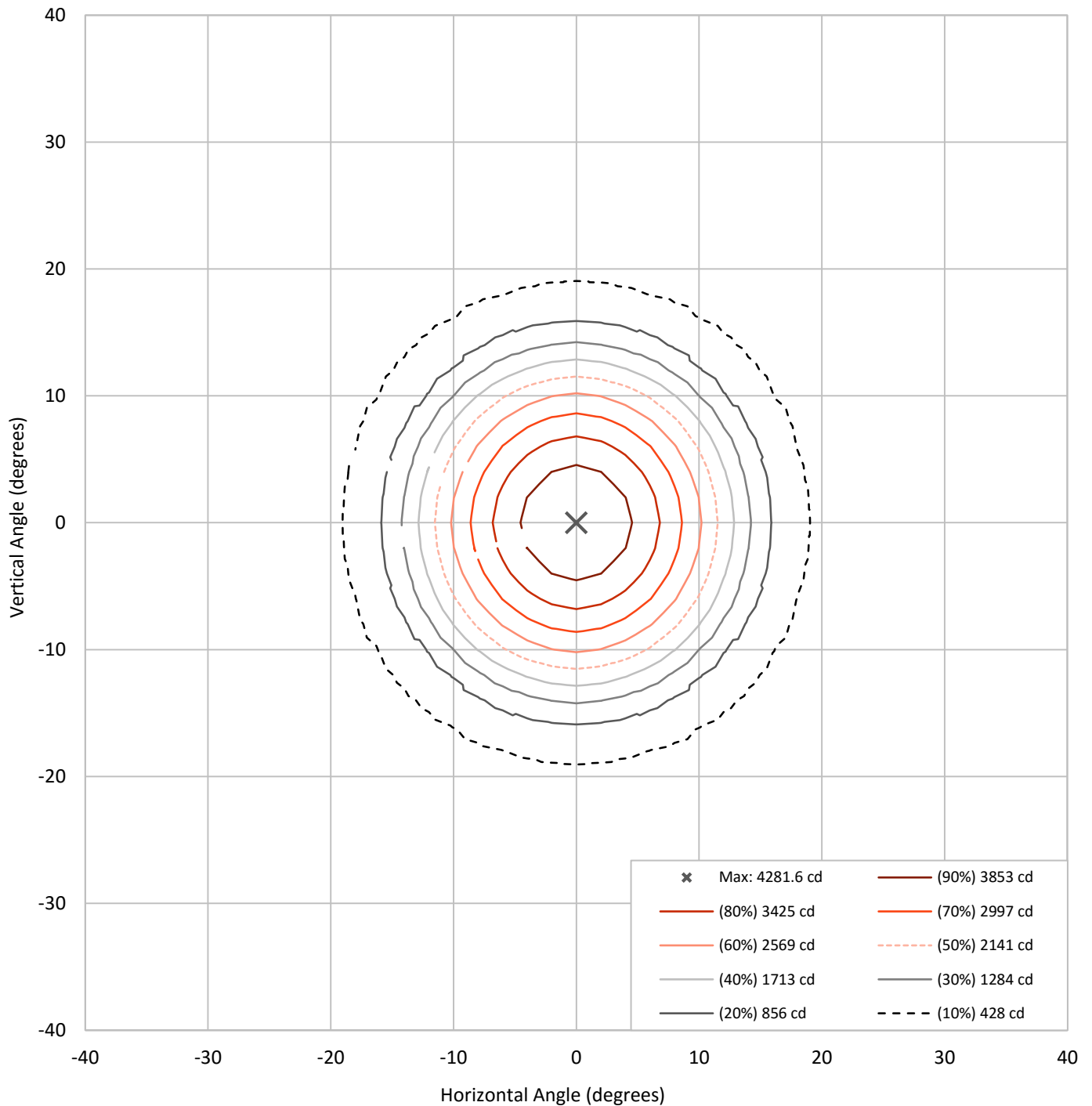
Input Watts (W): 10  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P220382 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-M-WT-L1-UNV

### Iso-Candela Plot



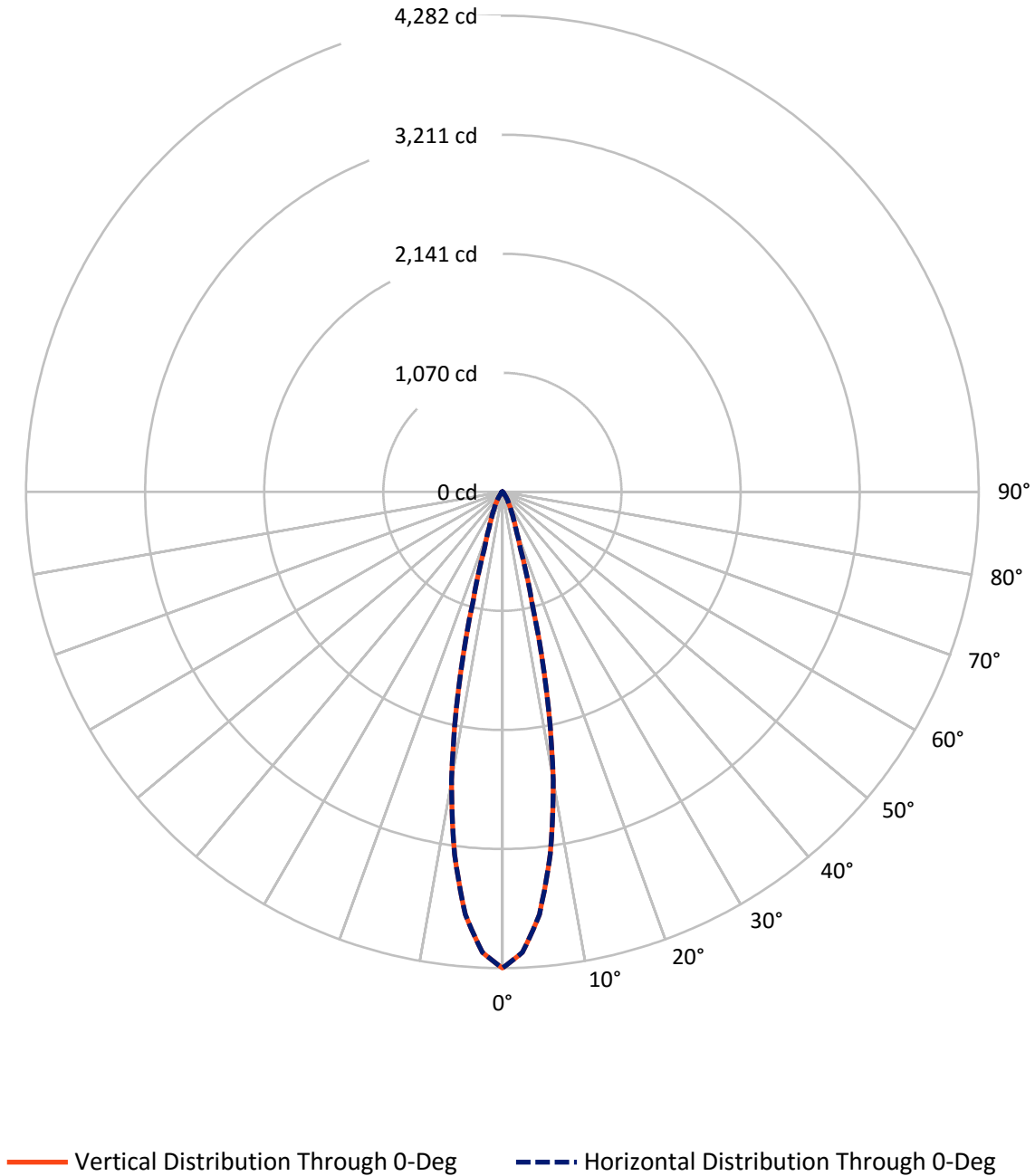
REPORT NUMBER: P220382 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-M-WT-L1-UNV

### Lumen Table

90	0.0	0.1	0.2	0.2	0.3	0.2	0.2	0.1	0.0										
80	0.0	0.1	0.2	0.2	0.3	0.2	0.2	0.1	0.0										
70	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0			
60		0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0				
50	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.0			
40		0.1	0.1	0.1	0.2	0.5	1.1	1.6	1.6	1.1	0.5	0.2	0.1	0.1	0.1				
30	0.1	0.1	0.1	0.2	0.5	1.6	3.7	5.8	5.8	3.7	1.6	0.5	0.2	0.1	0.1	0.1			
20		0.1	0.1	0.2	0.9	3.5	10.4	29.8	29.8	10.4	3.5	0.9	0.2	0.1	0.1				
10	0.1	0.1	0.1	0.3	1.3	5.3	29.1	95.0	95.0	29.1	5.3	1.3	0.3	0.1	0.1	0.1			
0		0.1	0.1	0.3	1.3	5.3	29.1	95.0	95.0	29.1	5.3	1.3	0.3	0.1	0.1				
-10	0.1	0.1	0.1	0.2	0.9	3.5	10.4	29.8	29.8	10.4	3.5	0.9	0.2	0.1	0.1	0.1			
-20		0.1	0.1	0.2	0.5	1.6	3.7	5.8	5.8	3.7	1.6	0.5	0.2	0.1	0.1				
-30	0.0	0.1	0.1	0.1	0.2	0.5	1.1	1.6	1.6	1.1	0.5	0.2	0.1	0.1	0.1	0.0			
-40		0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.3	0.2	0.2	0.1	0.1	0.1				
-50	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0			
-60		0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0				
-70	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0			
-80		0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0				
-90	0.0	0.1	0.2	0.2	0.3	0.2	0.2	0.1	0.0										

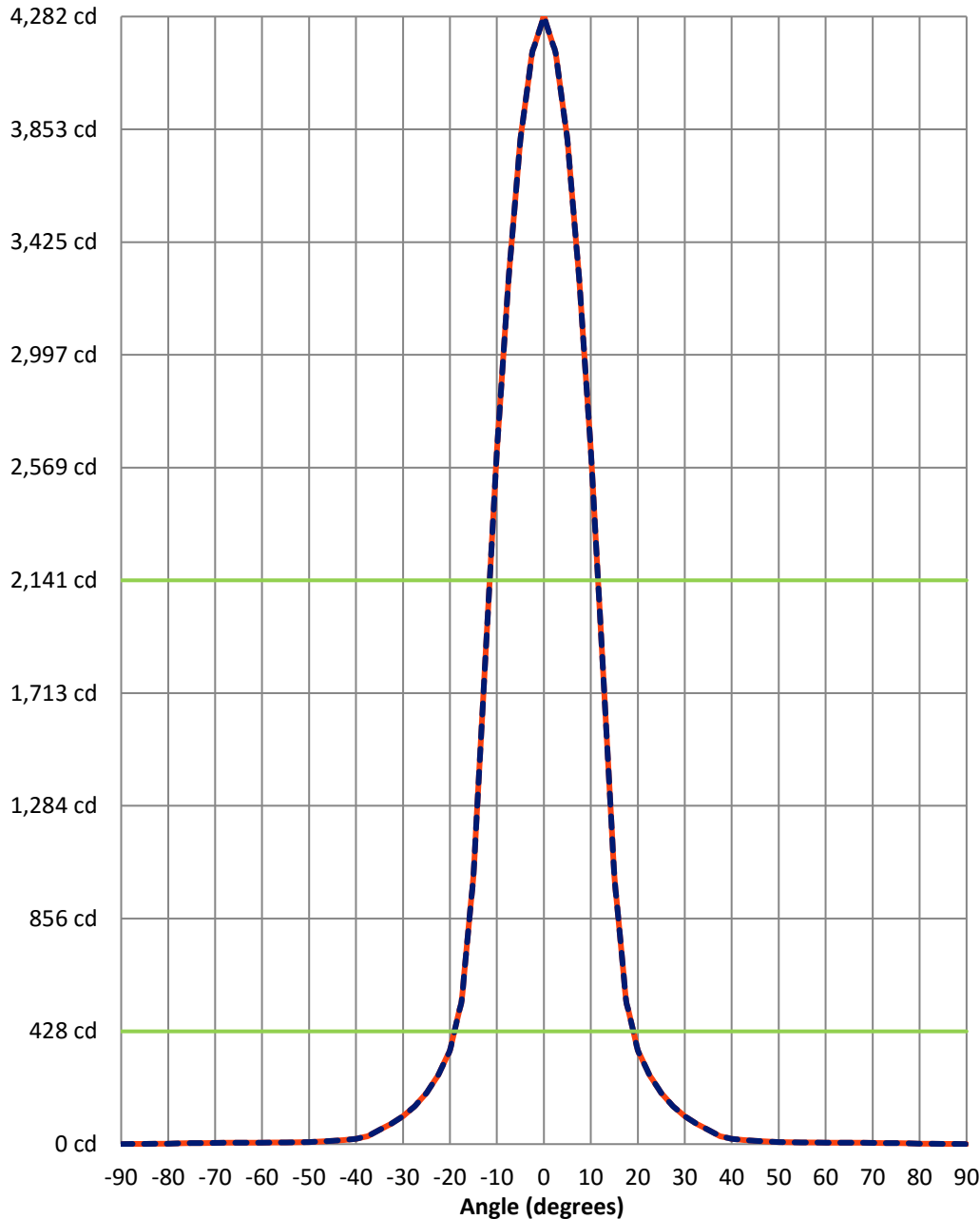
REPORT NUMBER: P220382 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-M-WT-L1-UNV

### Luminous Intensity Polar Plot



REPORT NUMBER: P220382 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-M-WT-L1-UNV

### Luminous Intensity Plot



**Beam:**  
 H Angle: 23.1°  
 V Angle: 23.1°  
 Lumens: 398.8  
 Efficiency: 50.9%

**Field:**  
 H Angle: 38.1°  
 V Angle: 38.1°  
 Lumens: 613.3  
 Efficiency: 78.3%

**Spill:**  
 Lumens: 169.7  
 Efficiency: 21.7%

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



REPORT NUMBER: P220382 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-M-WT-L1-UNV

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	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3
85°	0.0	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.7
82.5°	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.8	0.8
80°	0.0	0.1	0.3	0.4	0.6	0.7	0.8	0.8	0.8	0.8	0.8
77.5°	0.0	0.2	0.3	0.5	0.7	0.8	0.8	0.8	0.8	0.8	0.9
75°	0.0	0.2	0.4	0.6	0.8	0.8	0.8	0.8	0.8	1.0	1.2
72.5°	0.0	0.2	0.5	0.7	0.8	0.8	0.8	0.9	1.1	1.3	1.4
70°	0.0	0.3	0.5	0.8	0.8	0.8	0.8	1.1	1.3	1.5	1.5
67.5°	0.0	0.3	0.6	0.8	0.8	0.8	1.0	1.3	1.5	1.5	1.5
65°	0.0	0.3	0.7	0.8	0.8	0.9	1.2	1.4	1.5	1.5	1.7
62.5°	0.0	0.4	0.7	0.8	0.8	1.0	1.3	1.5	1.5	1.6	2.3
60°	0.0	0.4	0.8	0.8	0.8	1.1	1.5	1.5	1.5	2.2	2.9
57.5°	0.0	0.4	0.8	0.8	0.9	1.3	1.5	1.5	1.9	2.7	3.3
55°	0.0	0.5	0.8	0.8	1.0	1.4	1.5	1.5	2.3	3.2	3.6
52.5°	0.0	0.5	0.8	0.8	1.1	1.5	1.5	1.9	2.8	3.4	3.9
50°	0.0	0.5	0.8	0.8	1.2	1.5	1.5	2.2	3.2	3.7	3.9
47.5°	0.0	0.5	0.8	0.8	1.3	1.5	1.5	2.6	3.4	3.9	3.9
45°	0.0	0.6	0.8	0.9	1.4	1.5	1.8	3.0	3.6	3.9	3.9
42.5°	0.0	0.6	0.8	0.9	1.5	1.5	2.1	3.2	3.8	3.9	4.1
40°	0.0	0.6	0.8	1.0	1.5	1.5	2.4	3.4	3.9	3.9	4.3
37.5°	0.0	0.6	0.8	1.1	1.5	1.5	2.7	3.5	3.9	3.9	4.5
35°	0.0	0.7	0.8	1.1	1.5	1.6	2.9	3.7	3.9	4.1	4.7
32.5°	0.0	0.7	0.8	1.2	1.5	1.8	3.1	3.8	3.9	4.3	4.9
30°	0.0	0.7	0.8	1.2	1.5	2.0	3.2	3.9	3.9	4.4	5.1
27.5°	0.0	0.7	0.8	1.3	1.5	2.2	3.3	3.9	3.9	4.6	5.2
25°	0.0	0.7	0.8	1.3	1.5	2.3	3.4	3.9	4.1	4.7	5.4
22.5°	0.0	0.7	0.8	1.3	1.5	2.5	3.5	3.9	4.2	4.8	5.4
20°	0.0	0.8	0.8	1.4	1.5	2.6	3.6	3.9	4.2	4.9	5.4
17.5°	0.0	0.8	0.8	1.4	1.5	2.7	3.7	3.9	4.3	5.0	5.4
15°	0.0	0.8	0.8	1.4	1.5	2.8	3.7	3.9	4.4	5.1	5.4
12.5°	0.0	0.8	0.8	1.4	1.5	2.9	3.8	3.9	4.5	5.2	5.4
10°	0.0	0.8	0.8	1.5	1.5	3.0	3.8	3.9	4.5	5.3	5.4
7.5°	0.0	0.8	0.8	1.5	1.5	3.0	3.9	3.9	4.6	5.3	5.4
5°	0.0	0.8	0.8	1.5	1.5	3.1	3.9	3.9	4.6	5.4	5.4
2.5°	0.0	0.8	0.8	1.5	1.5	3.1	3.9	3.9	4.6	5.4	5.4
0°	0.0	0.8	0.8	1.5	1.5	3.1	3.9	3.9	4.6	5.4	5.4
-2.5°	0.0	0.8	0.8	1.5	1.5	3.1	3.9	3.9	4.6	5.4	5.4
-5°	0.0	0.8	0.8	1.5	1.5	3.1	3.9	3.9	4.6	5.4	5.4
-7.5°	0.0	0.8	0.8	1.5	1.5	3.0	3.9	3.9	4.6	5.3	5.4
-10°	0.0	0.8	0.8	1.5	1.5	3.0	3.8	3.9	4.5	5.3	5.4
-12.5°	0.0	0.8	0.8	1.4	1.5	2.9	3.8	3.9	4.5	5.2	5.4
-15°	0.0	0.8	0.8	1.4	1.5	2.8	3.7	3.9	4.4	5.1	5.4
-17.5°	0.0	0.8	0.8	1.4	1.5	2.7	3.7	3.9	4.3	5.0	5.4
-20°	0.0	0.8	0.8	1.4	1.5	2.6	3.6	3.9	4.2	4.9	5.4



REPORT NUMBER: P220382 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-M-WT-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	0.7	0.8	1.3	1.5	2.5	3.5	3.9	4.2	4.8	5.4
-25°	0.0	0.7	0.8	1.3	1.5	2.3	3.4	3.9	4.1	4.7	5.4
-27.5°	0.0	0.7	0.8	1.3	1.5	2.2	3.3	3.9	3.9	4.6	5.2
-30°	0.0	0.7	0.8	1.2	1.5	2.0	3.2	3.9	3.9	4.4	5.1
-32.5°	0.0	0.7	0.8	1.2	1.5	1.8	3.1	3.8	3.9	4.3	4.9
-35°	0.0	0.7	0.8	1.1	1.5	1.6	2.9	3.7	3.9	4.1	4.7
-37.5°	0.0	0.6	0.8	1.1	1.5	1.5	2.7	3.5	3.9	3.9	4.5
-40°	0.0	0.6	0.8	1.0	1.5	1.5	2.4	3.4	3.9	3.9	4.3
-42.5°	0.0	0.6	0.8	0.9	1.5	1.5	2.1	3.2	3.8	3.9	4.1
-45°	0.0	0.6	0.8	0.9	1.4	1.5	1.8	3.0	3.6	3.9	3.9
-47.5°	0.0	0.5	0.8	0.8	1.3	1.5	1.5	2.6	3.4	3.9	3.9
-50°	0.0	0.5	0.8	0.8	1.2	1.5	1.5	2.2	3.2	3.7	3.9
-52.5°	0.0	0.5	0.8	0.8	1.1	1.5	1.5	1.9	2.8	3.4	3.9
-55°	0.0	0.5	0.8	0.8	1.0	1.4	1.5	1.5	2.3	3.2	3.6
-57.5°	0.0	0.4	0.8	0.8	0.9	1.3	1.5	1.5	1.9	2.7	3.3
-60°	0.0	0.4	0.8	0.8	0.8	1.1	1.5	1.5	1.5	2.2	2.9
-62.5°	0.0	0.4	0.7	0.8	0.8	1.0	1.3	1.5	1.5	1.6	2.3
-65°	0.0	0.3	0.7	0.8	0.8	0.9	1.2	1.4	1.5	1.5	1.7
-67.5°	0.0	0.3	0.6	0.8	0.8	0.8	1.0	1.3	1.5	1.5	1.5
-70°	0.0	0.3	0.5	0.8	0.8	0.8	0.8	1.1	1.3	1.5	1.5
-72.5°	0.0	0.2	0.5	0.7	0.8	0.8	0.8	0.9	1.1	1.3	1.4
-75°	0.0	0.2	0.4	0.6	0.8	0.8	0.8	0.8	0.8	1.0	1.2
-77.5°	0.0	0.2	0.3	0.5	0.7	0.8	0.8	0.8	0.8	0.8	0.9
-80°	0.0	0.1	0.3	0.4	0.6	0.7	0.8	0.8	0.8	0.8	0.8
-82.5°	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.8	0.8
-85°	0.0	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.7
-87.5°	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3
-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: P220382 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-M-WT-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	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6
85°	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	1.0	1.1
80°	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.5	1.5
77.5°	1.0	1.1	1.3	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5
75°	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.8	2.1	2.4	2.7
72.5°	1.5	1.5	1.5	1.5	1.9	2.2	2.6	3.0	3.2	3.4	3.5
70°	1.5	1.5	1.9	2.3	2.8	3.2	3.4	3.6	3.8	3.9	3.9
67.5°	1.6	2.2	2.7	3.2	3.4	3.7	3.9	3.9	3.9	3.9	3.9
65°	2.3	2.9	3.3	3.6	3.9	3.9	3.9	3.9	4.1	4.3	4.5
62.5°	3.0	3.4	3.7	3.9	3.9	3.9	4.1	4.3	4.6	4.8	5.1
60°	3.4	3.7	3.9	3.9	4.0	4.2	4.5	4.8	5.1	5.4	5.4
57.5°	3.7	3.9	3.9	4.0	4.3	4.7	5.0	5.3	5.4	5.4	5.4
55°	3.9	3.9	4.0	4.4	4.7	5.1	5.4	5.4	5.4	5.4	5.4
52.5°	3.9	4.0	4.3	4.7	5.2	5.4	5.4	5.4	5.4	5.4	5.4
50°	3.9	4.2	4.7	5.1	5.4	5.4	5.4	5.4	5.4	5.4	5.6
47.5°	4.1	4.5	5.0	5.4	5.4	5.4	5.4	5.4	5.4	5.8	6.2
45°	4.3	4.8	5.3	5.4	5.4	5.4	5.4	5.4	5.9	6.2	6.2
42.5°	4.6	5.1	5.4	5.4	5.4	5.4	5.4	5.9	6.2	6.2	6.5
40°	4.8	5.4	5.4	5.4	5.4	5.4	5.8	6.2	6.2	6.5	7.0
37.5°	5.1	5.4	5.4	5.4	5.4	5.6	6.2	6.2	6.5	7.0	7.4
35°	5.3	5.4	5.4	5.4	5.4	6.0	6.2	6.3	6.9	7.4	8.2
32.5°	5.4	5.4	5.4	5.4	5.7	6.2	6.2	6.7	7.3	7.9	9.5
30°	5.4	5.4	5.4	5.4	6.0	6.2	6.5	7.1	7.6	9.1	10.9
27.5°	5.4	5.4	5.4	5.6	6.2	6.2	6.8	7.4	8.5	10.3	12.1
25°	5.4	5.4	5.4	5.8	6.2	6.4	7.1	7.7	9.5	11.4	13.6
22.5°	5.4	5.4	5.4	6.0	6.2	6.7	7.3	8.4	10.4	12.5	15.0
20°	5.4	5.4	5.5	6.2	6.2	6.9	7.5	9.2	11.3	13.7	16.8
17.5°	5.4	5.4	5.7	6.2	6.4	7.1	7.8	9.9	12.1	14.8	18.6
15°	5.4	5.4	5.8	6.2	6.5	7.2	8.4	10.6	12.9	15.9	20.2
12.5°	5.4	5.4	5.9	6.2	6.7	7.4	8.9	11.1	13.7	17.2	23.2
10°	5.4	5.4	6.0	6.2	6.8	7.5	9.3	11.6	14.3	18.2	25.6
7.5°	5.4	5.4	6.1	6.2	6.9	7.6	9.6	11.9	14.8	19.0	27.6
5°	5.4	5.4	6.2	6.2	6.9	7.6	9.8	12.2	15.2	19.6	29.0
2.5°	5.4	5.4	6.2	6.2	7.0	7.7	10.0	12.3	15.4	20.0	29.8
0°	5.4	5.4	6.2	6.2	7.0	7.7	10.0	12.4	15.5	20.1	30.1
-2.5°	5.4	5.4	6.2	6.2	7.0	7.7	10.0	12.3	15.4	20.0	29.8
-5°	5.4	5.4	6.2	6.2	6.9	7.6	9.8	12.2	15.2	19.6	29.0
-7.5°	5.4	5.4	6.1	6.2	6.9	7.6	9.6	11.9	14.8	19.0	27.6
-10°	5.4	5.4	6.0	6.2	6.8	7.5	9.3	11.6	14.3	18.2	25.6
-12.5°	5.4	5.4	5.9	6.2	6.7	7.4	8.9	11.1	13.7	17.2	23.2
-15°	5.4	5.4	5.8	6.2	6.5	7.2	8.4	10.6	12.9	15.9	20.2
-17.5°	5.4	5.4	5.7	6.2	6.4	7.1	7.8	9.9	12.1	14.8	18.6
-20°	5.4	5.4	5.5	6.2	6.2	6.9	7.5	9.2	11.3	13.7	16.8



REPORT NUMBER: P220382 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-M-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	5.4	5.4	5.4	6.0	6.2	6.7	7.3	8.4	10.4	12.5	15.0
-25°	5.4	5.4	5.4	5.8	6.2	6.4	7.1	7.7	9.5	11.4	13.6
-27.5°	5.4	5.4	5.4	5.6	6.2	6.2	6.8	7.4	8.5	10.3	12.1
-30°	5.4	5.4	5.4	5.4	6.0	6.2	6.5	7.1	7.6	9.1	10.9
-32.5°	5.4	5.4	5.4	5.4	5.7	6.2	6.2	6.7	7.3	7.9	9.5
-35°	5.3	5.4	5.4	5.4	5.4	6.0	6.2	6.3	6.9	7.4	8.2
-37.5°	5.1	5.4	5.4	5.4	5.4	5.6	6.2	6.2	6.5	7.0	7.4
-40°	4.8	5.4	5.4	5.4	5.4	5.4	5.8	6.2	6.2	6.5	7.0
-42.5°	4.6	5.1	5.4	5.4	5.4	5.4	5.4	5.9	6.2	6.2	6.5
-45°	4.3	4.8	5.3	5.4	5.4	5.4	5.4	5.4	5.9	6.2	6.2
-47.5°	4.1	4.5	5.0	5.4	5.4	5.4	5.4	5.4	5.4	5.8	6.2
-50°	3.9	4.2	4.7	5.1	5.4	5.4	5.4	5.4	5.4	5.4	5.6
-52.5°	3.9	4.0	4.3	4.7	5.2	5.4	5.4	5.4	5.4	5.4	5.4
-55°	3.9	3.9	4.0	4.4	4.7	5.1	5.4	5.4	5.4	5.4	5.4
-57.5°	3.7	3.9	3.9	4.0	4.3	4.7	5.0	5.3	5.4	5.4	5.4
-60°	3.4	3.7	3.9	3.9	4.0	4.2	4.5	4.8	5.1	5.4	5.4
-62.5°	3.0	3.4	3.7	3.9	3.9	3.9	4.1	4.3	4.6	4.8	5.1
-65°	2.3	2.9	3.3	3.6	3.9	3.9	3.9	3.9	4.1	4.3	4.5
-67.5°	1.6	2.2	2.7	3.2	3.4	3.7	3.9	3.9	3.9	3.9	3.9
-70°	1.5	1.5	1.9	2.3	2.8	3.2	3.4	3.6	3.8	3.9	3.9
-72.5°	1.5	1.5	1.5	1.5	1.9	2.2	2.6	3.0	3.2	3.4	3.5
-75°	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.8	2.1	2.4	2.7
-77.5°	1.0	1.1	1.3	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5
-80°	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.5	1.5
-82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	1.0	1.1
-85°	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
-87.5°	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6
-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: P220382 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-M-WT-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	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	1.1	1.2	1.2	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.5
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
77.5°	1.6	1.8	2.0	2.2	2.3	2.5	2.6	2.7	2.8	2.9	3.0
75°	2.9	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.7	3.8	3.8
72.5°	3.7	3.8	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
70°	3.9	3.9	3.9	3.9	4.1	4.2	4.2	4.3	4.4	4.5	4.5
67.5°	4.1	4.3	4.4	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3
65°	4.7	4.9	5.1	5.2	5.4	5.4	5.4	5.4	5.4	5.4	5.4
62.5°	5.3	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
60°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
57.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.5	5.7	5.8	5.9	6.0
55°	5.4	5.4	5.4	5.6	5.8	6.0	6.2	6.2	6.2	6.2	6.2
52.5°	5.4	5.7	6.0	6.2	6.2	6.2	6.2	6.4	6.5	6.7	6.8
50°	6.0	6.2	6.2	6.2	6.4	6.7	6.9	7.1	7.2	7.4	7.5
47.5°	6.2	6.2	6.5	6.8	7.1	7.3	7.5	7.8	8.4	8.9	9.3
45°	6.3	6.7	7.1	7.4	7.7	8.4	9.2	9.9	10.6	11.1	11.6
42.5°	6.9	7.3	7.6	8.5	9.5	10.4	11.3	12.1	12.9	13.7	14.3
40°	7.4	7.9	9.1	10.3	11.4	12.5	13.7	14.8	15.9	17.2	18.2
37.5°	8.2	9.5	10.9	12.1	13.6	15.0	16.8	18.6	20.2	23.2	25.6
35°	9.7	11.2	12.6	14.4	16.3	18.6	21.4	25.6	29.3	35.9	42.3
32.5°	11.2	12.8	14.8	17.2	19.8	24.8	29.8	40.2	49.8	58.1	64.8
30°	12.6	14.8	17.5	20.9	26.9	36.2	49.0	60.4	70.6	79.9	89.0
27.5°	14.4	17.2	20.9	27.6	39.7	54.4	67.7	80.4	93.9	105.7	117.9
25°	16.3	19.8	26.9	39.7	56.2	71.3	87.5	103.6	121.2	139.1	155.9
22.5°	18.6	24.8	36.2	54.4	71.3	89.8	109.2	131.8	155.6	180.9	207.1
20°	21.4	29.8	49.0	67.7	87.5	109.2	135.4	165.0	199.0	236.1	270.6
17.5°	25.6	40.2	60.4	80.4	103.6	131.8	165.0	206.1	251.2	303.7	353.3
15°	29.3	49.8	70.6	93.9	121.2	155.6	199.0	251.2	315.1	386.8	491.7
12.5°	35.9	58.1	79.9	105.7	139.1	180.9	236.1	303.7	386.8	533.1	788.9
10°	42.3	64.8	89.0	117.9	155.9	207.1	270.6	353.3	491.7	788.9	1287.7
7.5°	47.4	70.2	96.2	128.6	170.9	230.5	306.9	410.7	650.4	1155.3	1838.2
5°	51.1	74.1	101.5	136.6	183.5	247.7	333.9	473.7	828.5	1506.4	2276.0
2.5°	53.4	76.5	104.7	141.9	191.3	258.3	350.6	525.5	970.4	1746.3	2541.2
0°	54.1	77.3	105.8	143.7	193.9	261.9	356.2	545.5	1019.0	1830.3	2633.0
-2.5°	53.4	76.5	104.7	141.9	191.3	258.3	350.6	525.5	970.4	1746.3	2541.2
-5°	51.1	74.1	101.5	136.6	183.5	247.7	333.9	473.7	828.5	1506.4	2276.0
-7.5°	47.4	70.2	96.2	128.6	170.9	230.5	306.9	410.7	650.4	1155.3	1838.2
-10°	42.3	64.8	89.0	117.9	155.9	207.1	270.6	353.3	491.7	788.9	1287.7
-12.5°	35.9	58.1	79.9	105.7	139.1	180.9	236.1	303.7	386.8	533.1	788.9
-15°	29.3	49.8	70.6	93.9	121.2	155.6	199.0	251.2	315.1	386.8	491.7
-17.5°	25.6	40.2	60.4	80.4	103.6	131.8	165.0	206.1	251.2	303.7	353.3
-20°	21.4	29.8	49.0	67.7	87.5	109.2	135.4	165.0	199.0	236.1	270.6



REPORT NUMBER: P220382 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-M-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	18.6	24.8	36.2	54.4	71.3	89.8	109.2	131.8	155.6	180.9	207.1
-25°	16.3	19.8	26.9	39.7	56.2	71.3	87.5	103.6	121.2	139.1	155.9
-27.5°	14.4	17.2	20.9	27.6	39.7	54.4	67.7	80.4	93.9	105.7	117.9
-30°	12.6	14.8	17.5	20.9	26.9	36.2	49.0	60.4	70.6	79.9	89.0
-32.5°	11.2	12.8	14.8	17.2	19.8	24.8	29.8	40.2	49.8	58.1	64.8
-35°	9.7	11.2	12.6	14.4	16.3	18.6	21.4	25.6	29.3	35.9	42.3
-37.5°	8.2	9.5	10.9	12.1	13.6	15.0	16.8	18.6	20.2	23.2	25.6
-40°	7.4	7.9	9.1	10.3	11.4	12.5	13.7	14.8	15.9	17.2	18.2
-42.5°	6.9	7.3	7.6	8.5	9.5	10.4	11.3	12.1	12.9	13.7	14.3
-45°	6.3	6.7	7.1	7.4	7.7	8.4	9.2	9.9	10.6	11.1	11.6
-47.5°	6.2	6.2	6.5	6.8	7.1	7.3	7.5	7.8	8.4	8.9	9.3
-50°	6.0	6.2	6.2	6.2	6.4	6.7	6.9	7.1	7.2	7.4	7.5
-52.5°	5.4	5.7	6.0	6.2	6.2	6.2	6.2	6.4	6.5	6.7	6.8
-55°	5.4	5.4	5.4	5.6	5.8	6.0	6.2	6.2	6.2	6.2	6.2
-57.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.5	5.7	5.8	5.9	6.0
-60°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
-62.5°	5.3	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
-65°	4.7	4.9	5.1	5.2	5.4	5.4	5.4	5.4	5.4	5.4	5.4
-67.5°	4.1	4.3	4.4	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3
-70°	3.9	3.9	3.9	3.9	4.1	4.2	4.2	4.3	4.4	4.5	4.5
-72.5°	3.7	3.8	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
-75°	2.9	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.7	3.8	3.8
-77.5°	1.6	1.8	2.0	2.2	2.3	2.5	2.6	2.7	2.8	2.9	3.0
-80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
-82.5°	1.1	1.2	1.2	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.5
-85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
-87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8
-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: P220382 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-M-WT-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	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.4	1.4	1.4
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
77.5°	3.0	3.1	3.1	3.1	3.1	3.1	3.0	3.0	2.9	2.8	2.7
75°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.8	3.8	3.7	3.7
72.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
70°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.5	4.5	4.4	4.3
67.5°	5.3	5.4	5.4	5.4	5.4	5.4	5.3	5.3	5.2	5.1	5.0
65°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
62.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
60°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
57.5°	6.1	6.2	6.2	6.2	6.2	6.2	6.1	6.0	5.9	5.8	5.7
55°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
52.5°	6.9	6.9	7.0	7.0	7.0	6.9	6.9	6.8	6.7	6.5	6.4
50°	7.6	7.6	7.7	7.7	7.7	7.6	7.6	7.5	7.4	7.2	7.1
47.5°	9.6	9.8	10.0	10.0	10.0	9.8	9.6	9.3	8.9	8.4	7.8
45°	11.9	12.2	12.3	12.4	12.3	12.2	11.9	11.6	11.1	10.6	9.9
42.5°	14.8	15.2	15.4	15.5	15.4	15.2	14.8	14.3	13.7	12.9	12.1
40°	19.0	19.6	20.0	20.1	20.0	19.6	19.0	18.2	17.2	15.9	14.8
37.5°	27.6	29.0	29.8	30.1	29.8	29.0	27.6	25.6	23.2	20.2	18.6
35°	47.4	51.1	53.4	54.1	53.4	51.1	47.4	42.3	35.9	29.3	25.6
32.5°	70.2	74.1	76.5	77.3	76.5	74.1	70.2	64.8	58.1	49.8	40.2
30°	96.2	101.5	104.7	105.8	104.7	101.5	96.2	89.0	79.9	70.6	60.4
27.5°	128.6	136.6	141.9	143.7	141.9	136.6	128.6	117.9	105.7	93.9	80.4
25°	170.9	183.5	191.3	193.9	191.3	183.5	170.9	155.9	139.1	121.2	103.6
22.5°	230.5	247.7	258.3	261.9	258.3	247.7	230.5	207.1	180.9	155.6	131.8
20°	306.9	333.9	350.6	356.2	350.6	333.9	306.9	270.6	236.1	199.0	165.0
17.5°	410.7	473.7	525.5	545.5	525.5	473.7	410.7	353.3	303.7	251.2	206.1
15°	650.4	828.5	970.4	1019.0	970.4	828.5	650.4	491.7	386.8	315.1	251.2
12.5°	1155.3	1506.4	1746.3	1830.3	1746.3	1506.4	1155.3	788.9	533.1	386.8	303.7
10°	1838.2	2276.0	2541.2	2633.0	2541.2	2276.0	1838.2	1287.7	788.9	491.7	353.3
7.5°	2454.7	2907.9	3191.7	3289.3	3191.7	2907.9	2454.7	1838.2	1155.3	650.4	410.7
5°	2907.9	3394.1	3702.2	3815.0	3702.2	3394.1	2907.9	2276.0	1506.4	828.5	473.7
2.5°	3191.7	3702.2	4032.8	4143.7	4032.8	3702.2	3191.7	2541.2	1746.3	970.4	525.5
0°	3289.3	3815.0	4143.7	4281.6	4143.7	3815.0	3289.3	2633.0	1830.3	1019.0	545.5
-2.5°	3191.7	3702.2	4032.8	4143.7	4032.8	3702.2	3191.7	2541.2	1746.3	970.4	525.5
-5°	2907.9	3394.1	3702.2	3815.0	3702.2	3394.1	2907.9	2276.0	1506.4	828.5	473.7
-7.5°	2454.7	2907.9	3191.7	3289.3	3191.7	2907.9	2454.7	1838.2	1155.3	650.4	410.7
-10°	1838.2	2276.0	2541.2	2633.0	2541.2	2276.0	1838.2	1287.7	788.9	491.7	353.3
-12.5°	1155.3	1506.4	1746.3	1830.3	1746.3	1506.4	1155.3	788.9	533.1	386.8	303.7
-15°	650.4	828.5	970.4	1019.0	970.4	828.5	650.4	491.7	386.8	315.1	251.2
-17.5°	410.7	473.7	525.5	545.5	525.5	473.7	410.7	353.3	303.7	251.2	206.1
-20°	306.9	333.9	350.6	356.2	350.6	333.9	306.9	270.6	236.1	199.0	165.0



REPORT NUMBER: P220382 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-M-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	230.5	247.7	258.3	261.9	258.3	247.7	230.5	207.1	180.9	155.6	131.8
-25°	170.9	183.5	191.3	193.9	191.3	183.5	170.9	155.9	139.1	121.2	103.6
-27.5°	128.6	136.6	141.9	143.7	141.9	136.6	128.6	117.9	105.7	93.9	80.4
-30°	96.2	101.5	104.7	105.8	104.7	101.5	96.2	89.0	79.9	70.6	60.4
-32.5°	70.2	74.1	76.5	77.3	76.5	74.1	70.2	64.8	58.1	49.8	40.2
-35°	47.4	51.1	53.4	54.1	53.4	51.1	47.4	42.3	35.9	29.3	25.6
-37.5°	27.6	29.0	29.8	30.1	29.8	29.0	27.6	25.6	23.2	20.2	18.6
-40°	19.0	19.6	20.0	20.1	20.0	19.6	19.0	18.2	17.2	15.9	14.8
-42.5°	14.8	15.2	15.4	15.5	15.4	15.2	14.8	14.3	13.7	12.9	12.1
-45°	11.9	12.2	12.3	12.4	12.3	12.2	11.9	11.6	11.1	10.6	9.9
-47.5°	9.6	9.8	10.0	10.0	10.0	9.8	9.6	9.3	8.9	8.4	7.8
-50°	7.6	7.6	7.7	7.7	7.7	7.6	7.6	7.5	7.4	7.2	7.1
-52.5°	6.9	6.9	7.0	7.0	7.0	6.9	6.9	6.8	6.7	6.5	6.4
-55°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
-57.5°	6.1	6.2	6.2	6.2	6.2	6.2	6.1	6.0	5.9	5.8	5.7
-60°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
-62.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
-65°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
-67.5°	5.3	5.4	5.4	5.4	5.4	5.4	5.3	5.3	5.2	5.1	5.0
-70°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.5	4.5	4.4	4.3
-72.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
-75°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.8	3.8	3.7	3.7
-77.5°	3.0	3.1	3.1	3.1	3.1	3.1	3.0	3.0	2.9	2.8	2.7
-80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
-82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.4	1.4	1.4
-85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
-87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
-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: P220382 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-M-WT-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	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	1.4	1.3	1.3	1.3	1.2	1.2	1.1	1.1	1.0	0.9	0.9
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.4
77.5°	2.6	2.5	2.3	2.2	2.0	1.8	1.6	1.5	1.5	1.5	1.5
75°	3.6	3.5	3.4	3.3	3.2	3.1	2.9	2.7	2.4	2.1	1.8
72.5°	3.9	3.9	3.9	3.9	3.9	3.8	3.7	3.5	3.4	3.2	3.0
70°	4.2	4.2	4.1	3.9	3.9	3.9	3.9	3.9	3.9	3.8	3.6
67.5°	4.9	4.8	4.7	4.6	4.4	4.3	4.1	3.9	3.9	3.9	3.9
65°	5.4	5.4	5.4	5.2	5.1	4.9	4.7	4.5	4.3	4.1	3.9
62.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.3	5.1	4.8	4.6	4.3
60°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.1	4.8
57.5°	5.5	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.3
55°	6.2	6.0	5.8	5.6	5.4	5.4	5.4	5.4	5.4	5.4	5.4
52.5°	6.2	6.2	6.2	6.2	6.0	5.7	5.4	5.4	5.4	5.4	5.4
50°	6.9	6.7	6.4	6.2	6.2	6.2	6.0	5.6	5.4	5.4	5.4
47.5°	7.5	7.3	7.1	6.8	6.5	6.2	6.2	6.2	5.8	5.4	5.4
45°	9.2	8.4	7.7	7.4	7.1	6.7	6.3	6.2	6.2	5.9	5.4
42.5°	11.3	10.4	9.5	8.5	7.6	7.3	6.9	6.5	6.2	6.2	5.9
40°	13.7	12.5	11.4	10.3	9.1	7.9	7.4	7.0	6.5	6.2	6.2
37.5°	16.8	15.0	13.6	12.1	10.9	9.5	8.2	7.4	7.0	6.5	6.2
35°	21.4	18.6	16.3	14.4	12.6	11.2	9.7	8.2	7.4	6.9	6.3
32.5°	29.8	24.8	19.8	17.2	14.8	12.8	11.2	9.5	7.9	7.3	6.7
30°	49.0	36.2	26.9	20.9	17.5	14.8	12.6	10.9	9.1	7.6	7.1
27.5°	67.7	54.4	39.7	27.6	20.9	17.2	14.4	12.1	10.3	8.5	7.4
25°	87.5	71.3	56.2	39.7	26.9	19.8	16.3	13.6	11.4	9.5	7.7
22.5°	109.2	89.8	71.3	54.4	36.2	24.8	18.6	15.0	12.5	10.4	8.4
20°	135.4	109.2	87.5	67.7	49.0	29.8	21.4	16.8	13.7	11.3	9.2
17.5°	165.0	131.8	103.6	80.4	60.4	40.2	25.6	18.6	14.8	12.1	9.9
15°	199.0	155.6	121.2	93.9	70.6	49.8	29.3	20.2	15.9	12.9	10.6
12.5°	236.1	180.9	139.1	105.7	79.9	58.1	35.9	23.2	17.2	13.7	11.1
10°	270.6	207.1	155.9	117.9	89.0	64.8	42.3	25.6	18.2	14.3	11.6
7.5°	306.9	230.5	170.9	128.6	96.2	70.2	47.4	27.6	19.0	14.8	11.9
5°	333.9	247.7	183.5	136.6	101.5	74.1	51.1	29.0	19.6	15.2	12.2
2.5°	350.6	258.3	191.3	141.9	104.7	76.5	53.4	29.8	20.0	15.4	12.3
0°	356.2	261.9	193.9	143.7	105.8	77.3	54.1	30.1	20.1	15.5	12.4
-2.5°	350.6	258.3	191.3	141.9	104.7	76.5	53.4	29.8	20.0	15.4	12.3
-5°	333.9	247.7	183.5	136.6	101.5	74.1	51.1	29.0	19.6	15.2	12.2
-7.5°	306.9	230.5	170.9	128.6	96.2	70.2	47.4	27.6	19.0	14.8	11.9
-10°	270.6	207.1	155.9	117.9	89.0	64.8	42.3	25.6	18.2	14.3	11.6
-12.5°	236.1	180.9	139.1	105.7	79.9	58.1	35.9	23.2	17.2	13.7	11.1
-15°	199.0	155.6	121.2	93.9	70.6	49.8	29.3	20.2	15.9	12.9	10.6
-17.5°	165.0	131.8	103.6	80.4	60.4	40.2	25.6	18.6	14.8	12.1	9.9
-20°	135.4	109.2	87.5	67.7	49.0	29.8	21.4	16.8	13.7	11.3	9.2



REPORT NUMBER: P220382 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-M-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	109.2	89.8	71.3	54.4	36.2	24.8	18.6	15.0	12.5	10.4	8.4
-25°	87.5	71.3	56.2	39.7	26.9	19.8	16.3	13.6	11.4	9.5	7.7
-27.5°	67.7	54.4	39.7	27.6	20.9	17.2	14.4	12.1	10.3	8.5	7.4
-30°	49.0	36.2	26.9	20.9	17.5	14.8	12.6	10.9	9.1	7.6	7.1
-32.5°	29.8	24.8	19.8	17.2	14.8	12.8	11.2	9.5	7.9	7.3	6.7
-35°	21.4	18.6	16.3	14.4	12.6	11.2	9.7	8.2	7.4	6.9	6.3
-37.5°	16.8	15.0	13.6	12.1	10.9	9.5	8.2	7.4	7.0	6.5	6.2
-40°	13.7	12.5	11.4	10.3	9.1	7.9	7.4	7.0	6.5	6.2	6.2
-42.5°	11.3	10.4	9.5	8.5	7.6	7.3	6.9	6.5	6.2	6.2	5.9
-45°	9.2	8.4	7.7	7.4	7.1	6.7	6.3	6.2	6.2	5.9	5.4
-47.5°	7.5	7.3	7.1	6.8	6.5	6.2	6.2	6.2	5.8	5.4	5.4
-50°	6.9	6.7	6.4	6.2	6.2	6.2	6.0	5.6	5.4	5.4	5.4
-52.5°	6.2	6.2	6.2	6.2	6.0	5.7	5.4	5.4	5.4	5.4	5.4
-55°	6.2	6.0	5.8	5.6	5.4	5.4	5.4	5.4	5.4	5.4	5.4
-57.5°	5.5	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.3
-60°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.1	4.8
-62.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.3	5.1	4.8	4.6	4.3
-65°	5.4	5.4	5.4	5.2	5.1	4.9	4.7	4.5	4.3	4.1	3.9
-67.5°	4.9	4.8	4.7	4.6	4.4	4.3	4.1	3.9	3.9	3.9	3.9
-70°	4.2	4.2	4.1	3.9	3.9	3.9	3.9	3.9	3.9	3.8	3.6
-72.5°	3.9	3.9	3.9	3.9	3.9	3.8	3.7	3.5	3.4	3.2	3.0
-75°	3.6	3.5	3.4	3.3	3.2	3.1	2.9	2.7	2.4	2.1	1.8
-77.5°	2.6	2.5	2.3	2.2	2.0	1.8	1.6	1.5	1.5	1.5	1.5
-80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.4
-82.5°	1.4	1.3	1.3	1.3	1.2	1.2	1.1	1.1	1.0	0.9	0.9
-85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
-87.5°	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6
-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: P220382 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-M-WT-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	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.2
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.6	0.5	0.5
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7
80°	1.3	1.2	1.1	1.0	0.9	0.8	0.8	0.8	0.8	0.8	0.8
77.5°	1.5	1.5	1.5	1.4	1.3	1.1	1.0	0.9	0.8	0.8	0.8
75°	1.5	1.5	1.5	1.5	1.5	1.5	1.3	1.2	1.0	0.8	0.8
72.5°	2.6	2.2	1.9	1.5	1.5	1.5	1.5	1.4	1.3	1.1	0.9
70°	3.4	3.2	2.8	2.3	1.9	1.5	1.5	1.5	1.5	1.3	1.1
67.5°	3.9	3.7	3.4	3.2	2.7	2.2	1.6	1.5	1.5	1.5	1.3
65°	3.9	3.9	3.9	3.6	3.3	2.9	2.3	1.7	1.5	1.5	1.4
62.5°	4.1	3.9	3.9	3.9	3.7	3.4	3.0	2.3	1.6	1.5	1.5
60°	4.5	4.2	4.0	3.9	3.9	3.7	3.4	2.9	2.2	1.5	1.5
57.5°	5.0	4.7	4.3	4.0	3.9	3.9	3.7	3.3	2.7	1.9	1.5
55°	5.4	5.1	4.7	4.4	4.0	3.9	3.9	3.6	3.2	2.3	1.5
52.5°	5.4	5.4	5.2	4.7	4.3	4.0	3.9	3.9	3.4	2.8	1.9
50°	5.4	5.4	5.4	5.1	4.7	4.2	3.9	3.9	3.7	3.2	2.2
47.5°	5.4	5.4	5.4	5.4	5.0	4.5	4.1	3.9	3.9	3.4	2.6
45°	5.4	5.4	5.4	5.4	5.3	4.8	4.3	3.9	3.9	3.6	3.0
42.5°	5.4	5.4	5.4	5.4	5.4	5.1	4.6	4.1	3.9	3.8	3.2
40°	5.8	5.4	5.4	5.4	5.4	5.4	4.8	4.3	3.9	3.9	3.4
37.5°	6.2	5.6	5.4	5.4	5.4	5.4	5.1	4.5	3.9	3.9	3.5
35°	6.2	6.0	5.4	5.4	5.4	5.4	5.3	4.7	4.1	3.9	3.7
32.5°	6.2	6.2	5.7	5.4	5.4	5.4	5.4	4.9	4.3	3.9	3.8
30°	6.5	6.2	6.0	5.4	5.4	5.4	5.4	5.1	4.4	3.9	3.9
27.5°	6.8	6.2	6.2	5.6	5.4	5.4	5.4	5.2	4.6	3.9	3.9
25°	7.1	6.4	6.2	5.8	5.4	5.4	5.4	5.4	4.7	4.1	3.9
22.5°	7.3	6.7	6.2	6.0	5.4	5.4	5.4	5.4	4.8	4.2	3.9
20°	7.5	6.9	6.2	6.2	5.5	5.4	5.4	5.4	4.9	4.2	3.9
17.5°	7.8	7.1	6.4	6.2	5.7	5.4	5.4	5.4	5.0	4.3	3.9
15°	8.4	7.2	6.5	6.2	5.8	5.4	5.4	5.4	5.1	4.4	3.9
12.5°	8.9	7.4	6.7	6.2	5.9	5.4	5.4	5.4	5.2	4.5	3.9
10°	9.3	7.5	6.8	6.2	6.0	5.4	5.4	5.4	5.3	4.5	3.9
7.5°	9.6	7.6	6.9	6.2	6.1	5.4	5.4	5.4	5.3	4.6	3.9
5°	9.8	7.6	6.9	6.2	6.2	5.4	5.4	5.4	5.4	4.6	3.9
2.5°	10.0	7.7	7.0	6.2	6.2	5.4	5.4	5.4	5.4	4.6	3.9
0°	10.0	7.7	7.0	6.2	6.2	5.4	5.4	5.4	5.4	4.6	3.9
-2.5°	10.0	7.7	7.0	6.2	6.2	5.4	5.4	5.4	5.4	4.6	3.9
-5°	9.8	7.6	6.9	6.2	6.2	5.4	5.4	5.4	5.4	4.6	3.9
-7.5°	9.6	7.6	6.9	6.2	6.1	5.4	5.4	5.4	5.3	4.6	3.9
-10°	9.3	7.5	6.8	6.2	6.0	5.4	5.4	5.4	5.3	4.5	3.9
-12.5°	8.9	7.4	6.7	6.2	5.9	5.4	5.4	5.4	5.2	4.5	3.9
-15°	8.4	7.2	6.5	6.2	5.8	5.4	5.4	5.4	5.1	4.4	3.9
-17.5°	7.8	7.1	6.4	6.2	5.7	5.4	5.4	5.4	5.0	4.3	3.9
-20°	7.5	6.9	6.2	6.2	5.5	5.4	5.4	5.4	4.9	4.2	3.9



REPORT NUMBER: P220382 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-M-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	7.3	6.7	6.2	6.0	5.4	5.4	5.4	5.4	4.8	4.2	3.9
-25°	7.1	6.4	6.2	5.8	5.4	5.4	5.4	5.4	4.7	4.1	3.9
-27.5°	6.8	6.2	6.2	5.6	5.4	5.4	5.4	5.2	4.6	3.9	3.9
-30°	6.5	6.2	6.0	5.4	5.4	5.4	5.4	5.1	4.4	3.9	3.9
-32.5°	6.2	6.2	5.7	5.4	5.4	5.4	5.4	4.9	4.3	3.9	3.8
-35°	6.2	6.0	5.4	5.4	5.4	5.4	5.3	4.7	4.1	3.9	3.7
-37.5°	6.2	5.6	5.4	5.4	5.4	5.4	5.1	4.5	3.9	3.9	3.5
-40°	5.8	5.4	5.4	5.4	5.4	5.4	4.8	4.3	3.9	3.9	3.4
-42.5°	5.4	5.4	5.4	5.4	5.4	5.1	4.6	4.1	3.9	3.8	3.2
-45°	5.4	5.4	5.4	5.4	5.3	4.8	4.3	3.9	3.9	3.6	3.0
-47.5°	5.4	5.4	5.4	5.4	5.0	4.5	4.1	3.9	3.9	3.4	2.6
-50°	5.4	5.4	5.4	5.1	4.7	4.2	3.9	3.9	3.7	3.2	2.2
-52.5°	5.4	5.4	5.2	4.7	4.3	4.0	3.9	3.9	3.4	2.8	1.9
-55°	5.4	5.1	4.7	4.4	4.0	3.9	3.9	3.6	3.2	2.3	1.5
-57.5°	5.0	4.7	4.3	4.0	3.9	3.9	3.7	3.3	2.7	1.9	1.5
-60°	4.5	4.2	4.0	3.9	3.9	3.7	3.4	2.9	2.2	1.5	1.5
-62.5°	4.1	3.9	3.9	3.9	3.7	3.4	3.0	2.3	1.6	1.5	1.5
-65°	3.9	3.9	3.9	3.6	3.3	2.9	2.3	1.7	1.5	1.5	1.4
-67.5°	3.9	3.7	3.4	3.2	2.7	2.2	1.6	1.5	1.5	1.5	1.3
-70°	3.4	3.2	2.8	2.3	1.9	1.5	1.5	1.5	1.5	1.3	1.1
-72.5°	2.6	2.2	1.9	1.5	1.5	1.5	1.5	1.4	1.3	1.1	0.9
-75°	1.5	1.5	1.5	1.5	1.5	1.5	1.3	1.2	1.0	0.8	0.8
-77.5°	1.5	1.5	1.5	1.4	1.3	1.1	1.0	0.9	0.8	0.8	0.8
-80°	1.3	1.2	1.1	1.0	0.9	0.8	0.8	0.8	0.8	0.8	0.8
-82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7
-85°	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.6	0.5	0.5
-87.5°	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.2
-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: P220382 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-M-WT-L1-UNV

**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°	0.2	0.2	0.1	0.1	0.1	0.0	0.0
85°	0.4	0.3	0.3	0.2	0.1	0.1	0.0
82.5°	0.6	0.5	0.4	0.3	0.2	0.1	0.0
80°	0.8	0.7	0.6	0.4	0.3	0.1	0.0
77.5°	0.8	0.8	0.7	0.5	0.3	0.2	0.0
75°	0.8	0.8	0.8	0.6	0.4	0.2	0.0
72.5°	0.8	0.8	0.8	0.7	0.5	0.2	0.0
70°	0.8	0.8	0.8	0.8	0.5	0.3	0.0
67.5°	1.0	0.8	0.8	0.8	0.6	0.3	0.0
65°	1.2	0.9	0.8	0.8	0.7	0.3	0.0
62.5°	1.3	1.0	0.8	0.8	0.7	0.4	0.0
60°	1.5	1.1	0.8	0.8	0.8	0.4	0.0
57.5°	1.5	1.3	0.9	0.8	0.8	0.4	0.0
55°	1.5	1.4	1.0	0.8	0.8	0.5	0.0
52.5°	1.5	1.5	1.1	0.8	0.8	0.5	0.0
50°	1.5	1.5	1.2	0.8	0.8	0.5	0.0
47.5°	1.5	1.5	1.3	0.8	0.8	0.5	0.0
45°	1.8	1.5	1.4	0.9	0.8	0.6	0.0
42.5°	2.1	1.5	1.5	0.9	0.8	0.6	0.0
40°	2.4	1.5	1.5	1.0	0.8	0.6	0.0
37.5°	2.7	1.5	1.5	1.1	0.8	0.6	0.0
35°	2.9	1.6	1.5	1.1	0.8	0.7	0.0
32.5°	3.1	1.8	1.5	1.2	0.8	0.7	0.0
30°	3.2	2.0	1.5	1.2	0.8	0.7	0.0
27.5°	3.3	2.2	1.5	1.3	0.8	0.7	0.0
25°	3.4	2.3	1.5	1.3	0.8	0.7	0.0
22.5°	3.5	2.5	1.5	1.3	0.8	0.7	0.0
20°	3.6	2.6	1.5	1.4	0.8	0.8	0.0
17.5°	3.7	2.7	1.5	1.4	0.8	0.8	0.0
15°	3.7	2.8	1.5	1.4	0.8	0.8	0.0
12.5°	3.8	2.9	1.5	1.4	0.8	0.8	0.0
10°	3.8	3.0	1.5	1.5	0.8	0.8	0.0
7.5°	3.9	3.0	1.5	1.5	0.8	0.8	0.0
5°	3.9	3.1	1.5	1.5	0.8	0.8	0.0
2.5°	3.9	3.1	1.5	1.5	0.8	0.8	0.0
0°	3.9	3.1	1.5	1.5	0.8	0.8	0.0
-2.5°	3.9	3.1	1.5	1.5	0.8	0.8	0.0
-5°	3.9	3.1	1.5	1.5	0.8	0.8	0.0
-7.5°	3.9	3.0	1.5	1.5	0.8	0.8	0.0
-10°	3.8	3.0	1.5	1.5	0.8	0.8	0.0
-12.5°	3.8	2.9	1.5	1.4	0.8	0.8	0.0
-15°	3.7	2.8	1.5	1.4	0.8	0.8	0.0
-17.5°	3.7	2.7	1.5	1.4	0.8	0.8	0.0
-20°	3.6	2.6	1.5	1.4	0.8	0.8	0.0



REPORT NUMBER: P220382 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-M-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	3.5	2.5	1.5	1.3	0.8	0.7	0.0
-25°	3.4	2.3	1.5	1.3	0.8	0.7	0.0
-27.5°	3.3	2.2	1.5	1.3	0.8	0.7	0.0
-30°	3.2	2.0	1.5	1.2	0.8	0.7	0.0
-32.5°	3.1	1.8	1.5	1.2	0.8	0.7	0.0
-35°	2.9	1.6	1.5	1.1	0.8	0.7	0.0
-37.5°	2.7	1.5	1.5	1.1	0.8	0.6	0.0
-40°	2.4	1.5	1.5	1.0	0.8	0.6	0.0
-42.5°	2.1	1.5	1.5	0.9	0.8	0.6	0.0
-45°	1.8	1.5	1.4	0.9	0.8	0.6	0.0
-47.5°	1.5	1.5	1.3	0.8	0.8	0.5	0.0
-50°	1.5	1.5	1.2	0.8	0.8	0.5	0.0
-52.5°	1.5	1.5	1.1	0.8	0.8	0.5	0.0
-55°	1.5	1.4	1.0	0.8	0.8	0.5	0.0
-57.5°	1.5	1.3	0.9	0.8	0.8	0.4	0.0
-60°	1.5	1.1	0.8	0.8	0.8	0.4	0.0
-62.5°	1.3	1.0	0.8	0.8	0.7	0.4	0.0
-65°	1.2	0.9	0.8	0.8	0.7	0.3	0.0
-67.5°	1.0	0.8	0.8	0.8	0.6	0.3	0.0
-70°	0.8	0.8	0.8	0.8	0.5	0.3	0.0
-72.5°	0.8	0.8	0.8	0.7	0.5	0.2	0.0
-75°	0.8	0.8	0.8	0.6	0.4	0.2	0.0
-77.5°	0.8	0.8	0.7	0.5	0.3	0.2	0.0
-80°	0.8	0.7	0.6	0.4	0.3	0.1	0.0
-82.5°	0.6	0.5	0.4	0.3	0.2	0.1	0.0
-85°	0.4	0.3	0.3	0.2	0.1	0.1	0.0
-87.5°	0.2	0.2	0.1	0.1	0.1	0.0	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)