

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: P220394 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220394 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29420)  
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-W-WT-L1-UNV  
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS,  
WIDE FLOOD OPTIC, WHITE HOUSING.  
Light Source: (1) 3000K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

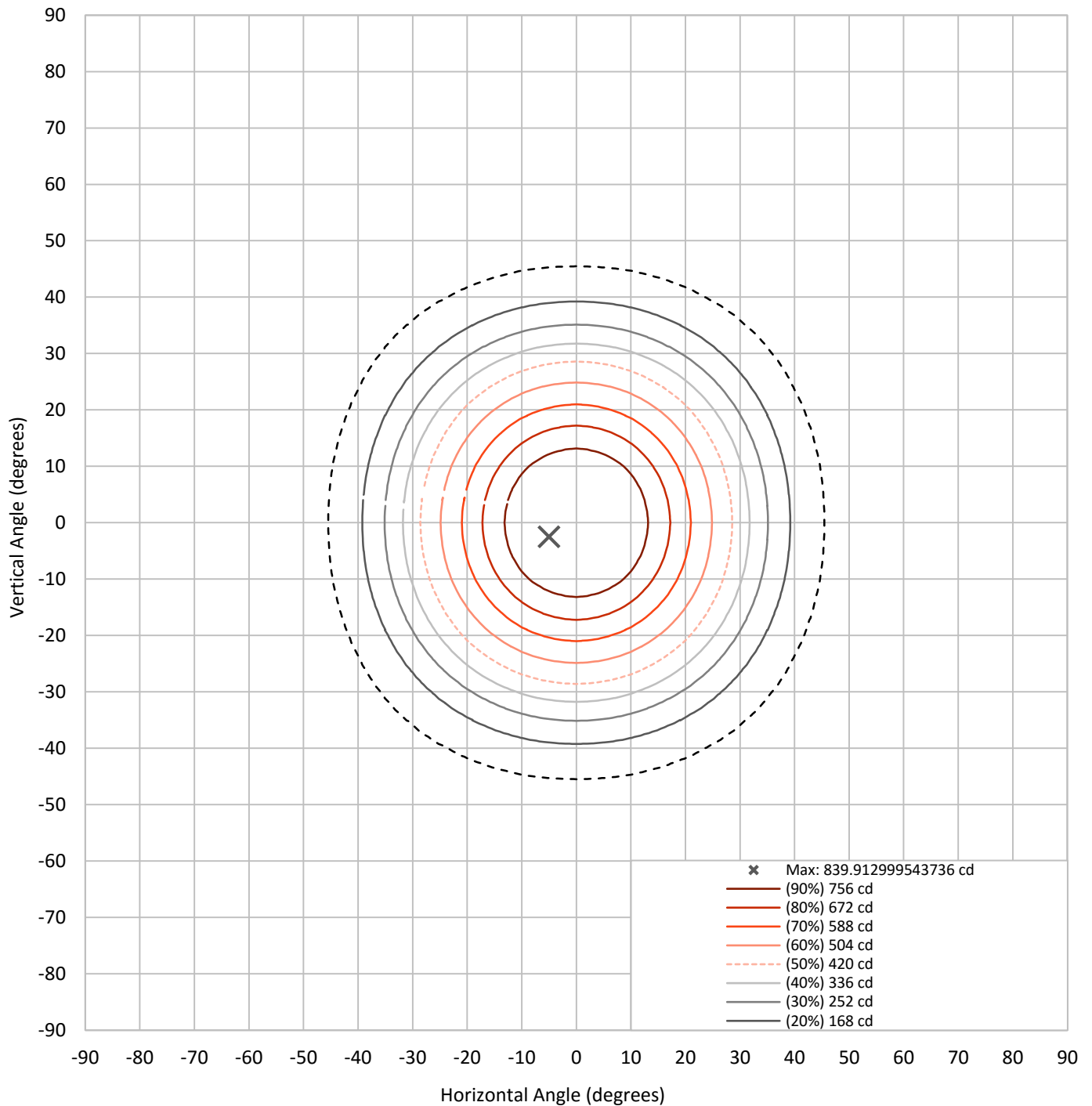
Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	774 lumens	Max Intensity:	839.9 candela
Efficiency:	N/A	Max Intensity Angle:	-5°H x -2.5°V
Efficacy:	77.4 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	57°H x 56.4°V	Field Angle (10%):	90.7°H x 90.4°V
Beam Lumens:	476.6 lumens	Field Lumens:	713.6 lumens
Beam Efficiency:	61.6%	Field Efficiency:	92.2%
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		



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

### Iso-Candela Plot





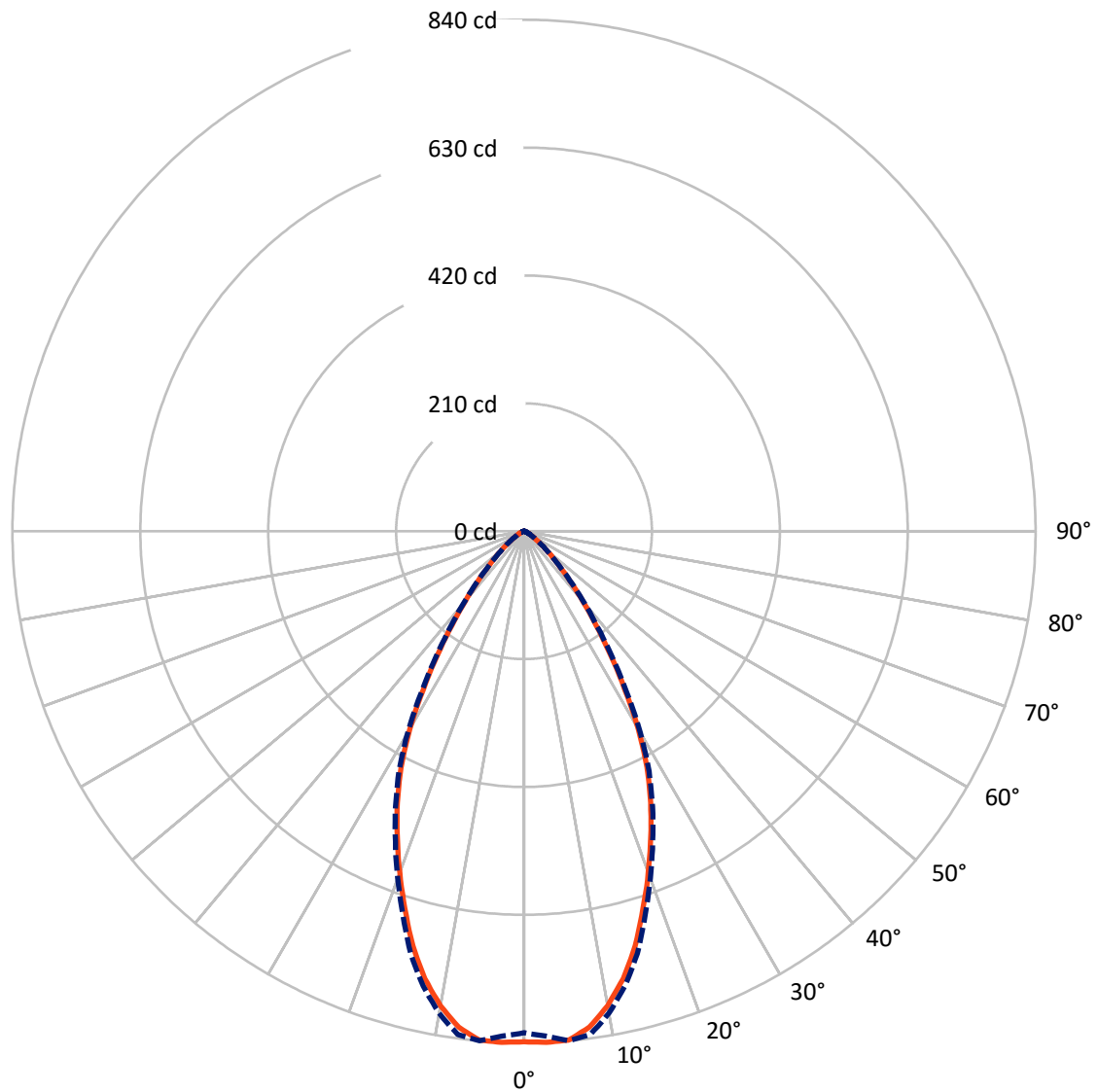
REPORT NUMBER: P220394 (CONVERTED FROM TYPE C PHOTOMETRY)  
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### Lumen Table

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	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0				
50		0.0	0.1	0.2	0.3	0.5	0.7	0.8	0.8	0.7	0.5	0.3	0.2	0.1		0.0			
40	0.0	0.0	0.1	0.3	0.7	1.4	2.2	2.7	2.7	2.2	1.4	0.7	0.3	0.1	0.0	0.0			
30		0.1	0.2	0.6	1.6	3.5	5.9	7.6	7.6	5.9	3.5	1.6	0.6	0.2	0.1				
20	0.0	0.1	0.3	1.1	3.2	7.2	11.9	14.7	14.7	11.9	7.2	3.2	1.1	0.3	0.1	0.0			
10		0.1	0.4	1.6	5.0	11.2	17.1	21.1	21.1	17.1	11.2	5.0	1.6	0.4	0.1				
0	0.0	0.1	0.5	2.0	6.3	13.4	20.4	24.8	24.8	20.4	13.4	6.3	2.0	0.5	0.1	0.0			
-10		0.1	0.5	2.0	6.3	13.4	20.4	24.8	24.8	20.4	13.4	6.3	2.0	0.5	0.1				
-20	0.0	0.1	0.4	1.6	5.0	11.2	17.1	21.1	21.1	17.1	11.2	5.0	1.6	0.4	0.1	0.0			
-30		0.1	0.3	1.1	3.2	7.2	11.9	14.7	14.7	11.9	7.2	3.2	1.1	0.3	0.1				
-40	0.0	0.1	0.2	0.6	1.6	3.5	5.9	7.6	7.6	5.9	3.5	1.6	0.6	0.2	0.1	0.0			
-50		0.0	0.1	0.3	0.7	1.4	2.2	2.7	2.7	2.2	1.4	0.7	0.3	0.1	0.0				
-60	0.0	0.0	0.1	0.2	0.3	0.5	0.7	0.8	0.8	0.7	0.5	0.3	0.2	0.1	0.0	0.0			
-70		0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	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
	Horizontal Angle (degrees)																		

REPORT NUMBER: P220394 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-W-WT-L1-UNV

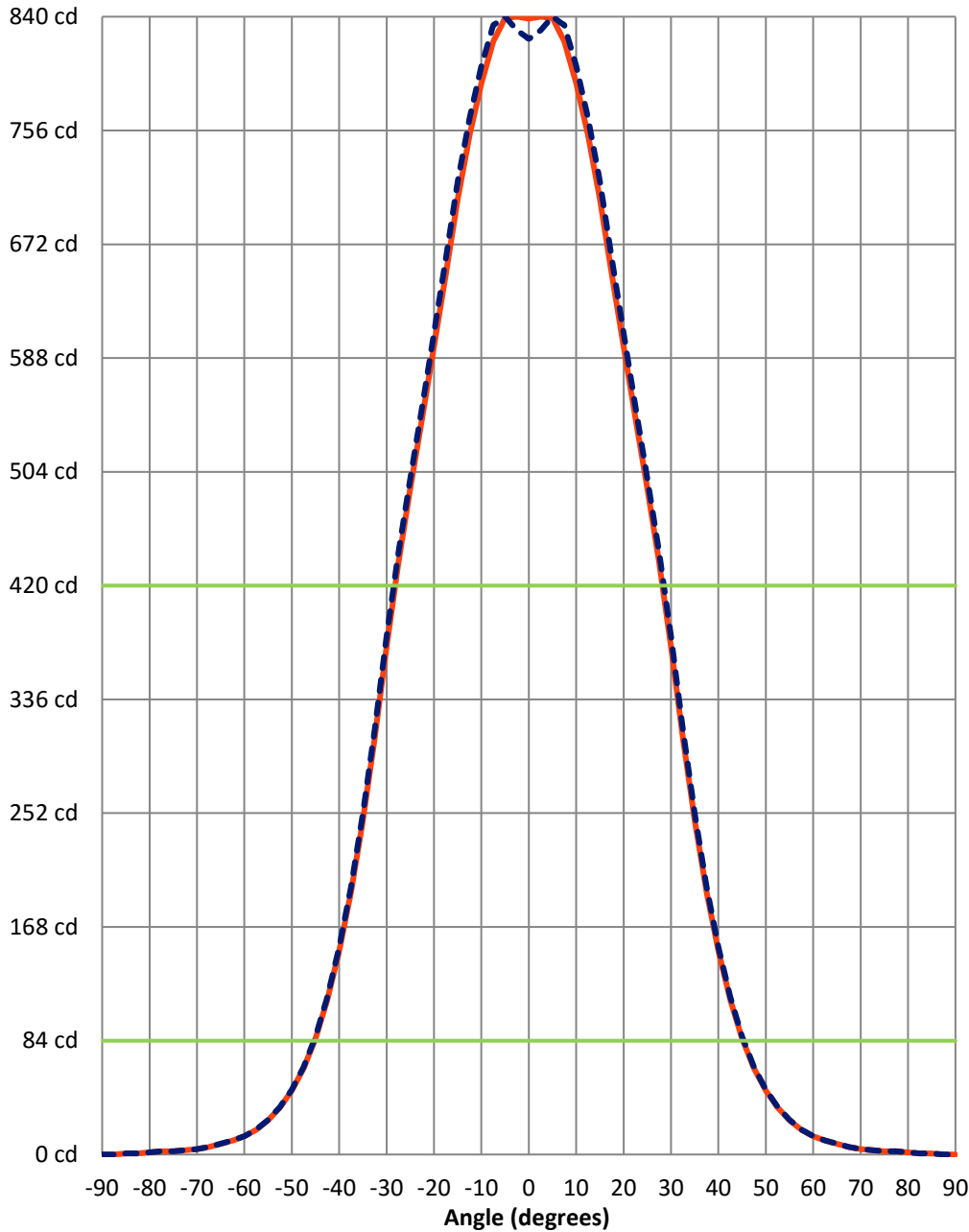
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 57°  
 V Angle: 56.4°  
 Lumens: 476.6  
 Efficiency: 61.6%

**Field:**  
 H Angle: 90.7°  
 V Angle: 90.4°  
 Lumens: 713.6  
 Efficiency: 92.2%

**Spill:**  
 Lumens: 60.3  
 Efficiency: 7.8%

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



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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	1	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	1	2	2	2	3	4
37.5°	0	0	0	1	1	2	2	2	3	3	4
35°	0	0	1	1	1	2	2	2	3	3	4
32.5°	0	0	1	1	1	2	2	2	3	4	5
30°	0	0	1	1	1	2	2	2	3	4	5
27.5°	0	0	1	1	1	2	2	3	3	4	5
25°	0	0	1	1	1	2	2	3	3	4	6
22.5°	0	0	1	1	1	2	2	3	3	4	6
20°	0	0	1	1	1	2	2	3	4	5	6
17.5°	0	0	1	1	1	2	2	3	4	5	7
15°	0	0	1	1	1	2	2	3	4	5	7
12.5°	0	0	1	1	2	2	2	3	4	5	7
10°	0	0	1	1	2	2	2	3	4	5	8
7.5°	0	0	1	1	2	2	2	3	4	5	8
5°	0	0	1	1	2	2	2	3	4	6	8
2.5°	0	0	1	1	2	2	2	3	4	6	8
0°	0	0	1	1	2	2	2	3	4	6	8
-2.5°	0	0	1	1	2	2	2	3	4	6	8
-5°	0	0	1	1	2	2	2	3	4	6	8
-7.5°	0	0	1	1	2	2	2	3	4	5	8
-10°	0	0	1	1	2	2	2	3	4	5	8
-12.5°	0	0	1	1	2	2	2	3	4	5	7
-15°	0	0	1	1	1	2	2	3	4	5	7
-17.5°	0	0	1	1	1	2	2	3	4	5	7
-20°	0	0	1	1	1	2	2	3	4	5	6



REPORT NUMBER: P220394 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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	1	1	1	2	2	3	3	4	6
-25°	0	0	1	1	1	2	2	3	3	4	6
-27.5°	0	0	1	1	1	2	2	3	3	4	5
-30°	0	0	1	1	1	2	2	2	3	4	5
-32.5°	0	0	1	1	1	2	2	2	3	4	5
-35°	0	0	1	1	1	2	2	2	3	3	4
-37.5°	0	0	0	1	1	2	2	2	3	3	4
-40°	0	0	0	1	1	1	2	2	2	3	4
-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	1	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: P220394 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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
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	1	2
75°	1	1	1	1	1	1	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	2	3
67.5°	2	2	2	2	2	2	2	3	3	3	3
65°	2	2	2	2	2	3	3	3	3	4	4
62.5°	2	2	2	3	3	3	3	4	4	4	5
60°	2	2	3	3	3	4	4	4	5	6	6
57.5°	2	3	3	3	4	4	5	5	6	7	8
55°	3	3	3	4	4	5	6	7	8	9	10
52.5°	3	3	4	4	5	6	7	8	10	11	12
50°	3	4	4	5	6	7	9	10	11	13	15
47.5°	3	4	5	6	7	9	10	12	13	16	18
45°	4	4	5	7	8	10	12	14	16	19	23
42.5°	4	5	6	8	10	11	13	16	20	24	29
40°	4	6	7	9	11	13	16	19	24	29	35
37.5°	5	6	8	10	12	15	18	23	29	35	43
35°	5	7	9	11	13	17	22	27	34	42	52
32.5°	6	8	10	12	15	19	25	32	40	50	62
30°	7	9	11	13	17	22	29	37	46	59	73
27.5°	7	9	12	15	19	25	33	42	54	68	85
25°	8	10	13	16	21	28	37	47	61	78	99
22.5°	8	10	13	18	23	31	41	53	69	88	113
20°	9	11	14	19	25	34	45	59	77	100	128
17.5°	9	12	15	20	28	37	49	64	85	110	142
15°	9	12	16	22	30	40	53	70	92	120	155
12.5°	10	13	17	23	31	42	57	75	100	131	168
10°	10	13	17	24	33	44	60	80	106	139	179
7.5°	10	13	18	25	34	46	62	83	111	146	188
5°	10	13	18	25	35	47	64	86	114	150	194
2.5°	10	14	18	26	35	48	65	87	116	153	198
0°	10	14	19	26	35	48	65	88	117	154	199
-2.5°	10	14	19	26	35	48	65	88	117	154	199
-5°	10	13	18	25	35	47	64	86	114	150	194
-7.5°	10	13	18	25	34	46	62	83	111	146	188
-10°	10	13	17	24	33	44	60	80	106	139	179
-12.5°	10	13	17	23	31	42	57	75	100	131	168
-15°	9	12	16	22	30	40	53	70	92	120	155
-17.5°	9	12	15	20	28	37	49	64	85	110	142
-20°	9	11	14	19	25	34	45	59	77	100	128



REPORT NUMBER: P220394 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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	10	13	18	23	31	41	53	69	88	113
-25°	8	10	13	16	21	28	37	47	61	78	99
-27.5°	7	9	12	15	19	25	33	42	54	68	85
-30°	7	9	11	13	17	22	29	37	46	59	73
-32.5°	6	8	10	12	15	19	25	32	40	50	62
-35°	5	7	9	11	13	17	22	27	34	42	52
-37.5°	5	6	8	10	12	15	18	23	29	35	43
-40°	4	6	7	9	11	13	16	19	24	29	35
-42.5°	4	5	6	8	10	11	13	16	20	24	29
-45°	4	4	5	7	8	10	12	14	16	19	23
-47.5°	3	4	5	6	7	9	10	12	13	16	18
-50°	3	4	4	5	6	7	9	10	11	13	15
-52.5°	3	3	4	4	5	6	7	8	10	11	12
-55°	3	3	3	4	4	5	6	7	8	9	10
-57.5°	2	3	3	3	4	4	5	5	6	7	8
-60°	2	2	3	3	3	4	4	4	5	6	6
-62.5°	2	2	2	3	3	3	3	4	4	4	5
-65°	2	2	2	2	2	3	3	3	3	4	4
-67.5°	2	2	2	2	2	2	3	3	3	3	3
-70°	1	2	2	2	2	2	2	2	2	2	3
-72.5°	1	1	1	2	2	2	2	2	2	2	2
-75°	1	1	1	1	1	1	2	2	2	2	2
-77.5°	1	1	1	1	1	1	1	1	1	1	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: P220394 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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
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	1	1	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	2	3	3	3	3	3	3	3	3
70°	3	3	3	3	3	3	4	4	4	4	4
67.5°	3	4	4	4	4	4	5	5	5	5	5
65°	4	5	5	5	6	6	6	7	7	7	8
62.5°	5	6	7	7	8	8	9	9	9	10	10
60°	7	8	9	9	10	10	11	12	12	13	13
57.5°	9	10	11	12	13	13	14	15	16	17	17
55°	11	12	13	15	16	18	19	20	22	23	24
52.5°	13	15	17	19	21	23	25	28	30	31	33
50°	17	19	22	25	28	31	34	37	40	42	44
47.5°	22	25	29	33	37	41	45	49	53	57	60
45°	27	32	37	42	47	53	59	64	70	75	80
42.5°	34	40	46	54	61	69	77	85	92	100	106
40°	42	50	59	68	78	88	100	110	120	131	139
37.5°	52	62	73	85	99	113	128	142	155	168	179
35°	63	76	90	106	124	142	160	179	195	212	227
32.5°	76	92	110	131	152	175	198	222	244	264	283
30°	90	110	133	158	185	213	242	271	298	322	344
27.5°	106	131	158	188	221	254	290	324	356	385	407
25°	124	152	185	221	259	300	341	380	412	440	463
22.5°	142	175	213	254	300	346	391	429	463	489	512
20°	160	198	242	290	341	391	435	473	505	534	560
17.5°	179	222	271	324	380	429	473	511	546	579	608
15°	195	244	298	356	412	463	505	546	585	622	655
12.5°	212	264	322	385	440	489	534	579	622	663	701
10°	227	283	344	407	463	512	560	608	655	701	740
7.5°	238	297	362	424	480	530	581	632	683	732	769
5°	247	308	375	437	492	544	597	650	705	752	791
2.5°	252	314	382	444	499	552	606	662	718	765	804
0°	254	316	385	447	502	555	610	666	723	769	808
-2.5°	252	314	382	444	499	552	606	662	718	765	804
-5°	247	308	375	437	492	544	597	650	705	752	791
-7.5°	238	297	362	424	480	530	581	632	683	732	769
-10°	227	283	344	407	463	512	560	608	655	701	740
-12.5°	212	264	322	385	440	489	534	579	622	663	701
-15°	195	244	298	356	412	463	505	546	585	622	655
-17.5°	179	222	271	324	380	429	473	511	546	579	608
-20°	160	198	242	290	341	391	435	473	505	534	560



REPORT NUMBER: P220394 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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°	142	175	213	254	300	346	391	429	463	489	512
-25°	124	152	185	221	259	300	341	380	412	440	463
-27.5°	106	131	158	188	221	254	290	324	356	385	407
-30°	90	110	133	158	185	213	242	271	298	322	344
-32.5°	76	92	110	131	152	175	198	222	244	264	283
-35°	63	76	90	106	124	142	160	179	195	212	227
-37.5°	52	62	73	85	99	113	128	142	155	168	179
-40°	42	50	59	68	78	88	100	110	120	131	139
-42.5°	34	40	46	54	61	69	77	85	92	100	106
-45°	27	32	37	42	47	53	59	64	70	75	80
-47.5°	22	25	29	33	37	41	45	49	53	57	60
-50°	17	19	22	25	28	31	34	37	40	42	44
-52.5°	13	15	17	19	21	23	25	28	30	31	33
-55°	11	12	13	15	16	18	19	20	22	23	24
-57.5°	9	10	11	12	13	13	14	15	16	17	17
-60°	7	8	9	9	10	10	11	12	12	13	13
-62.5°	5	6	7	7	8	8	9	9	9	10	10
-65°	4	5	5	5	6	6	6	7	7	7	8
-67.5°	3	4	4	4	4	4	5	5	5	5	5
-70°	3	3	3	3	3	3	4	4	4	4	4
-72.5°	2	2	2	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	1	1	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: P220394 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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
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	1	1
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°	3	3	3	3	3	3	3	3	3	3	3
70°	4	4	4	4	4	4	4	4	4	4	4
67.5°	5	6	6	6	6	6	5	5	5	5	5
65°	8	8	8	8	8	8	8	8	7	7	7
62.5°	10	10	10	10	10	10	10	10	10	9	9
60°	13	13	14	14	14	13	13	13	13	12	12
57.5°	18	18	18	19	18	18	18	17	17	16	15
55°	25	25	26	26	26	25	25	24	23	22	20
52.5°	34	35	35	35	35	35	34	33	31	30	28
50°	46	47	48	48	48	47	46	44	42	40	37
47.5°	62	64	65	65	65	64	62	60	57	53	49
45°	83	86	87	88	87	86	83	80	75	70	64
42.5°	111	114	116	117	116	114	111	106	100	92	85
40°	146	150	153	154	153	150	146	139	131	120	110
37.5°	188	194	198	199	198	194	188	179	168	155	142
35°	238	247	252	254	252	247	238	227	212	195	179
32.5°	297	308	314	316	314	308	297	283	264	244	222
30°	362	375	382	385	382	375	362	344	322	298	271
27.5°	424	437	444	447	444	437	424	407	385	356	324
25°	480	492	499	502	499	492	480	463	440	412	380
22.5°	530	544	552	555	552	544	530	512	489	463	429
20°	581	597	606	610	606	597	581	560	534	505	473
17.5°	632	650	662	666	662	650	632	608	579	546	511
15°	683	705	718	723	718	705	683	655	622	585	546
12.5°	732	752	765	769	765	752	732	701	663	622	579
10°	769	791	804	808	804	791	769	740	701	655	608
7.5°	799	822	834	836	834	822	799	769	732	683	632
5°	822	839	840	839	840	839	822	791	752	705	650
2.5°	834	840	830	824	830	840	834	804	765	718	662
0°	836	839	824	823	824	839	836	808	769	723	666
-2.5°	834	840	830	824	830	840	834	804	765	718	662
-5°	822	839	840	839	840	839	822	791	752	705	650
-7.5°	799	822	834	836	834	822	799	769	732	683	632
-10°	769	791	804	808	804	791	769	740	701	655	608
-12.5°	732	752	765	769	765	752	732	701	663	622	579
-15°	683	705	718	723	718	705	683	655	622	585	546
-17.5°	632	650	662	666	662	650	632	608	579	546	511
-20°	581	597	606	610	606	597	581	560	534	505	473



REPORT NUMBER: P220394 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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°	530	544	552	555	552	544	530	512	489	463	429
-25°	480	492	499	502	499	492	480	463	440	412	380
-27.5°	424	437	444	447	444	437	424	407	385	356	324
-30°	362	375	382	385	382	375	362	344	322	298	271
-32.5°	297	308	314	316	314	308	297	283	264	244	222
-35°	238	247	252	254	252	247	238	227	212	195	179
-37.5°	188	194	198	199	198	194	188	179	168	155	142
-40°	146	150	153	154	153	150	146	139	131	120	110
-42.5°	111	114	116	117	116	114	111	106	100	92	85
-45°	83	86	87	88	87	86	83	80	75	70	64
-47.5°	62	64	65	65	65	64	62	60	57	53	49
-50°	46	47	48	48	48	47	46	44	42	40	37
-52.5°	34	35	35	35	35	35	34	33	31	30	28
-55°	25	25	26	26	26	25	25	24	23	22	20
-57.5°	18	18	18	19	18	18	18	17	17	16	15
-60°	13	13	14	14	14	13	13	13	13	12	12
-62.5°	10	10	10	10	10	10	10	10	10	9	9
-65°	8	8	8	8	8	8	8	8	7	7	7
-67.5°	5	6	6	6	6	6	5	5	5	5	5
-70°	4	4	4	4	4	4	4	4	4	4	4
-72.5°	3	3	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°	2	2	2	2	2	2	2	2	2	1	1
-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: P220394 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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
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	1	1	1
75°	2	2	2	2	2	2	2	2	2	2	2
72.5°	3	3	3	3	2	2	2	2	2	2	2
70°	4	3	3	3	3	3	3	3	2	2	2
67.5°	5	4	4	4	4	4	3	3	3	3	3
65°	6	6	6	5	5	5	4	4	4	3	3
62.5°	9	8	8	7	7	6	5	5	4	4	4
60°	11	10	10	9	9	8	7	6	6	5	4
57.5°	14	13	13	12	11	10	9	8	7	6	5
55°	19	18	16	15	13	12	11	10	9	8	7
52.5°	25	23	21	19	17	15	13	12	11	10	8
50°	34	31	28	25	22	19	17	15	13	11	10
47.5°	45	41	37	33	29	25	22	18	16	13	12
45°	59	53	47	42	37	32	27	23	19	16	14
42.5°	77	69	61	54	46	40	34	29	24	20	16
40°	100	88	78	68	59	50	42	35	29	24	19
37.5°	128	113	99	85	73	62	52	43	35	29	23
35°	160	142	124	106	90	76	63	52	42	34	27
32.5°	198	175	152	131	110	92	76	62	50	40	32
30°	242	213	185	158	133	110	90	73	59	46	37
27.5°	290	254	221	188	158	131	106	85	68	54	42
25°	341	300	259	221	185	152	124	99	78	61	47
22.5°	391	346	300	254	213	175	142	113	88	69	53
20°	435	391	341	290	242	198	160	128	100	77	59
17.5°	473	429	380	324	271	222	179	142	110	85	64
15°	505	463	412	356	298	244	195	155	120	92	70
12.5°	534	489	440	385	322	264	212	168	131	100	75
10°	560	512	463	407	344	283	227	179	139	106	80
7.5°	581	530	480	424	362	297	238	188	146	111	83
5°	597	544	492	437	375	308	247	194	150	114	86
2.5°	606	552	499	444	382	314	252	198	153	116	87
0°	610	555	502	447	385	316	254	199	154	117	88
-2.5°	606	552	499	444	382	314	252	198	153	116	87
-5°	597	544	492	437	375	308	247	194	150	114	86
-7.5°	581	530	480	424	362	297	238	188	146	111	83
-10°	560	512	463	407	344	283	227	179	139	106	80
-12.5°	534	489	440	385	322	264	212	168	131	100	75
-15°	505	463	412	356	298	244	195	155	120	92	70
-17.5°	473	429	380	324	271	222	179	142	110	85	64
-20°	435	391	341	290	242	198	160	128	100	77	59



REPORT NUMBER: P220394 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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°	391	346	300	254	213	175	142	113	88	69	53
-25°	341	300	259	221	185	152	124	99	78	61	47
-27.5°	290	254	221	188	158	131	106	85	68	54	42
-30°	242	213	185	158	133	110	90	73	59	46	37
-32.5°	198	175	152	131	110	92	76	62	50	40	32
-35°	160	142	124	106	90	76	63	52	42	34	27
-37.5°	128	113	99	85	73	62	52	43	35	29	23
-40°	100	88	78	68	59	50	42	35	29	24	19
-42.5°	77	69	61	54	46	40	34	29	24	20	16
-45°	59	53	47	42	37	32	27	23	19	16	14
-47.5°	45	41	37	33	29	25	22	18	16	13	12
-50°	34	31	28	25	22	19	17	15	13	11	10
-52.5°	25	23	21	19	17	15	13	12	11	10	8
-55°	19	18	16	15	13	12	11	10	9	8	7
-57.5°	14	13	13	12	11	10	9	8	7	6	5
-60°	11	10	10	9	9	8	7	6	6	5	4
-62.5°	9	8	8	7	7	6	5	5	4	4	4
-65°	6	6	6	5	5	5	4	4	4	3	3
-67.5°	5	4	4	4	4	4	3	3	3	3	3
-70°	4	3	3	3	3	3	3	3	2	2	2
-72.5°	3	3	3	3	2	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	1	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: P220394 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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
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	1	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°	4	4	3	3	3	2	2	2	2	2	1
57.5°	5	4	4	3	3	3	2	2	2	2	1
55°	6	5	4	4	3	3	3	2	2	2	2
52.5°	7	6	5	4	4	3	3	2	2	2	2
50°	9	7	6	5	4	4	3	3	2	2	2
47.5°	10	9	7	6	5	4	3	3	2	2	2
45°	12	10	8	7	5	4	4	3	3	2	2
42.5°	13	11	10	8	6	5	4	3	3	2	2
40°	16	13	11	9	7	6	4	4	3	2	2
37.5°	18	15	12	10	8	6	5	4	3	3	2
35°	22	17	13	11	9	7	5	4	3	3	2
32.5°	25	19	15	12	10	8	6	5	4	3	2
30°	29	22	17	13	11	9	7	5	4	3	2
27.5°	33	25	19	15	12	9	7	5	4	3	3
25°	37	28	21	16	13	10	8	6	4	3	3
22.5°	41	31	23	18	13	10	8	6	4	3	3
20°	45	34	25	19	14	11	9	6	5	4	3
17.5°	49	37	28	20	15	12	9	7	5	4	3
15°	53	40	30	22	16	12	9	7	5	4	3
12.5°	57	42	31	23	17	13	10	7	5	4	3
10°	60	44	33	24	17	13	10	8	5	4	3
7.5°	62	46	34	25	18	13	10	8	5	4	3
5°	64	47	35	25	18	13	10	8	6	4	3
2.5°	65	48	35	26	18	14	10	8	6	4	3
0°	65	48	35	26	19	14	10	8	6	4	3
-2.5°	65	48	35	26	18	14	10	8	6	4	3
-5°	64	47	35	25	18	13	10	8	6	4	3
-7.5°	62	46	34	25	18	13	10	8	5	4	3
-10°	60	44	33	24	17	13	10	8	5	4	3
-12.5°	57	42	31	23	17	13	10	7	5	4	3
-15°	53	40	30	22	16	12	9	7	5	4	3
-17.5°	49	37	28	20	15	12	9	7	5	4	3
-20°	45	34	25	19	14	11	9	6	5	4	3



REPORT NUMBER: P220394 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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°	41	31	23	18	13	10	8	6	4	3	3
-25°	37	28	21	16	13	10	8	6	4	3	3
-27.5°	33	25	19	15	12	9	7	5	4	3	3
-30°	29	22	17	13	11	9	7	5	4	3	2
-32.5°	25	19	15	12	10	8	6	5	4	3	2
-35°	22	17	13	11	9	7	5	4	3	3	2
-37.5°	18	15	12	10	8	6	5	4	3	3	2
-40°	16	13	11	9	7	6	4	4	3	2	2
-42.5°	13	11	10	8	6	5	4	3	3	2	2
-45°	12	10	8	7	5	4	4	3	3	2	2
-47.5°	10	9	7	6	5	4	3	3	2	2	2
-50°	9	7	6	5	4	4	3	3	2	2	2
-52.5°	7	6	5	4	4	3	3	2	2	2	2
-55°	6	5	4	4	3	3	3	2	2	2	2
-57.5°	5	4	4	3	3	3	2	2	2	2	1
-60°	4	4	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	1	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: P220394 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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
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°	1	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	1	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	1	1	1	0	0
15°	2	2	1	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°	2	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	1	1	1	0	0
-17.5°	2	2	1	1	1	0	0
-20°	2	2	1	1	1	0	0



REPORT NUMBER: P220394 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-W-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	1	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°	1	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)