

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: P220395 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1002-[A1, P1, S1, SU1]-FL-LED3590-W-WT-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220395 (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-LED3590-W-WT-L1-UNV  
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS,  
WIDE FLOOD OPTIC, WHITE HOUSING.  
Light Source: (1) 3500K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

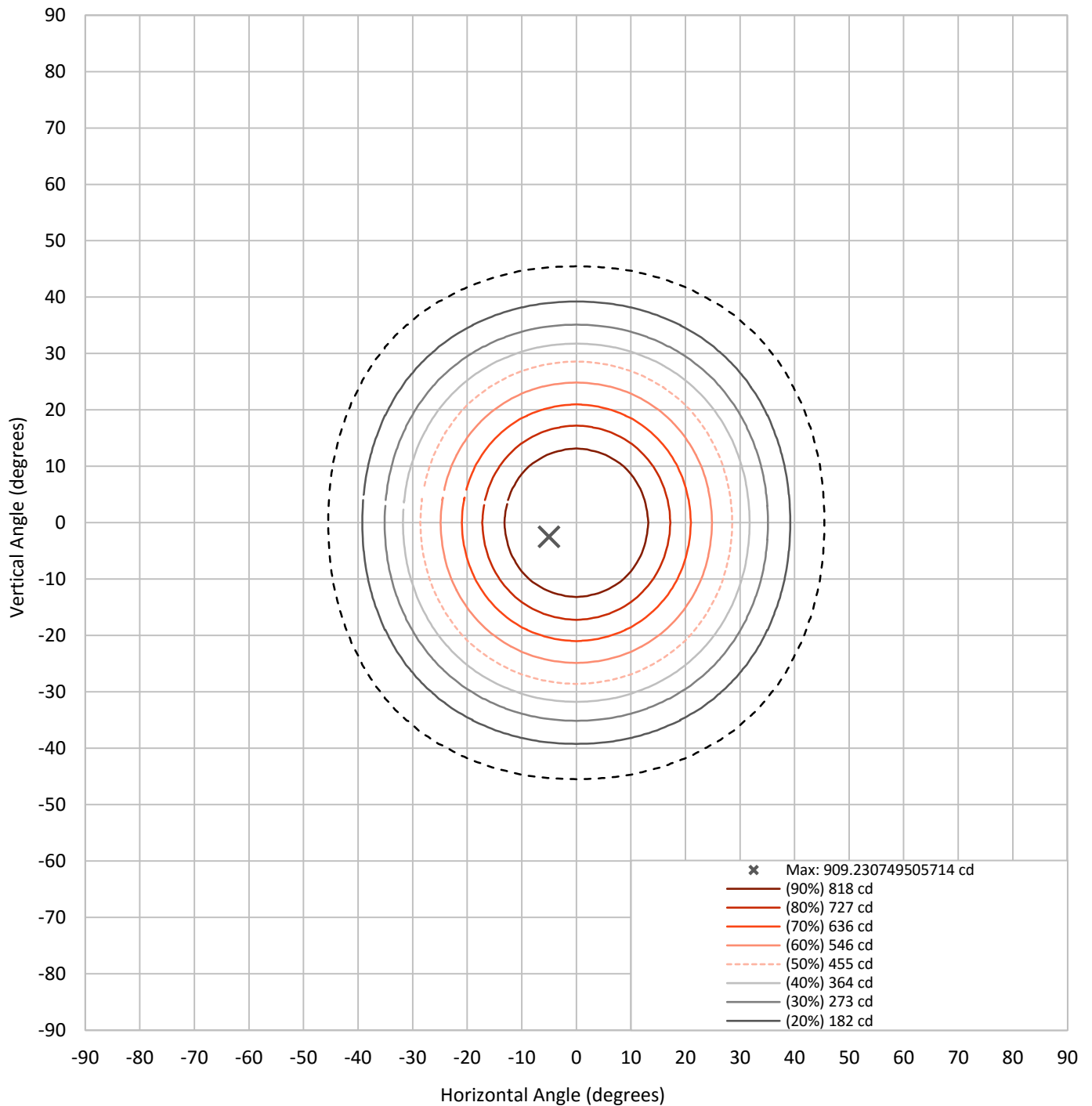
Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	838 lumens	Max Intensity:	909.2 candela
Efficiency:	N/A	Max Intensity Angle:	-5°H x -2.5°V
Efficacy:	83.8 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	57°H x 56.4°V	Field Angle (10%):	90.7°H x 90.4°V
Beam Lumens:	516 lumens	Field Lumens:	772.6 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-LED3590-W-WT-L1-UNV

### Iso-Candela Plot





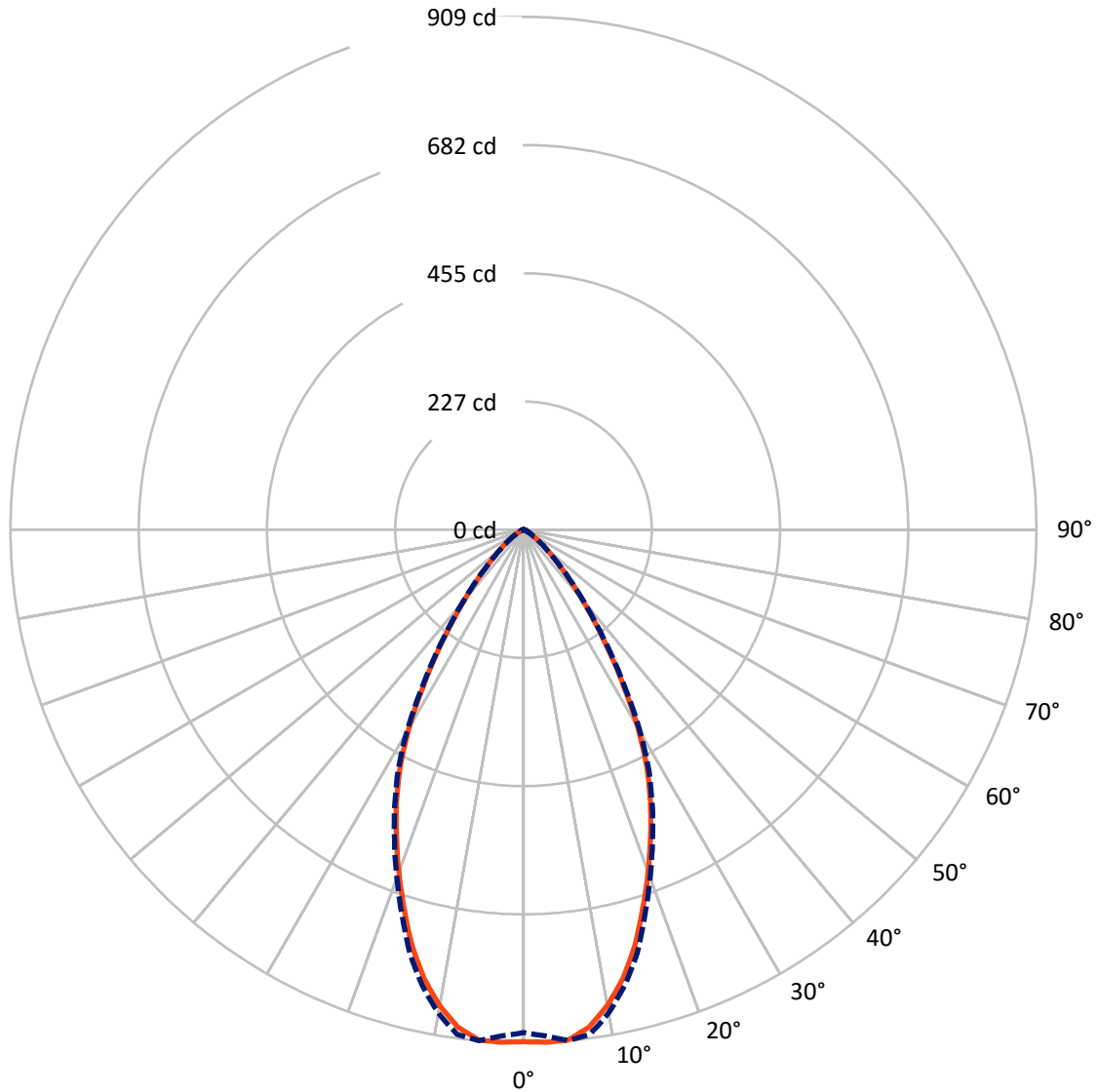
REPORT NUMBER: P220395 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-W-WT-L1-UNV

### 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	0.2	0.2	0.3	0.3	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	0.9	0.9	0.7	0.5	0.3	0.2	0.1	0.0				
40	0.0	0.0	0.1	0.3	0.8	1.5	2.3	2.9	2.9	2.3	1.5	0.8	0.3	0.1	0.0	0.0			
30		0.1	0.2	0.7	1.8	3.8	6.4	8.2	8.2	6.4	3.8	1.8	0.7	0.2	0.1				
20	0.0	0.1	0.3	1.2	3.5	7.8	12.9	15.9	15.9	12.9	7.8	3.5	1.2	0.3	0.1	0.0			
10		0.1	0.4	1.7	5.4	12.1	18.5	22.8	22.8	18.5	12.1	5.4	1.7	0.4	0.1				
0	0.1	0.1	0.5	2.1	6.8	14.5	22.1	26.9	26.9	22.1	14.5	6.8	2.1	0.5	0.1	0.1			
-10		0.1	0.5	2.1	6.8	14.5	22.1	26.9	26.9	22.1	14.5	6.8	2.1	0.5	0.1				
-20	0.0	0.1	0.4	1.7	5.4	12.1	18.5	22.8	22.8	18.5	12.1	5.4	1.7	0.4	0.1	0.0			
-30		0.1	0.3	1.2	3.5	7.8	12.9	15.9	15.9	12.9	7.8	3.5	1.2	0.3	0.1				
-40	0.0	0.1	0.2	0.7	1.8	3.8	6.4	8.2	8.2	6.4	3.8	1.8	0.7	0.2	0.1	0.0			
-50		0.0	0.1	0.3	0.8	1.5	2.3	2.9	2.9	2.3	1.5	0.8	0.3	0.1	0.0				
-60	0.0	0.0	0.1	0.2	0.3	0.5	0.7	0.9	0.9	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	0.3	0.3	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

REPORT NUMBER: P220395 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-W-WT-L1-UNV

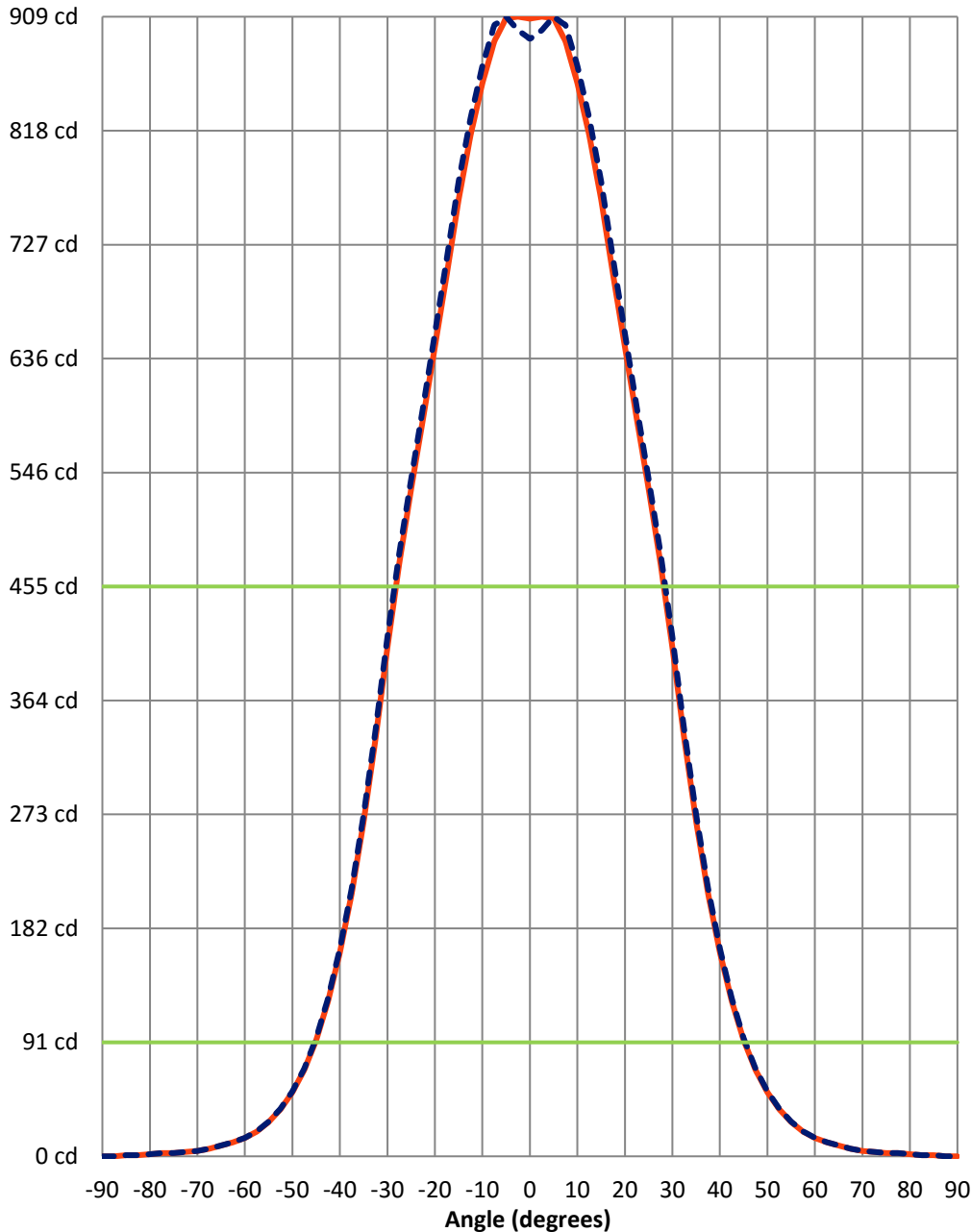
### Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-W-WT-L1-UNV

### Luminous Intensity Plot



**Beam:**  
 H Angle: 57°  
 V Angle: 56.4°  
 Lumens: 516  
 Efficiency: 61.6%

**Field:**  
 H Angle: 90.7°  
 V Angle: 90.4°  
 Lumens: 772.6  
 Efficiency: 92.2%

**Spill:**  
 Lumens: 65.4  
 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	1	1	1	1	1	2	2	3
55°	0	0	0	1	1	1	1	2	2	3	3
52.5°	0	0	0	1	1	1	1	2	2	3	3
50°	0	0	0	1	1	1	2	2	3	3	3
47.5°	0	0	0	1	1	1	2	2	3	3	3
45°	0	0	0	1	1	1	2	3	3	3	3
42.5°	0	0	0	1	1	1	2	3	3	3	4
40°	0	0	0	1	1	2	2	3	3	3	4
37.5°	0	0	1	1	1	2	2	3	3	4	4
35°	0	0	1	1	1	2	3	3	3	4	4
32.5°	0	0	1	1	1	2	3	3	3	4	5
30°	0	0	1	1	1	2	3	3	3	4	5
27.5°	0	0	1	1	1	2	3	3	4	4	6
25°	0	0	1	1	1	2	3	3	4	5	6
22.5°	0	0	1	1	1	2	3	3	4	5	7
20°	0	0	1	1	2	2	3	3	4	5	7
17.5°	0	0	1	1	2	2	3	3	4	5	7
15°	0	0	1	1	2	2	3	3	4	6	8
12.5°	0	0	1	1	2	2	3	3	4	6	8
10°	0	0	1	1	2	3	3	3	4	6	8
7.5°	0	0	1	1	2	3	3	3	4	6	8
5°	0	0	1	1	2	3	3	3	4	6	9
2.5°	0	0	1	1	2	3	3	3	4	6	9
0°	0	0	1	1	2	3	3	4	4	6	9
-2.5°	0	0	1	1	2	3	3	4	4	6	9
-5°	0	0	1	1	2	3	3	3	4	6	9
-7.5°	0	0	1	1	2	3	3	3	4	6	8
-10°	0	0	1	1	2	3	3	3	4	6	8
-12.5°	0	0	1	1	2	2	3	3	4	6	8
-15°	0	0	1	1	2	2	3	3	4	6	8
-17.5°	0	0	1	1	2	2	3	3	4	5	7
-20°	0	0	1	1	2	2	3	3	4	5	7



REPORT NUMBER: P220395 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-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	3	3	4	5	7
-25°	0	0	1	1	1	2	3	3	4	5	6
-27.5°	0	0	1	1	1	2	3	3	4	4	6
-30°	0	0	1	1	1	2	3	3	3	4	5
-32.5°	0	0	1	1	1	2	3	3	3	4	5
-35°	0	0	1	1	1	2	3	3	3	4	4
-37.5°	0	0	1	1	1	2	2	3	3	4	4
-40°	0	0	0	1	1	2	2	3	3	3	4
-42.5°	0	0	0	1	1	1	2	3	3	3	4
-45°	0	0	0	1	1	1	2	3	3	3	3
-47.5°	0	0	0	1	1	1	2	2	3	3	3
-50°	0	0	0	1	1	1	2	2	3	3	3
-52.5°	0	0	0	1	1	1	1	2	2	3	3
-55°	0	0	0	1	1	1	1	2	2	3	3
-57.5°	0	0	0	1	1	1	1	1	2	2	3
-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: P220395 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-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	1
82.5°	0	0	1	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	3	3	3	3
70°	1	2	2	2	2	3	3	3	3	3	3
67.5°	2	2	2	3	3	3	3	3	3	3	4
65°	2	2	3	3	3	3	3	3	4	4	4
62.5°	3	3	3	3	3	3	4	4	4	5	5
60°	3	3	3	3	4	4	4	5	5	6	7
57.5°	3	3	3	4	4	4	5	6	7	8	9
55°	3	3	4	4	5	5	6	8	9	10	11
52.5°	3	4	4	5	6	7	8	9	10	12	13
50°	3	4	4	5	7	8	9	11	12	14	16
47.5°	4	4	5	6	8	9	11	13	15	17	20
45°	4	5	6	8	9	11	13	15	18	21	25
42.5°	4	5	7	9	10	12	15	18	21	26	31
40°	5	6	8	10	12	14	17	21	26	32	38
37.5°	5	7	9	11	13	16	20	25	31	38	47
35°	6	8	10	12	15	18	23	29	37	46	56
32.5°	7	9	11	13	17	21	27	34	43	54	67
30°	7	9	12	14	19	24	31	40	50	64	79
27.5°	8	10	13	16	21	27	35	46	58	73	92
25°	8	11	14	18	23	30	40	51	66	85	107
22.5°	9	11	14	19	25	34	44	58	75	95	122
20°	9	12	15	20	27	37	49	64	84	108	138
17.5°	10	13	17	22	30	40	53	70	92	120	153
15°	10	13	17	24	32	43	57	76	100	130	167
12.5°	11	14	18	25	34	46	61	82	108	141	182
10°	11	14	19	26	35	48	65	86	115	150	194
7.5°	11	14	19	27	37	50	67	90	120	158	203
5°	11	15	20	27	38	51	69	93	124	163	210
2.5°	11	15	20	28	38	52	70	94	126	166	214
0°	11	15	20	28	38	52	70	95	127	167	215
-2.5°	11	15	20	28	38	52	70	94	126	166	214
-5°	11	15	20	27	38	51	69	93	124	163	210
-7.5°	11	14	19	27	37	50	67	90	120	158	203
-10°	11	14	19	26	35	48	65	86	115	150	194
-12.5°	11	14	18	25	34	46	61	82	108	141	182
-15°	10	13	17	24	32	43	57	76	100	130	167
-17.5°	10	13	17	22	30	40	53	70	92	120	153
-20°	9	12	15	20	27	37	49	64	84	108	138



REPORT NUMBER: P220395 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-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°	9	11	14	19	25	34	44	58	75	95	122
-25°	8	11	14	18	23	30	40	51	66	85	107
-27.5°	8	10	13	16	21	27	35	46	58	73	92
-30°	7	9	12	14	19	24	31	40	50	64	79
-32.5°	7	9	11	13	17	21	27	34	43	54	67
-35°	6	8	10	12	15	18	23	29	37	46	56
-37.5°	5	7	9	11	13	16	20	25	31	38	47
-40°	5	6	8	10	12	14	17	21	26	32	38
-42.5°	4	5	7	9	10	12	15	18	21	26	31
-45°	4	5	6	8	9	11	13	15	18	21	25
-47.5°	4	4	5	6	8	9	11	13	15	17	20
-50°	3	4	4	5	7	8	9	11	12	14	16
-52.5°	3	4	4	5	6	7	8	9	10	12	13
-55°	3	3	4	4	5	5	6	8	9	10	11
-57.5°	3	3	3	4	4	4	5	6	7	8	9
-60°	3	3	3	3	4	4	4	5	5	6	7
-62.5°	3	3	3	3	3	3	4	4	4	5	5
-65°	2	2	3	3	3	3	3	3	4	4	4
-67.5°	2	2	2	3	3	3	3	3	3	3	4
-70°	1	2	2	2	2	3	3	3	3	3	3
-72.5°	1	1	1	2	2	2	2	3	3	3	3
-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	1	1	1	1	1	1	1	1	1
-85°	0	0	0	0	0	0	0	0	0	0	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: P220395 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-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	2	2	2	2	2
77.5°	2	2	2	2	2	2	2	2	2	2	3
75°	3	3	3	3	3	3	3	3	3	3	3
72.5°	3	3	3	3	3	3	3	3	3	3	3
70°	3	3	3	4	4	4	4	4	4	4	4
67.5°	4	4	4	4	5	5	5	5	6	6	6
65°	4	5	5	6	6	7	7	7	8	8	8
62.5°	6	7	7	8	8	9	9	10	10	11	11
60°	8	9	9	10	11	11	12	13	13	14	14
57.5°	10	11	12	13	14	14	15	17	17	18	19
55°	12	13	14	16	18	19	20	22	24	25	26
52.5°	15	17	19	21	23	25	27	30	32	34	35
50°	18	21	24	27	30	34	37	40	43	46	48
47.5°	23	27	31	35	40	44	49	53	57	61	65
45°	29	34	40	46	51	58	64	70	76	82	86
42.5°	37	43	50	58	66	75	84	92	100	108	115
40°	46	54	64	73	85	95	108	120	130	141	150
37.5°	56	67	79	92	107	122	138	153	167	182	194
35°	68	82	97	115	134	154	173	194	212	230	246
32.5°	82	99	119	142	164	190	214	240	264	286	306
30°	97	119	144	170	200	231	262	293	323	349	373
27.5°	115	142	170	203	239	275	314	350	386	417	440
25°	134	164	200	239	281	325	369	411	446	477	501
22.5°	154	190	231	275	325	375	424	465	501	530	554
20°	173	214	262	314	369	424	471	512	547	578	606
17.5°	194	240	293	350	411	465	512	553	591	627	658
15°	212	264	323	386	446	501	547	591	634	673	709
12.5°	230	286	349	417	477	530	578	627	673	718	759
10°	246	306	373	440	501	554	606	658	709	759	801
7.5°	258	322	392	459	520	574	629	684	740	792	833
5°	267	333	406	473	532	588	646	704	763	815	856
2.5°	273	340	414	481	540	598	657	716	778	828	870
0°	275	342	417	484	543	601	660	721	783	833	875
-2.5°	273	340	414	481	540	598	657	716	778	828	870
-5°	267	333	406	473	532	588	646	704	763	815	856
-7.5°	258	322	392	459	520	574	629	684	740	792	833
-10°	246	306	373	440	501	554	606	658	709	759	801
-12.5°	230	286	349	417	477	530	578	627	673	718	759
-15°	212	264	323	386	446	501	547	591	634	673	709
-17.5°	194	240	293	350	411	465	512	553	591	627	658
-20°	173	214	262	314	369	424	471	512	547	578	606



REPORT NUMBER: P220395 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-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°	154	190	231	275	325	375	424	465	501	530	554
-25°	134	164	200	239	281	325	369	411	446	477	501
-27.5°	115	142	170	203	239	275	314	350	386	417	440
-30°	97	119	144	170	200	231	262	293	323	349	373
-32.5°	82	99	119	142	164	190	214	240	264	286	306
-35°	68	82	97	115	134	154	173	194	212	230	246
-37.5°	56	67	79	92	107	122	138	153	167	182	194
-40°	46	54	64	73	85	95	108	120	130	141	150
-42.5°	37	43	50	58	66	75	84	92	100	108	115
-45°	29	34	40	46	51	58	64	70	76	82	86
-47.5°	23	27	31	35	40	44	49	53	57	61	65
-50°	18	21	24	27	30	34	37	40	43	46	48
-52.5°	15	17	19	21	23	25	27	30	32	34	35
-55°	12	13	14	16	18	19	20	22	24	25	26
-57.5°	10	11	12	13	14	14	15	17	17	18	19
-60°	8	9	9	10	11	11	12	13	13	14	14
-62.5°	6	7	7	8	8	9	9	10	10	11	11
-65°	4	5	5	6	6	7	7	7	8	8	8
-67.5°	4	4	4	4	5	5	5	5	6	6	6
-70°	3	3	3	4	4	4	4	4	4	4	4
-72.5°	3	3	3	3	3	3	3	3	3	3	3
-75°	3	3	3	3	3	3	3	3	3	3	3
-77.5°	2	2	2	2	2	2	2	2	2	2	3
-80°	1	1	1	1	1	1	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: P220395 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-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	2	2
77.5°	3	3	3	3	3	3	3	3	2	2	2
75°	3	3	3	3	3	3	3	3	3	3	3
72.5°	3	3	3	4	3	3	3	3	3	3	3
70°	4	4	4	4	4	4	4	4	4	4	4
67.5°	6	6	6	6	6	6	6	6	6	6	5
65°	8	9	9	9	9	9	8	8	8	8	7
62.5°	11	11	11	11	11	11	11	11	11	10	10
60°	14	15	15	15	15	15	14	14	14	13	13
57.5°	19	20	20	20	20	20	19	19	18	17	17
55°	27	27	28	28	28	27	27	26	25	24	22
52.5°	37	38	38	38	38	38	37	35	34	32	30
50°	50	51	52	52	52	51	50	48	46	43	40
47.5°	67	69	70	70	70	69	67	65	61	57	53
45°	90	93	94	95	94	93	90	86	82	76	70
42.5°	120	124	126	127	126	124	120	115	108	100	92
40°	158	163	166	167	166	163	158	150	141	130	120
37.5°	203	210	214	215	214	210	203	194	182	167	153
35°	258	267	273	275	273	267	258	246	230	212	194
32.5°	322	333	340	342	340	333	322	306	286	264	240
30°	392	406	414	417	414	406	392	373	349	323	293
27.5°	459	473	481	484	481	473	459	440	417	386	350
25°	520	532	540	543	540	532	520	501	477	446	411
22.5°	574	588	598	601	598	588	574	554	530	501	465
20°	629	646	657	660	657	646	629	606	578	547	512
17.5°	684	704	716	721	716	704	684	658	627	591	553
15°	740	763	778	783	778	763	740	709	673	634	591
12.5°	792	815	828	833	828	815	792	759	718	673	627
10°	833	856	870	875	870	856	833	801	759	709	658
7.5°	865	889	902	905	902	889	865	833	792	740	684
5°	889	908	909	908	909	908	889	856	815	763	704
2.5°	902	909	898	892	898	909	902	870	828	778	716
0°	905	908	892	891	892	908	905	875	833	783	721
-2.5°	902	909	898	892	898	909	902	870	828	778	716
-5°	889	908	909	908	909	908	889	856	815	763	704
-7.5°	865	889	902	905	902	889	865	833	792	740	684
-10°	833	856	870	875	870	856	833	801	759	709	658
-12.5°	792	815	828	833	828	815	792	759	718	673	627
-15°	740	763	778	783	778	763	740	709	673	634	591
-17.5°	684	704	716	721	716	704	684	658	627	591	553
-20°	629	646	657	660	657	646	629	606	578	547	512



REPORT NUMBER: P220395 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-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°	574	588	598	601	598	588	574	554	530	501	465
-25°	520	532	540	543	540	532	520	501	477	446	411
-27.5°	459	473	481	484	481	473	459	440	417	386	350
-30°	392	406	414	417	414	406	392	373	349	323	293
-32.5°	322	333	340	342	340	333	322	306	286	264	240
-35°	258	267	273	275	273	267	258	246	230	212	194
-37.5°	203	210	214	215	214	210	203	194	182	167	153
-40°	158	163	166	167	166	163	158	150	141	130	120
-42.5°	120	124	126	127	126	124	120	115	108	100	92
-45°	90	93	94	95	94	93	90	86	82	76	70
-47.5°	67	69	70	70	70	69	67	65	61	57	53
-50°	50	51	52	52	52	51	50	48	46	43	40
-52.5°	37	38	38	38	38	38	37	35	34	32	30
-55°	27	27	28	28	28	27	27	26	25	24	22
-57.5°	19	20	20	20	20	20	19	19	18	17	17
-60°	14	15	15	15	15	15	14	14	14	13	13
-62.5°	11	11	11	11	11	11	11	11	11	10	10
-65°	8	9	9	9	9	9	8	8	8	8	7
-67.5°	6	6	6	6	6	6	6	6	6	6	5
-70°	4	4	4	4	4	4	4	4	4	4	4
-72.5°	3	3	3	4	3	3	3	3	3	3	3
-75°	3	3	3	3	3	3	3	3	3	3	3
-77.5°	3	3	3	3	3	3	3	3	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: P220395 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-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	1	0	0	0
82.5°	1	1	1	1	1	1	1	1	1	1	1
80°	2	1	1	1	1	1	1	1	1	1	1
77.5°	2	2	2	2	2	2	2	2	2	1	1
75°	3	3	3	3	3	3	3	2	2	2	2
72.5°	3	3	3	3	3	3	3	3	3	3	3
70°	4	4	4	4	3	3	3	3	3	3	3
67.5°	5	5	5	4	4	4	4	4	3	3	3
65°	7	7	6	6	5	5	4	4	4	4	3
62.5°	9	9	8	8	7	7	6	5	5	4	4
60°	12	11	11	10	9	9	8	7	6	5	5
57.5°	15	14	14	13	12	11	10	9	8	7	6
55°	20	19	18	16	14	13	12	11	10	9	8
52.5°	27	25	23	21	19	17	15	13	12	10	9
50°	37	34	30	27	24	21	18	16	14	12	11
47.5°	49	44	40	35	31	27	23	20	17	15	13
45°	64	58	51	46	40	34	29	25	21	18	15
42.5°	84	75	66	58	50	43	37	31	26	21	18
40°	108	95	85	73	64	54	46	38	32	26	21
37.5°	138	122	107	92	79	67	56	47	38	31	25
35°	173	154	134	115	97	82	68	56	46	37	29
32.5°	214	190	164	142	119	99	82	67	54	43	34
30°	262	231	200	170	144	119	97	79	64	50	40
27.5°	314	275	239	203	170	142	115	92	73	58	46
25°	369	325	281	239	200	164	134	107	85	66	51
22.5°	424	375	325	275	231	190	154	122	95	75	58
20°	471	424	369	314	262	214	173	138	108	84	64
17.5°	512	465	411	350	293	240	194	153	120	92	70
15°	547	501	446	386	323	264	212	167	130	100	76
12.5°	578	530	477	417	349	286	230	182	141	108	82
10°	606	554	501	440	373	306	246	194	150	115	86
7.5°	629	574	520	459	392	322	258	203	158	120	90
5°	646	588	532	473	406	333	267	210	163	124	93
2.5°	657	598	540	481	414	340	273	214	166	126	94
0°	660	601	543	484	417	342	275	215	167	127	95
-2.5°	657	598	540	481	414	340	273	214	166	126	94
-5°	646	588	532	473	406	333	267	210	163	124	93
-7.5°	629	574	520	459	392	322	258	203	158	120	90
-10°	606	554	501	440	373	306	246	194	150	115	86
-12.5°	578	530	477	417	349	286	230	182	141	108	82
-15°	547	501	446	386	323	264	212	167	130	100	76
-17.5°	512	465	411	350	293	240	194	153	120	92	70
-20°	471	424	369	314	262	214	173	138	108	84	64



REPORT NUMBER: P220395 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-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°	424	375	325	275	231	190	154	122	95	75	58
-25°	369	325	281	239	200	164	134	107	85	66	51
-27.5°	314	275	239	203	170	142	115	92	73	58	46
-30°	262	231	200	170	144	119	97	79	64	50	40
-32.5°	214	190	164	142	119	99	82	67	54	43	34
-35°	173	154	134	115	97	82	68	56	46	37	29
-37.5°	138	122	107	92	79	67	56	47	38	31	25
-40°	108	95	85	73	64	54	46	38	32	26	21
-42.5°	84	75	66	58	50	43	37	31	26	21	18
-45°	64	58	51	46	40	34	29	25	21	18	15
-47.5°	49	44	40	35	31	27	23	20	17	15	13
-50°	37	34	30	27	24	21	18	16	14	12	11
-52.5°	27	25	23	21	19	17	15	13	12	10	9
-55°	20	19	18	16	14	13	12	11	10	9	8
-57.5°	15	14	14	13	12	11	10	9	8	7	6
-60°	12	11	11	10	9	9	8	7	6	5	5
-62.5°	9	9	8	8	7	7	6	5	5	4	4
-65°	7	7	6	6	5	5	4	4	4	4	3
-67.5°	5	5	5	4	4	4	4	4	3	3	3
-70°	4	4	4	4	3	3	3	3	3	3	3
-72.5°	3	3	3	3	3	3	3	3	3	3	3
-75°	3	3	3	3	3	3	3	2	2	2	2
-77.5°	2	2	2	2	2	2	2	2	2	1	1
-80°	2	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	1	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: P220395 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-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	1	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°	3	3	2	2	2	2	1	1	1	1	1
67.5°	3	3	3	3	2	2	2	1	1	1	1
65°	3	3	3	3	3	2	2	2	1	1	1
62.5°	4	3	3	3	3	3	3	2	2	1	1
60°	4	4	4	3	3	3	3	2	2	2	1
57.5°	5	4	4	4	3	3	3	3	2	2	1
55°	6	5	5	4	4	3	3	3	3	2	2
52.5°	8	7	6	5	4	4	3	3	3	2	2
50°	9	8	7	5	4	4	3	3	3	3	2
47.5°	11	9	8	6	5	4	4	3	3	3	2
45°	13	11	9	8	6	5	4	3	3	3	3
42.5°	15	12	10	9	7	5	4	4	3	3	3
40°	17	14	12	10	8	6	5	4	3	3	3
37.5°	20	16	13	11	9	7	5	4	4	3	3
35°	23	18	15	12	10	8	6	4	4	3	3
32.5°	27	21	17	13	11	9	7	5	4	3	3
30°	31	24	19	14	12	9	7	5	4	3	3
27.5°	35	27	21	16	13	10	8	6	4	4	3
25°	40	30	23	18	14	11	8	6	5	4	3
22.5°	44	34	25	19	14	11	9	7	5	4	3
20°	49	37	27	20	15	12	9	7	5	4	3
17.5°	53	40	30	22	17	13	10	7	5	4	3
15°	57	43	32	24	17	13	10	8	6	4	3
12.5°	61	46	34	25	18	14	11	8	6	4	3
10°	65	48	35	26	19	14	11	8	6	4	3
7.5°	67	50	37	27	19	14	11	8	6	4	3
5°	69	51	38	27	20	15	11	9	6	4	3
2.5°	70	52	38	28	20	15	11	9	6	4	3
0°	70	52	38	28	20	15	11	9	6	4	4
-2.5°	70	52	38	28	20	15	11	9	6	4	3
-5°	69	51	38	27	20	15	11	9	6	4	3
-7.5°	67	50	37	27	19	14	11	8	6	4	3
-10°	65	48	35	26	19	14	11	8	6	4	3
-12.5°	61	46	34	25	18	14	11	8	6	4	3
-15°	57	43	32	24	17	13	10	8	6	4	3
-17.5°	53	40	30	22	17	13	10	7	5	4	3
-20°	49	37	27	20	15	12	9	7	5	4	3



REPORT NUMBER: P220395 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-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°	44	34	25	19	14	11	9	7	5	4	3
-25°	40	30	23	18	14	11	8	6	5	4	3
-27.5°	35	27	21	16	13	10	8	6	4	4	3
-30°	31	24	19	14	12	9	7	5	4	3	3
-32.5°	27	21	17	13	11	9	7	5	4	3	3
-35°	23	18	15	12	10	8	6	4	4	3	3
-37.5°	20	16	13	11	9	7	5	4	4	3	3
-40°	17	14	12	10	8	6	5	4	3	3	3
-42.5°	15	12	10	9	7	5	4	4	3	3	3
-45°	13	11	9	8	6	5	4	3	3	3	3
-47.5°	11	9	8	6	5	4	4	3	3	3	2
-50°	9	8	7	5	4	4	3	3	3	3	2
-52.5°	8	7	6	5	4	4	3	3	3	2	2
-55°	6	5	5	4	4	3	3	3	3	2	2
-57.5°	5	4	4	4	3	3	3	3	2	2	1
-60°	4	4	4	3	3	3	3	2	2	2	1
-62.5°	4	3	3	3	3	3	3	2	2	1	1
-65°	3	3	3	3	3	2	2	2	1	1	1
-67.5°	3	3	3	3	2	2	2	1	1	1	1
-70°	3	3	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	1	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: P220395 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-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	1	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	1	0	0
35°	3	2	1	1	1	0	0
32.5°	3	2	1	1	1	0	0
30°	3	2	1	1	1	0	0
27.5°	3	2	1	1	1	0	0
25°	3	2	1	1	1	0	0
22.5°	3	2	1	1	1	0	0
20°	3	2	2	1	1	0	0
17.5°	3	2	2	1	1	0	0
15°	3	2	2	1	1	0	0
12.5°	3	2	2	1	1	0	0
10°	3	3	2	1	1	0	0
7.5°	3	3	2	1	1	0	0
5°	3	3	2	1	1	0	0
2.5°	3	3	2	1	1	0	0
0°	3	3	2	1	1	0	0
-2.5°	3	3	2	1	1	0	0
-5°	3	3	2	1	1	0	0
-7.5°	3	3	2	1	1	0	0
-10°	3	3	2	1	1	0	0
-12.5°	3	2	2	1	1	0	0
-15°	3	2	2	1	1	0	0
-17.5°	3	2	2	1	1	0	0
-20°	3	2	2	1	1	0	0



REPORT NUMBER: P220395 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-W-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	3	2	1	1	1	0	0
-25°	3	2	1	1	1	0	0
-27.5°	3	2	1	1	1	0	0
-30°	3	2	1	1	1	0	0
-32.5°	3	2	1	1	1	0	0
-35°	3	2	1	1	1	0	0
-37.5°	2	2	1	1	1	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	1	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)