

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: P220410 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1002-[A1, P1, S1, SU1]-FL-LED3090-M-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220410 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29422)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 1002-[A1, P1, S1, SU1]-FL-LED3090-M-BK-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS,
MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3000K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	789 lumens	Max Intensity:	4428.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	78.9 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	23°H x 23°V	Field Angle (10%):	38.1°H x 38.1°V
Beam Lumens:	411.9 lumens	Field Lumens:	632.5 lumens
Beam Efficiency:	52.2%	Field Efficiency:	80.2%

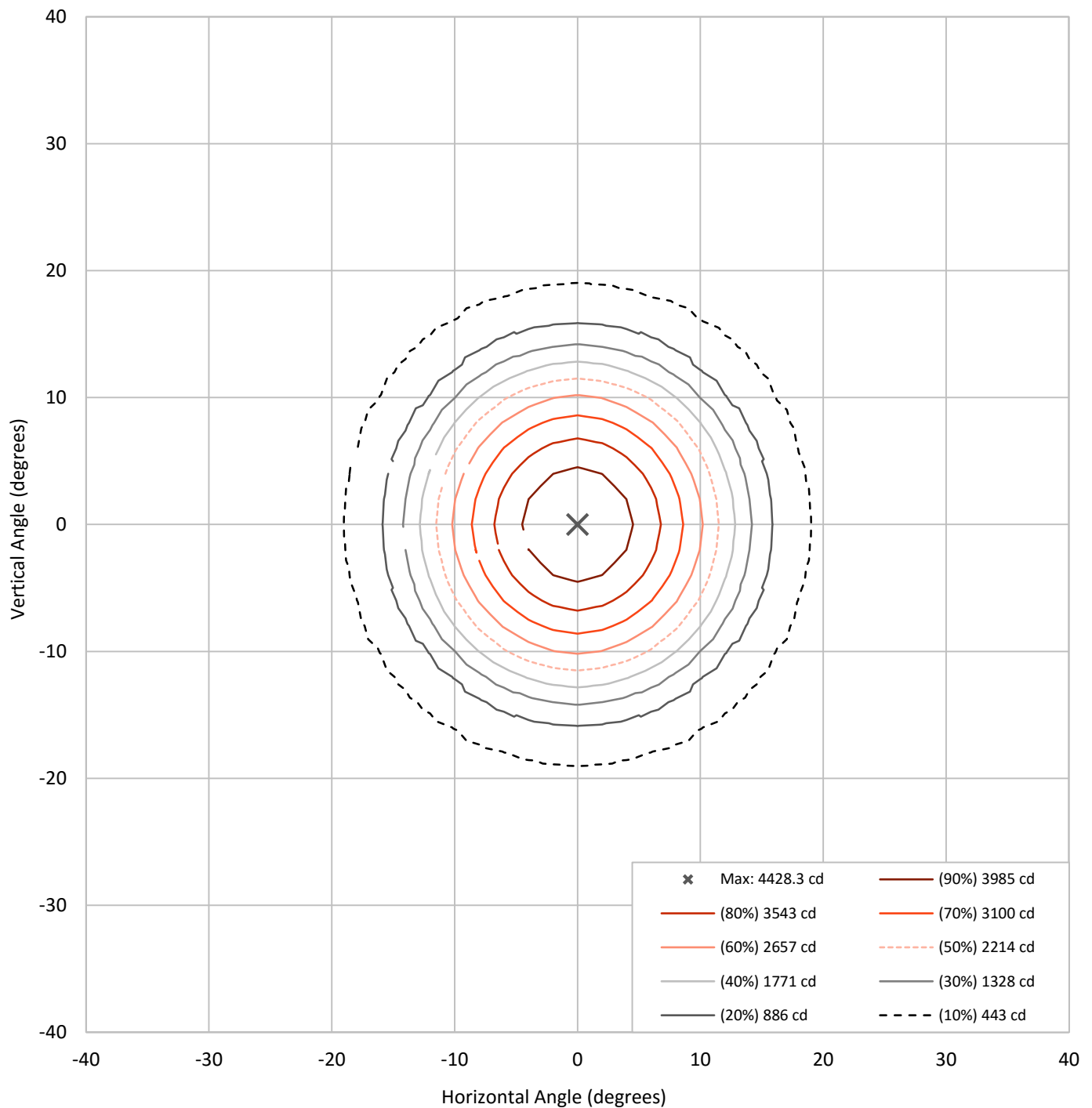
Input Watts (W): 10
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P220410 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-M-BK-L1-UNV

Iso-Candela Plot



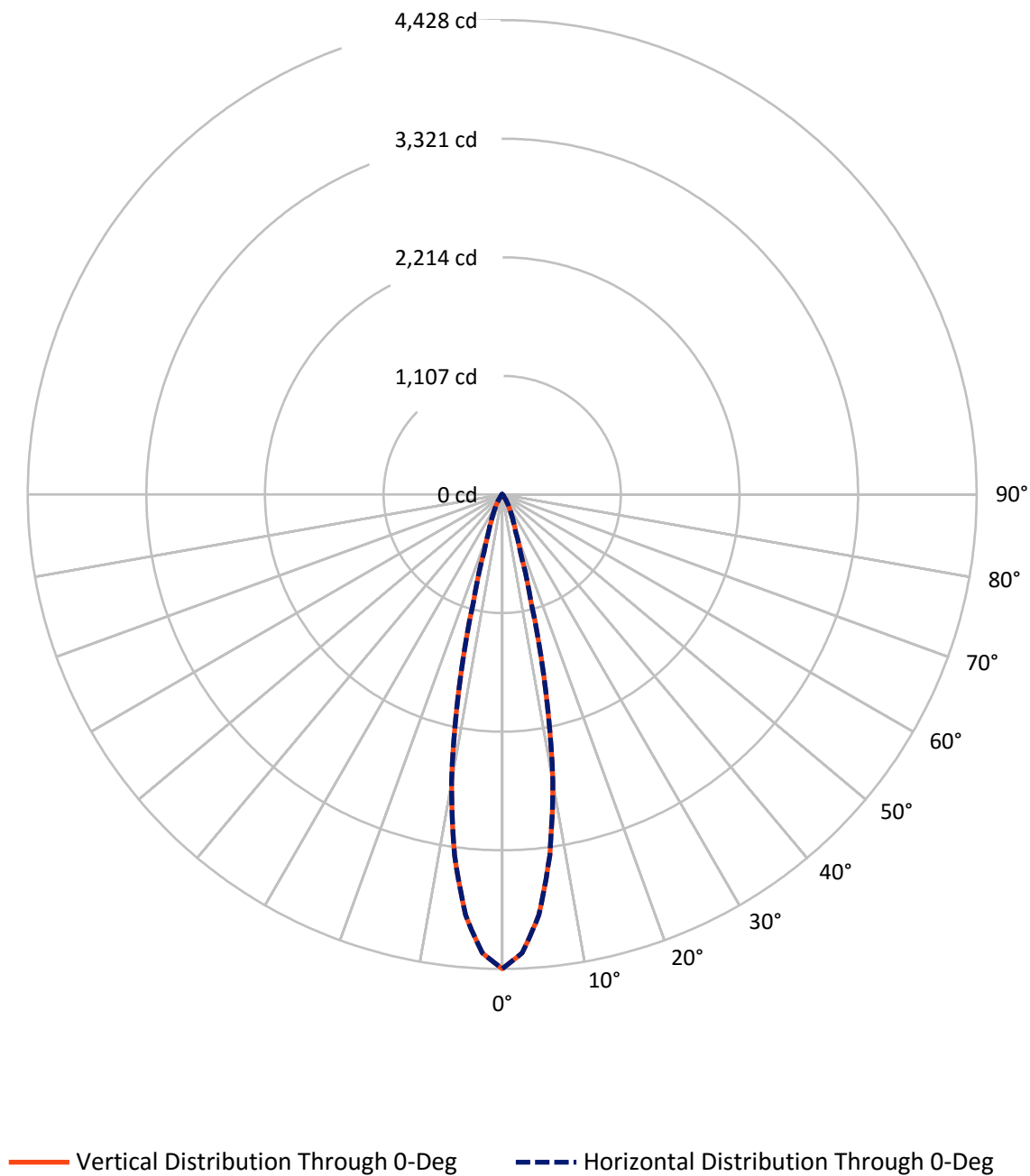
REPORT NUMBER: P220410 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-M-BK-L1-UNV

Lumen Table

90																	
80	0.0	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
60		0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0		
50	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0	
40		0.0	0.0	0.1	0.2	0.4	1.0	1.6	1.6	1.0	0.4	0.2	0.1	0.0	0.0		
30	0.0	0.0	0.0	0.1	0.4	1.6	3.8	6.0	6.0	3.8	1.6	0.4	0.1	0.0	0.0	0.0	
20		0.0	0.0	0.2	0.9	3.6	10.7	30.7	30.7	10.7	3.6	0.9	0.2	0.0	0.0		
10	0.0	0.0	0.0	0.2	1.3	5.5	30.0	98.1	98.1	30.0	5.5	1.3	0.2	0.0	0.0	0.0	
0		0.0	0.0	0.2	1.3	5.5	30.0	98.1	98.1	30.0	5.5	1.3	0.2	0.0	0.0		
-10	0.0	0.0	0.0	0.2	0.9	3.6	10.7	30.7	30.7	10.7	3.6	0.9	0.2	0.0	0.0	0.0	
-20		0.0	0.0	0.1	0.4	1.6	3.8	6.0	6.0	3.8	1.6	0.4	0.1	0.0	0.0		
-30	0.0	0.0	0.0	0.1	0.2	0.4	1.0	1.6	1.6	1.0	0.4	0.2	0.1	0.0	0.0	0.0	
-40		0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.2	0.1	0.1	0.0	0.0	0.0		
-50	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
-60		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
-70																	
-80	0.0	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
-90																	

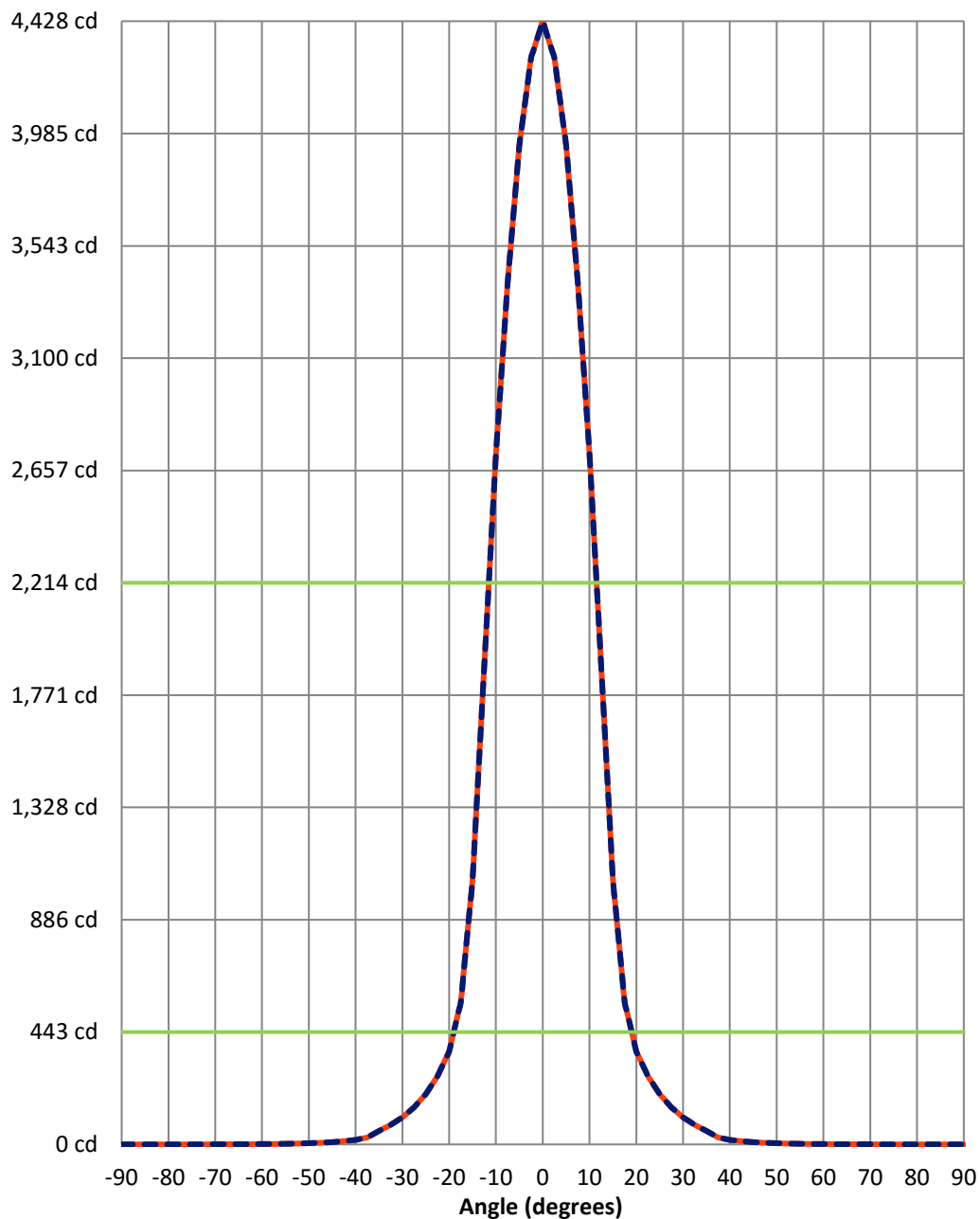
REPORT NUMBER: P220410 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-M-BK-L1-UNV

Luminous Intensity Polar Plot



REPORT NUMBER: P220410 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-M-BK-L1-UNV

Luminous Intensity Plot



Beam:
H Angle: 23°
V Angle: 23°
Lumens: 411.9
Efficiency: 52.2%

Field:
H Angle: 38.1°
V Angle: 38.1°
Lumens: 632.5
Efficiency: 80.2%

Spill:
Lumens: 156.5
Efficiency: 19.8%

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

REPORT NUMBER: P220410 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-M-BK-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	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0	0	0
62.5°	0	0	0	0	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0	0	0	0	0
57.5°	0	0	0	0	0	0	0	0	0	0	0
55°	0	0	0	0	0	0	0	0	0	0	0
52.5°	0	0	0	0	0	0	0	0	0	0	0
50°	0	0	0	0	0	0	0	0	0	0	0
47.5°	0	0	0	0	0	0	0	0	0	0	0
45°	0	0	0	0	0	0	0	0	0	0	0
42.5°	0	0	0	0	0	0	0	0	0	0	0
40°	0	0	0	0	0	0	0	0	0	0	0
37.5°	0	0	0	0	0	0	0	0	0	0	1
35°	0	0	0	0	0	0	0	0	0	0	1
32.5°	0	0	0	0	0	0	0	0	0	0	1
30°	0	0	0	0	0	0	0	0	0	1	1
27.5°	0	0	0	0	0	0	0	0	0	1	1
25°	0	0	0	0	0	0	0	0	0	1	1
22.5°	0	0	0	0	0	0	0	0	0	1	1
20°	0	0	0	0	0	0	0	0	0	1	1
17.5°	0	0	0	0	0	0	0	0	0	1	1
15°	0	0	0	0	0	0	0	0	1	1	1
12.5°	0	0	0	0	0	0	0	0	1	1	1
10°	0	0	0	0	0	0	0	0	1	1	1
7.5°	0	0	0	0	0	0	0	0	1	1	1
5°	0	0	0	0	0	0	0	0	1	1	1
2.5°	0	0	0	0	0	0	0	0	1	1	1
0°	0	0	0	0	0	0	0	0	1	1	1
-2.5°	0	0	0	0	0	0	0	0	1	1	1
-5°	0	0	0	0	0	0	0	0	1	1	1
-7.5°	0	0	0	0	0	0	0	0	1	1	1
-10°	0	0	0	0	0	0	0	0	1	1	1
-12.5°	0	0	0	0	0	0	0	0	1	1	1
-15°	0	0	0	0	0	0	0	0	1	1	1
-17.5°	0	0	0	0	0	0	0	0	0	1	1
-20°	0	0	0	0	0	0	0	0	0	1	1



REPORT NUMBER: P220410 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-M-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P220410 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-M-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0	0	1
62.5°	0	0	0	0	0	0	0	0	1	1	1
60°	0	0	0	0	0	0	1	1	1	1	1
57.5°	0	0	0	0	1	1	1	1	1	1	1
55°	0	0	0	1	1	1	1	1	1	1	1
52.5°	0	0	1	1	1	1	1	1	1	1	1
50°	0	0	1	1	1	1	1	1	1	1	2
47.5°	0	1	1	1	1	1	1	1	2	2	2
45°	0	1	1	1	1	1	1	2	2	2	2
42.5°	1	1	1	1	1	1	2	2	2	2	3
40°	1	1	1	1	1	1	2	2	2	3	3
37.5°	1	1	1	1	1	2	2	2	3	3	4
35°	1	1	1	1	2	2	2	3	3	4	5
32.5°	1	1	1	1	2	2	2	3	4	5	6
30°	1	1	1	2	2	2	3	3	5	6	7
27.5°	1	1	1	2	2	2	3	4	5	7	9
25°	1	1	1	2	2	3	3	5	6	8	10
22.5°	1	1	2	2	2	3	4	5	7	9	12
20°	1	1	2	2	2	3	4	6	8	10	14
17.5°	1	1	2	2	3	3	5	6	8	12	16
15°	1	1	2	2	3	4	5	7	9	13	18
12.5°	1	1	2	2	3	4	6	8	10	15	21
10°	1	1	2	2	3	4	6	8	11	16	23
7.5°	1	2	2	2	3	5	6	8	12	17	25
5°	1	2	2	2	3	5	6	9	12	17	26
2.5°	1	2	2	2	3	5	6	9	13	18	27
0°	1	2	2	2	3	5	6	9	13	18	27
-2.5°	1	2	2	2	3	5	6	9	13	18	27
-5°	1	2	2	2	3	5	6	9	12	17	26
-7.5°	1	2	2	2	3	5	6	8	12	17	25
-10°	1	1	2	2	3	4	6	8	11	16	23
-12.5°	1	1	2	2	3	4	6	8	10	15	21
-15°	1	1	2	2	3	4	5	7	9	13	18
-17.5°	1	1	2	2	3	3	5	6	8	12	16
-20°	1	1	2	2	2	3	4	6	8	10	14

REPORT NUMBER: P220410 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-M-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1	1	2	2	2	3	4	5	7	9	12
-25°	1	1	1	2	2	3	3	5	6	8	10
-27.5°	1	1	1	2	2	2	3	4	5	7	9
-30°	1	1	1	2	2	2	3	3	5	6	7
-32.5°	1	1	1	1	2	2	2	3	4	5	6
-35°	1	1	1	1	2	2	2	3	3	4	5
-37.5°	1	1	1	1	1	2	2	2	3	3	4
-40°	1	1	1	1	1	1	2	2	2	3	3
-42.5°	1	1	1	1	1	1	2	2	2	2	3
-45°	0	1	1	1	1	1	1	2	2	2	2
-47.5°	0	1	1	1	1	1	1	1	2	2	2
-50°	0	0	1	1	1	1	1	1	1	1	2
-52.5°	0	0	1	1	1	1	1	1	1	1	1
-55°	0	0	0	1	1	1	1	1	1	1	1
-57.5°	0	0	0	0	1	1	1	1	1	1	1
-60°	0	0	0	0	0	0	1	1	1	1	1
-62.5°	0	0	0	0	0	0	0	0	1	1	1
-65°	0	0	0	0	0	0	0	0	0	0	1
-67.5°	0	0	0	0	0	0	0	0	0	0	0
-70°	0	0	0	0	0	0	0	0	0	0	0
-72.5°	0	0	0	0	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0

REPORT NUMBER: P220410 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-M-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	1	1	1
67.5°	0	0	1	1	1	1	1	1	1	1	1
65°	1	1	1	1	1	1	1	1	1	1	1
62.5°	1	1	1	1	1	1	1	1	1	1	1
60°	1	1	1	1	1	1	1	1	1	1	1
57.5°	1	1	1	1	1	2	2	2	2	2	2
55°	1	1	2	2	2	2	2	2	2	2	2
52.5°	2	2	2	2	2	2	2	3	3	3	3
50°	2	2	2	2	3	3	3	3	4	4	4
47.5°	2	2	3	3	3	4	4	5	5	6	6
45°	3	3	3	4	5	5	6	6	7	8	8
42.5°	3	4	5	5	6	7	8	8	9	10	11
40°	4	5	6	7	8	9	10	12	13	15	16
37.5°	5	6	7	9	10	12	14	16	18	21	23
35°	6	8	9	11	14	16	19	23	27	34	40
32.5°	8	9	12	15	17	22	27	38	48	57	64
30°	9	12	15	18	24	34	48	60	70	80	89
27.5°	11	15	18	25	38	53	67	80	94	107	119
25°	14	17	24	38	55	71	88	104	123	141	159
22.5°	16	22	34	53	71	90	110	134	158	185	212
20°	19	27	48	67	88	110	137	168	203	242	278
17.5°	23	38	60	80	104	134	168	211	258	312	364
15°	27	48	70	94	123	158	203	258	324	398	507
12.5°	34	57	80	107	141	185	242	312	398	550	810
10°	40	64	89	119	159	212	278	364	507	810	1319
7.5°	46	70	97	130	174	236	316	423	669	1184	1893
5°	50	74	102	139	187	254	344	489	850	1546	2351
2.5°	52	76	106	144	195	265	361	542	995	1797	2626
0°	53	77	107	146	198	269	367	562	1045	1885	2721
-2.5°	52	76	106	144	195	265	361	542	995	1797	2626
-5°	50	74	102	139	187	254	344	489	850	1546	2351
-7.5°	46	70	97	130	174	236	316	423	669	1184	1893
-10°	40	64	89	119	159	212	278	364	507	810	1319
-12.5°	34	57	80	107	141	185	242	312	398	550	810
-15°	27	48	70	94	123	158	203	258	324	398	507
-17.5°	23	38	60	80	104	134	168	211	258	312	364
-20°	19	27	48	67	88	110	137	168	203	242	278

REPORT NUMBER: P220410 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-M-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	16	22	34	53	71	90	110	134	158	185	212
-25°	14	17	24	38	55	71	88	104	123	141	159
-27.5°	11	15	18	25	38	53	67	80	94	107	119
-30°	9	12	15	18	24	34	48	60	70	80	89
-32.5°	8	9	12	15	17	22	27	38	48	57	64
-35°	6	8	9	11	14	16	19	23	27	34	40
-37.5°	5	6	7	9	10	12	14	16	18	21	23
-40°	4	5	6	7	8	9	10	12	13	15	16
-42.5°	3	4	5	5	6	7	8	8	9	10	11
-45°	3	3	3	4	5	5	6	6	7	8	8
-47.5°	2	2	3	3	3	4	4	5	5	6	6
-50°	2	2	2	2	3	3	3	3	4	4	4
-52.5°	2	2	2	2	2	2	2	3	3	3	3
-55°	1	1	2	2	2	2	2	2	2	2	2
-57.5°	1	1	1	1	1	2	2	2	2	2	2
-60°	1	1	1	1	1	1	1	1	1	1	1
-62.5°	1	1	1	1	1	1	1	1	1	1	1
-65°	1	1	1	1	1	1	1	1	1	1	1
-67.5°	0	0	1	1	1	1	1	1	1	1	1
-70°	0	0	0	0	0	0	0	0	1	1	1
-72.5°	0	0	0	0	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0

REPORT NUMBER: P220410 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-M-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
70°	1	1	1	1	1	1	1	1	1	1	0
67.5°	1	1	1	1	1	1	1	1	1	1	1
65°	1	1	1	1	1	1	1	1	1	1	1
62.5°	1	1	1	1	1	1	1	1	1	1	1
60°	2	2	2	2	2	2	2	1	1	1	1
57.5°	2	2	2	2	2	2	2	2	2	2	2
55°	2	2	2	2	2	2	2	2	2	2	2
52.5°	3	3	3	3	3	3	3	3	3	3	3
50°	5	5	5	5	5	5	5	4	4	4	3
47.5°	6	6	6	6	6	6	6	6	6	5	5
45°	8	9	9	9	9	9	8	8	8	7	6
42.5°	12	12	13	13	13	12	12	11	10	9	8
40°	17	17	18	18	18	17	17	16	15	13	12
37.5°	25	26	27	27	27	26	25	23	21	18	16
35°	46	50	52	53	52	50	46	40	34	27	23
32.5°	70	74	76	77	76	74	70	64	57	48	38
30°	97	102	106	107	106	102	97	89	80	70	60
27.5°	130	139	144	146	144	139	130	119	107	94	80
25°	174	187	195	198	195	187	174	159	141	123	104
22.5°	236	254	265	269	265	254	236	212	185	158	134
20°	316	344	361	367	361	344	316	278	242	203	168
17.5°	423	489	542	562	542	489	423	364	312	258	211
15°	669	850	995	1045	995	850	669	507	398	324	258
12.5°	1184	1546	1797	1885	1797	1546	1184	810	550	398	312
10°	1893	2351	2626	2721	2626	2351	1893	1319	810	507	364
7.5°	2536	3004	3297	3397	3297	3004	2536	1893	1184	669	423
5°	3004	3504	3822	3939	3822	3504	3004	2351	1546	850	489
2.5°	3297	3822	4166	4283	4166	3822	3297	2626	1797	995	542
0°	3397	3939	4283	4428	4283	3939	3397	2721	1885	1045	562
-2.5°	3297	3822	4166	4283	4166	3822	3297	2626	1797	995	542
-5°	3004	3504	3822	3939	3822	3504	3004	2351	1546	850	489
-7.5°	2536	3004	3297	3397	3297	3004	2536	1893	1184	669	423
-10°	1893	2351	2626	2721	2626	2351	1893	1319	810	507	364
-12.5°	1184	1546	1797	1885	1797	1546	1184	810	550	398	312
-15°	669	850	995	1045	995	850	669	507	398	324	258
-17.5°	423	489	542	562	542	489	423	364	312	258	211
-20°	316	344	361	367	361	344	316	278	242	203	168



REPORT NUMBER: P220410 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-M-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	236	254	265	269	265	254	236	212	185	158	134
-25°	174	187	195	198	195	187	174	159	141	123	104
-27.5°	130	139	144	146	144	139	130	119	107	94	80
-30°	97	102	106	107	106	102	97	89	80	70	60
-32.5°	70	74	76	77	76	74	70	64	57	48	38
-35°	46	50	52	53	52	50	46	40	34	27	23
-37.5°	25	26	27	27	27	26	25	23	21	18	16
-40°	17	17	18	18	18	17	17	16	15	13	12
-42.5°	12	12	13	13	13	12	12	11	10	9	8
-45°	8	9	9	9	9	9	8	8	8	7	6
-47.5°	6	6	6	6	6	6	6	6	6	5	5
-50°	5	5	5	5	5	5	5	4	4	4	3
-52.5°	3	3	3	3	3	3	3	3	3	3	3
-55°	2	2	2	2	2	2	2	2	2	2	2
-57.5°	2	2	2	2	2	2	2	2	2	2	2
-60°	2	2	2	2	2	2	2	1	1	1	1
-62.5°	1	1	1	1	1	1	1	1	1	1	1
-65°	1	1	1	1	1	1	1	1	1	1	1
-67.5°	1	1	1	1	1	1	1	1	1	1	1
-70°	1	1	1	1	1	1	1	1	1	1	0
-72.5°	0	0	0	0	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0

REPORT NUMBER: P220410 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-M-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
67.5°	1	1	1	1	1	0	0	0	0	0	0
65°	1	1	1	1	1	1	1	1	0	0	0
62.5°	1	1	1	1	1	1	1	1	1	1	0
60°	1	1	1	1	1	1	1	1	1	1	1
57.5°	2	2	1	1	1	1	1	1	1	1	1
55°	2	2	2	2	2	1	1	1	1	1	1
52.5°	2	2	2	2	2	2	2	1	1	1	1
50°	3	3	3	2	2	2	2	2	1	1	1
47.5°	4	4	3	3	3	2	2	2	2	2	1
45°	6	5	5	4	3	3	3	2	2	2	2
42.5°	8	7	6	5	5	4	3	3	2	2	2
40°	10	9	8	7	6	5	4	3	3	2	2
37.5°	14	12	10	9	7	6	5	4	3	3	2
35°	19	16	14	11	9	8	6	5	4	3	3
32.5°	27	22	17	15	12	9	8	6	5	4	3
30°	48	34	24	18	15	12	9	7	6	5	3
27.5°	67	53	38	25	18	15	11	9	7	5	4
25°	88	71	55	38	24	17	14	10	8	6	5
22.5°	110	90	71	53	34	22	16	12	9	7	5
20°	137	110	88	67	48	27	19	14	10	8	6
17.5°	168	134	104	80	60	38	23	16	12	8	6
15°	203	158	123	94	70	48	27	18	13	9	7
12.5°	242	185	141	107	80	57	34	21	15	10	8
10°	278	212	159	119	89	64	40	23	16	11	8
7.5°	316	236	174	130	97	70	46	25	17	12	8
5°	344	254	187	139	102	74	50	26	17	12	9
2.5°	361	265	195	144	106	76	52	27	18	13	9
0°	367	269	198	146	107	77	53	27	18	13	9
-2.5°	361	265	195	144	106	76	52	27	18	13	9
-5°	344	254	187	139	102	74	50	26	17	12	9
-7.5°	316	236	174	130	97	70	46	25	17	12	8
-10°	278	212	159	119	89	64	40	23	16	11	8
-12.5°	242	185	141	107	80	57	34	21	15	10	8
-15°	203	158	123	94	70	48	27	18	13	9	7
-17.5°	168	134	104	80	60	38	23	16	12	8	6
-20°	137	110	88	67	48	27	19	14	10	8	6

REPORT NUMBER: P220410 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-M-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	110	90	71	53	34	22	16	12	9	7	5
-25°	88	71	55	38	24	17	14	10	8	6	5
-27.5°	67	53	38	25	18	15	11	9	7	5	4
-30°	48	34	24	18	15	12	9	7	6	5	3
-32.5°	27	22	17	15	12	9	8	6	5	4	3
-35°	19	16	14	11	9	8	6	5	4	3	3
-37.5°	14	12	10	9	7	6	5	4	3	3	2
-40°	10	9	8	7	6	5	4	3	3	2	2
-42.5°	8	7	6	5	5	4	3	3	2	2	2
-45°	6	5	5	4	3	3	3	2	2	2	2
-47.5°	4	4	3	3	3	2	2	2	2	2	1
-50°	3	3	3	2	2	2	2	2	1	1	1
-52.5°	2	2	2	2	2	2	2	1	1	1	1
-55°	2	2	2	2	2	1	1	1	1	1	1
-57.5°	2	2	1	1	1	1	1	1	1	1	1
-60°	1	1	1	1	1	1	1	1	1	1	1
-62.5°	1	1	1	1	1	1	1	1	1	1	0
-65°	1	1	1	1	1	1	1	1	0	0	0
-67.5°	1	1	1	1	1	0	0	0	0	0	0
-70°	0	0	0	0	0	0	0	0	0	0	0
-72.5°	0	0	0	0	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0

REPORT NUMBER: P220410 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-M-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0	0	0
62.5°	0	0	0	0	0	0	0	0	0	0	0
60°	1	0	0	0	0	0	0	0	0	0	0
57.5°	1	1	1	0	0	0	0	0	0	0	0
55°	1	1	1	1	0	0	0	0	0	0	0
52.5°	1	1	1	1	1	0	0	0	0	0	0
50°	1	1	1	1	1	0	0	0	0	0	0
47.5°	1	1	1	1	1	1	0	0	0	0	0
45°	1	1	1	1	1	1	0	0	0	0	0
42.5°	2	1	1	1	1	1	1	0	0	0	0
40°	2	1	1	1	1	1	1	0	0	0	0
37.5°	2	2	1	1	1	1	1	1	0	0	0
35°	2	2	2	1	1	1	1	1	0	0	0
32.5°	2	2	2	1	1	1	1	1	0	0	0
30°	3	2	2	2	1	1	1	1	1	0	0
27.5°	3	2	2	2	1	1	1	1	1	0	0
25°	3	3	2	2	1	1	1	1	1	0	0
22.5°	4	3	2	2	2	1	1	1	1	0	0
20°	4	3	2	2	2	1	1	1	1	0	0
17.5°	5	3	3	2	2	1	1	1	1	0	0
15°	5	4	3	2	2	1	1	1	1	1	0
12.5°	6	4	3	2	2	1	1	1	1	1	0
10°	6	4	3	2	2	1	1	1	1	1	0
7.5°	6	5	3	2	2	2	1	1	1	1	0
5°	6	5	3	2	2	2	1	1	1	1	0
2.5°	6	5	3	2	2	2	1	1	1	1	0
0°	6	5	3	2	2	2	1	1	1	1	0
-2.5°	6	5	3	2	2	2	1	1	1	1	0
-5°	6	5	3	2	2	2	1	1	1	1	0
-7.5°	6	5	3	2	2	2	1	1	1	1	0
-10°	6	4	3	2	2	1	1	1	1	1	0
-12.5°	6	4	3	2	2	1	1	1	1	1	0
-15°	5	4	3	2	2	1	1	1	1	1	0
-17.5°	5	3	3	2	2	1	1	1	1	0	0
-20°	4	3	2	2	2	1	1	1	1	0	0



REPORT NUMBER: P220410 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-M-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	4	3	2	2	2	1	1	1	1	0	0
-25°	3	3	2	2	1	1	1	1	1	0	0
-27.5°	3	2	2	2	1	1	1	1	1	0	0
-30°	3	2	2	2	1	1	1	1	1	0	0
-32.5°	2	2	2	1	1	1	1	1	0	0	0
-35°	2	2	2	1	1	1	1	1	0	0	0
-37.5°	2	2	1	1	1	1	1	1	0	0	0
-40°	2	1	1	1	1	1	1	0	0	0	0
-42.5°	2	1	1	1	1	1	1	0	0	0	0
-45°	1	1	1	1	1	1	0	0	0	0	0
-47.5°	1	1	1	1	1	1	0	0	0	0	0
-50°	1	1	1	1	1	0	0	0	0	0	0
-52.5°	1	1	1	1	1	0	0	0	0	0	0
-55°	1	1	1	1	0	0	0	0	0	0	0
-57.5°	1	1	1	0	0	0	0	0	0	0	0
-60°	1	0	0	0	0	0	0	0	0	0	0
-62.5°	0	0	0	0	0	0	0	0	0	0	0
-65°	0	0	0	0	0	0	0	0	0	0	0
-67.5°	0	0	0	0	0	0	0	0	0	0	0
-70°	0	0	0	0	0	0	0	0	0	0	0
-72.5°	0	0	0	0	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0

REPORT NUMBER: P220410 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-M-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0
62.5°	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0
57.5°	0	0	0	0	0	0	0
55°	0	0	0	0	0	0	0
52.5°	0	0	0	0	0	0	0
50°	0	0	0	0	0	0	0
47.5°	0	0	0	0	0	0	0
45°	0	0	0	0	0	0	0
42.5°	0	0	0	0	0	0	0
40°	0	0	0	0	0	0	0
37.5°	0	0	0	0	0	0	0
35°	0	0	0	0	0	0	0
32.5°	0	0	0	0	0	0	0
30°	0	0	0	0	0	0	0
27.5°	0	0	0	0	0	0	0
25°	0	0	0	0	0	0	0
22.5°	0	0	0	0	0	0	0
20°	0	0	0	0	0	0	0
17.5°	0	0	0	0	0	0	0
15°	0	0	0	0	0	0	0
12.5°	0	0	0	0	0	0	0
10°	0	0	0	0	0	0	0
7.5°	0	0	0	0	0	0	0
5°	0	0	0	0	0	0	0
2.5°	0	0	0	0	0	0	0
0°	0	0	0	0	0	0	0
-2.5°	0	0	0	0	0	0	0
-5°	0	0	0	0	0	0	0
-7.5°	0	0	0	0	0	0	0
-10°	0	0	0	0	0	0	0
-12.5°	0	0	0	0	0	0	0
-15°	0	0	0	0	0	0	0
-17.5°	0	0	0	0	0	0	0
-20°	0	0	0	0	0	0	0

REPORT NUMBER: P220410 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-M-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)