

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: P220330 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-W-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220330 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29412)
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]-LED3090-W-WT-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, RECESSED LENS,
WIDE FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3000K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

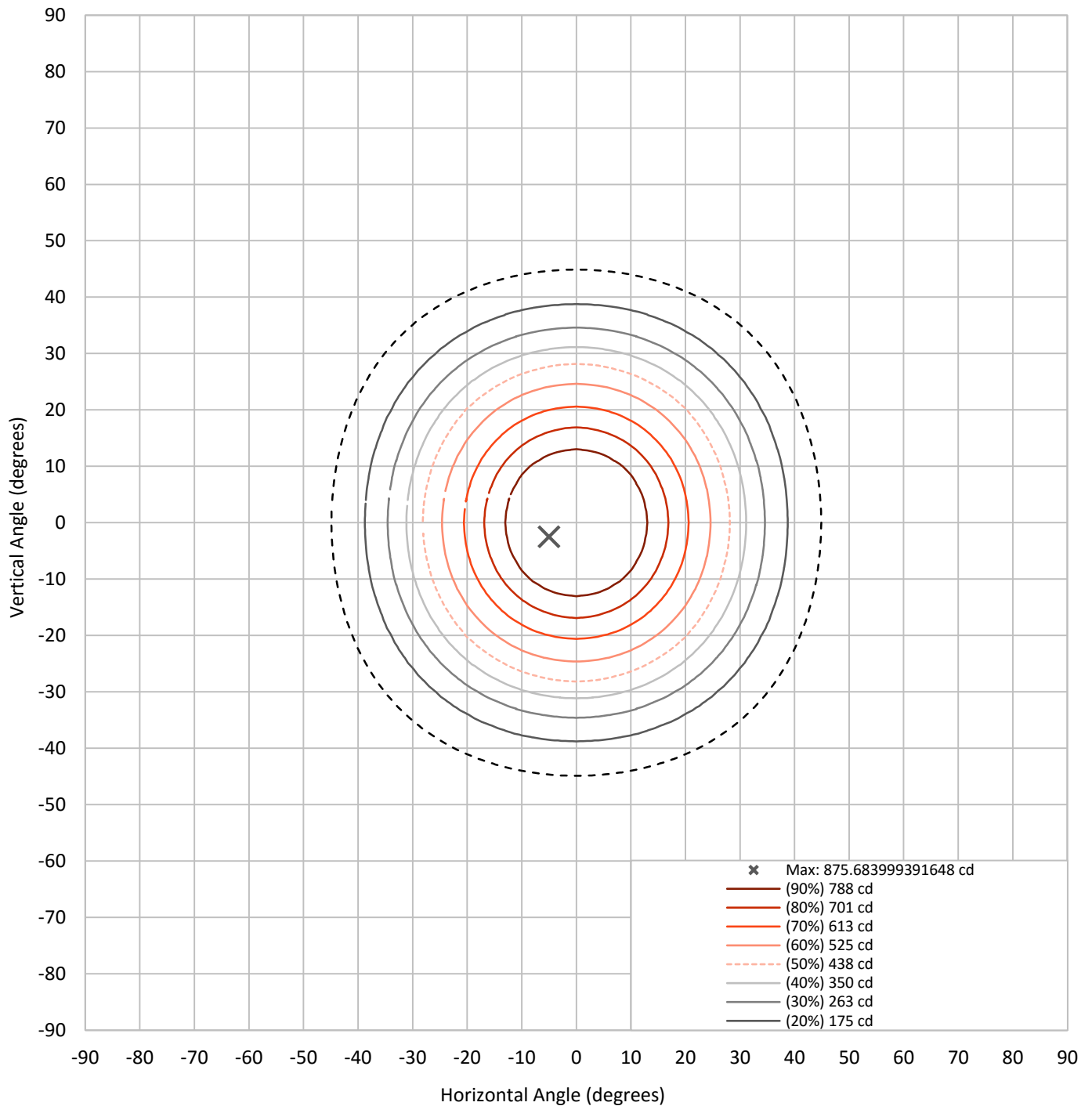
Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	775.9 lumens	Max Intensity:	875.7 candela
Efficiency:	N/A	Max Intensity Angle:	-5°H x -2.5°V
Efficacy:	77.6 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	56.1°H x 55.5°V	Field Angle (10%):	89.7°H x 89.4°V
Beam Lumens:	480 lumens	Field Lumens:	724.5 lumens
Beam Efficiency:	61.9%	Field Efficiency:	93.4%
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: P220330 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-W-WT-L1-UNV

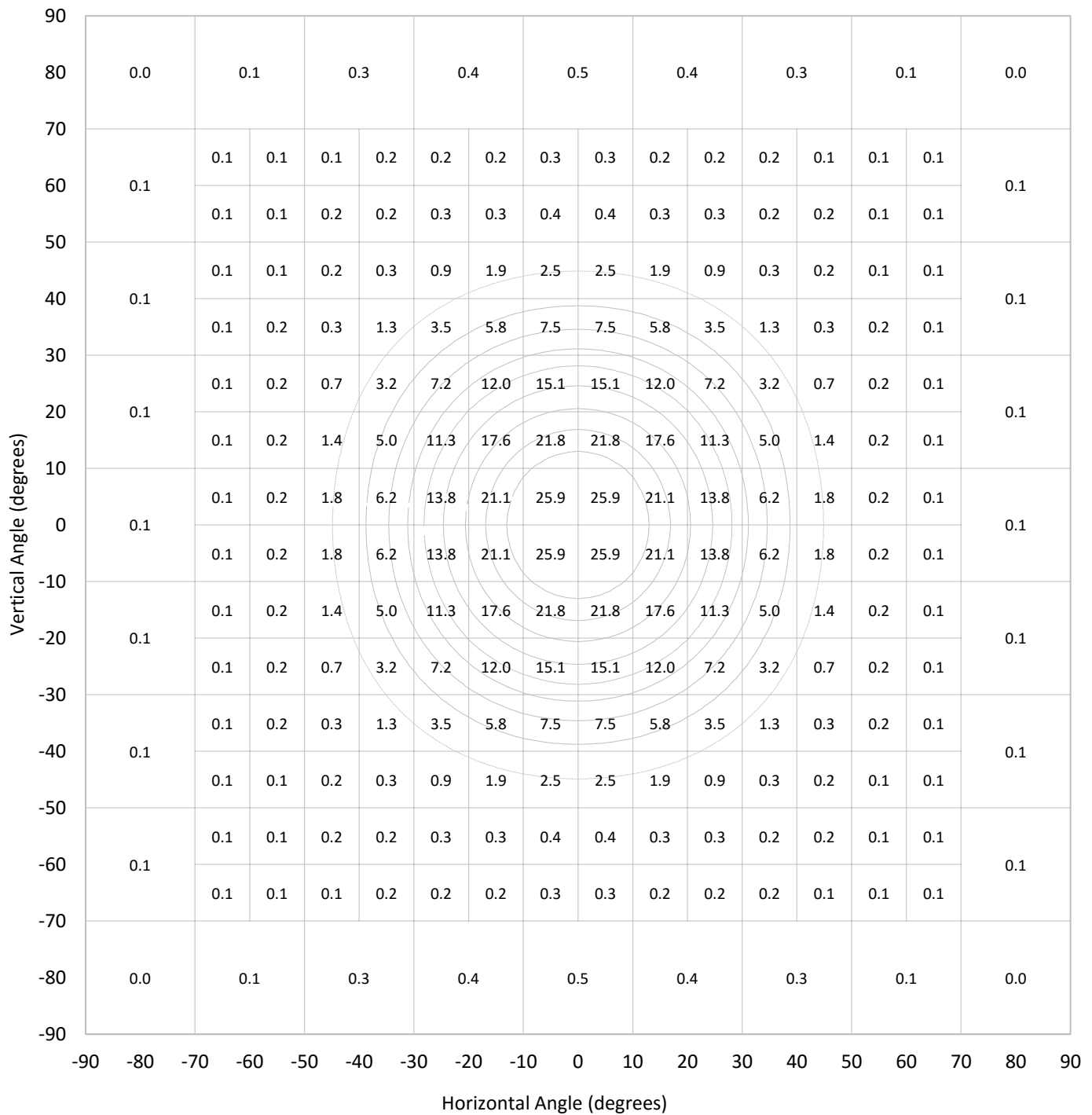
Iso-Candela Plot





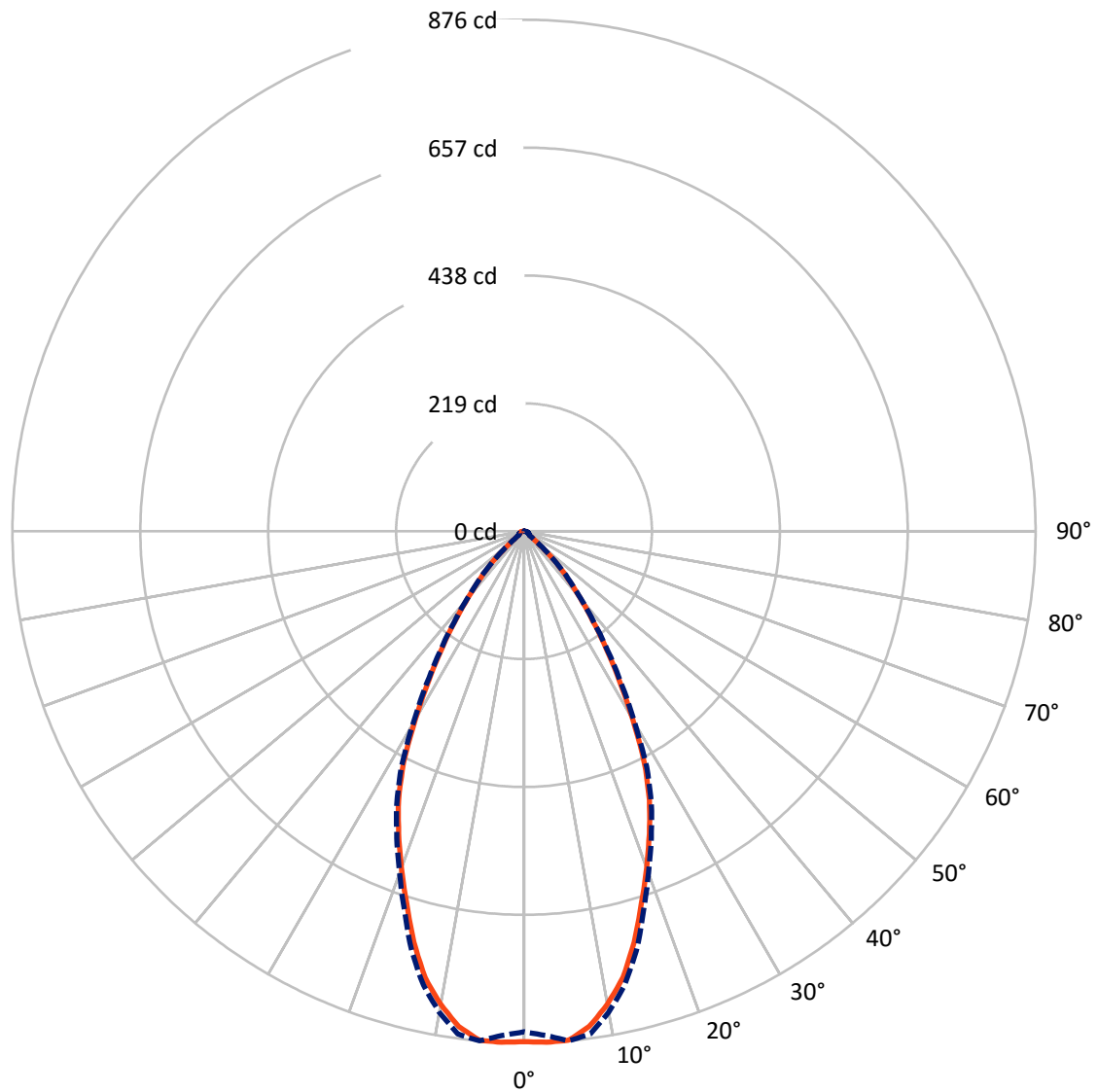
REPORT NUMBER: P220330 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-W-WT-L1-UNV

Lumen Table



REPORT NUMBER: P220330 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-W-WT-L1-UNV

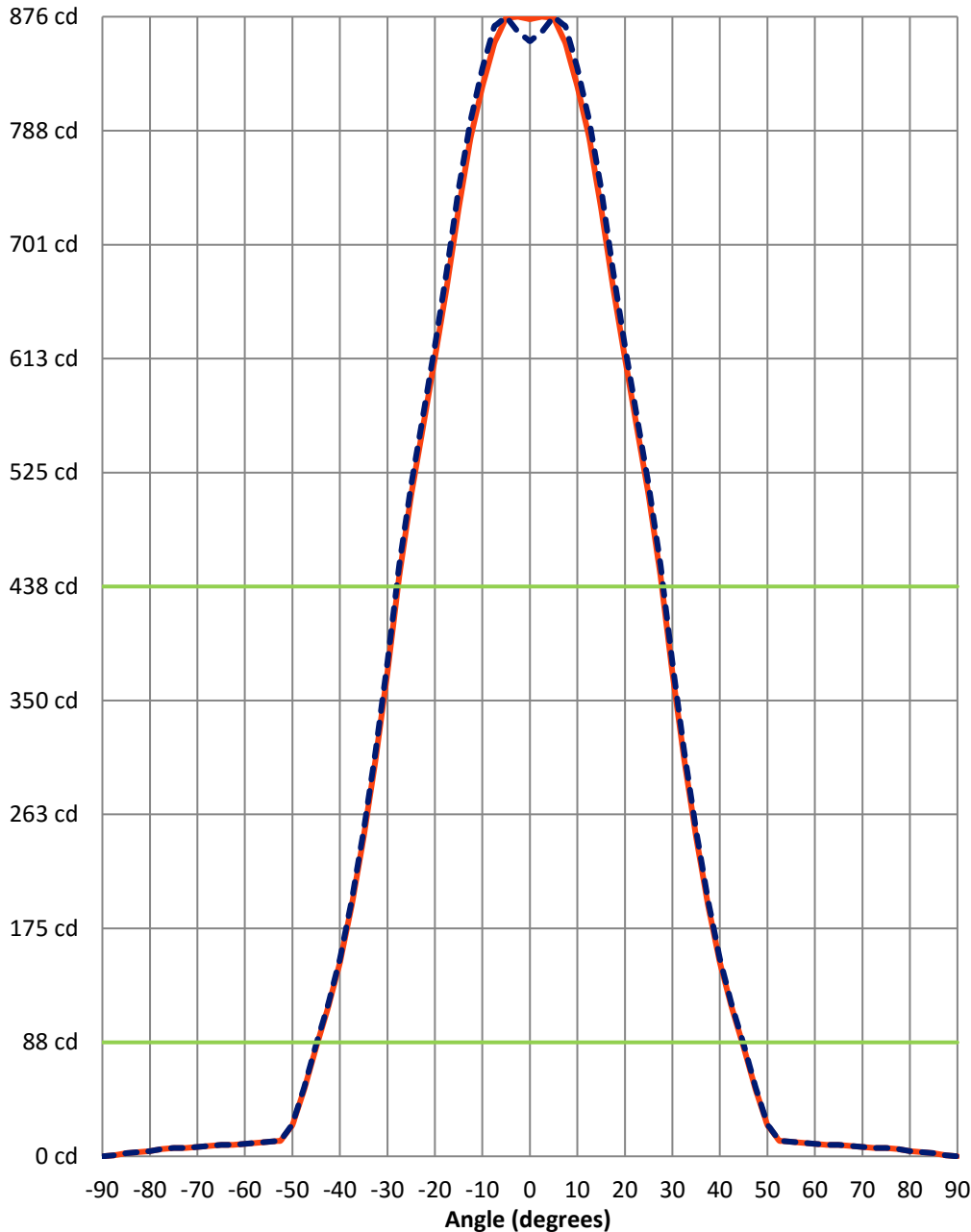
Luminous Intensity Polar Plot



— Vertical Distribution Through -5-Deg - - - Horizontal Distribution Through -2.5-Deg

REPORT NUMBER: P220330 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-W-WT-L1-UNV

Luminous Intensity Plot



Beam:
 H Angle: 56.1°
 V Angle: 55.5°
 Lumens: 480
 Efficiency: 61.9%

Field:
 H Angle: 89.7°
 V Angle: 89.4°
 Lumens: 724.5
 Efficiency: 93.4%

Spill:
 Lumens: 51.4
 Efficiency: 6.6%

- Vertical Distribution through -5-Deg
- - Horizontal Distribution through -2.5-Deg



REPORT NUMBER: P220330 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-W-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	1.0	1.2
80°	0.0	0.1	0.3	0.4	0.6	0.7	0.8	1.1	1.4	1.6	1.9
77.5°	0.0	0.2	0.3	0.5	0.7	0.9	1.3	1.6	1.9	2.2	2.5
75°	0.0	0.2	0.4	0.6	0.8	1.3	1.7	2.1	2.4	2.6	2.8
72.5°	0.0	0.2	0.5	0.7	1.1	1.6	2.1	2.5	2.7	2.9	3.1
70°	0.0	0.3	0.5	0.8	1.4	1.9	2.4	2.7	2.9	3.2	3.5
67.5°	0.0	0.3	0.6	1.0	1.6	2.2	2.6	2.9	3.2	3.5	3.8
65°	0.0	0.3	0.7	1.2	1.9	2.5	2.8	3.1	3.5	3.8	4.2
62.5°	0.0	0.4	0.7	1.4	2.1	2.6	3.0	3.4	3.7	4.1	4.8
60°	0.0	0.4	0.8	1.6	2.4	2.8	3.2	3.6	4.0	4.7	5.4
57.5°	0.0	0.4	0.9	1.8	2.5	2.9	3.4	3.8	4.4	5.2	5.8
55°	0.0	0.5	1.0	1.9	2.6	3.1	3.5	4.0	4.8	5.7	6.1
52.5°	0.0	0.5	1.1	2.1	2.7	3.2	3.7	4.4	5.3	5.9	6.4
50°	0.0	0.5	1.3	2.3	2.9	3.4	3.9	4.7	5.7	6.2	6.4
47.5°	0.0	0.5	1.4	2.4	3.0	3.5	4.0	5.1	5.9	6.4	6.4
45°	0.0	0.6	1.5	2.5	3.1	3.6	4.3	5.5	6.1	6.4	6.4
42.5°	0.0	0.6	1.6	2.6	3.2	3.7	4.6	5.7	6.3	6.4	6.6
40°	0.0	0.6	1.7	2.6	3.2	3.9	4.9	5.9	6.4	6.4	6.8
37.5°	0.0	0.6	1.7	2.7	3.3	4.0	5.2	6.0	6.4	6.5	7.1
35°	0.0	0.7	1.8	2.8	3.4	4.1	5.4	6.2	6.4	6.6	7.3
32.5°	0.0	0.7	1.9	2.8	3.5	4.3	5.6	6.3	6.4	6.8	7.5
30°	0.0	0.7	2.0	2.9	3.6	4.5	5.7	6.4	6.4	7.0	7.7
27.5°	0.0	0.7	2.0	2.9	3.6	4.7	5.8	6.4	6.5	7.1	7.8
25°	0.0	0.7	2.1	3.0	3.7	4.8	5.9	6.4	6.6	7.3	8.0
22.5°	0.0	0.7	2.2	3.0	3.8	5.0	6.0	6.4	6.7	7.4	8.2
20°	0.0	0.8	2.2	3.1	3.8	5.1	6.1	6.4	6.8	7.5	8.3
17.5°	0.0	0.8	2.3	3.1	3.9	5.2	6.2	6.4	6.9	7.6	8.4
15°	0.0	0.8	2.3	3.1	3.9	5.3	6.2	6.4	7.0	7.7	8.5
12.5°	0.0	0.8	2.3	3.1	3.9	5.4	6.3	6.4	7.0	7.8	8.6
10°	0.0	0.8	2.4	3.2	4.0	5.5	6.3	6.4	7.1	7.9	8.7
7.5°	0.0	0.8	2.4	3.2	4.0	5.5	6.4	6.4	7.1	7.9	8.7
5°	0.0	0.8	2.4	3.2	4.0	5.6	6.4	6.4	7.2	8.0	8.8
2.5°	0.0	0.8	2.4	3.2	4.0	5.6	6.4	6.4	7.2	8.0	8.8
0°	0.0	0.8	2.4	3.2	4.0	5.6	6.4	6.4	7.2	8.0	8.8
-2.5°	0.0	0.8	2.4	3.2	4.0	5.6	6.4	6.4	7.2	8.0	8.8
-5°	0.0	0.8	2.4	3.2	4.0	5.6	6.4	6.4	7.2	8.0	8.8
-7.5°	0.0	0.8	2.4	3.2	4.0	5.5	6.4	6.4	7.1	7.9	8.7
-10°	0.0	0.8	2.4	3.2	4.0	5.5	6.3	6.4	7.1	7.9	8.7
-12.5°	0.0	0.8	2.3	3.1	3.9	5.4	6.3	6.4	7.0	7.8	8.6
-15°	0.0	0.8	2.3	3.1	3.9	5.3	6.2	6.4	7.0	7.7	8.5
-17.5°	0.0	0.8	2.3	3.1	3.9	5.2	6.2	6.4	6.9	7.6	8.4
-20°	0.0	0.8	2.2	3.1	3.8	5.1	6.1	6.4	6.8	7.5	8.3



REPORT NUMBER: P220330 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-W-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	2.2	3.0	3.8	5.0	6.0	6.4	6.7	7.4	8.2
-25°	0.0	0.7	2.1	3.0	3.7	4.8	5.9	6.4	6.6	7.3	8.0
-27.5°	0.0	0.7	2.0	2.9	3.6	4.7	5.8	6.4	6.5	7.1	7.8
-30°	0.0	0.7	2.0	2.9	3.6	4.5	5.7	6.4	6.4	7.0	7.7
-32.5°	0.0	0.7	1.9	2.8	3.5	4.3	5.6	6.3	6.4	6.8	7.5
-35°	0.0	0.7	1.8	2.8	3.4	4.1	5.4	6.2	6.4	6.6	7.3
-37.5°	0.0	0.6	1.7	2.7	3.3	4.0	5.2	6.0	6.4	6.5	7.1
-40°	0.0	0.6	1.7	2.6	3.2	3.9	4.9	5.9	6.4	6.4	6.8
-42.5°	0.0	0.6	1.6	2.6	3.2	3.7	4.6	5.7	6.3	6.4	6.6
-45°	0.0	0.6	1.5	2.5	3.1	3.6	4.3	5.5	6.1	6.4	6.4
-47.5°	0.0	0.5	1.4	2.4	3.0	3.5	4.0	5.1	5.9	6.4	6.4
-50°	0.0	0.5	1.3	2.3	2.9	3.4	3.9	4.7	5.7	6.2	6.4
-52.5°	0.0	0.5	1.1	2.1	2.7	3.2	3.7	4.4	5.3	5.9	6.4
-55°	0.0	0.5	1.0	1.9	2.6	3.1	3.5	4.0	4.8	5.7	6.1
-57.5°	0.0	0.4	0.9	1.8	2.5	2.9	3.4	3.8	4.4	5.2	5.8
-60°	0.0	0.4	0.8	1.6	2.4	2.8	3.2	3.6	4.0	4.7	5.4
-62.5°	0.0	0.4	0.7	1.4	2.1	2.6	3.0	3.4	3.7	4.1	4.8
-65°	0.0	0.3	0.7	1.2	1.9	2.5	2.8	3.1	3.5	3.8	4.2
-67.5°	0.0	0.3	0.6	1.0	1.6	2.2	2.6	2.9	3.2	3.5	3.8
-70°	0.0	0.3	0.5	0.8	1.4	1.9	2.4	2.7	2.9	3.2	3.5
-72.5°	0.0	0.2	0.5	0.7	1.1	1.6	2.1	2.5	2.7	2.9	3.1
-75°	0.0	0.2	0.4	0.6	0.8	1.3	1.7	2.1	2.4	2.6	2.8
-77.5°	0.0	0.2	0.3	0.5	0.7	0.9	1.3	1.6	1.9	2.2	2.5
-80°	0.0	0.1	0.3	0.4	0.6	0.7	0.8	1.1	1.4	1.6	1.9
-82.5°	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	1.0	1.2
-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: P220330 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-W-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	0.9	1.0	1.1	1.3	1.4	1.5	1.6	1.7	1.7
82.5°	1.4	1.6	1.8	1.9	2.1	2.3	2.4	2.5	2.6	2.6	2.7
80°	2.1	2.4	2.5	2.6	2.7	2.9	3.0	3.1	3.2	3.2	3.3
77.5°	2.6	2.8	2.9	3.1	3.2	3.4	3.5	3.6	3.7	3.9	4.0
75°	3.0	3.2	3.4	3.5	3.7	3.9	4.0	4.3	4.6	4.9	5.2
72.5°	3.4	3.6	3.8	4.0	4.4	4.7	5.1	5.5	5.7	5.9	6.0
70°	3.7	4.0	4.4	4.8	5.3	5.7	5.9	6.1	6.3	6.4	6.4
67.5°	4.1	4.7	5.2	5.7	5.9	6.2	6.4	6.4	6.4	6.4	6.5
65°	4.8	5.4	5.8	6.1	6.4	6.4	6.4	6.4	6.6	6.8	7.1
62.5°	5.5	5.9	6.2	6.4	6.4	6.4	6.6	6.9	7.2	7.4	7.7
60°	5.9	6.2	6.4	6.4	6.5	6.8	7.1	7.4	7.7	8.0	8.3
57.5°	6.2	6.4	6.4	6.5	6.9	7.3	7.6	7.9	8.3	8.6	8.8
55°	6.4	6.4	6.5	6.9	7.3	7.7	8.1	8.5	8.8	8.8	8.8
52.5°	6.4	6.5	6.9	7.3	7.8	8.2	8.6	8.8	8.8	8.9	9.2
50°	6.4	6.8	7.3	7.7	8.2	8.6	8.8	8.8	9.1	9.4	9.8
47.5°	6.6	7.1	7.6	8.1	8.6	8.8	8.8	9.1	9.6	10.0	10.4
45°	6.9	7.4	7.9	8.5	8.8	8.8	9.1	9.6	10.1	10.5	10.9
42.5°	7.2	7.7	8.3	8.8	8.8	9.1	9.6	10.1	10.5	11.0	11.5
40°	7.4	8.0	8.6	8.8	8.9	9.4	10.0	10.5	11.0	11.5	12.0
37.5°	7.7	8.3	8.8	8.8	9.2	9.8	10.4	10.9	11.5	12.0	19.8
35°	7.9	8.5	8.8	9.0	9.6	10.2	10.8	11.3	11.9	19.1	31.1
32.5°	8.1	8.8	8.8	9.3	9.9	10.5	11.1	11.7	16.9	27.7	48.0
30°	8.3	8.8	8.9	9.5	10.2	10.8	11.5	13.3	23.2	42.9	65.6
27.5°	8.5	8.8	9.1	9.8	10.5	11.1	11.8	18.9	34.6	57.8	83.1
25°	8.7	8.8	9.3	10.0	10.7	11.4	13.3	24.2	47.2	73.1	98.5
22.5°	8.8	8.8	9.5	10.2	11.0	11.7	17.8	34.0	59.5	87.3	112.7
20°	8.8	9.0	9.7	10.4	11.2	11.9	21.8	43.9	71.6	99.4	127.1
17.5°	8.8	9.1	9.9	10.6	11.4	13.6	26.2	52.7	82.5	110.2	140.7
15°	8.8	9.2	10.0	10.8	11.5	16.5	33.4	61.4	91.7	120.3	152.9
12.5°	8.8	9.4	10.1	10.9	11.7	19.1	39.6	69.0	99.3	130.0	166.5
10°	8.8	9.4	10.2	11.0	11.8	21.2	44.6	75.3	105.7	138.0	177.7
7.5°	8.8	9.5	10.3	11.1	11.9	22.8	48.6	80.3	110.6	144.3	186.6
5°	8.8	9.6	10.4	11.2	11.9	24.0	51.5	83.8	114.2	148.8	193.0
2.5°	8.8	9.6	10.4	11.2	12.0	24.7	53.2	86.0	116.4	151.6	196.9
0°	8.8	9.6	10.4	11.2	12.0	24.9	53.8	86.7	117.1	152.5	198.2
-2.5°	8.8	9.6	10.4	11.2	11.9	24.0	51.5	83.8	114.2	148.8	193.0
-5°	8.8	9.5	10.3	11.1	11.9	22.8	48.6	80.3	110.6	144.3	186.6
-7.5°	8.8	9.4	10.2	11.0	11.8	21.2	44.6	75.3	105.7	138.0	177.7
-10°	8.8	9.4	10.1	10.9	11.7	19.1	39.6	69.0	99.3	130.0	166.5
-12.5°	8.8	9.2	10.0	10.8	11.5	16.5	33.4	61.4	91.7	120.3	152.9
-15°	8.8	9.1	9.9	10.6	11.4	13.6	26.2	52.7	82.5	110.2	140.7
-17.5°	8.8	9.0	9.7	10.4	11.2	11.9	21.8	43.9	71.6	99.4	127.1
-20°	8.8	9.0	9.7	10.4	11.2	11.9	21.8	43.9	71.6	99.4	127.1



REPORT NUMBER: P220330 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-W-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°	8.8	8.8	9.5	10.2	11.0	11.7	17.8	34.0	59.5	87.3	112.7
-25°	8.7	8.8	9.3	10.0	10.7	11.4	13.3	24.2	47.2	73.1	98.5
-27.5°	8.5	8.8	9.1	9.8	10.5	11.1	11.8	18.9	34.6	57.8	83.1
-30°	8.3	8.8	8.9	9.5	10.2	10.8	11.5	13.3	23.2	42.9	65.6
-32.5°	8.1	8.8	8.8	9.3	9.9	10.5	11.1	11.7	16.9	27.7	48.0
-35°	7.9	8.5	8.8	9.0	9.6	10.2	10.8	11.3	11.9	19.1	31.1
-37.5°	7.7	8.3	8.8	8.8	9.2	9.8	10.4	10.9	11.5	12.0	19.8
-40°	7.4	8.0	8.6	8.8	8.9	9.4	10.0	10.5	11.0	11.5	12.0
-42.5°	7.2	7.7	8.3	8.8	8.8	9.1	9.6	10.1	10.5	11.0	11.5
-45°	6.9	7.4	7.9	8.5	8.8	8.8	9.1	9.6	10.1	10.5	10.9
-47.5°	6.6	7.1	7.6	8.1	8.6	8.8	8.8	9.1	9.6	10.0	10.4
-50°	6.4	6.8	7.3	7.7	8.2	8.6	8.8	8.8	9.1	9.4	9.8
-52.5°	6.4	6.5	6.9	7.3	7.8	8.2	8.6	8.8	8.8	8.9	9.2
-55°	6.4	6.4	6.5	6.9	7.3	7.7	8.1	8.5	8.8	8.8	8.8
-57.5°	6.2	6.4	6.4	6.5	6.9	7.3	7.6	7.9	8.3	8.6	8.8
-60°	5.9	6.2	6.4	6.4	6.5	6.8	7.1	7.4	7.7	8.0	8.3
-62.5°	5.5	5.9	6.2	6.4	6.4	6.4	6.6	6.9	7.2	7.4	7.7
-65°	4.8	5.4	5.8	6.1	6.4	6.4	6.4	6.4	6.6	6.8	7.1
-67.5°	4.1	4.7	5.2	5.7	5.9	6.2	6.4	6.4	6.4	6.4	6.5
-70°	3.7	4.0	4.4	4.8	5.3	5.7	5.9	6.1	6.3	6.4	6.4
-72.5°	3.4	3.6	3.8	4.0	4.4	4.7	5.1	5.5	5.7	5.9	6.0
-75°	3.0	3.2	3.4	3.5	3.7	3.9	4.0	4.3	4.6	4.9	5.2
-77.5°	2.6	2.8	2.9	3.1	3.2	3.4	3.5	3.6	3.7	3.9	4.0
-80°	2.1	2.4	2.5	2.6	2.7	2.9	3.0	3.1	3.2	3.2	3.3
-82.5°	1.4	1.6	1.8	1.9	2.1	2.3	2.4	2.5	2.6	2.6	2.7
-85°	0.7	0.8	0.9	1.0	1.1	1.3	1.4	1.5	1.6	1.7	1.7
-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: P220330 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-W-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°	1.8	1.9	2.0	2.0	2.1	2.2	2.2	2.3	2.3	2.3	2.4
82.5°	2.8	2.8	2.9	2.9	3.0	3.0	3.1	3.1	3.1	3.1	3.2
80°	3.4	3.5	3.6	3.6	3.7	3.8	3.8	3.9	3.9	3.9	4.0
77.5°	4.1	4.3	4.5	4.7	4.8	5.0	5.1	5.2	5.3	5.4	5.5
75°	5.4	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.2	6.3	6.3
72.5°	6.2	6.3	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
70°	6.4	6.4	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.0	7.1
67.5°	6.6	6.8	7.0	7.1	7.3	7.4	7.5	7.6	7.7	7.8	7.9
65°	7.3	7.5	7.7	7.8	8.0	8.2	8.3	8.4	8.5	8.6	8.7
62.5°	7.9	8.1	8.3	8.5	8.7	8.8	8.8	8.8	8.8	8.8	8.8
60°	8.5	8.8	8.8	8.8	8.8	8.8	9.0	9.1	9.2	9.4	9.4
57.5°	8.8	8.8	8.9	9.1	9.3	9.5	9.7	9.9	10.0	10.1	10.2
55°	9.0	9.3	9.5	9.8	10.0	10.2	10.4	10.6	10.8	10.9	11.0
52.5°	9.6	9.9	10.2	10.5	10.7	11.0	11.2	11.4	11.5	11.7	11.8
50°	10.2	10.5	10.8	11.1	11.4	11.7	11.9	13.6	16.5	19.1	21.2
47.5°	10.8	11.1	11.5	11.8	13.3	17.8	21.8	26.2	33.4	39.6	44.6
45°	11.3	11.7	13.3	18.9	24.2	34.0	43.9	52.7	61.4	69.0	75.3
42.5°	11.9	16.9	23.2	34.6	47.2	59.5	71.6	82.5	91.7	99.3	105.7
40°	19.1	27.7	42.9	57.8	73.1	87.3	99.4	110.2	120.3	130.0	138.0
37.5°	31.1	48.0	65.6	83.1	98.5	112.7	127.1	140.7	152.9	166.5	177.7
35°	49.7	69.6	89.0	106.2	123.3	140.9	158.6	177.6	194.6	211.2	225.6
32.5°	69.6	90.9	110.0	130.2	150.4	174.2	196.8	220.7	242.3	262.3	280.2
30°	89.0	110.0	132.5	156.0	183.8	211.9	240.5	268.6	295.2	319.1	341.2
27.5°	106.2	130.2	156.0	187.0	219.8	252.7	287.6	320.5	353.1	381.8	407.1
25°	123.3	150.4	183.8	219.8	257.4	297.2	337.5	376.7	413.9	450.0	475.8
22.5°	140.9	174.2	211.9	252.7	297.2	343.3	389.0	436.4	475.4	505.3	528.8
20°	158.6	196.8	240.5	287.6	337.5	389.0	443.9	487.5	522.3	551.5	576.7
17.5°	177.6	220.7	268.6	320.5	376.7	436.4	487.5	528.0	563.2	596.2	624.2
15°	194.6	242.3	295.2	353.1	413.9	475.4	522.3	563.2	603.0	638.6	673.3
12.5°	211.2	262.3	319.1	381.8	450.0	505.3	551.5	596.2	638.6	682.2	724.0
10°	225.6	280.2	341.2	407.1	475.8	528.8	576.7	624.2	673.3	724.0	769.4
7.5°	237.0	294.3	358.8	429.6	495.1	547.2	598.1	648.5	704.2	759.2	800.4
5°	245.2	304.6	371.5	446.0	507.9	560.5	613.5	668.1	728.2	782.5	822.1
2.5°	250.2	310.8	379.3	454.5	515.7	568.9	622.7	680.6	743.4	795.6	836.0
0°	251.9	312.9	381.9	457.4	518.3	571.7	625.8	684.9	748.6	800.0	840.9
-2.5°	250.2	310.8	379.3	454.5	515.7	568.9	622.7	680.6	743.4	795.6	836.0
-5°	245.2	304.6	371.5	446.0	507.9	560.5	613.5	668.1	728.2	782.5	822.1
-7.5°	237.0	294.3	358.8	429.6	495.1	547.2	598.1	648.5	704.2	759.2	800.4
-10°	225.6	280.2	341.2	407.1	475.8	528.8	576.7	624.2	673.3	724.0	769.4
-12.5°	211.2	262.3	319.1	381.8	450.0	505.3	551.5	596.2	638.6	682.2	724.0
-15°	194.6	242.3	295.2	353.1	413.9	475.4	522.3	563.2	603.0	638.6	673.3
-17.5°	177.6	220.7	268.6	320.5	376.7	436.4	487.5	528.0	563.2	596.2	624.2
-20°	158.6	196.8	240.5	287.6	337.5	389.0	443.9	487.5	522.3	551.5	576.7



REPORT NUMBER: P220330 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-W-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	140.9	174.2	211.9	252.7	297.2	343.3	389.0	436.4	475.4	505.3	528.8
-25°	123.3	150.4	183.8	219.8	257.4	297.2	337.5	376.7	413.9	450.0	475.8
-27.5°	106.2	130.2	156.0	187.0	219.8	252.7	287.6	320.5	353.1	381.8	407.1
-30°	89.0	110.0	132.5	156.0	183.8	211.9	240.5	268.6	295.2	319.1	341.2
-32.5°	69.6	90.9	110.0	130.2	150.4	174.2	196.8	220.7	242.3	262.3	280.2
-35°	49.7	69.6	89.0	106.2	123.3	140.9	158.6	177.6	194.6	211.2	225.6
-37.5°	31.1	48.0	65.6	83.1	98.5	112.7	127.1	140.7	152.9	166.5	177.7
-40°	19.1	27.7	42.9	57.8	73.1	87.3	99.4	110.2	120.3	130.0	138.0
-42.5°	11.9	16.9	23.2	34.6	47.2	59.5	71.6	82.5	91.7	99.3	105.7
-45°	11.3	11.7	13.3	18.9	24.2	34.0	43.9	52.7	61.4	69.0	75.3
-47.5°	10.8	11.1	11.5	11.8	13.3	17.8	21.8	26.2	33.4	39.6	44.6
-50°	10.2	10.5	10.8	11.1	11.4	11.7	11.9	13.6	16.5	19.1	21.2
-52.5°	9.6	9.9	10.2	10.5	10.7	11.0	11.2	11.4	11.5	11.7	11.8
-55°	9.0	9.3	9.5	9.8	10.0	10.2	10.4	10.6	10.8	10.9	11.0
-57.5°	8.8	8.8	8.9	9.1	9.3	9.5	9.7	9.9	10.0	10.1	10.2
-60°	8.5	8.8	8.8	8.8	8.8	8.8	9.0	9.1	9.2	9.4	9.4
-62.5°	7.9	8.1	8.3	8.5	8.7	8.8	8.8	8.8	8.8	8.8	8.8
-65°	7.3	7.5	7.7	7.8	8.0	8.2	8.3	8.4	8.5	8.6	8.7
-67.5°	6.6	6.8	7.0	7.1	7.3	7.4	7.5	7.6	7.7	7.8	7.9
-70°	6.4	6.4	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.0	7.1
-72.5°	6.2	6.3	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
-75°	5.4	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.2	6.3	6.3
-77.5°	4.1	4.3	4.5	4.7	4.8	5.0	5.1	5.2	5.3	5.4	5.5
-80°	3.4	3.5	3.6	3.6	3.7	3.8	3.8	3.9	3.9	3.9	4.0
-82.5°	2.8	2.8	2.9	2.9	3.0	3.0	3.1	3.1	3.1	3.1	3.2
-85°	1.8	1.9	2.0	2.0	2.1	2.2	2.2	2.3	2.3	2.3	2.4
-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: P220330 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-W-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°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.3
82.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.1	3.1	3.1
80°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.9
77.5°	5.5	5.6	5.6	5.6	5.6	5.6	5.5	5.5	5.4	5.3	5.2
75°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.3	6.3	6.2	6.2
72.5°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
70°	7.1	7.2	7.2	7.2	7.2	7.2	7.1	7.1	7.0	7.0	6.9
67.5°	7.9	8.0	8.0	8.0	8.0	8.0	7.9	7.9	7.8	7.7	7.6
65°	8.7	8.8	8.8	8.8	8.8	8.8	8.7	8.7	8.6	8.5	8.4
62.5°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
60°	9.5	9.6	9.6	9.6	9.6	9.6	9.5	9.4	9.4	9.2	9.1
57.5°	10.3	10.4	10.4	10.4	10.4	10.4	10.3	10.2	10.1	10.0	9.9
55°	11.1	11.2	11.2	11.2	11.2	11.2	11.1	11.0	10.9	10.8	10.6
52.5°	11.9	11.9	12.0	12.0	12.0	11.9	11.9	11.8	11.7	11.5	11.4
50°	22.8	24.0	24.7	24.9	24.7	24.0	22.8	21.2	19.1	16.5	13.6
47.5°	48.6	51.5	53.2	53.8	53.2	51.5	48.6	44.6	39.6	33.4	26.2
45°	80.3	83.8	86.0	86.7	86.0	83.8	80.3	75.3	69.0	61.4	52.7
42.5°	110.6	114.2	116.4	117.1	116.4	114.2	110.6	105.7	99.3	91.7	82.5
40°	144.3	148.8	151.6	152.5	151.6	148.8	144.3	138.0	130.0	120.3	110.2
37.5°	186.6	193.0	196.9	198.2	196.9	193.0	186.6	177.7	166.5	152.9	140.7
35°	237.0	245.2	250.2	251.9	250.2	245.2	237.0	225.6	211.2	194.6	177.6
32.5°	294.3	304.6	310.8	312.9	310.8	304.6	294.3	280.2	262.3	242.3	220.7
30°	358.8	371.5	379.3	381.9	379.3	371.5	358.8	341.2	319.1	295.2	268.6
27.5°	429.6	446.0	454.5	457.4	454.5	446.0	429.6	407.1	381.8	353.1	320.5
25°	495.1	507.9	515.7	518.3	515.7	507.9	495.1	475.8	450.0	413.9	376.7
22.5°	547.2	560.5	568.9	571.7	568.9	560.5	547.2	528.8	505.3	475.4	436.4
20°	598.1	613.5	622.7	625.8	622.7	613.5	598.1	576.7	551.5	522.3	487.5
17.5°	648.5	668.1	680.6	684.9	680.6	668.1	648.5	624.2	596.2	563.2	528.0
15°	704.2	728.2	743.4	748.6	743.4	728.2	704.2	673.3	638.6	603.0	563.2
12.5°	759.2	782.5	795.6	800.0	795.6	782.5	759.2	724.0	682.2	638.6	596.2
10°	800.4	822.1	836.0	840.9	836.0	822.1	800.4	769.4	724.0	673.3	624.2
7.5°	831.4	855.2	868.2	871.4	868.2	855.2	831.4	800.4	759.2	704.2	648.5
5°	855.2	874.9	875.7	873.8	875.7	874.9	855.2	822.1	782.5	728.2	668.1
2.5°	868.2	875.7	864.0	856.9	864.0	875.7	868.2	836.0	795.6	743.4	680.6
0°	871.4	873.8	856.9	854.5	856.9	873.8	871.4	840.9	800.0	748.6	684.9
-2.5°	868.2	875.7	864.0	856.9	864.0	875.7	868.2	836.0	795.6	743.4	680.6
-5°	855.2	874.9	875.7	873.8	875.7	874.9	855.2	822.1	782.5	728.2	668.1
-7.5°	831.4	855.2	868.2	871.4	868.2	855.2	831.4	800.4	759.2	704.2	648.5
-10°	800.4	822.1	836.0	840.9	836.0	822.1	800.4	769.4	724.0	673.3	624.2
-12.5°	759.2	782.5	795.6	800.0	795.6	782.5	759.2	724.0	682.2	638.6	596.2
-15°	704.2	728.2	743.4	748.6	743.4	728.2	704.2	673.3	638.6	603.0	563.2
-17.5°	648.5	668.1	680.6	684.9	680.6	668.1	648.5	624.2	596.2	563.2	528.0
-20°	598.1	613.5	622.7	625.8	622.7	613.5	598.1	576.7	551.5	522.3	487.5



REPORT NUMBER: P220330 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-W-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°	547.2	560.5	568.9	571.7	568.9	560.5	547.2	528.8	505.3	475.4	436.4
-25°	495.1	507.9	515.7	518.3	515.7	507.9	495.1	475.8	450.0	413.9	376.7
-27.5°	429.6	446.0	454.5	457.4	454.5	446.0	429.6	407.1	381.8	353.1	320.5
-30°	358.8	371.5	379.3	381.9	379.3	371.5	358.8	341.2	319.1	295.2	268.6
-32.5°	294.3	304.6	310.8	312.9	310.8	304.6	294.3	280.2	262.3	242.3	220.7
-35°	237.0	245.2	250.2	251.9	250.2	245.2	237.0	225.6	211.2	194.6	177.6
-37.5°	186.6	193.0	196.9	198.2	196.9	193.0	186.6	177.7	166.5	152.9	140.7
-40°	144.3	148.8	151.6	152.5	151.6	148.8	144.3	138.0	130.0	120.3	110.2
-42.5°	110.6	114.2	116.4	117.1	116.4	114.2	110.6	105.7	99.3	91.7	82.5
-45°	80.3	83.8	86.0	86.7	86.0	83.8	80.3	75.3	69.0	61.4	52.7
-47.5°	48.6	51.5	53.2	53.8	53.2	51.5	48.6	44.6	39.6	33.4	26.2
-50°	22.8	24.0	24.7	24.9	24.7	24.0	22.8	21.2	19.1	16.5	13.6
-52.5°	11.9	11.9	12.0	12.0	12.0	11.9	11.9	11.8	11.7	11.5	11.4
-55°	11.1	11.2	11.2	11.2	11.2	11.2	11.1	11.0	10.9	10.8	10.6
-57.5°	10.3	10.4	10.4	10.4	10.4	10.4	10.3	10.2	10.1	10.0	9.9
-60°	9.5	9.6	9.6	9.6	9.6	9.6	9.5	9.4	9.4	9.2	9.1
-62.5°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
-65°	8.7	8.8	8.8	8.8	8.8	8.8	8.7	8.7	8.6	8.5	8.4
-67.5°	7.9	8.0	8.0	8.0	8.0	8.0	7.9	7.9	7.8	7.7	7.6
-70°	7.1	7.2	7.2	7.2	7.2	7.2	7.1	7.1	7.0	7.0	6.9
-72.5°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
-75°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.3	6.3	6.2	6.2
-77.5°	5.5	5.6	5.6	5.6	5.6	5.6	5.5	5.5	5.4	5.3	5.2
-80°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.9
-82.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.1	3.1	3.1
-85°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.3
-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: P220330 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-W-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°	2.2	2.2	2.1	2.0	2.0	1.9	1.8	1.7	1.7	1.6	1.5
82.5°	3.1	3.0	3.0	2.9	2.9	2.8	2.8	2.7	2.6	2.6	2.5
80°	3.8	3.8	3.7	3.6	3.6	3.5	3.4	3.3	3.2	3.2	3.1
77.5°	5.1	5.0	4.8	4.7	4.5	4.3	4.1	4.0	3.9	3.7	3.6
75°	6.1	6.0	5.9	5.8	5.7	5.6	5.4	5.2	4.9	4.6	4.3
72.5°	6.4	6.4	6.4	6.4	6.4	6.3	6.2	6.0	5.9	5.7	5.5
70°	6.8	6.7	6.6	6.5	6.4	6.4	6.4	6.4	6.4	6.3	6.1
67.5°	7.5	7.4	7.3	7.1	7.0	6.8	6.6	6.5	6.4	6.4	6.4
65°	8.3	8.2	8.0	7.8	7.7	7.5	7.3	7.1	6.8	6.6	6.4
62.5°	8.8	8.8	8.7	8.5	8.3	8.1	7.9	7.7	7.4	7.2	6.9
60°	9.0	8.8	8.8	8.8	8.8	8.8	8.5	8.3	8.0	7.7	7.4
57.5°	9.7	9.5	9.3	9.1	8.9	8.8	8.8	8.8	8.6	8.3	7.9
55°	10.4	10.2	10.0	9.8	9.5	9.3	9.0	8.8	8.8	8.8	8.5
52.5°	11.2	11.0	10.7	10.5	10.2	9.9	9.6	9.2	8.9	8.8	8.8
50°	11.9	11.7	11.4	11.1	10.8	10.5	10.2	9.8	9.4	9.1	8.8
47.5°	21.8	17.8	13.3	11.8	11.5	11.1	10.8	10.4	10.0	9.6	9.1
45°	43.9	34.0	24.2	18.9	13.3	11.7	11.3	10.9	10.5	10.1	9.6
42.5°	71.6	59.5	47.2	34.6	23.2	16.9	11.9	11.5	11.0	10.5	10.1
40°	99.4	87.3	73.1	57.8	42.9	27.7	19.1	12.0	11.5	11.0	10.5
37.5°	127.1	112.7	98.5	83.1	65.6	48.0	31.1	19.8	12.0	11.5	10.9
35°	158.6	140.9	123.3	106.2	89.0	69.6	49.7	31.1	19.1	11.9	11.3
32.5°	196.8	174.2	150.4	130.2	110.0	90.9	69.6	48.0	27.7	16.9	11.7
30°	240.5	211.9	183.8	156.0	132.5	110.0	89.0	65.6	42.9	23.2	13.3
27.5°	287.6	252.7	219.8	187.0	156.0	130.2	106.2	83.1	57.8	34.6	18.9
25°	337.5	297.2	257.4	219.8	183.8	150.4	123.3	98.5	73.1	47.2	24.2
22.5°	389.0	343.3	297.2	252.7	211.9	174.2	140.9	112.7	87.3	59.5	34.0
20°	443.9	389.0	337.5	287.6	240.5	196.8	158.6	127.1	99.4	71.6	43.9
17.5°	487.5	436.4	376.7	320.5	268.6	220.7	177.6	140.7	110.2	82.5	52.7
15°	522.3	475.4	413.9	353.1	295.2	242.3	194.6	152.9	120.3	91.7	61.4
12.5°	551.5	505.3	450.0	381.8	319.1	262.3	211.2	166.5	130.0	99.3	69.0
10°	576.7	528.8	475.8	407.1	341.2	280.2	225.6	177.7	138.0	105.7	75.3
7.5°	598.1	547.2	495.1	429.6	358.8	294.3	237.0	186.6	144.3	110.6	80.3
5°	613.5	560.5	507.9	446.0	371.5	304.6	245.2	193.0	148.8	114.2	83.8
2.5°	622.7	568.9	515.7	454.5	379.3	310.8	250.2	196.9	151.6	116.4	86.0
0°	625.8	571.7	518.3	457.4	381.9	312.9	251.9	198.2	152.5	117.1	86.7
-2.5°	622.7	568.9	515.7	454.5	379.3	310.8	250.2	196.9	151.6	116.4	86.0
-5°	613.5	560.5	507.9	446.0	371.5	304.6	245.2	193.0	148.8	114.2	83.8
-7.5°	598.1	547.2	495.1	429.6	358.8	294.3	237.0	186.6	144.3	110.6	80.3
-10°	576.7	528.8	475.8	407.1	341.2	280.2	225.6	177.7	138.0	105.7	75.3
-12.5°	551.5	505.3	450.0	381.8	319.1	262.3	211.2	166.5	130.0	99.3	69.0
-15°	522.3	475.4	413.9	353.1	295.2	242.3	194.6	152.9	120.3	91.7	61.4
-17.5°	487.5	436.4	376.7	320.5	268.6	220.7	177.6	140.7	110.2	82.5	52.7
-20°	443.9	389.0	337.5	287.6	240.5	196.8	158.6	127.1	99.4	71.6	43.9



REPORT NUMBER: P220330 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-W-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	389.0	343.3	297.2	252.7	211.9	174.2	140.9	112.7	87.3	59.5	34.0
-25°	337.5	297.2	257.4	219.8	183.8	150.4	123.3	98.5	73.1	47.2	24.2
-27.5°	287.6	252.7	219.8	187.0	156.0	130.2	106.2	83.1	57.8	34.6	18.9
-30°	240.5	211.9	183.8	156.0	132.5	110.0	89.0	65.6	42.9	23.2	13.3
-32.5°	196.8	174.2	150.4	130.2	110.0	90.9	69.6	48.0	27.7	16.9	11.7
-35°	158.6	140.9	123.3	106.2	89.0	69.6	49.7	31.1	19.1	11.9	11.3
-37.5°	127.1	112.7	98.5	83.1	65.6	48.0	31.1	19.8	12.0	11.5	10.9
-40°	99.4	87.3	73.1	57.8	42.9	27.7	19.1	12.0	11.5	11.0	10.5
-42.5°	71.6	59.5	47.2	34.6	23.2	16.9	11.9	11.5	11.0	10.5	10.1
-45°	43.9	34.0	24.2	18.9	13.3	11.7	11.3	10.9	10.5	10.1	9.6
-47.5°	21.8	17.8	13.3	11.8	11.5	11.1	10.8	10.4	10.0	9.6	9.1
-50°	11.9	11.7	11.4	11.1	10.8	10.5	10.2	9.8	9.4	9.1	8.8
-52.5°	11.2	11.0	10.7	10.5	10.2	9.9	9.6	9.2	8.9	8.8	8.8
-55°	10.4	10.2	10.0	9.8	9.5	9.3	9.0	8.8	8.8	8.8	8.5
-57.5°	9.7	9.5	9.3	9.1	8.9	8.8	8.8	8.8	8.6	8.3	7.9
-60°	9.0	8.8	8.8	8.8	8.8	8.8	8.5	8.3	8.0	7.7	7.4
-62.5°	8.8	8.8	8.7	8.5	8.3	8.1	7.9	7.7	7.4	7.2	6.9
-65°	8.3	8.2	8.0	7.8	7.7	7.5	7.3	7.1	6.8	6.6	6.4
-67.5°	7.5	7.4	7.3	7.1	7.0	6.8	6.6	6.5	6.4	6.4	6.4
-70°	6.8	6.7	6.6	6.5	6.4	6.4	6.4	6.4	6.4	6.3	6.1
-72.5°	6.4	6.4	6.4	6.4	6.4	6.3	6.2	6.0	5.9	5.7	5.5
-75°	6.1	6.0	5.9	5.8	5.7	5.6	5.4	5.2	4.9	4.6	4.3
-77.5°	5.1	5.0	4.8	4.7	4.5	4.3	4.1	4.0	3.9	3.7	3.6
-80°	3.8	3.8	3.7	3.6	3.6	3.5	3.4	3.3	3.2	3.2	3.1
-82.5°	3.1	3.0	3.0	2.9	2.9	2.8	2.8	2.7	2.6	2.6	2.5
-85°	2.2	2.2	2.1	2.0	2.0	1.9	1.8	1.7	1.7	1.6	1.5
-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: P220330 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-W-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°	1.4	1.3	1.1	1.0	0.9	0.8	0.7	0.7	0.6	0.5	0.5
82.5°	2.4	2.3	2.1	1.9	1.8	1.6	1.4	1.2	1.0	0.8	0.7
80°	3.0	2.9	2.7	2.6	2.5	2.4	2.1	1.9	1.6	1.4	1.1
77.5°	3.5	3.4	3.2	3.1	2.9	2.8	2.6	2.5	2.2	1.9	1.6
75°	4.0	3.9	3.7	3.5	3.4	3.2	3.0	2.8	2.6	2.4	2.1
72.5°	5.1	4.7	4.4	4.0	3.8	3.6	3.4	3.1	2.9	2.7	2.5
70°	5.9	5.7	5.3	4.8	4.4	4.0	3.7	3.5	3.2	2.9	2.7
67.5°	6.4	6.2	5.9	5.7	5.2	4.7	4.1	3.8	3.5	3.2	2.9
65°	6.4	6.4	6.4	6.1	5.8	5.4	4.8	4.2	3.8	3.5	3.1
62.5°	6.6	6.4	6.4	6.4	6.2	5.9	5.5	4.8	4.1	3.7	3.4
60°	7.1	6.8	6.5	6.4	6.4	6.2	5.9	5.4	4.7	4.0	3.6
57.5°	7.6	7.3	6.9	6.5	6.4	6.4	6.2	5.8	5.2	4.4	3.8
55°	8.1	7.7	7.3	6.9	6.5	6.4	6.4	6.1	5.7	4.8	4.0
52.5°	8.6	8.2	7.8	7.3	6.9	6.5	6.4	6.4	5.9	5.3	4.4
50°	8.8	8.6	8.2	7.7	7.3	6.8	6.4	6.4	6.2	5.7	4.7
47.5°	8.8	8.8	8.6	8.1	7.6	7.1	6.6	6.4	6.4	5.9	5.1
45°	9.1	8.8	8.8	8.5	7.9	7.4	6.9	6.4	6.4	6.1	5.5
42.5°	9.6	9.1	8.8	8.8	8.3	7.7	7.2	6.6	6.4	6.3	5.7
40°	10.0	9.4	8.9	8.8	8.6	8.0	7.4	6.8	6.4	6.4	5.9
37.5°	10.4	9.8	9.2	8.8	8.8	8.3	7.7	7.1	6.5	6.4	6.0
35°	10.8	10.2	9.6	9.0	8.8	8.5	7.9	7.3	6.6	6.4	6.2
32.5°	11.1	10.5	9.9	9.3	8.8	8.8	8.1	7.5	6.8	6.4	6.3
30°	11.5	10.8	10.2	9.5	8.9	8.8	8.3	7.7	7.0	6.4	6.4
27.5°	11.8	11.1	10.5	9.8	9.1	8.8	8.5	7.8	7.1	6.5	6.4
25°	13.3	11.4	10.7	10.0	9.3	8.8	8.7	8.0	7.3	6.6	6.4
22.5°	17.8	11.7	11.0	10.2	9.5	8.8	8.8	8.2	7.4	6.7	6.4
20°	21.8	11.9	11.2	10.4	9.7	9.0	8.8	8.3	7.5	6.8	6.4
17.5°	26.2	13.6	11.4	10.6	9.9	9.1	8.8	8.4	7.6	6.9	6.4
15°	33.4	16.5	11.5	10.8	10.0	9.2	8.8	8.5	7.7	7.0	6.4
12.5°	39.6	19.1	11.7	10.9	10.1	9.4	8.8	8.6	7.8	7.0	6.4
10°	44.6	21.2	11.8	11.0	10.2	9.4	8.8	8.7	7.9	7.1	6.4
7.5°	48.6	22.8	11.9	11.1	10.3	9.5	8.8	8.7	7.9	7.1	6.4
5°	51.5	24.0	11.9	11.2	10.4	9.6	8.8	8.8	8.0	7.2	6.4
2.5°	53.2	24.7	12.0	11.2	10.4	9.6	8.8	8.8	8.0	7.2	6.4
0°	53.8	24.9	12.0	11.2	10.4	9.6	8.8	8.8	8.0	7.2	6.4
-2.5°	53.2	24.7	12.0	11.2	10.4	9.6	8.8	8.8	8.0	7.2	6.4
-5°	51.5	24.0	11.9	11.2	10.4	9.6	8.8	8.8	8.0	7.2	6.4
-7.5°	48.6	22.8	11.9	11.1	10.3	9.5	8.8	8.7	7.9	7.1	6.4
-10°	44.6	21.2	11.8	11.0	10.2	9.4	8.8	8.7	7.9	7.1	6.4
-12.5°	39.6	19.1	11.7	10.9	10.1	9.4	8.8	8.6	7.8	7.0	6.4
-15°	33.4	16.5	11.5	10.8	10.0	9.2	8.8	8.5	7.7	7.0	6.4
-17.5°	26.2	13.6	11.4	10.6	9.9	9.1	8.8	8.4	7.6	6.9	6.4
-20°	21.8	11.9	11.2	10.4	9.7	9.0	8.8	8.3	7.5	6.8	6.4



REPORT NUMBER: P220330 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-W-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°	17.8	11.7	11.0	10.2	9.5	8.8	8.8	8.2	7.4	6.7	6.4
-25°	13.3	11.4	10.7	10.0	9.3	8.8	8.7	8.0	7.3	6.6	6.4
-27.5°	11.8	11.1	10.5	9.8	9.1	8.8	8.5	7.8	7.1	6.5	6.4
-30°	11.5	10.8	10.2	9.5	8.9	8.8	8.3	7.7	7.0	6.4	6.4
-32.5°	11.1	10.5	9.9	9.3	8.8	8.8	8.1	7.5	6.8	6.4	6.3
-35°	10.8	10.2	9.6	9.0	8.8	8.5	7.9	7.3	6.6	6.4	6.2
-37.5°	10.4	9.8	9.2	8.8	8.8	8.3	7.7	7.1	6.5	6.4	6.0
-40°	10.0	9.4	8.9	8.8	8.6	8.0	7.4	6.8	6.4	6.4	5.9
-42.5°	9.6	9.1	8.8	8.8	8.3	7.7	7.2	6.6	6.4	6.3	5.7
-45°	9.1	8.8	8.8	8.5	7.9	7.4	6.9	6.4	6.4	6.1	5.5
-47.5°	8.8	8.8	8.6	8.1	7.6	7.1	6.6	6.4	6.4	5.9	5.1
-50°	8.8	8.6	8.2	7.7	7.3	6.8	6.4	6.4	6.2	5.7	4.7
-52.5°	8.6	8.2	7.8	7.3	6.9	6.5	6.4	6.4	5.9	5.3	4.4
-55°	8.1	7.7	7.3	6.9	6.5	6.4	6.4	6.1	5.7	4.8	4.0
-57.5°	7.6	7.3	6.9	6.5	6.4	6.4	6.2	5.8	5.2	4.4	3.8
-60°	7.1	6.8	6.5	6.4	6.4	6.2	5.9	5.4	4.7	4.0	3.6
-62.5°	6.6	6.4	6.4	6.4	6.2	5.9	5.5	4.8	4.1	3.7	3.4
-65°	6.4	6.4	6.4	6.1	5.8	5.4	4.8	4.2	3.8	3.5	3.1
-67.5°	6.4	6.2	5.9	5.7	5.2	4.7	4.1	3.8	3.5	3.2	2.9
-70°	5.9	5.7	5.3	4.8	4.4	4.0	3.7	3.5	3.2	2.9	2.7
-72.5°	5.1	4.7	4.4	4.0	3.8	3.6	3.4	3.1	2.9	2.7	2.5
-75°	4.0	3.9	3.7	3.5	3.4	3.2	3.0	2.8	2.6	2.4	2.1
-77.5°	3.5	3.4	3.2	3.1	2.9	2.8	2.6	2.5	2.2	1.9	1.6
-80°	3.0	2.9	2.7	2.6	2.5	2.4	2.1	1.9	1.6	1.4	1.1
-82.5°	2.4	2.3	2.1	1.9	1.8	1.6	1.4	1.2	1.0	0.8	0.7
-85°	1.4	1.3	1.1	1.0	0.9	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: P220330 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-W-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°	1.3	0.9	0.7	0.5	0.3	0.2	0.0
75°	1.7	1.3	0.8	0.6	0.4	0.2	0.0
72.5°	2.1	1.6	1.1	0.7	0.5	0.2	0.0
70°	2.4	1.9	1.4	0.8	0.5	0.3	0.0
67.5°	2.6	2.2	1.6	1.0	0.6	0.3	0.0
65°	2.8	2.5	1.9	1.2	0.7	0.3	0.0
62.5°	3.0	2.6	2.1	1.4	0.7	0.4	0.0
60°	3.2	2.8	2.4	1.6	0.8	0.4	0.0
57.5°	3.4	2.9	2.5	1.8	0.9	0.4	0.0
55°	3.5	3.1	2.6	1.9	1.0	0.5	0.0
52.5°	3.7	3.2	2.7	2.1	1.1	0.5	0.0
50°	3.9	3.4	2.9	2.3	1.3	0.5	0.0
47.5°	4.0	3.5	3.0	2.4	1.4	0.5	0.0
45°	4.3	3.6	3.1	2.5	1.5	0.6	0.0
42.5°	4.6	3.7	3.2	2.6	1.6	0.6	0.0
40°	4.9	3.9	3.2	2.6	1.7	0.6	0.0
37.5°	5.2	4.0	3.3	2.7	1.7	0.6	0.0
35°	5.4	4.1	3.4	2.8	1.8	0.7	0.0
32.5°	5.6	4.3	3.5	2.8	1.9	0.7	0.0
30°	5.7	4.5	3.6	2.9	2.0	0.7	0.0
27.5°	5.8	4.7	3.6	2.9	2.0	0.7	0.0
25°	5.9	4.8	3.7	3.0	2.1	0.7	0.0
22.5°	6.0	5.0	3.8	3.0	2.2	0.7	0.0
20°	6.1	5.1	3.8	3.1	2.2	0.8	0.0
17.5°	6.2	5.2	3.9	3.1	2.3	0.8	0.0
15°	6.2	5.3	3.9	3.1	2.3	0.8	0.0
12.5°	6.3	5.4	3.9	3.1	2.3	0.8	0.0
10°	6.3	5.5	4.0	3.2	2.4	0.8	0.0
7.5°	6.4	5.5	4.0	3.2	2.4	0.8	0.0
5°	6.4	5.6	4.0	3.2	2.4	0.8	0.0
2.5°	6.4	5.6	4.0	3.2	2.4	0.8	0.0
0°	6.4	5.6	4.0	3.2	2.4	0.8	0.0
-2.5°	6.4	5.6	4.0	3.2	2.4	0.8	0.0
-5°	6.4	5.6	4.0	3.2	2.4	0.8	0.0
-7.5°	6.4	5.5	4.0	3.2	2.4	0.8	0.0
-10°	6.3	5.5	4.0	3.2	2.4	0.8	0.0
-12.5°	6.3	5.4	3.9	3.1	2.3	0.8	0.0
-15°	6.2	5.3	3.9	3.1	2.3	0.8	0.0
-17.5°	6.2	5.2	3.9	3.1	2.3	0.8	0.0
-20°	6.1	5.1	3.8	3.1	2.2	0.8	0.0



REPORT NUMBER: P220330 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-W-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	6.0	5.0	3.8	3.0	2.2	0.7	0.0
-25°	5.9	4.8	3.7	3.0	2.1	0.7	0.0
-27.5°	5.8	4.7	3.6	2.9	2.0	0.7	0.0
-30°	5.7	4.5	3.6	2.9	2.0	0.7	0.0
-32.5°	5.6	4.3	3.5	2.8	1.9	0.7	0.0
-35°	5.4	4.1	3.4	2.8	1.8	0.7	0.0
-37.5°	5.2	4.0	3.3	2.7	1.7	0.6	0.0
-40°	4.9	3.9	3.2	2.6	1.7	0.6	0.0
-42.5°	4.6	3.7	3.2	2.6	1.6	0.6	0.0
-45°	4.3	3.6	3.1	2.5	1.5	0.6	0.0
-47.5°	4.0	3.5	3.0	2.4	1.4	0.5	0.0
-50°	3.9	3.4	2.9	2.3	1.3	0.5	0.0
-52.5°	3.7	3.2	2.7	2.1	1.1	0.5	0.0
-55°	3.5	3.1	2.6	1.9	1.0	0.5	0.0
-57.5°	3.4	2.9	2.5	1.8	0.9	0.4	0.0
-60°	3.2	2.8	2.4	1.6	0.8	0.4	0.0
-62.5°	3.0	2.6	2.1	1.4	0.7	0.4	0.0
-65°	2.8	2.5	1.9	1.2	0.7	0.3	0.0
-67.5°	2.6	2.2	1.6	1.0	0.6	0.3	0.0
-70°	2.4	1.9	1.4	0.8	0.5	0.3	0.0
-72.5°	2.1	1.6	1.1	0.7	0.5	0.2	0.0
-75°	1.7	1.3	0.8	0.6	0.4	0.2	0.0
-77.5°	1.3	0.9	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)