

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: P220323 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1002-[A1, P1, S1, SU1]-[RW, RI]-LED3590-F-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220323 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29411)
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]-LED3590-F-WT-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, RECESSED LENS,
FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

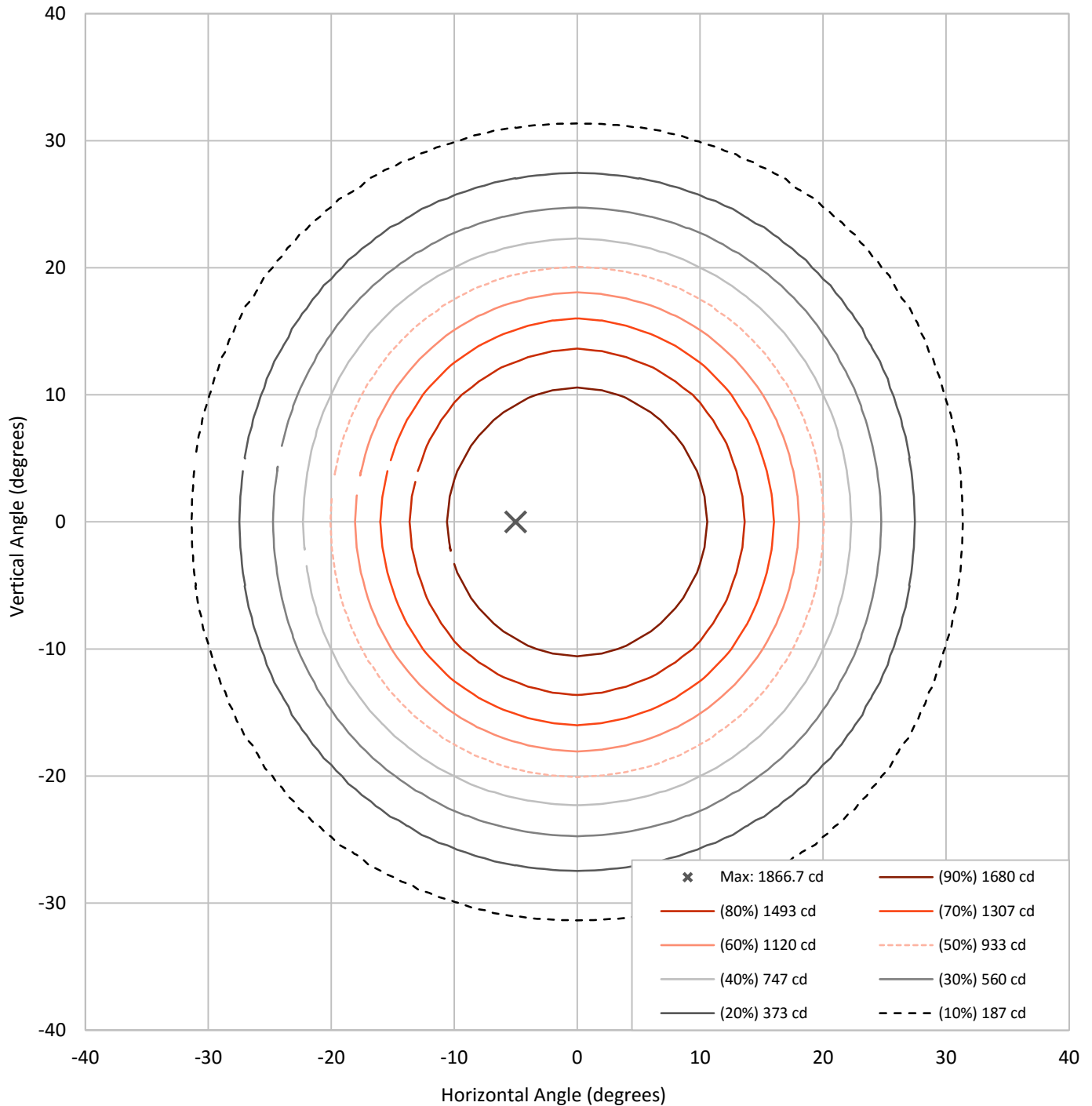
Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	902.9 lumens	Max Intensity:	1866.7 candela
Efficiency:	N/A	Max Intensity Angle:	-5°H x 0°V
Efficacy:	90.3 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	40.2°H x 39°V	Field Angle (10%):	62.7°H x 62.1°V
Beam Lumens:	557.3 lumens	Field Lumens:	806.1 lumens
Beam Efficiency:	61.7%	Field Efficiency:	89.3%

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



REPORT NUMBER: P220323 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3590-F-WT-L1-UNV

Iso-Candela Plot





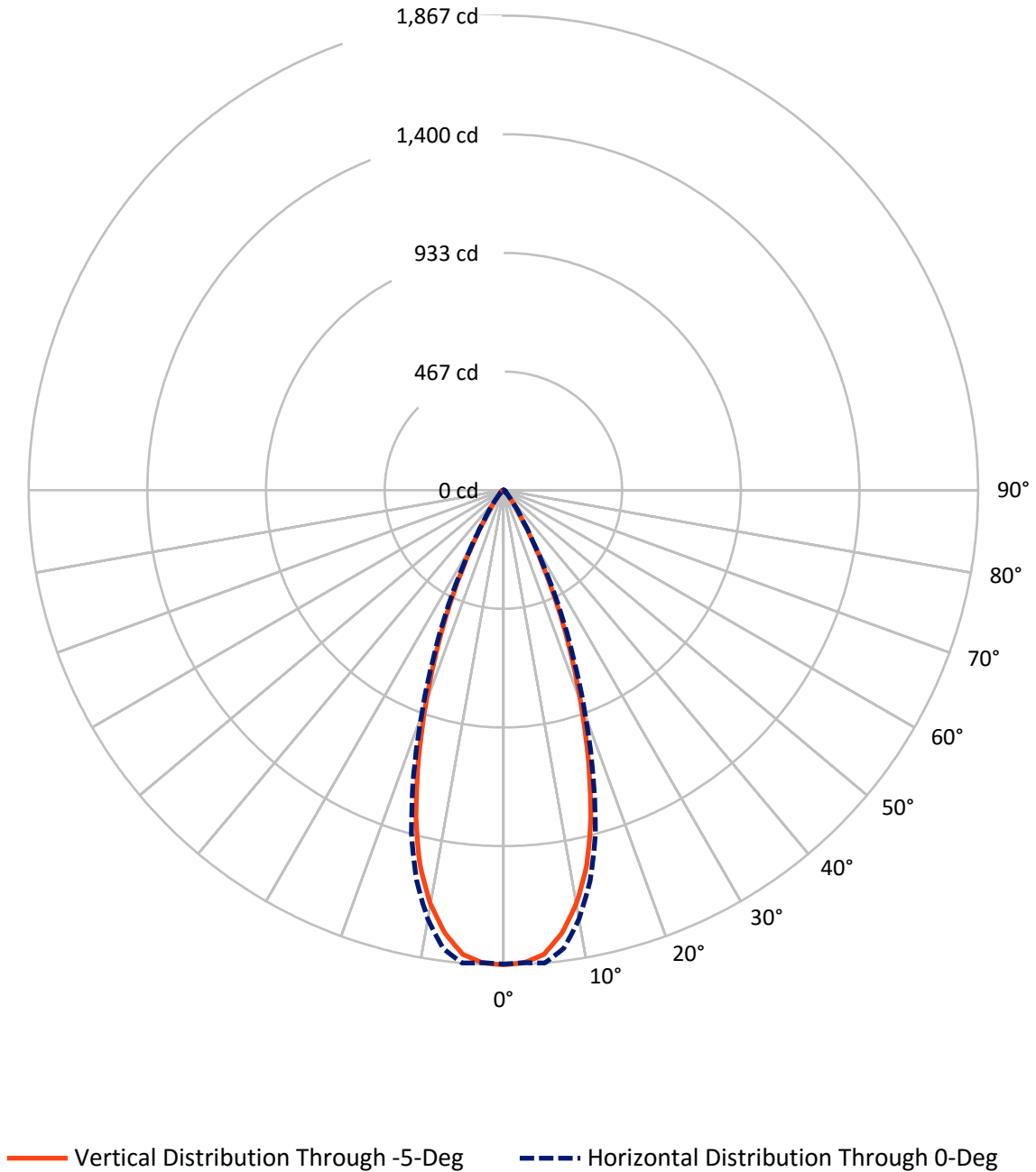
REPORT NUMBER: P220323 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3590-F-WT-L1-UNV

Lumen Table

90																			
80	0.0	0.1		0.2		0.4		0.4		0.4		0.2		0.1		0.0			
70	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0			
60		0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.1	0.1				
50	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.7	0.5	0.4	0.3	0.2	0.1	0.1	0.1			
40		0.1	0.1	0.2	0.4	0.9	2.1	3.2	3.2	2.1	0.9	0.4	0.2	0.1	0.1				
30	0.1	0.1	0.2	0.3	0.9	3.2	9.1	15.5	15.5	9.1	3.2	0.9	0.3	0.2	0.1	0.1			
20		0.1	0.2	0.4	1.8	8.6	24.8	38.9	38.9	24.8	8.6	1.8	0.4	0.2	0.1				
10	0.1	0.1	0.2	0.5	2.7	14.2	37.8	53.8	53.8	37.8	14.2	2.7	0.5	0.2	0.1	0.1			
0		0.1	0.2	0.5	2.7	14.2	37.8	53.8	53.8	37.8	14.2	2.7	0.5	0.2	0.1				
-10	0.1	0.1	0.2	0.4	1.8	8.6	24.8	38.9	38.9	24.8	8.6	1.8	0.4	0.2	0.1	0.1			
-20		0.1	0.2	0.3	0.9	3.2	9.1	15.5	15.5	9.1	3.2	0.9	0.3	0.2	0.1				
-30	0.1	0.1	0.1	0.2	0.4	0.9	2.1	3.2	3.2	2.1	0.9	0.4	0.2	0.1	0.1	0.1			
-40		0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.7	0.5	0.4	0.3	0.2	0.1	0.1				
-50	0.0	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.0			
-60		0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0				
-70	0.0	0.1		0.2		0.4		0.4		0.4		0.2		0.1		0.0			
-80		0.1		0.2		0.4		0.4		0.4		0.2		0.1		0.0			
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

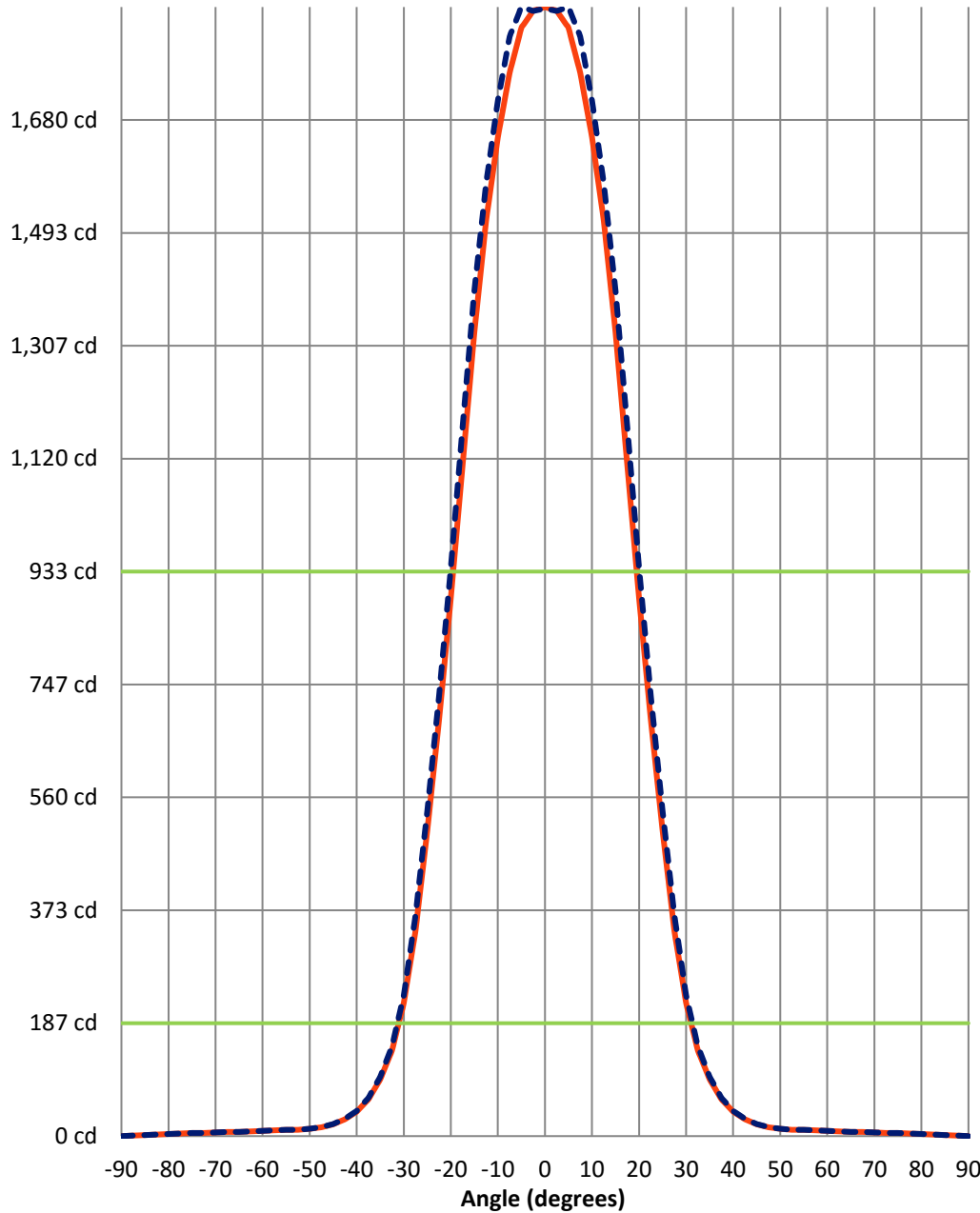
REPORT NUMBER: P220323 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3590-F-WT-L1-UNV

Luminous Intensity Polar Plot



REPORT NUMBER: P220323 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3590-F-WT-L1-UNV

Luminous Intensity Plot



Beam:
H Angle: 40.2°
V Angle: 39°
Lumens: 557.3
Efficiency: 61.7%

Field:
H Angle: 62.7°
V Angle: 62.1°
Lumens: 806.1
Efficiency: 89.3%

Spill:
Lumens: 96.8
Efficiency: 10.7%

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



REPORT NUMBER: P220323 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3590-F-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	0.2	0.2	0.2	0.3	0.3	0.3	0.4
85°	0.0	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.6	0.7	0.8
82.5°	0.0	0.1	0.2	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1
80°	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.3	1.4
77.5°	0.0	0.2	0.4	0.6	0.8	1.0	1.1	1.3	1.5	1.6	1.8
75°	0.0	0.2	0.5	0.7	0.9	1.1	1.3	1.5	1.7	1.9	2.2
72.5°	0.0	0.3	0.5	0.8	1.1	1.3	1.5	1.8	2.0	2.3	2.5
70°	0.0	0.3	0.6	0.9	1.2	1.5	1.7	2.0	2.3	2.6	2.9
67.5°	0.0	0.3	0.7	1.0	1.3	1.6	1.9	2.3	2.6	2.9	3.3
65°	0.0	0.4	0.8	1.1	1.4	1.8	2.2	2.5	2.9	3.3	3.6
62.5°	0.0	0.4	0.8	1.2	1.6	2.0	2.4	2.8	3.2	3.6	3.9
60°	0.0	0.4	0.9	1.3	1.7	2.1	2.6	3.0	3.4	3.8	4.2
57.5°	0.0	0.5	1.0	1.4	1.8	2.3	2.8	3.2	3.7	4.1	4.5
55°	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	3.9	4.4	4.9
52.5°	0.0	0.5	1.1	1.6	2.1	2.6	3.2	3.7	4.1	4.6	5.2
50°	0.0	0.6	1.1	1.6	2.2	2.8	3.3	3.9	4.4	4.9	5.2
47.5°	0.0	0.6	1.2	1.7	2.3	2.9	3.5	4.1	4.6	5.2	5.2
45°	0.0	0.6	1.2	1.8	2.4	3.1	3.7	4.2	4.8	5.2	5.2
42.5°	0.0	0.7	1.3	1.9	2.5	3.2	3.8	4.4	5.1	5.2	5.4
40°	0.0	0.7	1.3	2.0	2.7	3.3	4.0	4.6	5.2	5.2	5.7
37.5°	0.0	0.7	1.4	2.0	2.8	3.5	4.1	4.8	5.2	5.3	6.0
35°	0.0	0.7	1.4	2.1	2.8	3.6	4.2	4.9	5.2	5.5	6.2
32.5°	0.0	0.8	1.4	2.2	2.9	3.7	4.3	5.1	5.2	5.7	6.4
30°	0.0	0.8	1.5	2.2	3.0	3.8	4.5	5.2	5.2	5.9	6.6
27.5°	0.0	0.8	1.5	2.3	3.1	3.8	4.6	5.2	5.3	6.0	6.7
25°	0.0	0.8	1.5	2.3	3.2	3.9	4.7	5.2	5.4	6.2	6.9
22.5°	0.0	0.8	1.6	2.4	3.2	4.0	4.8	5.2	5.5	6.3	6.9
20°	0.0	0.8	1.6	2.4	3.3	4.1	4.9	5.2	5.6	6.4	6.9
17.5°	0.0	0.9	1.6	2.5	3.3	4.1	4.9	5.2	5.8	6.5	6.9
15°	0.0	0.9	1.6	2.5	3.4	4.2	5.0	5.2	5.8	6.6	6.9
12.5°	0.0	0.9	1.7	2.5	3.4	4.2	5.1	5.2	5.9	6.7	6.9
10°	0.0	0.9	1.7	2.6	3.4	4.2	5.1	5.2	6.0	6.8	6.9
7.5°	0.0	0.9	1.7	2.6	3.5	4.3	5.2	5.2	6.0	6.8	6.9
5°	0.0	0.9	1.7	2.6	3.5	4.3	5.2	5.2	6.1	6.9	6.9
2.5°	0.0	0.9	1.7	2.6	3.5	4.3	5.2	5.2	6.1	6.9	6.9
0°	0.0	0.9	1.7	2.6	3.5	4.3	5.2	5.2	6.1	6.9	6.9
-2.5°	0.0	0.9	1.7	2.6	3.5	4.3	5.2	5.2	6.1	6.9	6.9
-5°	0.0	0.9	1.7	2.6	3.5	4.3	5.2	5.2	6.1	6.9	6.9
-7.5°	0.0	0.9	1.7	2.6	3.5	4.3	5.2	5.2	6.0	6.8	6.9
-10°	0.0	0.9	1.7	2.6	3.4	4.2	5.1	5.2	6.0	6.8	6.9
-12.5°	0.0	0.9	1.7	2.5	3.4	4.2	5.1	5.2	5.9	6.7	6.9
-15°	0.0	0.9	1.6	2.5	3.4	4.2	5.0	5.2	5.8	6.6	6.9
-17.5°	0.0	0.9	1.6	2.5	3.3	4.1	4.9	5.2	5.8	6.5	6.9
-20°	0.0	0.8	1.6	2.4	3.3	4.1	4.9	5.2	5.6	6.4	6.9



REPORT NUMBER: P220323 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3590-F-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	0.8	1.6	2.4	3.2	4.0	4.8	5.2	5.5	6.3	6.9
-25°	0.0	0.8	1.5	2.3	3.2	3.9	4.7	5.2	5.4	6.2	6.9
-27.5°	0.0	0.8	1.5	2.3	3.1	3.8	4.6	5.2	5.3	6.0	6.7
-30°	0.0	0.8	1.5	2.2	3.0	3.8	4.5	5.2	5.2	5.9	6.6
-32.5°	0.0	0.8	1.4	2.2	2.9	3.7	4.3	5.1	5.2	5.7	6.4
-35°	0.0	0.7	1.4	2.1	2.8	3.6	4.2	4.9	5.2	5.5	6.2
-37.5°	0.0	0.7	1.4	2.0	2.8	3.5	4.1	4.8	5.2	5.3	6.0
-40°	0.0	0.7	1.3	2.0	2.7	3.3	4.0	4.6	5.2	5.2	5.7
-42.5°	0.0	0.7	1.3	1.9	2.5	3.2	3.8	4.4	5.1	5.2	5.4
-45°	0.0	0.6	1.2	1.8	2.4	3.1	3.7	4.2	4.8	5.2	5.2
-47.5°	0.0	0.6	1.2	1.7	2.3	2.9	3.5	4.1	4.6	5.2	5.2
-50°	0.0	0.6	1.1	1.6	2.2	2.8	3.3	3.9	4.4	4.9	5.2
-52.5°	0.0	0.5	1.1	1.6	2.1	2.6	3.2	3.7	4.1	4.6	5.2
-55°	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	3.9	4.4	4.9
-57.5°	0.0	0.5	1.0	1.4	1.8	2.3	2.8	3.2	3.7	4.1	4.5
-60°	0.0	0.4	0.9	1.3	1.7	2.1	2.6	3.0	3.4	3.8	4.2
-62.5°	0.0	0.4	0.8	1.2	1.6	2.0	2.4	2.8	3.2	3.6	3.9
-65°	0.0	0.4	0.8	1.1	1.4	1.8	2.2	2.5	2.9	3.3	3.6
-67.5°	0.0	0.3	0.7	1.0	1.3	1.6	1.9	2.3	2.6	2.9	3.3
-70°	0.0	0.3	0.6	0.9	1.2	1.5	1.7	2.0	2.3	2.6	2.9
-72.5°	0.0	0.3	0.5	0.8	1.1	1.3	1.5	1.8	2.0	2.3	2.5
-75°	0.0	0.2	0.5	0.7	0.9	1.1	1.3	1.5	1.7	1.9	2.2
-77.5°	0.0	0.2	0.4	0.6	0.8	1.0	1.1	1.3	1.5	1.6	1.8
-80°	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.3	1.4
-82.5°	0.0	0.1	0.2	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1
-85°	0.0	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.6	0.7	0.8
-87.5°	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.4
-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: P220323 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3590-F-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	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.7
85°	0.8	0.9	1.0	1.0	1.1	1.1	1.2	1.2	1.3	1.3	1.4
82.5°	1.2	1.3	1.4	1.5	1.6	1.6	1.7	1.8	1.9	2.0	2.0
80°	1.6	1.7	1.8	2.0	2.1	2.2	2.3	2.4	2.5	2.7	2.8
77.5°	2.0	2.1	2.3	2.5	2.6	2.8	2.9	3.1	3.2	3.3	3.5
75°	2.4	2.6	2.8	3.0	3.2	3.3	3.5	3.7	3.8	4.0	4.1
72.5°	2.8	3.0	3.2	3.5	3.7	3.9	4.1	4.2	4.4	4.6	4.8
70°	3.2	3.4	3.7	3.9	4.1	4.4	4.6	4.8	5.1	5.2	5.2
67.5°	3.6	3.8	4.1	4.4	4.6	4.9	5.2	5.2	5.2	5.2	5.3
65°	3.9	4.2	4.5	4.9	5.2	5.2	5.2	5.2	5.4	5.7	6.0
62.5°	4.2	4.6	5.0	5.2	5.2	5.2	5.4	5.8	6.1	6.3	6.6
60°	4.6	5.0	5.2	5.2	5.3	5.6	6.0	6.3	6.6	6.9	6.9
57.5°	5.0	5.2	5.2	5.4	5.8	6.2	6.5	6.8	6.9	6.9	7.0
55°	5.2	5.2	5.4	5.8	6.2	6.6	6.9	6.9	6.9	7.3	7.6
52.5°	5.2	5.3	5.8	6.2	6.7	6.9	6.9	7.1	7.5	7.9	8.3
50°	5.2	5.6	6.2	6.6	6.9	6.9	7.2	7.6	8.1	8.5	8.9
47.5°	5.4	6.0	6.5	6.9	6.9	7.2	7.7	8.2	8.7	9.1	9.6
45°	5.8	6.3	6.8	6.9	7.1	7.6	8.2	8.7	9.2	9.7	10.1
42.5°	6.1	6.6	6.9	6.9	7.5	8.1	8.7	9.2	9.7	10.2	10.4
40°	6.3	6.9	6.9	7.3	7.9	8.5	9.1	9.7	10.2	10.4	10.4
37.5°	6.6	6.9	7.0	7.6	8.3	8.9	9.6	10.1	10.4	10.4	11.5
35°	6.8	6.9	7.3	8.0	8.7	9.3	10.0	10.4	10.4	11.4	12.8
32.5°	6.9	6.9	7.6	8.3	9.0	9.7	10.3	10.4	11.1	12.5	14.3
30°	6.9	7.1	7.9	8.6	9.4	10.0	10.4	10.6	12.0	13.8	16.7
27.5°	6.9	7.4	8.1	8.9	9.7	10.3	10.4	11.4	13.1	15.4	19.4
25°	6.9	7.6	8.4	9.2	9.9	10.4	10.6	12.1	14.2	17.9	23.4
22.5°	7.0	7.8	8.6	9.4	10.2	10.4	11.2	13.0	15.7	20.2	27.4
20°	7.2	8.0	8.8	9.6	10.4	10.4	11.8	13.9	17.6	23.6	32.4
17.5°	7.3	8.2	9.0	9.8	10.4	10.6	12.3	14.7	19.3	26.7	37.4
15°	7.4	8.3	9.2	10.0	10.4	11.0	13.0	16.0	21.4	29.9	41.9
12.5°	7.5	8.4	9.3	10.1	10.4	11.4	13.5	17.2	23.6	33.4	48.3
10°	7.6	8.5	9.4	10.2	10.4	11.7	14.0	18.2	25.4	36.4	53.7
7.5°	7.7	8.6	9.5	10.3	10.4	11.9	14.3	19.0	26.8	38.7	57.9
5°	7.8	8.7	9.6	10.4	10.4	12.1	14.6	19.5	27.9	40.4	60.9
2.5°	7.8	8.7	9.6	10.4	10.4	12.2	14.7	19.9	28.5	41.4	62.8
0°	7.8	8.7	9.6	10.4	10.4	12.2	14.8	20.0	28.7	41.7	63.4
-2.5°	7.8	8.7	9.6	10.4	10.4	12.2	14.7	19.9	28.5	41.4	62.8
-5°	7.8	8.7	9.6	10.4	10.4	12.1	14.6	19.5	27.9	40.4	60.9
-7.5°	7.7	8.6	9.5	10.3	10.4	11.9	14.3	19.0	26.8	38.7	57.9
-10°	7.6	8.5	9.4	10.2	10.4	11.7	14.0	18.2	25.4	36.4	53.7
-12.5°	7.5	8.4	9.3	10.1	10.4	11.4	13.5	17.2	23.6	33.4	48.3
-15°	7.4	8.3	9.2	10.0	10.4	11.0	13.0	16.0	21.4	29.9	41.9
-17.5°	7.3	8.2	9.0	9.8	10.4	10.6	12.3	14.7	19.3	26.7	37.4
-20°	7.2	8.0	8.8	9.6	10.4	10.4	11.8	13.9	17.6	23.6	32.4



REPORT NUMBER: P220323 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3590-F-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°	7.0	7.8	8.6	9.4	10.2	10.4	11.2	13.0	15.7	20.2	27.4
-25°	6.9	7.6	8.4	9.2	9.9	10.4	10.6	12.1	14.2	17.9	23.4
-27.5°	6.9	7.4	8.1	8.9	9.7	10.3	10.4	11.4	13.1	15.4	19.4
-30°	6.9	7.1	7.9	8.6	9.4	10.0	10.4	10.6	12.0	13.8	16.7
-32.5°	6.9	6.9	7.6	8.3	9.0	9.7	10.3	10.4	11.1	12.5	14.3
-35°	6.8	6.9	7.3	8.0	8.7	9.3	10.0	10.4	10.4	11.4	12.8
-37.5°	6.6	6.9	7.0	7.6	8.3	8.9	9.6	10.1	10.4	10.4	11.5
-40°	6.3	6.9	6.9	7.3	7.9	8.5	9.1	9.7	10.2	10.4	10.4
-42.5°	6.1	6.6	6.9	6.9	7.5	8.1	8.7	9.2	9.7	10.2	10.4
-45°	5.8	6.3	6.8	6.9	7.1	7.6	8.2	8.7	9.2	9.7	10.1
-47.5°	5.4	6.0	6.5	6.9	6.9	7.2	7.7	8.2	8.7	9.1	9.6
-50°	5.2	5.6	6.2	6.6	6.9	6.9	7.2	7.6	8.1	8.5	8.9
-52.5°	5.2	5.3	5.8	6.2	6.7	6.9	6.9	7.1	7.5	7.9	8.3
-55°	5.2	5.2	5.4	5.8	6.2	6.6	6.9	6.9	6.9	7.3	7.6
-57.5°	5.0	5.2	5.2	5.4	5.8	6.2	6.5	6.8	6.9	6.9	7.0
-60°	4.6	5.0	5.2	5.2	5.3	5.6	6.0	6.3	6.6	6.9	6.9
-62.5°	4.2	4.6	5.0	5.2	5.2	5.2	5.4	5.8	6.1	6.3	6.6
-65°	3.9	4.2	4.5	4.9	5.2	5.2	5.2	5.2	5.4	5.7	6.0
-67.5°	3.6	3.8	4.1	4.4	4.6	4.9	5.2	5.2	5.2	5.2	5.3
-70°	3.2	3.4	3.7	3.9	4.1	4.4	4.6	4.8	5.1	5.2	5.2
-72.5°	2.8	3.0	3.2	3.5	3.7	3.9	4.1	4.2	4.4	4.6	4.8
-75°	2.4	2.6	2.8	3.0	3.2	3.3	3.5	3.7	3.8	4.0	4.1
-77.5°	2.0	2.1	2.3	2.5	2.6	2.8	2.9	3.1	3.2	3.3	3.5
-80°	1.6	1.7	1.8	2.0	2.1	2.2	2.3	2.4	2.5	2.7	2.8
-82.5°	1.2	1.3	1.4	1.5	1.6	1.6	1.7	1.8	1.9	2.0	2.0
-85°	0.8	0.9	1.0	1.0	1.1	1.1	1.2	1.2	1.3	1.3	1.4
-87.5°	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.7
-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: P220323 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3590-F-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	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9
85°	1.4	1.4	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.7	1.7
82.5°	2.1	2.2	2.2	2.3	2.3	2.4	2.4	2.5	2.5	2.5	2.6
80°	2.8	2.9	3.0	3.1	3.2	3.2	3.3	3.3	3.4	3.4	3.4
77.5°	3.6	3.7	3.8	3.8	3.9	4.0	4.1	4.1	4.2	4.2	4.2
75°	4.2	4.3	4.5	4.6	4.7	4.8	4.9	4.9	5.0	5.1	5.1
72.5°	4.9	5.1	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
70°	5.2	5.2	5.2	5.3	5.4	5.5	5.6	5.8	5.8	5.9	6.0
67.5°	5.5	5.7	5.9	6.0	6.2	6.3	6.4	6.5	6.6	6.7	6.8
65°	6.2	6.4	6.6	6.7	6.9	6.9	6.9	6.9	6.9	6.9	6.9
62.5°	6.8	6.9	6.9	6.9	6.9	7.0	7.2	7.3	7.4	7.5	7.6
60°	6.9	6.9	7.1	7.4	7.6	7.8	8.0	8.2	8.3	8.4	8.5
57.5°	7.3	7.6	7.9	8.1	8.4	8.6	8.8	9.0	9.2	9.3	9.4
55°	8.0	8.3	8.6	8.9	9.2	9.4	9.6	9.8	10.0	10.1	10.2
52.5°	8.7	9.0	9.4	9.7	9.9	10.2	10.4	10.4	10.4	10.4	10.4
50°	9.3	9.7	10.0	10.3	10.4	10.4	10.4	10.6	11.0	11.4	11.7
47.5°	10.0	10.3	10.4	10.4	10.6	11.2	11.8	12.3	13.0	13.5	14.0
45°	10.4	10.4	10.6	11.4	12.1	13.0	13.9	14.7	16.0	17.2	18.2
42.5°	10.4	11.1	12.0	13.1	14.2	15.7	17.6	19.3	21.4	23.6	25.4
40°	11.4	12.5	13.8	15.4	17.9	20.2	23.6	26.7	29.9	33.4	36.4
37.5°	12.8	14.3	16.7	19.4	23.4	27.4	32.4	37.4	41.9	48.3	53.7
35°	14.4	17.3	20.6	25.6	31.0	37.5	44.6	53.6	61.7	71.8	81.2
32.5°	17.3	21.2	26.7	33.5	40.9	52.0	62.7	78.0	92.0	106.8	121.5
30°	20.6	26.7	34.4	43.4	56.5	72.3	90.8	112.0	133.9	156.1	183.1
27.5°	25.6	33.5	43.4	58.1	77.4	98.9	127.6	157.8	197.7	232.6	272.2
25°	31.0	40.9	56.5	77.4	102.7	135.6	178.6	226.4	283.4	348.8	410.6
22.5°	37.5	52.0	72.3	98.9	135.6	185.6	243.9	321.9	409.4	496.8	574.5
20°	44.6	62.7	90.8	127.6	178.6	243.9	335.0	443.6	551.8	655.7	747.5
17.5°	53.6	78.0	112.0	157.8	226.4	321.9	443.6	571.7	697.9	821.9	933.3
15°	61.7	92.0	133.9	197.7	283.4	409.4	551.8	697.9	847.4	992.5	1129.2
12.5°	71.8	106.8	156.1	232.6	348.8	496.8	655.7	821.9	992.5	1162.7	1314.5
10°	81.2	121.5	183.1	272.2	410.6	574.5	747.5	933.3	1129.2	1314.5	1466.8
7.5°	88.5	133.2	204.5	310.3	465.1	640.0	829.2	1033.4	1244.0	1432.7	1576.3
5°	93.9	141.6	220.1	339.7	505.1	688.3	889.8	1109.2	1328.8	1513.4	1651.5
2.5°	97.1	146.8	229.6	359.2	529.5	717.9	927.2	1156.6	1380.1	1560.1	1696.5
0°	98.2	148.5	232.8	365.7	537.7	727.9	939.9	1172.7	1397.7	1574.9	1712.1
-2.5°	97.1	146.8	229.6	359.2	529.5	717.9	927.2	1156.6	1380.1	1560.1	1696.5
-5°	93.9	141.6	220.1	339.7	505.1	688.3	889.8	1109.2	1328.8	1513.4	1651.5
-7.5°	88.5	133.2	204.5	310.3	465.1	640.0	829.2	1033.4	1244.0	1432.7	1576.3
-10°	81.2	121.5	183.1	272.2	410.6	574.5	747.5	933.3	1129.2	1314.5	1466.8
-12.5°	71.8	106.8	156.1	232.6	348.8	496.8	655.7	821.9	992.5	1162.7	1314.5
-15°	61.7	92.0	133.9	197.7	283.4	409.4	551.8	697.9	847.4	992.5	1129.2
-17.5°	53.6	78.0	112.0	157.8	226.4	321.9	443.6	571.7	697.9	821.9	933.3
-20°	44.6	62.7	90.8	127.6	178.6	243.9	335.0	443.6	551.8	655.7	747.5



REPORT NUMBER: P220323 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3590-F-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	37.5	52.0	72.3	98.9	135.6	185.6	243.9	321.9	409.4	496.8	574.5
-25°	31.0	40.9	56.5	77.4	102.7	135.6	178.6	226.4	283.4	348.8	410.6
-27.5°	25.6	33.5	43.4	58.1	77.4	98.9	127.6	157.8	197.7	232.6	272.2
-30°	20.6	26.7	34.4	43.4	56.5	72.3	90.8	112.0	133.9	156.1	183.1
-32.5°	17.3	21.2	26.7	33.5	40.9	52.0	62.7	78.0	92.0	106.8	121.5
-35°	14.4	17.3	20.6	25.6	31.0	37.5	44.6	53.6	61.7	71.8	81.2
-37.5°	12.8	14.3	16.7	19.4	23.4	27.4	32.4	37.4	41.9	48.3	53.7
-40°	11.4	12.5	13.8	15.4	17.9	20.2	23.6	26.7	29.9	33.4	36.4
-42.5°	10.4	11.1	12.0	13.1	14.2	15.7	17.6	19.3	21.4	23.6	25.4
-45°	10.4	10.4	10.6	11.4	12.1	13.0	13.9	14.7	16.0	17.2	18.2
-47.5°	10.0	10.3	10.4	10.4	10.6	11.2	11.8	12.3	13.0	13.5	14.0
-50°	9.3	9.7	10.0	10.3	10.4	10.4	10.4	10.6	11.0	11.4	11.7
-52.5°	8.7	9.0	9.4	9.7	9.9	10.2	10.4	10.4	10.4	10.4	10.4
-55°	8.0	8.3	8.6	8.9	9.2	9.4	9.6	9.8	10.0	10.1	10.2
-57.5°	7.3	7.6	7.9	8.1	8.4	8.6	8.8	9.0	9.2	9.3	9.4
-60°	6.9	6.9	7.1	7.4	7.6	7.8	8.0	8.2	8.3	8.4	8.5
-62.5°	6.8	6.9	6.9	6.9	6.9	7.0	7.2	7.3	7.4	7.5	7.6
-65°	6.2	6.4	6.6	6.7	6.9	6.9	6.9	6.9	6.9	6.9	6.9
-67.5°	5.5	5.7	5.9	6.0	6.2	6.3	6.4	6.5	6.6	6.7	6.8
-70°	5.2	5.2	5.2	5.3	5.4	5.5	5.6	5.8	5.8	5.9	6.0
-72.5°	4.9	5.1	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
-75°	4.2	4.3	4.5	4.6	4.7	4.8	4.9	4.9	5.0	5.1	5.1
-77.5°	3.6	3.7	3.8	3.8	3.9	4.0	4.1	4.1	4.2	4.2	4.2
-80°	2.8	2.9	3.0	3.1	3.2	3.2	3.3	3.3	3.4	3.4	3.4
-82.5°	2.1	2.2	2.2	2.3	2.3	2.4	2.4	2.5	2.5	2.5	2.6
-85°	1.4	1.4	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.7	1.7
-87.5°	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P220323 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3590-F-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°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
85°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.6
82.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.5
80°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.4	3.4	3.4	3.3
77.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.2	4.2	4.2	4.1
75°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.1	5.1	5.0	4.9
72.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
70°	6.0	6.1	6.1	6.1	6.1	6.1	6.0	6.0	5.9	5.8	5.8
67.5°	6.8	6.9	6.9	6.9	6.9	6.9	6.8	6.8	6.7	6.6	6.5
65°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
62.5°	7.7	7.8	7.8	7.8	7.8	7.8	7.7	7.6	7.5	7.4	7.3
60°	8.6	8.7	8.7	8.7	8.7	8.7	8.6	8.5	8.4	8.3	8.2
57.5°	9.5	9.6	9.6	9.6	9.6	9.6	9.5	9.4	9.3	9.2	9.0
55°	10.3	10.4	10.4	10.4	10.4	10.4	10.3	10.2	10.1	10.0	9.8
52.5°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
50°	11.9	12.1	12.2	12.2	12.2	12.1	11.9	11.7	11.4	11.0	10.6
47.5°	14.3	14.6	14.7	14.8	14.7	14.6	14.3	14.0	13.5	13.0	12.3
45°	19.0	19.5	19.9	20.0	19.9	19.5	19.0	18.2	17.2	16.0	14.7
42.5°	26.8	27.9	28.5	28.7	28.5	27.9	26.8	25.4	23.6	21.4	19.3
40°	38.7	40.4	41.4	41.7	41.4	40.4	38.7	36.4	33.4	29.9	26.7
37.5°	57.9	60.9	62.8	63.4	62.8	60.9	57.9	53.7	48.3	41.9	37.4
35°	88.5	93.9	97.1	98.2	97.1	93.9	88.5	81.2	71.8	61.7	53.6
32.5°	133.2	141.6	146.8	148.5	146.8	141.6	133.2	121.5	106.8	92.0	78.0
30°	204.5	220.1	229.6	232.8	229.6	220.1	204.5	183.1	156.1	133.9	112.0
27.5°	310.3	339.7	359.2	365.7	359.2	339.7	310.3	272.2	232.6	197.7	157.8
25°	465.1	505.1	529.5	537.7	529.5	505.1	465.1	410.6	348.8	283.4	226.4
22.5°	640.0	688.3	717.9	727.9	717.9	688.3	640.0	574.5	496.8	409.4	321.9
20°	829.2	889.8	927.2	939.9	927.2	889.8	829.2	747.5	655.7	551.8	443.6
17.5°	1033.4	1109.2	1156.6	1172.7	1156.6	1109.2	1033.4	933.3	821.9	697.9	571.7
15°	1244.0	1328.8	1380.1	1397.7	1380.1	1328.8	1244.0	1129.2	992.5	847.4	697.9
12.5°	1432.7	1513.4	1560.1	1574.9	1560.1	1513.4	1432.7	1314.5	1162.7	992.5	821.9
10°	1576.3	1651.5	1696.5	1712.1	1696.5	1651.5	1576.3	1466.8	1314.5	1129.2	933.3
7.5°	1681.8	1757.9	1804.0	1817.7	1804.0	1757.9	1681.8	1576.3	1432.7	1244.0	1033.4
5°	1757.9	1832.3	1860.6	1866.7	1860.6	1832.3	1757.9	1651.5	1513.4	1328.8	1109.2
2.5°	1804.0	1860.6	1865.2	1860.3	1865.2	1860.6	1804.0	1696.5	1560.1	1380.1	1156.6
0°	1817.7	1866.7	1860.3	1864.1	1860.3	1866.7	1817.7	1712.1	1574.9	1397.7	1172.7
-2.5°	1804.0	1860.6	1865.2	1860.3	1865.2	1860.6	1804.0	1696.5	1560.1	1380.1	1156.6
-5°	1757.9	1832.3	1860.6	1866.7	1860.6	1832.3	1757.9	1651.5	1513.4	1328.8	1109.2
-7.5°	1681.8	1757.9	1804.0	1817.7	1804.0	1757.9	1681.8	1576.3	1432.7	1244.0	1033.4
-10°	1576.3	1651.5	1696.5	1712.1	1696.5	1651.5	1576.3	1466.8	1314.5	1129.2	933.3
-12.5°	1432.7	1513.4	1560.1	1574.9	1560.1	1513.4	1432.7	1314.5	1162.7	992.5	821.9
-15°	1244.0	1328.8	1380.1	1397.7	1380.1	1328.8	1244.0	1129.2	992.5	847.4	697.9
-17.5°	1033.4	1109.2	1156.6	1172.7	1156.6	1109.2	1033.4	933.3	821.9	697.9	571.7
-20°	829.2	889.8	927.2	939.9	927.2	889.8	829.2	747.5	655.7	551.8	443.6



REPORT NUMBER: P220323 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3590-F-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°	640.0	688.3	717.9	727.9	717.9	688.3	640.0	574.5	496.8	409.4	321.9
-25°	465.1	505.1	529.5	537.7	529.5	505.1	465.1	410.6	348.8	283.4	226.4
-27.5°	310.3	339.7	359.2	365.7	359.2	339.7	310.3	272.2	232.6	197.7	157.8
-30°	204.5	220.1	229.6	232.8	229.6	220.1	204.5	183.1	156.1	133.9	112.0
-32.5°	133.2	141.6	146.8	148.5	146.8	141.6	133.2	121.5	106.8	92.0	78.0
-35°	88.5	93.9	97.1	98.2	97.1	93.9	88.5	81.2	71.8	61.7	53.6
-37.5°	57.9	60.9	62.8	63.4	62.8	60.9	57.9	53.7	48.3	41.9	37.4
-40°	38.7	40.4	41.4	41.7	41.4	40.4	38.7	36.4	33.4	29.9	26.7
-42.5°	26.8	27.9	28.5	28.7	28.5	27.9	26.8	25.4	23.6	21.4	19.3
-45°	19.0	19.5	19.9	20.0	19.9	19.5	19.0	18.2	17.2	16.0	14.7
-47.5°	14.3	14.6	14.7	14.8	14.7	14.6	14.3	14.0	13.5	13.0	12.3
-50°	11.9	12.1	12.2	12.2	12.2	12.1	11.9	11.7	11.4	11.0	10.6
-52.5°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
-55°	10.3	10.4	10.4	10.4	10.4	10.4	10.3	10.2	10.1	10.0	9.8
-57.5°	9.5	9.6	9.6	9.6	9.6	9.6	9.5	9.4	9.3	9.2	9.0
-60°	8.6	8.7	8.7	8.7	8.7	8.7	8.6	8.5	8.4	8.3	8.2
-62.5°	7.7	7.8	7.8	7.8	7.8	7.8	7.7	7.6	7.5	7.4	7.3
-65°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
-67.5°	6.8	6.9	6.9	6.9	6.9	6.9	6.8	6.8	6.7	6.6	6.5
-70°	6.0	6.1	6.1	6.1	6.1	6.1	6.0	6.0	5.9	5.8	5.8
-72.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
-75°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.1	5.1	5.0	4.9
-77.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.2	4.2	4.2	4.1
-80°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.4	3.4	3.4	3.3
-82.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.5
-85°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.6
-87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P220323 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3590-F-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	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.6
85°	1.6	1.6	1.5	1.5	1.5	1.4	1.4	1.4	1.3	1.3	1.2
82.5°	2.4	2.4	2.3	2.3	2.2	2.2	2.1	2.0	2.0	1.9	1.8
80°	3.3	3.2	3.2	3.1	3.0	2.9	2.8	2.8	2.7	2.5	2.4
77.5°	4.1	4.0	3.9	3.8	3.8	3.7	3.6	3.5	3.3	3.2	3.1
75°	4.9	4.8	4.7	4.6	4.5	4.3	4.2	4.1	4.0	3.8	3.7
72.5°	5.2	5.2	5.2	5.2	5.2	5.1	4.9	4.8	4.6	4.4	4.2
70°	5.6	5.5	5.4	5.3	5.2	5.2	5.2	5.2	5.2	5.1	4.8
67.5°	6.4	6.3	6.2	6.0	5.9	5.7	5.5	5.3	5.2	5.2	5.2
65°	6.9	6.9	6.9	6.7	6.6	6.4	6.2	6.0	5.7	5.4	5.2
62.5°	7.2	7.0	6.9	6.9	6.9	6.9	6.8	6.6	6.3	6.1	5.8
60°	8.0	7.8	7.6	7.4	7.1	6.9	6.9	6.9	6.9	6.6	6.3
57.5°	8.8	8.6	8.4	8.1	7.9	7.6	7.3	7.0	6.9	6.9	6.8
55°	9.6	9.4	9.2	8.9	8.6	8.3	8.0	7.6	7.3	6.9	6.9
52.5°	10.4	10.2	9.9	9.7	9.4	9.0	8.7	8.3	7.9	7.5	7.1
50°	10.4	10.4	10.4	10.3	10.0	9.7	9.3	8.9	8.5	8.1	7.6
47.5°	11.8	11.2	10.6	10.4	10.4	10.3	10.0	9.6	9.1	8.7	8.2
45°	13.9	13.0	12.1	11.4	10.6	10.4	10.4	10.1	9.7	9.2	8.7
42.5°	17.6	15.7	14.2	13.1	12.0	11.1	10.4	10.4	10.2	9.7	9.2
40°	23.6	20.2	17.9	15.4	13.8	12.5	11.4	10.4	10.4	10.2	9.7
37.5°	32.4	27.4	23.4	19.4	16.7	14.3	12.8	11.5	10.4	10.4	10.1
35°	44.6	37.5	31.0	25.6	20.6	17.3	14.4	12.8	11.4	10.4	10.4
32.5°	62.7	52.0	40.9	33.5	26.7	21.2	17.3	14.3	12.5	11.1	10.4
30°	90.8	72.3	56.5	43.4	34.4	26.7	20.6	16.7	13.8	12.0	10.6
27.5°	127.6	98.9	77.4	58.1	43.4	33.5	25.6	19.4	15.4	13.1	11.4
25°	178.6	135.6	102.7	77.4	56.5	40.9	31.0	23.4	17.9	14.2	12.1
22.5°	243.9	185.6	135.6	98.9	72.3	52.0	37.5	27.4	20.2	15.7	13.0
20°	335.0	243.9	178.6	127.6	90.8	62.7	44.6	32.4	23.6	17.6	13.9
17.5°	443.6	321.9	226.4	157.8	112.0	78.0	53.6	37.4	26.7	19.3	14.7
15°	551.8	409.4	283.4	197.7	133.9	92.0	61.7	41.9	29.9	21.4	16.0
12.5°	655.7	496.8	348.8	232.6	156.1	106.8	71.8	48.3	33.4	23.6	17.2
10°	747.5	574.5	410.6	272.2	183.1	121.5	81.2	53.7	36.4	25.4	18.2
7.5°	829.2	640.0	465.1	310.3	204.5	133.2	88.5	57.9	38.7	26.8	19.0
5°	889.8	688.3	505.1	339.7	220.1	141.6	93.9	60.9	40.4	27.9	19.5
2.5°	927.2	717.9	529.5	359.2	229.6	146.8	97.1	62.8	41.4	28.5	19.9
0°	939.9	727.9	537.7	365.7	232.8	148.5	98.2	63.4	41.7	28.7	20.0
-2.5°	927.2	717.9	529.5	359.2	229.6	146.8	97.1	62.8	41.4	28.5	19.9
-5°	889.8	688.3	505.1	339.7	220.1	141.6	93.9	60.9	40.4	27.9	19.5
-7.5°	829.2	640.0	465.1	310.3	204.5	133.2	88.5	57.9	38.7	26.8	19.0
-10°	747.5	574.5	410.6	272.2	183.1	121.5	81.2	53.7	36.4	25.4	18.2
-12.5°	655.7	496.8	348.8	232.6	156.1	106.8	71.8	48.3	33.4	23.6	17.2
-15°	551.8	409.4	283.4	197.7	133.9	92.0	61.7	41.9	29.9	21.4	16.0
-17.5°	443.6	321.9	226.4	157.8	112.0	78.0	53.6	37.4	26.7	19.3	14.7
-20°	335.0	243.9	178.6	127.6	90.8	62.7	44.6	32.4	23.6	17.6	13.9



REPORT NUMBER: P220323 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3590-F-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	243.9	185.6	135.6	98.9	72.3	52.0	37.5	27.4	20.2	15.7	13.0
-25°	178.6	135.6	102.7	77.4	56.5	40.9	31.0	23.4	17.9	14.2	12.1
-27.5°	127.6	98.9	77.4	58.1	43.4	33.5	25.6	19.4	15.4	13.1	11.4
-30°	90.8	72.3	56.5	43.4	34.4	26.7	20.6	16.7	13.8	12.0	10.6
-32.5°	62.7	52.0	40.9	33.5	26.7	21.2	17.3	14.3	12.5	11.1	10.4
-35°	44.6	37.5	31.0	25.6	20.6	17.3	14.4	12.8	11.4	10.4	10.4
-37.5°	32.4	27.4	23.4	19.4	16.7	14.3	12.8	11.5	10.4	10.4	10.1
-40°	23.6	20.2	17.9	15.4	13.8	12.5	11.4	10.4	10.4	10.2	9.7
-42.5°	17.6	15.7	14.2	13.1	12.0	11.1	10.4	10.4	10.2	9.7	9.2
-45°	13.9	13.0	12.1	11.4	10.6	10.4	10.4	10.1	9.7	9.2	8.7
-47.5°	11.8	11.2	10.6	10.4	10.4	10.3	10.0	9.6	9.1	8.7	8.2
-50°	10.4	10.4	10.4	10.3	10.0	9.7	9.3	8.9	8.5	8.1	7.6
-52.5°	10.4	10.2	9.9	9.7	9.4	9.0	8.7	8.3	7.9	7.5	7.1
-55°	9.6	9.4	9.2	8.9	8.6	8.3	8.0	7.6	7.3	6.9	6.9
-57.5°	8.8	8.6	8.4	8.1	7.9	7.6	7.3	7.0	6.9	6.9	6.8
-60°	8.0	7.8	7.6	7.4	7.1	6.9	6.9	6.9	6.9	6.6	6.3
-62.5°	7.2	7.0	6.9	6.9	6.9	6.9	6.8	6.6	6.3	6.1	5.8
-65°	6.9	6.9	6.9	6.7	6.6	6.4	6.2	6.0	5.7	5.4	5.2
-67.5°	6.4	6.3	6.2	6.0	5.9	5.7	5.5	5.3	5.2	5.2	5.2
-70°	5.6	5.5	5.4	5.3	5.2	5.2	5.2	5.2	5.2	5.1	4.8
-72.5°	5.2	5.2	5.2	5.2	5.2	5.1	4.9	4.8	4.6	4.4	4.2
-75°	4.9	4.8	4.7	4.6	4.5	4.3	4.2	4.1	4.0	3.8	3.7
-77.5°	4.1	4.0	3.9	3.8	3.8	3.7	3.6	3.5	3.3	3.2	3.1
-80°	3.3	3.2	3.2	3.1	3.0	2.9	2.8	2.8	2.7	2.5	2.4
-82.5°	2.4	2.4	2.3	2.3	2.2	2.2	2.1	2.0	2.0	1.9	1.8
-85°	1.6	1.6	1.5	1.5	1.5	1.4	1.4	1.4	1.3	1.3	1.2
-87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	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: P220323 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3590-F-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°	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3
85°	1.2	1.1	1.1	1.0	1.0	0.9	0.8	0.8	0.7	0.6	0.5
82.5°	1.7	1.6	1.6	1.5	1.4	1.3	1.2	1.1	1.0	0.9	0.8
80°	2.3	2.2	2.1	2.0	1.8	1.7	1.6	1.4	1.3	1.2	1.1
77.5°	2.9	2.8	2.6	2.5	2.3	2.1	2.0	1.8	1.6	1.5	1.3
75°	3.5	3.3	3.2	3.0	2.8	2.6	2.4	2.2	1.9	1.7	1.5
72.5°	4.1	3.9	3.7	3.5	3.2	3.0	2.8	2.5	2.3	2.0	1.8
70°	4.6	4.4	4.1	3.9	3.7	3.4	3.2	2.9	2.6	2.3	2.0
67.5°	5.2	4.9	4.6	4.4	4.1	3.8	3.6	3.3	2.9	2.6	2.3
65°	5.2	5.2	5.2	4.9	4.5	4.2	3.9	3.6	3.3	2.9	2.5
62.5°	5.4	5.2	5.2	5.2	5.0	4.6	4.2	3.9	3.6	3.2	2.8
60°	6.0	5.6	5.3	5.2	5.2	5.0	4.6	4.2	3.8	3.4	3.0
57.5°	6.5	6.2	5.8	5.4	5.2	5.2	5.0	4.5	4.1	3.7	3.2
55°	6.9	6.6	6.2	5.8	5.4	5.2	5.2	4.9	4.4	3.9	3.5
52.5°	6.9	6.9	6.7	6.2	5.8	5.3	5.2	5.2	4.6	4.1	3.7
50°	7.2	6.9	6.9	6.6	6.2	5.6	5.2	5.2	4.9	4.4	3.9
47.5°	7.7	7.2	6.9	6.9	6.5	6.0	5.4	5.2	5.2	4.6	4.1
45°	8.2	7.6	7.1	6.9	6.8	6.3	5.8	5.2	5.2	4.8	4.2
42.5°	8.7	8.1	7.5	6.9	6.9	6.6	6.1	5.4	5.2	5.1	4.4
40°	9.1	8.5	7.9	7.3	6.9	6.9	6.3	5.7	5.2	5.2	4.6
37.5°	9.6	8.9	8.3	7.6	7.0	6.9	6.6	6.0	5.3	5.2	4.8
35°	10.0	9.3	8.7	8.0	7.3	6.9	6.8	6.2	5.5	5.2	4.9
32.5°	10.3	9.7	9.0	8.3	7.6	6.9	6.9	6.4	5.7	5.2	5.1
30°	10.4	10.0	9.4	8.6	7.9	7.1	6.9	6.6	5.9	5.2	5.2
27.5°	10.4	10.3	9.7	8.9	8.1	7.4	6.9	6.7	6.0	5.3	5.2
25°	10.6	10.4	9.9	9.2	8.4	7.6	6.9	6.9	6.2	5.4	5.2
22.5°	11.2	10.4	10.2	9.4	8.6	7.8	7.0	6.9	6.3	5.5	5.2
20°	11.8	10.4	10.4	9.6	8.8	8.0	7.2	6.9	6.4	5.6	5.2
17.5°	12.3	10.6	10.4	9.8	9.0	8.2	7.3	6.9	6.5	5.8	5.2
15°	13.0	11.0	10.4	10.0	9.2	8.3	7.4	6.9	6.6	5.8	5.2
12.5°	13.5	11.4	10.4	10.1	9.3	8.4	7.5	6.9	6.7	5.9	5.2
10°	14.0	11.7	10.4	10.2	9.4	8.5	7.6	6.9	6.8	6.0	5.2
7.5°	14.3	11.9	10.4	10.3	9.5	8.6	7.7	6.9	6.8	6.0	5.2
5°	14.6	12.1	10.4	10.4	9.6	8.7	7.8	6.9	6.9	6.1	5.2
2.5°	14.7	12.2	10.4	10.4	9.6	8.7	7.8	6.9	6.9	6.1	5.2
0°	14.8	12.2	10.4	10.4	9.6	8.7	7.8	6.9	6.9	6.1	5.2
-2.5°	14.7	12.2	10.4	10.4	9.6	8.7	7.8	6.9	6.9	6.1	5.2
-5°	14.6	12.1	10.4	10.4	9.6	8.7	7.8	6.9	6.9	6.1	5.2
-7.5°	14.3	11.9	10.4	10.3	9.5	8.6	7.7	6.9	6.8	6.0	5.2
-10°	14.0	11.7	10.4	10.2	9.4	8.5	7.6	6.9	6.8	6.0	5.2
-12.5°	13.5	11.4	10.4	10.1	9.3	8.4	7.5	6.9	6.7	5.9	5.2
-15°	13.0	11.0	10.4	10.0	9.2	8.3	7.4	6.9	6.6	5.8	5.2
-17.5°	12.3	10.6	10.4	9.8	9.0	8.2	7.3	6.9	6.5	5.8	5.2
-20°	11.8	10.4	10.4	9.6	8.8	8.0	7.2	6.9	6.4	5.6	5.2



REPORT NUMBER: P220323 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3590-F-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°	11.2	10.4	10.2	9.4	8.6	7.8	7.0	6.9	6.3	5.5	5.2
-25°	10.6	10.4	9.9	9.2	8.4	7.6	6.9	6.9	6.2	5.4	5.2
-27.5°	10.4	10.3	9.7	8.9	8.1	7.4	6.9	6.7	6.0	5.3	5.2
-30°	10.4	10.0	9.4	8.6	7.9	7.1	6.9	6.6	5.9	5.2	5.2
-32.5°	10.3	9.7	9.0	8.3	7.6	6.9	6.9	6.4	5.7	5.2	5.1
-35°	10.0	9.3	8.7	8.0	7.3	6.9	6.8	6.2	5.5	5.2	4.9
-37.5°	9.6	8.9	8.3	7.6	7.0	6.9	6.6	6.0	5.3	5.2	4.8
-40°	9.1	8.5	7.9	7.3	6.9	6.9	6.3	5.7	5.2	5.2	4.6
-42.5°	8.7	8.1	7.5	6.9	6.9	6.6	6.1	5.4	5.2	5.1	4.4
-45°	8.2	7.6	7.1	6.9	6.8	6.3	5.8	5.2	5.2	4.8	4.2
-47.5°	7.7	7.2	6.9	6.9	6.5	6.0	5.4	5.2	5.2	4.6	4.1
-50°	7.2	6.9	6.9	6.6	6.2	5.6	5.2	5.2	4.9	4.4	3.9
-52.5°	6.9	6.9	6.7	6.2	5.8	5.3	5.2	5.2	4.6	4.1	3.7
-55°	6.9	6.6	6.2	5.8	5.4	5.2	5.2	4.9	4.4	3.9	3.5
-57.5°	6.5	6.2	5.8	5.4	5.2	5.2	5.0	4.5	4.1	3.7	3.2
-60°	6.0	5.6	5.3	5.2	5.2	5.0	4.6	4.2	3.8	3.4	3.0
-62.5°	5.4	5.2	5.2	5.2	5.0	4.6	4.2	3.9	3.6	3.2	2.8
-65°	5.2	5.2	5.2	4.9	4.5	4.2	3.9	3.6	3.3	2.9	2.5
-67.5°	5.2	4.9	4.6	4.4	4.1	3.8	3.6	3.3	2.9	2.6	2.3
-70°	4.6	4.4	4.1	3.9	3.7	3.4	3.2	2.9	2.6	2.3	2.0
-72.5°	4.1	3.9	3.7	3.5	3.2	3.0	2.8	2.5	2.3	2.0	1.8
-75°	3.5	3.3	3.2	3.0	2.8	2.6	2.4	2.2	1.9	1.7	1.5
-77.5°	2.9	2.8	2.6	2.5	2.3	2.1	2.0	1.8	1.6	1.5	1.3
-80°	2.3	2.2	2.1	2.0	1.8	1.7	1.6	1.4	1.3	1.2	1.1
-82.5°	1.7	1.6	1.6	1.5	1.4	1.3	1.2	1.1	1.0	0.9	0.8
-85°	1.2	1.1	1.1	1.0	1.0	0.9	0.8	0.8	0.7	0.6	0.5
-87.5°	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.4	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: P220323 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3590-F-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	0.2	0.1	0.1	0.0	0.0
85°	0.5	0.4	0.3	0.2	0.2	0.1	0.0
82.5°	0.7	0.6	0.5	0.4	0.2	0.1	0.0
80°	0.9	0.8	0.6	0.5	0.3	0.2	0.0
77.5°	1.1	1.0	0.8	0.6	0.4	0.2	0.0
75°	1.3	1.1	0.9	0.7	0.5	0.2	0.0
72.5°	1.5	1.3	1.1	0.8	0.5	0.3	0.0
70°	1.7	1.5	1.2	0.9	0.6	0.3	0.0
67.5°	1.9	1.6	1.3	1.0	0.7	0.3	0.0
65°	2.2	1.8	1.4	1.1	0.8	0.4	0.0
62.5°	2.4	2.0	1.6	1.2	0.8	0.4	0.0
60°	2.6	2.1	1.7	1.3	0.9	0.4	0.0
57.5°	2.8	2.3	1.8	1.4	1.0	0.5	0.0
55°	3.0	2.5	2.0	1.5	1.0	0.5	0.0
52.5°	3.2	2.6	2.1	1.6	1.1	0.5	0.0
50°	3.3	2.8	2.2	1.6	1.1	0.6	0.0
47.5°	3.5	2.9	2.3	1.7	1.2	0.6	0.0
45°	3.7	3.1	2.4	1.8	1.2	0.6	0.0
42.5°	3.8	3.2	2.5	1.9	1.3	0.7	0.0
40°	4.0	3.3	2.7	2.0	1.3	0.7	0.0
37.5°	4.1	3.5	2.8	2.0	1.4	0.7	0.0
35°	4.2	3.6	2.8	2.1	1.4	0.7	0.0
32.5°	4.3	3.7	2.9	2.2	1.4	0.8	0.0
30°	4.5	3.8	3.0	2.2	1.5	0.8	0.0
27.5°	4.6	3.8	3.1	2.3	1.5	0.8	0.0
25°	4.7	3.9	3.2	2.3	1.5	0.8	0.0
22.5°	4.8	4.0	3.2	2.4	1.6	0.8	0.0
20°	4.9	4.1	3.3	2.4	1.6	0.8	0.0
17.5°	4.9	4.1	3.3	2.5	1.6	0.9	0.0
15°	5.0	4.2	3.4	2.5	1.6	0.9	0.0
12.5°	5.1	4.2	3.4	2.5	1.7	0.9	0.0
10°	5.1	4.2	3.4	2.6	1.7	0.9	0.0
7.5°	5.2	4.3	3.5	2.6	1.7	0.9	0.0
5°	5.2	4.3	3.5	2.6	1.7	0.9	0.0
2.5°	5.2	4.3	3.5	2.6	1.7	0.9	0.0
0°	5.2	4.3	3.5	2.6	1.7	0.9	0.0
-2.5°	5.2	4.3	3.5	2.6	1.7	0.9	0.0
-5°	5.2	4.3	3.5	2.6	1.7	0.9	0.0
-7.5°	5.2	4.3	3.5	2.6	1.7	0.9	0.0
-10°	5.1	4.2	3.4	2.6	1.7	0.9	0.0
-12.5°	5.1	4.2	3.4	2.5	1.7	0.9	0.0
-15°	5.0	4.2	3.4	2.5	1.6	0.9	0.0
-17.5°	4.9	4.1	3.3	2.5	1.6	0.9	0.0
-20°	4.9	4.1	3.3	2.4	1.6	0.8	0.0



REPORT NUMBER: P220323 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3590-F-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	4.8	4.0	3.2	2.4	1.6	0.8	0.0
-25°	4.7	3.9	3.2	2.3	1.5	0.8	0.0
-27.5°	4.6	3.8	3.1	2.3	1.5	0.8	0.0
-30°	4.5	3.8	3.0	2.2	1.5	0.8	0.0
-32.5°	4.3	3.7	2.9	2.2	1.4	0.8	0.0
-35°	4.2	3.6	2.8	2.1	1.4	0.7	0.0
-37.5°	4.1	3.5	2.8	2.0	1.4	0.7	0.0
-40°	4.0	3.3	2.7	2.0	1.3	0.7	0.0
-42.5°	3.8	3.2	2.5	1.9	1.3	0.7	0.0
-45°	3.7	3.1	2.4	1.8	1.2	0.6	0.0
-47.5°	3.5	2.9	2.3	1.7	1.2	0.6	0.0
-50°	3.3	2.8	2.2	1.6	1.1	0.6	0.0
-52.5°	3.2	2.6	2.1	1.6	1.1	0.5	0.0
-55°	3.0	2.5	2.0	1.5	1.0	0.5	0.0
-57.5°	2.8	2.3	1.8	1.4	1.0	0.5	0.0
-60°	2.6	2.1	1.7	1.3	0.9	0.4	0.0
-62.5°	2.4	2.0	1.6	1.2	0.8	0.4	0.0
-65°	2.2	1.8	1.4	1.1	0.8	0.4	0.0
-67.5°	1.9	1.6	1.3	1.0	0.7	0.3	0.0
-70°	1.7	1.5	1.2	0.9	0.6	0.3	0.0
-72.5°	1.5	1.3	1.1	0.8	0.5	0.3	0.0
-75°	1.3	1.1	0.9	0.7	0.5	0.2	0.0
-77.5°	1.1	1.0	0.8	0.6	0.4	0.2	0.0
-80°	0.9	0.8	0.6	0.5	0.3	0.2	0.0
-82.5°	0.7	0.6	0.5	0.4	0.2	0.1	0.0
-85°	0.5	0.4	0.3	0.2	0.2	0.1	0.0
-87.5°	0.2	0.2	0.2	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)