

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: P220392 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220392 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29419)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 1002-[A1, P1, S1, SU1]-FL-LED4097-F-WT-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS,
FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

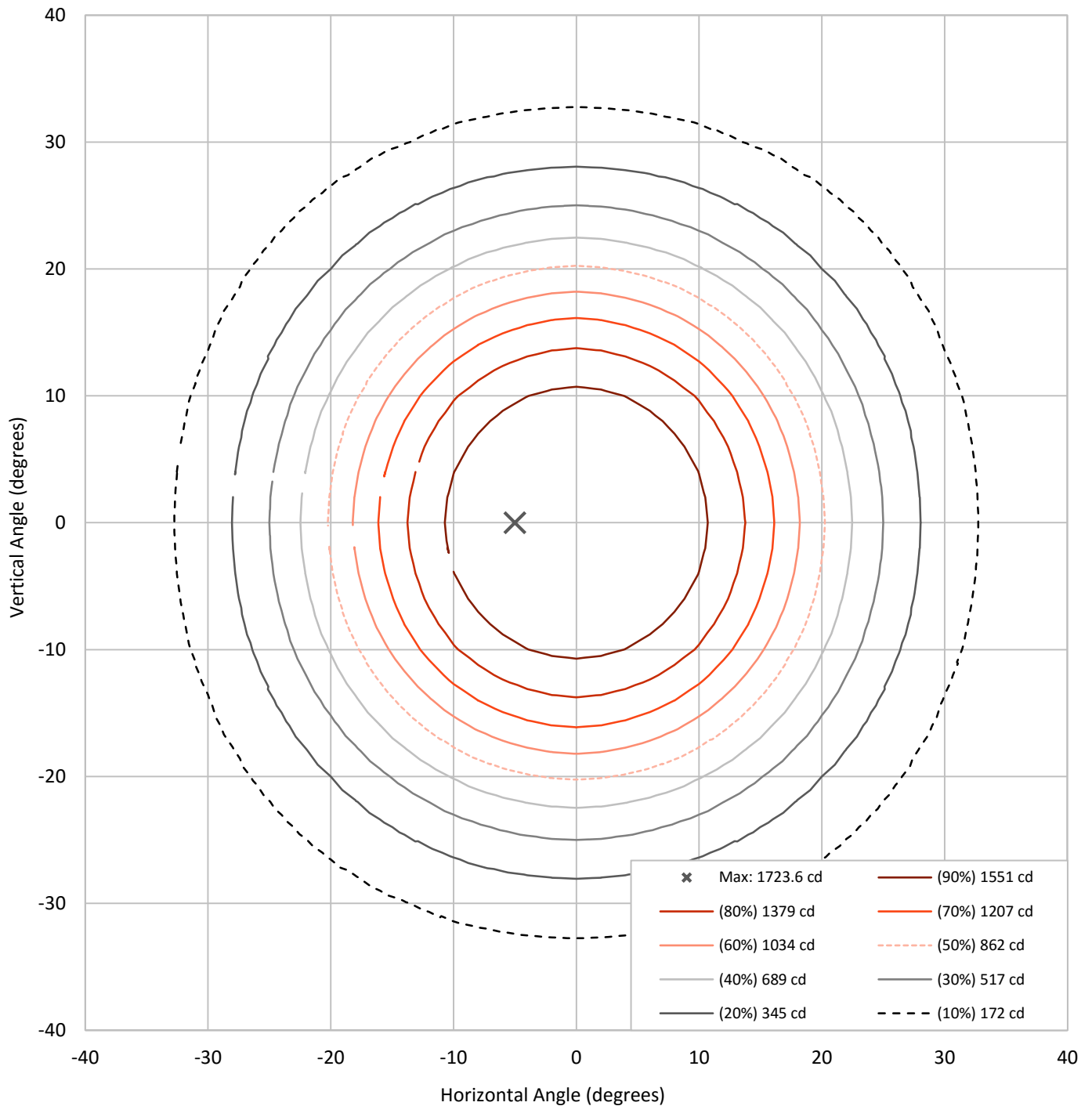
Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	861.1 lumens	Max Intensity:	1723.6 candela
Efficiency:	N/A	Max Intensity Angle:	-5°H x 0°V
Efficacy:	86.1 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	40.5°H x 39.3°V	Field Angle (10%):	65.2°H x 64.7°V
Beam Lumens:	518 lumens	Field Lumens:	779.9 lumens
Beam Efficiency:	60.2%	Field Efficiency:	90.6%
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: P220392 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Iso-Candela Plot





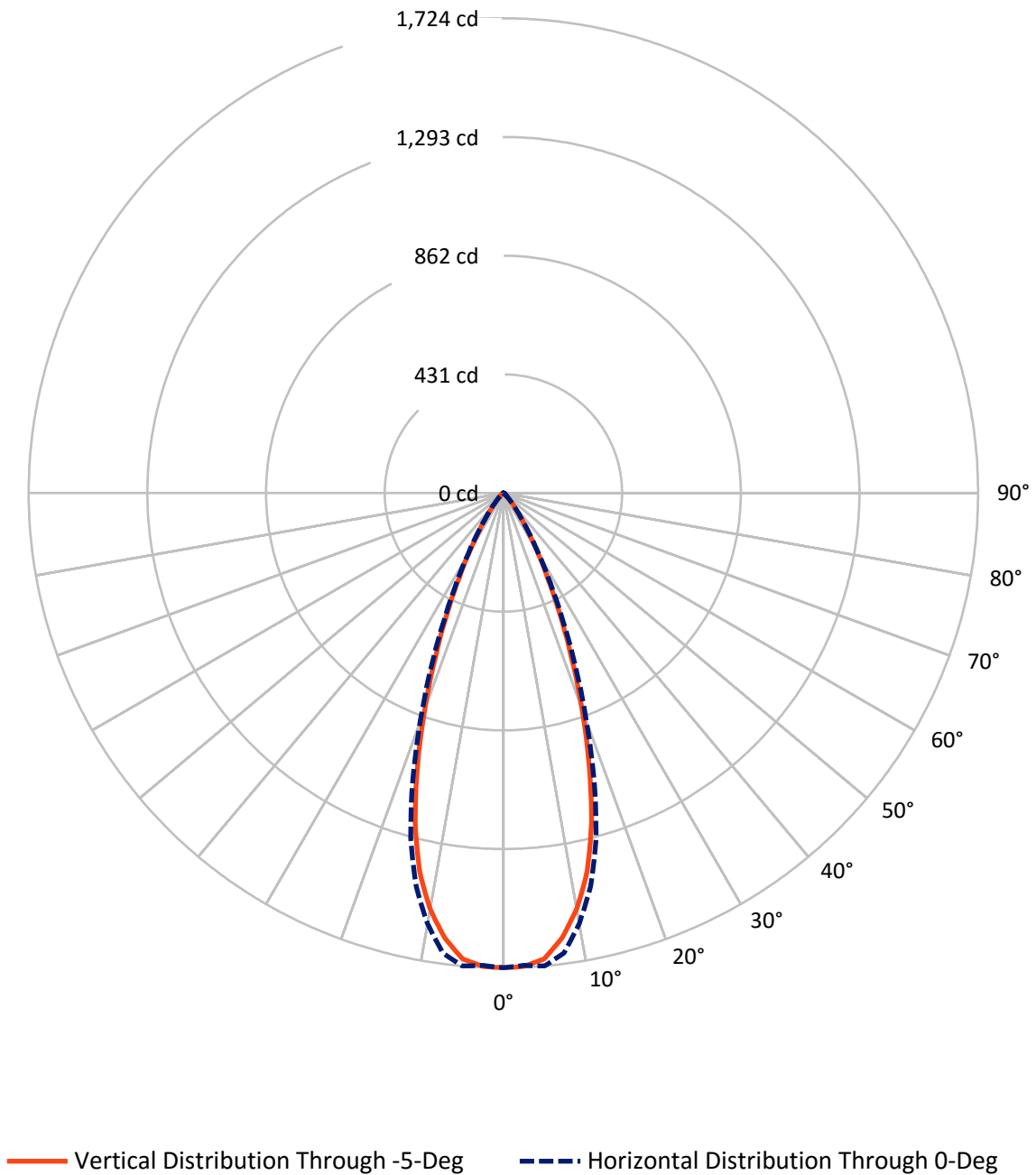
REPORT NUMBER: P220392 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-F-WT-L1-UNV

Lumen Table

90																			
80	0.0	0.0		0.1	0.2		0.2		0.2		0.1	0.0		0.0					
70																			
60	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0			
50		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				
40	0.0	0.0	0.1	0.1	0.2	0.3	0.6	0.8	0.8	0.6	0.3	0.2	0.1	0.1	0.0	0.0			
30		0.0	0.1	0.2	0.4	1.1	2.5	3.8	3.8	2.5	1.1	0.4	0.2	0.1	0.0				
20	0.0	0.1	0.1	0.3	1.0	3.7	9.4	15.0	15.0	9.4	3.7	1.0	0.3	0.1	0.1	0.0			
10		0.1	0.1	0.4	2.1	8.8	23.3	36.2	36.2	23.3	8.8	2.1	0.4	0.1	0.1				
0	0.0	0.1	0.1	0.5	3.1	13.7	35.2	49.8	49.8	35.2	13.7	3.1	0.5	0.1	0.1	0.0			
-10		0.1	0.1	0.5	3.1	13.7	35.2	49.8	49.8	35.2	13.7	3.1	0.5	0.1	0.1				
-20	0.0	0.1	0.1	0.4	2.1	8.8	23.3	36.2	36.2	23.3	8.8	2.1	0.4	0.1	0.1	0.0			
-30		0.1	0.1	0.3	1.0	3.7	9.4	15.0	15.0	9.4	3.7	1.0	0.3	0.1	0.1				
-40	0.0	0.0	0.1	0.2	0.4	1.1	2.5	3.8	3.8	2.5	1.1	0.4	0.2	0.1	0.0	0.0			
-50		0.0	0.1	0.1	0.2	0.3	0.6	0.8	0.8	0.6	0.3	0.2	0.1	0.1	0.0				
-60	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			
-70		0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0		0.0		
-80																			
-90	0.0	0.0		0.1	0.2		0.2		0.2		0.1	0.0		0.0					
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

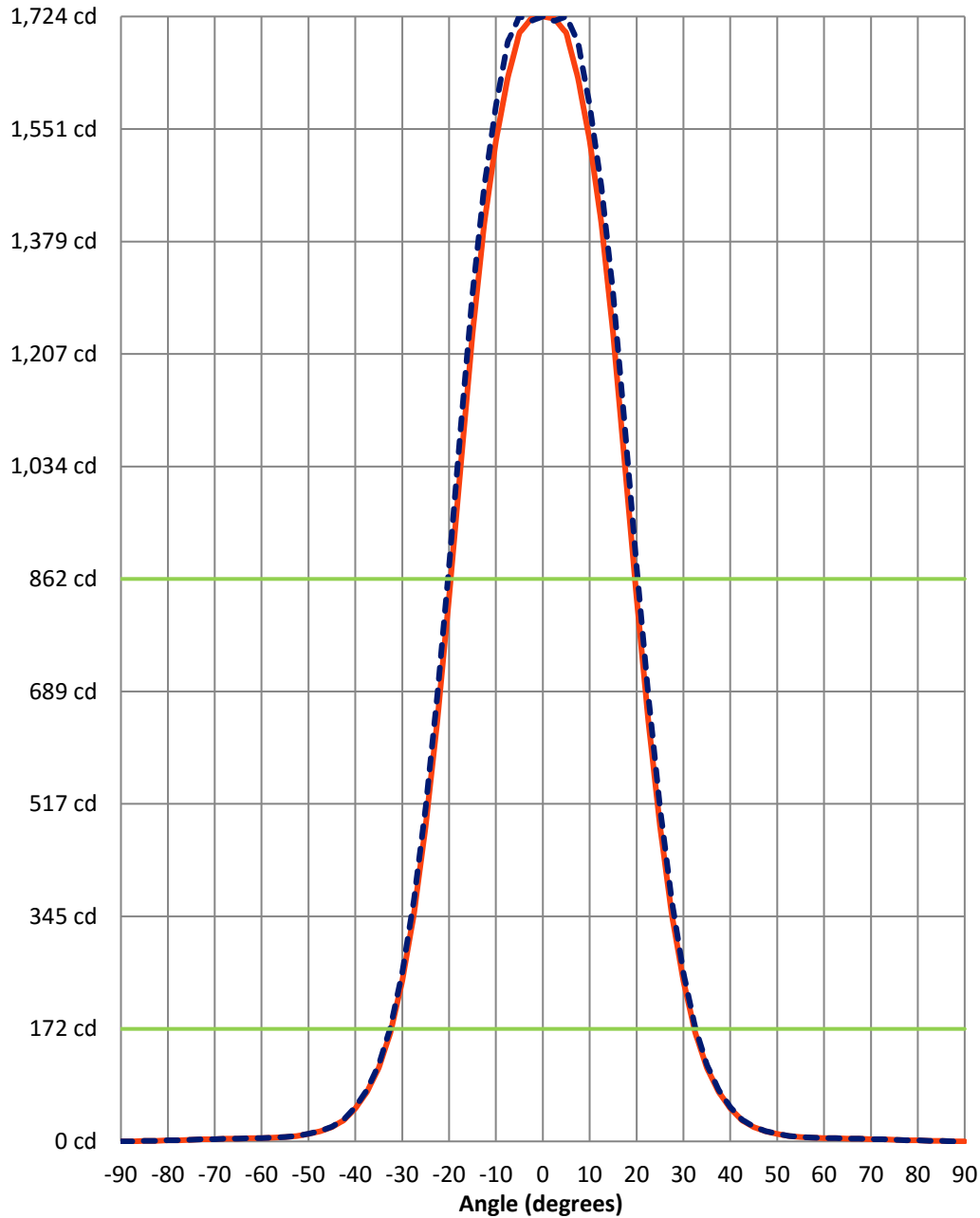
REPORT NUMBER: P220392 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-F-WT-L1-UNV

Luminous Intensity Polar Plot



REPORT NUMBER: P220392 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-F-WT-L1-UNV

Luminous Intensity Plot



Beam:
 H Angle: 40.5°
 V Angle: 39.3°
 Lumens: 518
 Efficiency: 60.2%

Field:
 H Angle: 65.2°
 V Angle: 64.7°
 Lumens: 779.9
 Efficiency: 90.6%

Spill:
 Lumens: 81.2
 Efficiency: 9.4%

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



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	1
77.5°	0	0	0	0	0	0	0	0	1	1	1
75°	0	0	0	0	0	0	0	1	1	1	1
72.5°	0	0	0	0	0	0	1	1	1	1	1
70°	0	0	0	0	0	1	1	1	1	1	1
67.5°	0	0	0	0	0	1	1	1	1	1	1
65°	0	0	0	0	1	1	1	1	1	1	2
62.5°	0	0	0	0	1	1	1	1	1	2	2
60°	0	0	0	0	1	1	1	1	2	2	2
57.5°	0	0	0	0	1	1	1	1	2	2	2
55°	0	0	0	1	1	1	1	2	2	2	2
52.5°	0	0	0	1	1	1	1	2	2	2	2
50°	0	0	0	1	1	1	2	2	2	2	3
47.5°	0	0	0	1	1	1	2	2	2	2	3
45°	0	0	0	1	1	1	2	2	2	3	3
42.5°	0	0	0	1	1	1	2	2	2	3	3
40°	0	0	0	1	1	2	2	2	3	3	3
37.5°	0	0	0	1	1	2	2	2	3	3	3
35°	0	0	1	1	1	2	2	2	3	3	3
32.5°	0	0	1	1	1	2	2	2	3	3	4
30°	0	0	1	1	1	2	2	3	3	3	4
27.5°	0	0	1	1	1	2	2	3	3	3	4
25°	0	0	1	1	1	2	2	3	3	3	4
22.5°	0	0	1	1	1	2	2	3	3	4	4
20°	0	0	1	1	1	2	2	3	3	4	4
17.5°	0	0	1	1	2	2	2	3	3	4	4
15°	0	0	1	1	2	2	2	3	3	4	4
12.5°	0	0	1	1	2	2	2	3	3	4	4
10°	0	0	1	1	2	2	2	3	3	4	4
7.5°	0	0	1	1	2	2	2	3	3	4	4
5°	0	0	1	1	2	2	2	3	3	4	4
2.5°	0	0	1	1	2	2	2	3	3	4	4
0°	0	0	1	1	2	2	3	3	4	4	4
-2.5°	0	0	1	1	2	2	2	3	3	4	4
-5°	0	0	1	1	2	2	2	3	3	4	4
-7.5°	0	0	1	1	2	2	2	3	3	4	4
-10°	0	0	1	1	2	2	2	3	3	4	4
-12.5°	0	0	1	1	2	2	2	3	3	4	4
-15°	0	0	1	1	2	2	2	3	3	4	4
-17.5°	0	0	1	1	2	2	2	3	3	4	4
-20°	0	0	1	1	1	2	2	3	3	4	4



REPORT NUMBER: P220392 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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	1	1	1	2	2	3	3	4	4
-25°	0	0	1	1	1	2	2	3	3	3	4
-27.5°	0	0	1	1	1	2	2	3	3	3	4
-30°	0	0	1	1	1	2	2	3	3	3	4
-32.5°	0	0	1	1	1	2	2	2	3	3	4
-35°	0	0	1	1	1	2	2	2	3	3	3
-37.5°	0	0	0	1	1	2	2	2	3	3	3
-40°	0	0	0	1	1	2	2	2	3	3	3
-42.5°	0	0	0	1	1	1	2	2	2	3	3
-45°	0	0	0	1	1	1	2	2	2	3	3
-47.5°	0	0	0	1	1	1	2	2	2	2	3
-50°	0	0	0	1	1	1	2	2	2	2	3
-52.5°	0	0	0	1	1	1	1	2	2	2	2
-55°	0	0	0	1	1	1	1	2	2	2	2
-57.5°	0	0	0	0	1	1	1	1	2	2	2
-60°	0	0	0	0	1	1	1	1	2	2	2
-62.5°	0	0	0	0	1	1	1	1	1	2	2
-65°	0	0	0	0	1	1	1	1	1	1	2
-67.5°	0	0	0	0	0	1	1	1	1	1	1
-70°	0	0	0	0	0	1	1	1	1	1	1
-72.5°	0	0	0	0	0	0	1	1	1	1	1
-75°	0	0	0	0	0	0	0	1	1	1	1
-77.5°	0	0	0	0	0	0	0	0	1	1	1
-80°	0	0	0	0	0	0	0	0	0	0	1
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220392 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	1	1	1	1	1	1	1	1
80°	1	1	1	1	1	1	1	1	1	1	1
77.5°	1	1	1	1	1	1	1	1	1	2	2
75°	1	1	1	1	1	2	2	2	2	2	2
72.5°	1	1	1	2	2	2	2	2	2	2	2
70°	1	2	2	2	2	2	2	2	2	3	3
67.5°	2	2	2	2	2	2	2	3	3	3	3
65°	2	2	2	2	2	3	3	3	3	3	3
62.5°	2	2	2	3	3	3	3	3	3	4	4
60°	2	2	3	3	3	3	3	4	4	4	4
57.5°	2	3	3	3	3	3	4	4	4	4	4
55°	3	3	3	3	3	4	4	4	4	5	5
52.5°	3	3	3	3	4	4	4	4	5	5	5
50°	3	3	3	4	4	4	4	5	5	5	5
47.5°	3	3	4	4	4	4	5	5	5	5	6
45°	3	4	4	4	4	5	5	5	5	6	6
42.5°	3	4	4	4	5	5	5	5	6	6	7
40°	4	4	4	5	5	5	5	6	6	7	8
37.5°	4	4	4	5	5	5	6	6	7	8	10
35°	4	4	5	5	5	6	6	7	8	10	13
32.5°	4	4	5	5	5	6	7	8	10	12	15
30°	4	4	5	5	6	6	7	9	11	14	18
27.5°	4	5	5	5	6	7	8	10	13	17	22
25°	4	5	5	5	6	7	9	12	15	20	27
22.5°	4	5	5	6	6	8	10	13	17	23	32
20°	4	5	5	6	7	8	11	14	19	27	39
17.5°	5	5	5	6	7	9	12	16	22	31	46
15°	5	5	5	6	7	9	13	17	24	35	53
12.5°	5	5	6	6	8	10	14	19	27	40	61
10°	5	5	6	6	8	11	15	20	29	45	67
7.5°	5	5	6	7	8	11	15	21	31	48	72
5°	5	5	6	7	8	11	15	22	32	51	76
2.5°	5	5	6	7	8	12	16	22	33	52	78
0°	5	5	6	7	8	12	16	23	33	53	79
-2.5°	5	5	6	7	8	12	16	22	33	52	78
-5°	5	5	6	7	8	11	15	22	32	51	76
-7.5°	5	5	6	7	8	11	15	21	31	48	72
-10°	5	5	6	6	8	11	15	20	29	45	67
-12.5°	5	5	6	6	8	10	14	19	27	40	61
-15°	5	5	5	6	7	9	13	17	24	35	53
-17.5°	5	5	5	6	7	9	12	16	22	31	46
-20°	4	5	5	6	7	8	11	14	19	27	39



REPORT NUMBER: P220392 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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°	4	5	5	6	6	8	10	13	17	23	32
-25°	4	5	5	5	6	7	9	12	15	20	27
-27.5°	4	5	5	5	6	7	8	10	13	17	22
-30°	4	4	5	5	6	6	7	9	11	14	18
-32.5°	4	4	5	5	5	6	7	8	10	12	15
-35°	4	4	5	5	5	6	6	7	8	10	13
-37.5°	4	4	4	5	5	5	6	6	7	8	10
-40°	4	4	4	5	5	5	5	6	6	7	8
-42.5°	3	4	4	4	5	5	5	5	6	6	7
-45°	3	4	4	4	4	5	5	5	5	6	6
-47.5°	3	3	4	4	4	4	5	5	5	5	6
-50°	3	3	3	4	4	4	4	5	5	5	5
-52.5°	3	3	3	3	4	4	4	4	5	5	5
-55°	3	3	3	3	3	4	4	4	4	5	5
-57.5°	2	3	3	3	3	3	4	4	4	4	4
-60°	2	2	3	3	3	3	3	4	4	4	4
-62.5°	2	2	2	3	3	3	3	3	3	4	4
-65°	2	2	2	2	2	3	3	3	3	3	3
-67.5°	2	2	2	2	2	2	2	3	3	3	3
-70°	1	2	2	2	2	2	2	2	2	3	3
-72.5°	1	1	1	2	2	2	2	2	2	2	2
-75°	1	1	1	1	1	2	2	2	2	2	2
-77.5°	1	1	1	1	1	1	1	1	1	2	2
-80°	1	1	1	1	1	1	1	1	1	1	1
-82.5°	0	0	0	1	1	1	1	1	1	1	1
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220392 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	1	1	1	1	1	1	1	1	1	1	1
82.5°	1	1	1	1	1	1	1	1	1	1	1
80°	1	1	1	1	1	1	1	2	2	2	2
77.5°	2	2	2	2	2	2	2	2	2	2	2
75°	2	2	2	2	2	2	2	2	2	2	2
72.5°	2	2	3	3	3	3	3	3	3	3	3
70°	3	3	3	3	3	3	3	3	3	3	3
67.5°	3	3	3	3	3	4	4	4	4	4	4
65°	3	4	4	4	4	4	4	4	4	4	4
62.5°	4	4	4	4	4	4	4	5	5	5	5
60°	4	4	4	5	5	5	5	5	5	5	5
57.5°	5	5	5	5	5	5	5	5	5	6	6
55°	5	5	5	5	5	6	6	6	6	6	6
52.5°	5	5	6	6	6	6	7	7	7	8	8
50°	6	6	6	7	7	8	8	9	9	10	11
47.5°	6	7	7	8	9	10	11	12	13	14	15
45°	7	8	9	10	12	13	14	16	17	19	20
42.5°	8	10	11	13	15	17	19	22	24	27	29
40°	10	12	14	17	20	23	27	31	35	40	45
37.5°	13	15	18	22	27	32	39	46	53	61	67
35°	15	19	23	29	37	46	56	67	77	88	99
32.5°	19	24	31	40	51	65	78	95	111	127	144
30°	23	31	42	55	71	89	109	133	158	182	209
27.5°	29	40	55	73	95	118	151	184	224	258	294
25°	37	51	71	95	123	160	205	252	303	356	406
22.5°	46	65	89	118	160	212	268	334	405	476	543
20°	56	78	109	151	205	268	345	432	524	615	701
17.5°	67	95	133	184	252	334	432	541	654	770	875
15°	77	111	158	224	303	405	524	654	793	930	1054
12.5°	88	127	182	258	356	476	615	770	930	1085	1225
10°	99	144	209	294	406	543	701	875	1054	1225	1364
7.5°	107	157	230	325	449	601	776	969	1160	1332	1464
5°	113	167	246	348	483	645	834	1036	1237	1406	1533
2.5°	116	173	255	364	504	674	869	1080	1283	1449	1573
0°	118	175	258	370	512	684	881	1095	1299	1462	1587
-2.5°	116	173	255	364	504	674	869	1080	1283	1449	1573
-5°	113	167	246	348	483	645	834	1036	1237	1406	1533
-7.5°	107	157	230	325	449	601	776	969	1160	1332	1464
-10°	99	144	209	294	406	543	701	875	1054	1225	1364
-12.5°	88	127	182	258	356	476	615	770	930	1085	1225
-15°	77	111	158	224	303	405	524	654	793	930	1054
-17.5°	67	95	133	184	252	334	432	541	654	770	875
-20°	56	78	109	151	205	268	345	432	524	615	701



REPORT NUMBER: P220392 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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°	46	65	89	118	160	212	268	334	405	476	543
-25°	37	51	71	95	123	160	205	252	303	356	406
-27.5°	29	40	55	73	95	118	151	184	224	258	294
-30°	23	31	42	55	71	89	109	133	158	182	209
-32.5°	19	24	31	40	51	65	78	95	111	127	144
-35°	15	19	23	29	37	46	56	67	77	88	99
-37.5°	13	15	18	22	27	32	39	46	53	61	67
-40°	10	12	14	17	20	23	27	31	35	40	45
-42.5°	8	10	11	13	15	17	19	22	24	27	29
-45°	7	8	9	10	12	13	14	16	17	19	20
-47.5°	6	7	7	8	9	10	11	12	13	14	15
-50°	6	6	6	7	7	8	8	9	9	10	11
-52.5°	5	5	6	6	6	6	7	7	7	8	8
-55°	5	5	5	5	5	6	6	6	6	6	6
-57.5°	5	5	5	5	5	5	5	5	5	6	6
-60°	4	4	4	5	5	5	5	5	5	5	5
-62.5°	4	4	4	4	4	4	4	5	5	5	5
-65°	3	4	4	4	4	4	4	4	4	4	4
-67.5°	3	3	3	3	3	4	4	4	4	4	4
-70°	3	3	3	3	3	3	3	3	3	3	3
-72.5°	2	2	3	3	3	3	3	3	3	3	3
-75°	2	2	2	2	2	2	2	2	2	2	2
-77.5°	2	2	2	2	2	2	2	2	2	2	2
-80°	1	1	1	1	1	1	1	2	2	2	2
-82.5°	1	1	1	1	1	1	1	1	1	1	1
-85°	1	1	1	1	1	1	1	1	1	1	1
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220392 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	1	1	1	1	1	1	1	1	1	1	1
82.5°	1	1	1	1	1	1	1	1	1	1	1
80°	2	2	2	2	2	2	2	2	2	2	2
77.5°	2	2	2	2	2	2	2	2	2	2	2
75°	2	2	2	3	2	2	2	2	2	2	2
72.5°	3	3	3	3	3	3	3	3	3	3	3
70°	3	3	3	3	3	3	3	3	3	3	3
67.5°	4	4	4	4	4	4	4	4	4	4	4
65°	4	4	4	4	4	4	4	4	4	4	4
62.5°	5	5	5	5	5	5	5	5	5	5	5
60°	5	5	5	5	5	5	5	5	5	5	5
57.5°	6	6	6	6	6	6	6	6	6	5	5
55°	7	7	7	7	7	7	7	6	6	6	6
52.5°	8	8	8	8	8	8	8	8	8	7	7
50°	11	11	12	12	12	11	11	11	10	9	9
47.5°	15	15	16	16	16	15	15	15	14	13	12
45°	21	22	22	23	22	22	21	20	19	17	16
42.5°	31	32	33	33	33	32	31	29	27	24	22
40°	48	51	52	53	52	51	48	45	40	35	31
37.5°	72	76	78	79	78	76	72	67	61	53	46
35°	107	113	116	118	116	113	107	99	88	77	67
32.5°	157	167	173	175	173	167	157	144	127	111	95
30°	230	246	255	258	255	246	230	209	182	158	133
27.5°	325	348	364	370	364	348	325	294	258	224	184
25°	449	483	504	512	504	483	449	406	356	303	252
22.5°	601	645	674	684	674	645	601	543	476	405	334
20°	776	834	869	881	869	834	776	701	615	524	432
17.5°	969	1036	1080	1095	1080	1036	969	875	770	654	541
15°	1160	1237	1283	1299	1283	1237	1160	1054	930	793	654
12.5°	1332	1406	1449	1462	1449	1406	1332	1225	1085	930	770
10°	1464	1533	1573	1587	1573	1533	1464	1364	1225	1054	875
7.5°	1560	1629	1671	1684	1671	1629	1560	1464	1332	1160	969
5°	1629	1698	1720	1724	1720	1698	1629	1533	1406	1237	1036
2.5°	1671	1720	1721	1717	1721	1720	1671	1573	1449	1283	1080
0°	1684	1724	1717	1724	1717	1724	1684	1587	1462	1299	1095
-2.5°	1671	1720	1721	1717	1721	1720	1671	1573	1449	1283	1080
-5°	1629	1698	1720	1724	1720	1698	1629	1533	1406	1237	1036
-7.5°	1560	1629	1671	1684	1671	1629	1560	1464	1332	1160	969
-10°	1464	1533	1573	1587	1573	1533	1464	1364	1225	1054	875
-12.5°	1332	1406	1449	1462	1449	1406	1332	1225	1085	930	770
-15°	1160	1237	1283	1299	1283	1237	1160	1054	930	793	654
-17.5°	969	1036	1080	1095	1080	1036	969	875	770	654	541
-20°	776	834	869	881	869	834	776	701	615	524	432



REPORT NUMBER: P220392 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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°	601	645	674	684	674	645	601	543	476	405	334
-25°	449	483	504	512	504	483	449	406	356	303	252
-27.5°	325	348	364	370	364	348	325	294	258	224	184
-30°	230	246	255	258	255	246	230	209	182	158	133
-32.5°	157	167	173	175	173	167	157	144	127	111	95
-35°	107	113	116	118	116	113	107	99	88	77	67
-37.5°	72	76	78	79	78	76	72	67	61	53	46
-40°	48	51	52	53	52	51	48	45	40	35	31
-42.5°	31	32	33	33	33	32	31	29	27	24	22
-45°	21	22	22	23	22	22	21	20	19	17	16
-47.5°	15	15	16	16	16	15	15	15	14	13	12
-50°	11	11	12	12	12	11	11	11	10	9	9
-52.5°	8	8	8	8	8	8	8	8	8	7	7
-55°	7	7	7	7	7	7	7	6	6	6	6
-57.5°	6	6	6	6	6	6	6	6	6	5	5
-60°	5	5	5	5	5	5	5	5	5	5	5
-62.5°	5	5	5	5	5	5	5	5	5	5	5
-65°	4	4	4	4	4	4	4	4	4	4	4
-67.5°	4	4	4	4	4	4	4	4	4	4	4
-70°	3	3	3	3	3	3	3	3	3	3	3
-72.5°	3	3	3	3	3	3	3	3	3	3	3
-75°	2	2	2	3	2	2	2	2	2	2	2
-77.5°	2	2	2	2	2	2	2	2	2	2	2
-80°	2	2	2	2	2	2	2	2	2	2	2
-82.5°	1	1	1	1	1	1	1	1	1	1	1
-85°	1	1	1	1	1	1	1	1	1	1	1
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220392 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	1	1	1	1	1	1	1	0	0	0	0
82.5°	1	1	1	1	1	1	1	1	1	1	1
80°	1	1	1	1	1	1	1	1	1	1	1
77.5°	2	2	2	2	2	2	2	2	2	1	1
75°	2	2	2	2	2	2	2	2	2	2	2
72.5°	3	3	3	3	3	2	2	2	2	2	2
70°	3	3	3	3	3	3	3	3	3	2	2
67.5°	4	4	3	3	3	3	3	3	3	3	3
65°	4	4	4	4	4	4	3	3	3	3	3
62.5°	4	4	4	4	4	4	4	4	4	3	3
60°	5	5	5	5	4	4	4	4	4	4	4
57.5°	5	5	5	5	5	5	5	4	4	4	4
55°	6	6	5	5	5	5	5	5	5	4	4
52.5°	7	6	6	6	6	5	5	5	5	5	4
50°	8	8	7	7	6	6	6	5	5	5	5
47.5°	11	10	9	8	7	7	6	6	5	5	5
45°	14	13	12	10	9	8	7	6	6	5	5
42.5°	19	17	15	13	11	10	8	7	6	6	5
40°	27	23	20	17	14	12	10	8	7	6	6
37.5°	39	32	27	22	18	15	13	10	8	7	6
35°	56	46	37	29	23	19	15	13	10	8	7
32.5°	78	65	51	40	31	24	19	15	12	10	8
30°	109	89	71	55	42	31	23	18	14	11	9
27.5°	151	118	95	73	55	40	29	22	17	13	10
25°	205	160	123	95	71	51	37	27	20	15	12
22.5°	268	212	160	118	89	65	46	32	23	17	13
20°	345	268	205	151	109	78	56	39	27	19	14
17.5°	432	334	252	184	133	95	67	46	31	22	16
15°	524	405	303	224	158	111	77	53	35	24	17
12.5°	615	476	356	258	182	127	88	61	40	27	19
10°	701	543	406	294	209	144	99	67	45	29	20
7.5°	776	601	449	325	230	157	107	72	48	31	21
5°	834	645	483	348	246	167	113	76	51	32	22
2.5°	869	674	504	364	255	173	116	78	52	33	22
0°	881	684	512	370	258	175	118	79	53	33	23
-2.5°	869	674	504	364	255	173	116	78	52	33	22
-5°	834	645	483	348	246	167	113	76	51	32	22
-7.5°	776	601	449	325	230	157	107	72	48	31	21
-10°	701	543	406	294	209	144	99	67	45	29	20
-12.5°	615	476	356	258	182	127	88	61	40	27	19
-15°	524	405	303	224	158	111	77	53	35	24	17
-17.5°	432	334	252	184	133	95	67	46	31	22	16
-20°	345	268	205	151	109	78	56	39	27	19	14



REPORT NUMBER: P220392 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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°	268	212	160	118	89	65	46	32	23	17	13
-25°	205	160	123	95	71	51	37	27	20	15	12
-27.5°	151	118	95	73	55	40	29	22	17	13	10
-30°	109	89	71	55	42	31	23	18	14	11	9
-32.5°	78	65	51	40	31	24	19	15	12	10	8
-35°	56	46	37	29	23	19	15	13	10	8	7
-37.5°	39	32	27	22	18	15	13	10	8	7	6
-40°	27	23	20	17	14	12	10	8	7	6	6
-42.5°	19	17	15	13	11	10	8	7	6	6	5
-45°	14	13	12	10	9	8	7	6	6	5	5
-47.5°	11	10	9	8	7	7	6	6	5	5	5
-50°	8	8	7	7	6	6	6	5	5	5	5
-52.5°	7	6	6	6	6	5	5	5	5	5	4
-55°	6	6	5	5	5	5	5	5	5	4	4
-57.5°	5	5	5	5	5	5	5	4	4	4	4
-60°	5	5	5	5	4	4	4	4	4	4	4
-62.5°	4	4	4	4	4	4	4	4	4	3	3
-65°	4	4	4	4	4	4	3	3	3	3	3
-67.5°	4	4	3	3	3	3	3	3	3	3	3
-70°	3	3	3	3	3	3	3	3	3	2	2
-72.5°	3	3	3	3	3	2	2	2	2	2	2
-75°	2	2	2	2	2	2	2	2	2	2	2
-77.5°	2	2	2	2	2	2	2	2	2	1	1
-80°	1	1	1	1	1	1	1	1	1	1	1
-82.5°	1	1	1	1	1	1	1	1	1	1	1
-85°	1	1	1	1	1	1	1	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220392 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	1	1	1	1	0	0	0	0	0	0	0
80°	1	1	1	1	1	1	1	1	0	0	0
77.5°	1	1	1	1	1	1	1	1	1	1	0
75°	2	2	1	1	1	1	1	1	1	1	1
72.5°	2	2	2	2	1	1	1	1	1	1	1
70°	2	2	2	2	2	2	1	1	1	1	1
67.5°	2	2	2	2	2	2	2	1	1	1	1
65°	3	3	2	2	2	2	2	2	1	1	1
62.5°	3	3	3	3	2	2	2	2	2	1	1
60°	3	3	3	3	3	2	2	2	2	2	1
57.5°	4	3	3	3	3	3	2	2	2	2	1
55°	4	4	3	3	3	3	3	2	2	2	2
52.5°	4	4	4	3	3	3	3	2	2	2	2
50°	4	4	4	4	3	3	3	3	2	2	2
47.5°	5	4	4	4	4	3	3	3	2	2	2
45°	5	5	4	4	4	4	3	3	3	2	2
42.5°	5	5	5	4	4	4	3	3	3	2	2
40°	5	5	5	5	4	4	4	3	3	3	2
37.5°	6	5	5	5	4	4	4	3	3	3	2
35°	6	6	5	5	5	4	4	3	3	3	2
32.5°	7	6	5	5	5	4	4	4	3	3	2
30°	7	6	6	5	5	4	4	4	3	3	3
27.5°	8	7	6	5	5	5	4	4	3	3	3
25°	9	7	6	5	5	5	4	4	3	3	3
22.5°	10	8	6	6	5	5	4	4	4	3	3
20°	11	8	7	6	5	5	4	4	4	3	3
17.5°	12	9	7	6	5	5	5	4	4	3	3
15°	13	9	7	6	5	5	5	4	4	3	3
12.5°	14	10	8	6	6	5	5	4	4	3	3
10°	15	11	8	6	6	5	5	4	4	3	3
7.5°	15	11	8	7	6	5	5	4	4	3	3
5°	15	11	8	7	6	5	5	4	4	3	3
2.5°	16	12	8	7	6	5	5	4	4	3	3
0°	16	12	8	7	6	5	5	4	4	3	3
-2.5°	16	12	8	7	6	5	5	4	4	3	3
-5°	15	11	8	7	6	5	5	4	4	3	3
-7.5°	15	11	8	7	6	5	5	4	4	3	3
-10°	15	11	8	6	6	5	5	4	4	3	3
-12.5°	14	10	8	6	6	5	5	4	4	3	3
-15°	13	9	7	6	5	5	5	4	4	3	3
-17.5°	12	9	7	6	5	5	5	4	4	3	3
-20°	11	8	7	6	5	5	4	4	4	3	3



REPORT NUMBER: P220392 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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°	10	8	6	6	5	5	4	4	4	3	3
-25°	9	7	6	5	5	5	4	4	3	3	3
-27.5°	8	7	6	5	5	5	4	4	3	3	3
-30°	7	6	6	5	5	4	4	4	3	3	3
-32.5°	7	6	5	5	5	4	4	4	3	3	2
-35°	6	6	5	5	5	4	4	3	3	3	2
-37.5°	6	5	5	5	4	4	4	3	3	3	2
-40°	5	5	5	5	4	4	4	3	3	3	2
-42.5°	5	5	5	4	4	4	3	3	3	2	2
-45°	5	5	4	4	4	4	3	3	3	2	2
-47.5°	5	4	4	4	4	3	3	3	2	2	2
-50°	4	4	4	4	3	3	3	3	2	2	2
-52.5°	4	4	4	3	3	3	3	2	2	2	2
-55°	4	4	3	3	3	3	3	2	2	2	2
-57.5°	4	3	3	3	3	3	2	2	2	2	1
-60°	3	3	3	3	3	2	2	2	2	2	1
-62.5°	3	3	3	3	2	2	2	2	2	1	1
-65°	3	3	2	2	2	2	2	2	1	1	1
-67.5°	2	2	2	2	2	2	2	1	1	1	1
-70°	2	2	2	2	2	2	1	1	1	1	1
-72.5°	2	2	2	2	1	1	1	1	1	1	1
-75°	2	2	1	1	1	1	1	1	1	1	1
-77.5°	1	1	1	1	1	1	1	1	1	1	0
-80°	1	1	1	1	1	1	1	1	0	0	0
-82.5°	1	1	1	1	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220392 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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
87.5°	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0
72.5°	1	0	0	0	0	0	0
70°	1	1	0	0	0	0	0
67.5°	1	1	0	0	0	0	0
65°	1	1	1	0	0	0	0
62.5°	1	1	1	0	0	0	0
60°	1	1	1	0	0	0	0
57.5°	1	1	1	0	0	0	0
55°	1	1	1	1	0	0	0
52.5°	1	1	1	1	0	0	0
50°	2	1	1	1	0	0	0
47.5°	2	1	1	1	0	0	0
45°	2	1	1	1	0	0	0
42.5°	2	1	1	1	0	0	0
40°	2	2	1	1	0	0	0
37.5°	2	2	1	1	0	0	0
35°	2	2	1	1	1	0	0
32.5°	2	2	1	1	1	0	0
30°	2	2	1	1	1	0	0
27.5°	2	2	1	1	1	0	0
25°	2	2	1	1	1	0	0
22.5°	2	2	1	1	1	0	0
20°	2	2	1	1	1	0	0
17.5°	2	2	2	1	1	0	0
15°	2	2	2	1	1	0	0
12.5°	2	2	2	1	1	0	0
10°	2	2	2	1	1	0	0
7.5°	2	2	2	1	1	0	0
5°	2	2	2	1	1	0	0
2.5°	2	2	2	1	1	0	0
0°	3	2	2	1	1	0	0
-2.5°	2	2	2	1	1	0	0
-5°	2	2	2	1	1	0	0
-7.5°	2	2	2	1	1	0	0
-10°	2	2	2	1	1	0	0
-12.5°	2	2	2	1	1	0	0
-15°	2	2	2	1	1	0	0
-17.5°	2	2	2	1	1	0	0
-20°	2	2	1	1	1	0	0



REPORT NUMBER: P220392 (CONVERTED FROM TYPE C PHOTOMETRY)

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

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	2	2	1	1	1	0	0
-25°	2	2	1	1	1	0	0
-27.5°	2	2	1	1	1	0	0
-30°	2	2	1	1	1	0	0
-32.5°	2	2	1	1	1	0	0
-35°	2	2	1	1	1	0	0
-37.5°	2	2	1	1	0	0	0
-40°	2	2	1	1	0	0	0
-42.5°	2	1	1	1	0	0	0
-45°	2	1	1	1	0	0	0
-47.5°	2	1	1	1	0	0	0
-50°	2	1	1	1	0	0	0
-52.5°	1	1	1	1	0	0	0
-55°	1	1	1	1	0	0	0
-57.5°	1	1	1	0	0	0	0
-60°	1	1	1	0	0	0	0
-62.5°	1	1	1	0	0	0	0
-65°	1	1	1	0	0	0	0
-67.5°	1	1	0	0	0	0	0
-70°	1	1	0	0	0	0	0
-72.5°	1	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)