

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: P220427 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220427 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29424)  
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-BK-L1-UNV  
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS,  
WIDE FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 3500K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

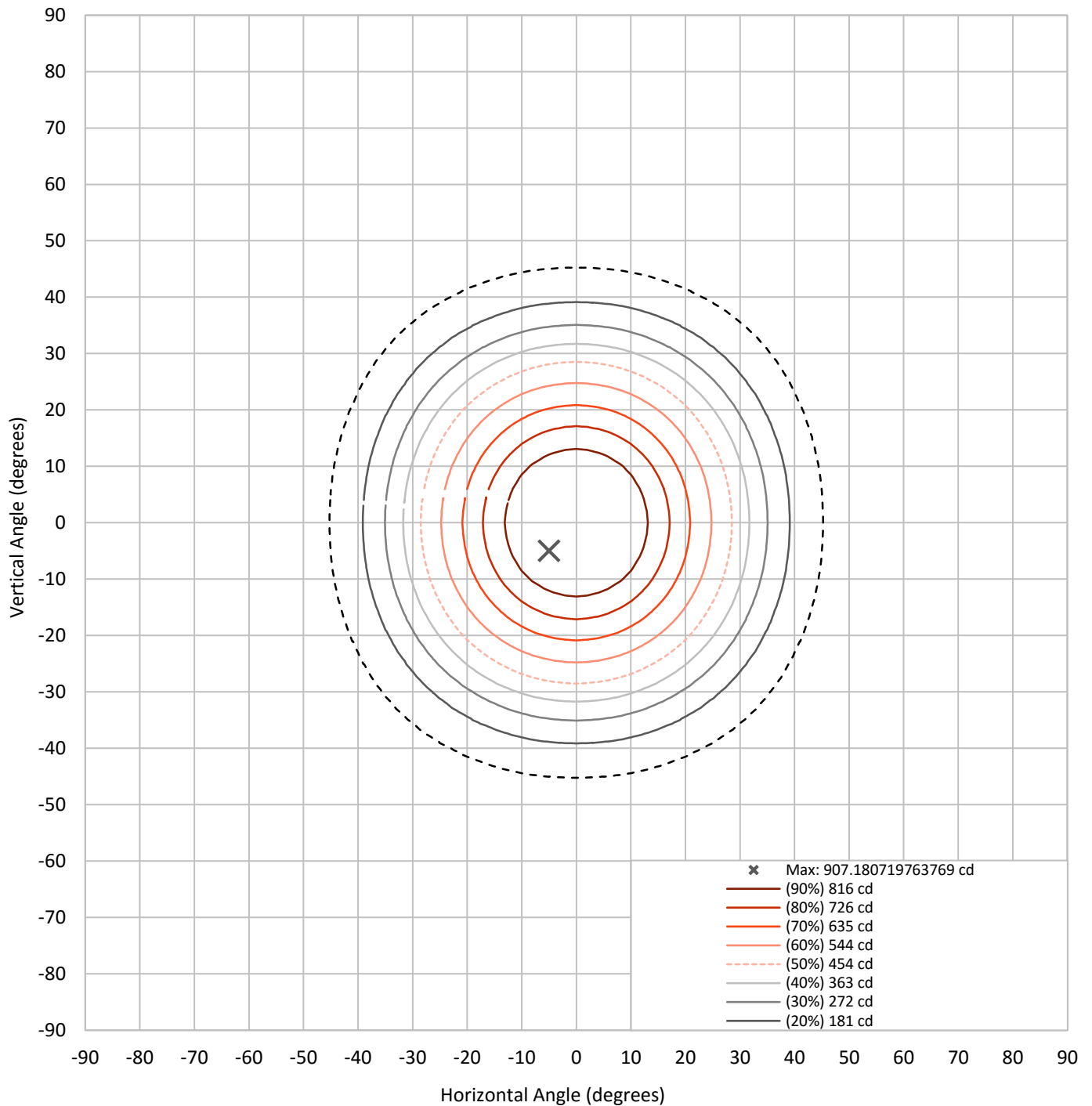
Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	821.7 lumens	Max Intensity:	907.2 candela
Efficiency:	N/A	Max Intensity Angle:	-5°H x -5°V
Efficacy:	82.2 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	56.2°H x 56.2°V	Field Angle (10%):	89.9°H x 89.9°V
Beam Lumens:	506.9 lumens	Field Lumens:	766.2 lumens
Beam Efficiency:	61.7%	Field Efficiency:	93.3%
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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### Iso-Candela Plot





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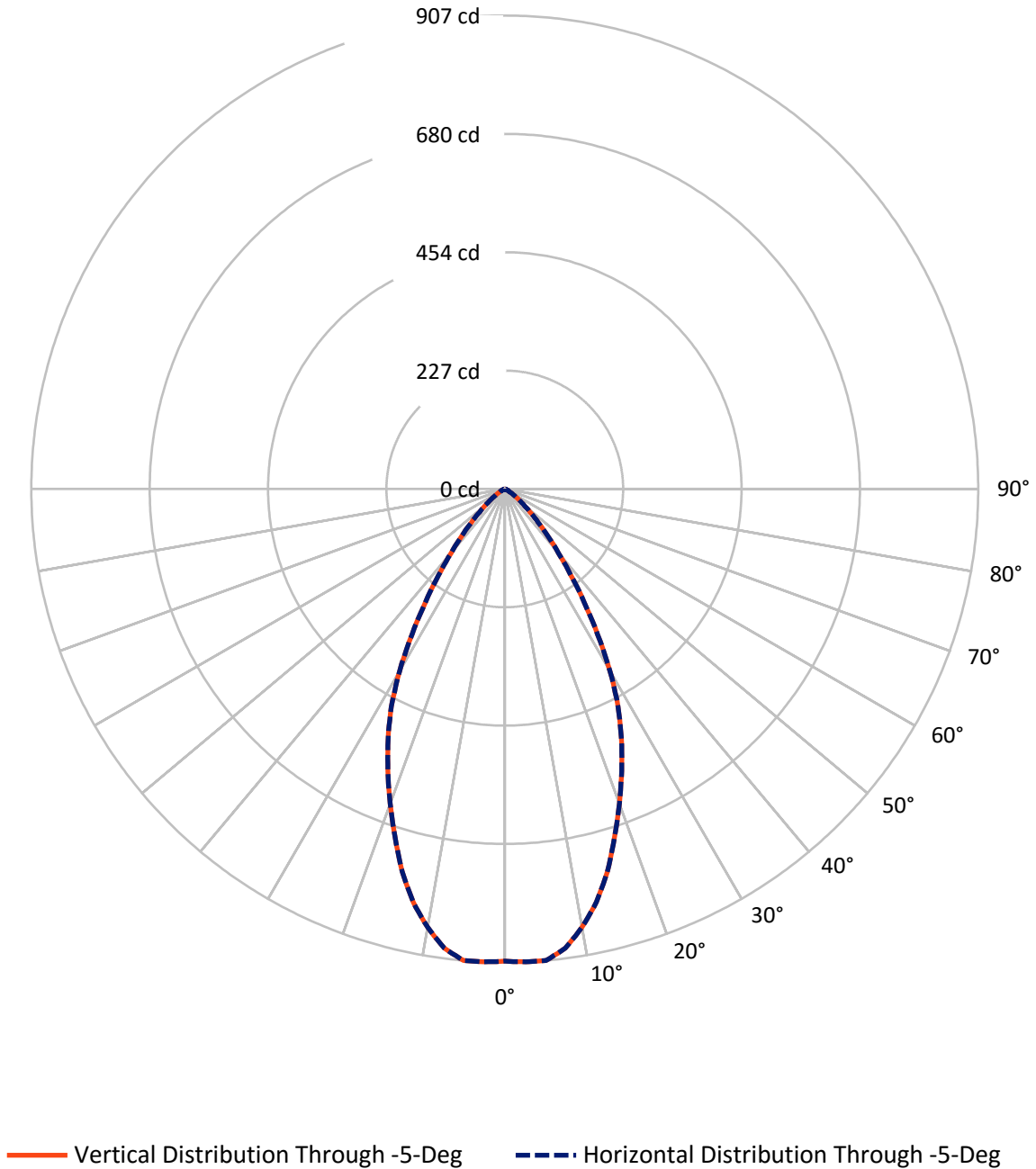
### Lumen Table

90	0.0															
80	0.0															
70	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0
60		0.0	0.0	0.1	0.2	0.4	0.6	0.8	0.8	0.6	0.4	0.2	0.1	0.0	0.0	
50	0.0	0.0	0.1	0.3	0.7	1.4	2.3	2.9	2.9	2.3	1.4	0.7	0.3	0.1	0.0	0.0
40		0.0	0.2	0.6	1.7	3.7	6.3	8.1	8.1	6.3	3.7	1.7	0.6	0.2	0.0	
30	0.0	0.0	0.3	1.1	3.4	7.8	12.8	15.8	15.8	12.8	7.8	3.4	1.1	0.3	0.0	0.0
20		0.1	0.4	1.7	5.4	12.1	18.4	22.7	22.7	18.4	12.1	5.4	1.7	0.4	0.1	
10	0.0	0.1	0.5	2.1	6.8	14.5	22.0	26.8	26.8	22.0	14.5	6.8	2.1	0.5	0.1	0.0
0		0.1	0.5	2.1	6.8	14.5	22.0	26.8	26.8	22.0	14.5	6.8	2.1	0.5	0.1	
-10	0.0	0.1	0.4	1.7	5.4	12.1	18.4	22.7	22.7	18.4	12.1	5.4	1.7	0.4	0.1	0.0
-20		0.0	0.3	1.1	3.4	7.8	12.8	15.8	15.8	12.8	7.8	3.4	1.1	0.3	0.0	
-30	0.0	0.0	0.2	0.6	1.7	3.7	6.3	8.1	8.1	6.3	3.7	1.7	0.6	0.2	0.0	0.0
-40		0.0	0.1	0.3	0.7	1.4	2.3	2.9	2.9	2.3	1.4	0.7	0.3	0.1	0.0	
-50	0.0	0.0	0.0	0.1	0.2	0.4	0.6	0.8	0.8	0.6	0.4	0.2	0.1	0.0	0.0	0.0
-60		0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	
-70	0.0															
-80	0.0															
-90	0.0															

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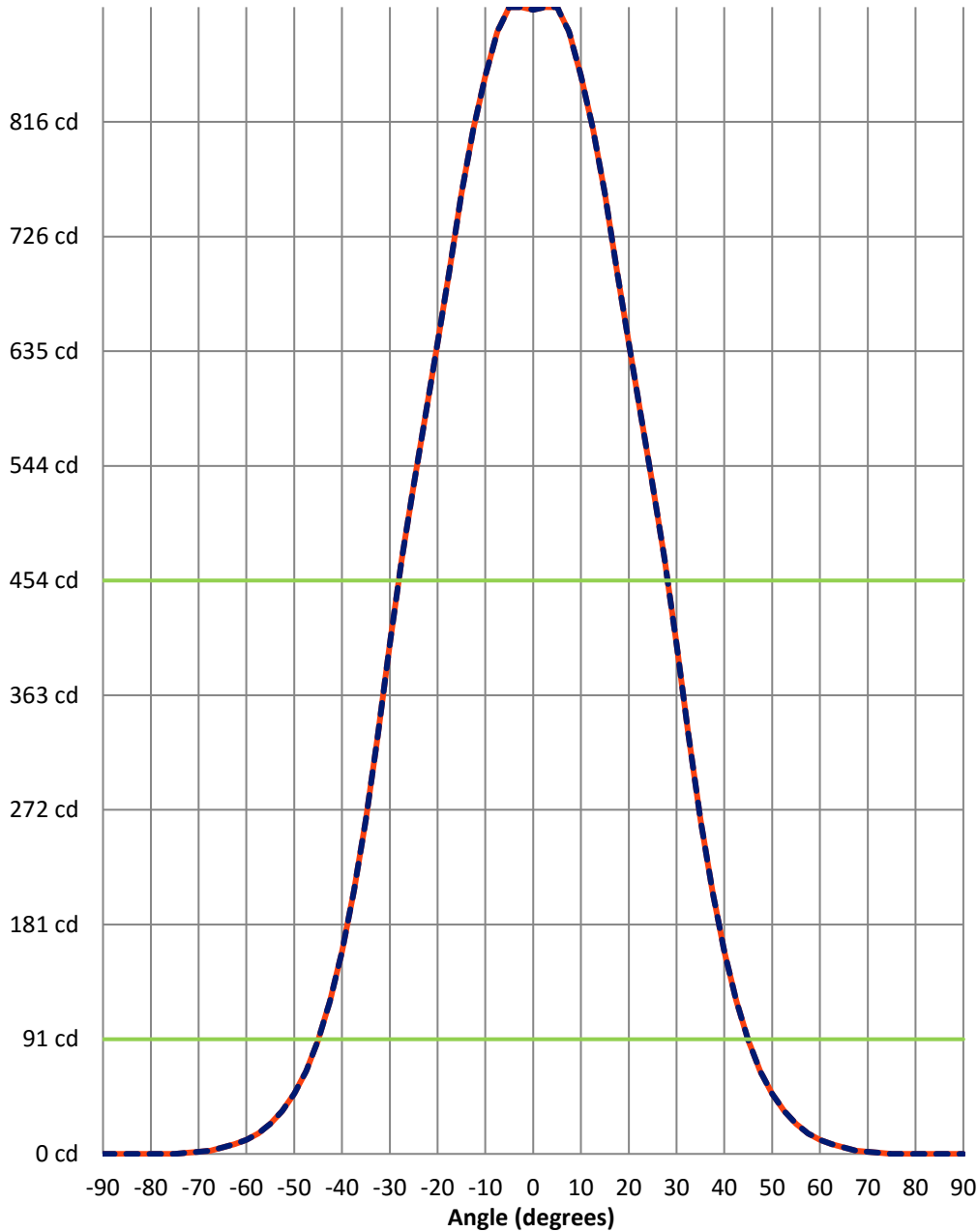
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-W-BK-L1-UNV

### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 56.2°  
 V Angle: 56.2°  
 Lumens: 506.9  
 Efficiency: 61.7%

**Field:**  
 H Angle: 89.9°  
 V Angle: 89.9°  
 Lumens: 766.2  
 Efficiency: 93.3%

**Spill:**  
 Lumens: 55.5  
 Efficiency: 6.7%

- Vertical Distribution through -5-Deg
- - - Horizontal Distribution through -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	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	1
45°	0	0	0	0	0	0	0	0	0	0	1
42.5°	0	0	0	0	0	0	0	0	0	0	1
40°	0	0	0	0	0	0	0	0	0	1	1
37.5°	0	0	0	0	0	0	0	0	0	1	2
35°	0	0	0	0	0	0	0	0	0	1	2
32.5°	0	0	0	0	0	0	0	0	1	1	2
30°	0	0	0	0	0	0	0	0	1	1	2
27.5°	0	0	0	0	0	0	0	0	1	2	2
25°	0	0	0	0	0	0	0	0	1	2	3
22.5°	0	0	0	0	0	0	0	0	1	2	3
20°	0	0	0	0	0	0	0	1	1	2	4
17.5°	0	0	0	0	0	0	0	1	1	2	4
15°	0	0	0	0	0	0	0	1	1	2	4
12.5°	0	0	0	0	0	0	0	1	2	2	5
10°	0	0	0	0	0	0	0	1	2	2	5
7.5°	0	0	0	0	0	0	0	1	2	3	5
5°	0	0	0	0	0	0	0	1	2	3	5
2.5°	0	0	0	0	0	0	0	1	2	3	5
0°	0	0	0	0	0	0	0	1	2	3	5
-2.5°	0	0	0	0	0	0	0	1	2	3	5
-5°	0	0	0	0	0	0	0	1	2	3	5
-7.5°	0	0	0	0	0	0	0	1	2	3	5
-10°	0	0	0	0	0	0	0	1	2	2	5
-12.5°	0	0	0	0	0	0	0	1	2	2	5
-15°	0	0	0	0	0	0	0	1	1	2	4
-17.5°	0	0	0	0	0	0	0	1	1	2	4
-20°	0	0	0	0	0	0	0	1	1	2	4



REPORT NUMBER: P220427 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-W-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	1	2	3
-25°	0	0	0	0	0	0	0	0	1	2	3
-27.5°	0	0	0	0	0	0	0	0	1	2	2
-30°	0	0	0	0	0	0	0	0	1	1	2
-32.5°	0	0	0	0	0	0	0	0	1	1	2
-35°	0	0	0	0	0	0	0	0	0	1	2
-37.5°	0	0	0	0	0	0	0	0	0	1	2
-40°	0	0	0	0	0	0	0	0	0	1	1
-42.5°	0	0	0	0	0	0	0	0	0	0	1
-45°	0	0	0	0	0	0	0	0	0	0	1
-47.5°	0	0	0	0	0	0	0	0	0	0	1
-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: P220427 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-W-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	1	1
65°	0	0	0	0	0	0	1	1	1	1	2
62.5°	0	0	0	0	0	1	1	1	2	2	2
60°	0	0	0	1	1	1	2	2	2	3	4
57.5°	0	0	1	1	1	2	2	3	3	4	5
55°	0	1	1	1	2	2	3	4	5	6	7
52.5°	0	1	1	2	2	3	4	6	7	8	10
50°	1	1	2	2	3	5	6	7	9	11	13
47.5°	1	2	2	3	4	6	7	9	11	14	16
45°	1	2	3	4	6	7	9	11	14	17	22
42.5°	2	2	3	5	7	9	11	14	18	22	28
40°	2	3	4	6	8	11	14	17	22	28	34
37.5°	2	4	5	7	10	13	16	22	28	34	43
35°	3	4	6	9	11	15	20	26	33	42	52
32.5°	3	5	7	10	13	18	23	31	40	50	63
30°	4	6	8	11	15	21	28	36	47	60	76
27.5°	4	7	9	13	17	24	32	42	55	70	89
25°	5	7	10	14	20	27	36	48	63	82	105
22.5°	5	8	11	15	22	30	41	54	71	93	120
20°	6	9	12	17	24	33	45	61	81	105	135
17.5°	6	9	13	19	26	36	49	66	89	117	151
15°	7	10	14	20	29	40	54	73	97	128	165
12.5°	7	10	15	21	30	42	58	79	105	139	179
10°	7	11	15	22	32	45	61	83	112	148	192
7.5°	8	11	16	23	33	46	64	87	117	155	201
5°	8	11	16	24	34	48	65	90	121	160	208
2.5°	8	11	16	24	35	48	67	92	123	163	212
0°	8	11	17	24	35	49	67	92	124	164	214
-2.5°	8	11	16	24	35	48	67	92	123	163	212
-5°	8	11	16	24	34	48	65	90	121	160	208
-7.5°	8	11	16	23	33	46	64	87	117	155	201
-10°	7	11	15	22	32	45	61	83	112	148	192
-12.5°	7	10	15	21	30	42	58	79	105	139	179
-15°	7	10	14	20	29	40	54	73	97	128	165
-17.5°	6	9	13	19	26	36	49	66	89	117	151
-20°	6	9	12	17	24	33	45	61	81	105	135



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-W-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°	5	8	11	15	22	30	41	54	71	93	120
-25°	5	7	10	14	20	27	36	48	63	82	105
-27.5°	4	7	9	13	17	24	32	42	55	70	89
-30°	4	6	8	11	15	21	28	36	47	60	76
-32.5°	3	5	7	10	13	18	23	31	40	50	63
-35°	3	4	6	9	11	15	20	26	33	42	52
-37.5°	2	4	5	7	10	13	16	22	28	34	43
-40°	2	3	4	6	8	11	14	17	22	28	34
-42.5°	2	2	3	5	7	9	11	14	18	22	28
-45°	1	2	3	4	6	7	9	11	14	17	22
-47.5°	1	2	2	3	4	6	7	9	11	14	16
-50°	1	1	2	2	3	5	6	7	9	11	13
-52.5°	0	1	1	2	2	3	4	6	7	8	10
-55°	0	1	1	1	2	2	3	4	5	6	7
-57.5°	0	0	1	1	1	2	2	3	3	4	5
-60°	0	0	0	1	1	1	2	2	2	3	4
-62.5°	0	0	0	0	0	1	1	1	2	2	2
-65°	0	0	0	0	0	0	1	1	1	1	2
-67.5°	0	0	0	0	0	0	0	0	0	1	1
-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



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-W-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	1	1	1	1	1
70°	0	1	1	1	1	1	1	1	1	2	2
67.5°	1	1	1	2	2	2	2	2	2	2	2
65°	2	2	2	2	3	3	4	4	4	5	5
62.5°	3	3	4	4	5	5	6	6	7	7	7
60°	4	5	6	7	7	8	9	9	10	10	11
57.5°	6	7	8	9	10	11	12	13	14	15	15
55°	9	10	11	13	14	15	17	19	20	21	22
52.5°	11	13	15	17	20	22	24	26	29	30	32
50°	15	18	21	24	27	30	33	36	40	42	45
47.5°	20	23	28	32	36	41	45	49	54	58	61
45°	26	31	36	42	48	54	61	66	73	79	83
42.5°	33	40	47	55	63	71	81	89	97	105	112
40°	42	50	60	70	82	93	105	117	128	139	148
37.5°	52	63	76	89	105	120	135	151	165	179	192
35°	64	79	94	113	131	151	171	191	210	228	243
32.5°	79	96	117	139	162	188	212	238	261	284	304
30°	94	117	142	168	198	229	260	291	321	347	371
27.5°	113	139	168	202	237	273	312	349	384	414	439
25°	131	162	198	237	278	323	367	409	445	474	498
22.5°	151	188	229	273	323	373	421	462	498	526	551
20°	171	212	260	312	367	421	468	509	544	575	603
17.5°	191	238	291	349	409	462	509	550	588	623	653
15°	210	261	321	384	445	498	544	588	630	669	705
12.5°	228	284	347	414	474	526	575	623	669	714	756
10°	243	304	371	439	498	551	603	653	705	756	798
7.5°	256	320	390	457	516	571	625	679	736	788	830
5°	265	331	403	470	529	585	642	699	760	811	853
2.5°	270	338	412	478	537	594	652	712	774	825	868
0°	272	341	414	481	539	597	655	716	778	830	873
-2.5°	270	338	412	478	537	594	652	712	774	825	868
-5°	265	331	403	470	529	585	642	699	760	811	853
-7.5°	256	320	390	457	516	571	625	679	736	788	830
-10°	243	304	371	439	498	551	603	653	705	756	798
-12.5°	228	284	347	414	474	526	575	623	669	714	756
-15°	210	261	321	384	445	498	544	588	630	669	705
-17.5°	191	238	291	349	409	462	509	550	588	623	653
-20°	171	212	260	312	367	421	468	509	544	575	603



REPORT NUMBER: P220427 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-W-BK-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	151	188	229	273	323	373	421	462	498	526	551
-25°	131	162	198	237	278	323	367	409	445	474	498
-27.5°	113	139	168	202	237	273	312	349	384	414	439
-30°	94	117	142	168	198	229	260	291	321	347	371
-32.5°	79	96	117	139	162	188	212	238	261	284	304
-35°	64	79	94	113	131	151	171	191	210	228	243
-37.5°	52	63	76	89	105	120	135	151	165	179	192
-40°	42	50	60	70	82	93	105	117	128	139	148
-42.5°	33	40	47	55	63	71	81	89	97	105	112
-45°	26	31	36	42	48	54	61	66	73	79	83
-47.5°	20	23	28	32	36	41	45	49	54	58	61
-50°	15	18	21	24	27	30	33	36	40	42	45
-52.5°	11	13	15	17	20	22	24	26	29	30	32
-55°	9	10	11	13	14	15	17	19	20	21	22
-57.5°	6	7	8	9	10	11	12	13	14	15	15
-60°	4	5	6	7	7	8	9	9	10	10	11
-62.5°	3	3	4	4	5	5	6	6	7	7	7
-65°	2	2	2	2	3	3	4	4	4	5	5
-67.5°	1	1	1	2	2	2	2	2	2	2	2
-70°	0	1	1	1	1	1	1	1	1	2	2
-72.5°	0	0	0	0	0	0	1	1	1	1	1
-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: P220427 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-W-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°	1	1	1	1	1	1	1	1	1	1	1
70°	2	2	2	2	2	2	2	2	2	1	1
67.5°	3	3	3	3	3	3	3	2	2	2	2
65°	5	5	5	5	5	5	5	5	5	4	4
62.5°	8	8	8	8	8	8	8	7	7	7	6
60°	11	11	11	11	11	11	11	11	10	10	9
57.5°	16	16	16	17	16	16	16	15	15	14	13
55°	23	24	24	24	24	24	23	22	21	20	19
52.5°	33	34	35	35	35	34	33	32	30	29	26
50°	46	48	48	49	48	48	46	45	42	40	36
47.5°	64	65	67	67	67	65	64	61	58	54	49
45°	87	90	92	92	92	90	87	83	79	73	66
42.5°	117	121	123	124	123	121	117	112	105	97	89
40°	155	160	163	164	163	160	155	148	139	128	117
37.5°	201	208	212	214	212	208	201	192	179	165	151
35°	256	265	270	272	270	265	256	243	228	210	191
32.5°	320	331	338	341	338	331	320	304	284	261	238
30°	390	403	412	414	412	403	390	371	347	321	291
27.5°	457	470	478	481	478	470	457	439	414	384	349
25°	516	529	537	539	537	529	516	498	474	445	409
22.5°	571	585	594	597	594	585	571	551	526	498	462
20°	625	642	652	655	652	642	625	603	575	544	509
17.5°	679	699	712	716	712	699	679	653	623	588	550
15°	736	760	774	778	774	760	736	705	669	630	588
12.5°	788	811	825	830	825	811	788	756	714	669	623
10°	830	853	868	873	868	853	830	798	756	705	653
7.5°	863	888	901	904	901	888	863	830	788	736	679
5°	888	907	907	905	907	907	888	853	811	760	699
2.5°	901	907	895	888	895	907	901	868	825	774	712
0°	904	905	888	884	888	905	904	873	830	778	716
-2.5°	901	907	895	888	895	907	901	868	825	774	712
-5°	888	907	907	905	907	907	888	853	811	760	699
-7.5°	863	888	901	904	901	888	863	830	788	736	679
-10°	830	853	868	873	868	853	830	798	756	705	653
-12.5°	788	811	825	830	825	811	788	756	714	669	623
-15°	736	760	774	778	774	760	736	705	669	630	588
-17.5°	679	699	712	716	712	699	679	653	623	588	550
-20°	625	642	652	655	652	642	625	603	575	544	509



REPORT NUMBER: P220427 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-W-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°	571	585	594	597	594	585	571	551	526	498	462
-25°	516	529	537	539	537	529	516	498	474	445	409
-27.5°	457	470	478	481	478	470	457	439	414	384	349
-30°	390	403	412	414	412	403	390	371	347	321	291
-32.5°	320	331	338	341	338	331	320	304	284	261	238
-35°	256	265	270	272	270	265	256	243	228	210	191
-37.5°	201	208	212	214	212	208	201	192	179	165	151
-40°	155	160	163	164	163	160	155	148	139	128	117
-42.5°	117	121	123	124	123	121	117	112	105	97	89
-45°	87	90	92	92	92	90	87	83	79	73	66
-47.5°	64	65	67	67	67	65	64	61	58	54	49
-50°	46	48	48	49	48	48	46	45	42	40	36
-52.5°	33	34	35	35	35	34	33	32	30	29	26
-55°	23	24	24	24	24	24	23	22	21	20	19
-57.5°	16	16	16	17	16	16	16	15	15	14	13
-60°	11	11	11	11	11	11	11	11	10	10	9
-62.5°	8	8	8	8	8	8	8	7	7	7	6
-65°	5	5	5	5	5	5	5	5	5	4	4
-67.5°	3	3	3	3	3	3	3	2	2	2	2
-70°	2	2	2	2	2	2	2	2	2	1	1
-72.5°	1	1	1	1	1	1	1	1	1	1	1
-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: P220427 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-W-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°	1	0	0	0	0	0	0	0	0	0	0
70°	1	1	1	1	1	1	0	0	0	0	0
67.5°	2	2	2	2	1	1	1	1	1	0	0
65°	4	3	3	2	2	2	2	2	1	1	1
62.5°	6	5	5	4	4	3	3	2	2	2	1
60°	9	8	7	7	6	5	4	4	3	2	2
57.5°	12	11	10	9	8	7	6	5	4	3	3
55°	17	15	14	13	11	10	9	7	6	5	4
52.5°	24	22	20	17	15	13	11	10	8	7	6
50°	33	30	27	24	21	18	15	13	11	9	7
47.5°	45	41	36	32	28	23	20	16	14	11	9
45°	61	54	48	42	36	31	26	22	17	14	11
42.5°	81	71	63	55	47	40	33	28	22	18	14
40°	105	93	82	70	60	50	42	34	28	22	17
37.5°	135	120	105	89	76	63	52	43	34	28	22
35°	171	151	131	113	94	79	64	52	42	33	26
32.5°	212	188	162	139	117	96	79	63	50	40	31
30°	260	229	198	168	142	117	94	76	60	47	36
27.5°	312	273	237	202	168	139	113	89	70	55	42
25°	367	323	278	237	198	162	131	105	82	63	48
22.5°	421	373	323	273	229	188	151	120	93	71	54
20°	468	421	367	312	260	212	171	135	105	81	61
17.5°	509	462	409	349	291	238	191	151	117	89	66
15°	544	498	445	384	321	261	210	165	128	97	73
12.5°	575	526	474	414	347	284	228	179	139	105	79
10°	603	551	498	439	371	304	243	192	148	112	83
7.5°	625	571	516	457	390	320	256	201	155	117	87
5°	642	585	529	470	403	331	265	208	160	121	90
2.5°	652	594	537	478	412	338	270	212	163	123	92
0°	655	597	539	481	414	341	272	214	164	124	92
-2.5°	652	594	537	478	412	338	270	212	163	123	92
-5°	642	585	529	470	403	331	265	208	160	121	90
-7.5°	625	571	516	457	390	320	256	201	155	117	87
-10°	603	551	498	439	371	304	243	192	148	112	83
-12.5°	575	526	474	414	347	284	228	179	139	105	79
-15°	544	498	445	384	321	261	210	165	128	97	73
-17.5°	509	462	409	349	291	238	191	151	117	89	66
-20°	468	421	367	312	260	212	171	135	105	81	61



REPORT NUMBER: P220427 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-W-BK-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	421	373	323	273	229	188	151	120	93	71	54
-25°	367	323	278	237	198	162	131	105	82	63	48
-27.5°	312	273	237	202	168	139	113	89	70	55	42
-30°	260	229	198	168	142	117	94	76	60	47	36
-32.5°	212	188	162	139	117	96	79	63	50	40	31
-35°	171	151	131	113	94	79	64	52	42	33	26
-37.5°	135	120	105	89	76	63	52	43	34	28	22
-40°	105	93	82	70	60	50	42	34	28	22	17
-42.5°	81	71	63	55	47	40	33	28	22	18	14
-45°	61	54	48	42	36	31	26	22	17	14	11
-47.5°	45	41	36	32	28	23	20	16	14	11	9
-50°	33	30	27	24	21	18	15	13	11	9	7
-52.5°	24	22	20	17	15	13	11	10	8	7	6
-55°	17	15	14	13	11	10	9	7	6	5	4
-57.5°	12	11	10	9	8	7	6	5	4	3	3
-60°	9	8	7	7	6	5	4	4	3	2	2
-62.5°	6	5	5	4	4	3	3	2	2	2	1
-65°	4	3	3	2	2	2	2	2	1	1	1
-67.5°	2	2	2	2	1	1	1	1	1	0	0
-70°	1	1	1	1	1	1	0	0	0	0	0
-72.5°	1	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: P220427 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-W-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°	1	0	0	0	0	0	0	0	0	0	0
62.5°	1	1	0	0	0	0	0	0	0	0	0
60°	2	1	1	1	0	0	0	0	0	0	0
57.5°	2	2	1	1	1	0	0	0	0	0	0
55°	3	2	2	1	1	1	0	0	0	0	0
52.5°	4	3	2	2	1	1	0	0	0	0	0
50°	6	5	3	2	2	1	1	0	0	0	0
47.5°	7	6	4	3	2	2	1	1	0	0	0
45°	9	7	6	4	3	2	1	1	0	0	0
42.5°	11	9	7	5	3	2	2	1	0	0	0
40°	14	11	8	6	4	3	2	1	1	0	0
37.5°	16	13	10	7	5	4	2	2	1	0	0
35°	20	15	11	9	6	4	3	2	1	0	0
32.5°	23	18	13	10	7	5	3	2	1	1	0
30°	28	21	15	11	8	6	4	2	1	1	0
27.5°	32	24	17	13	9	7	4	2	2	1	0
25°	36	27	20	14	10	7	5	3	2	1	0
22.5°	41	30	22	15	11	8	5	3	2	1	0
20°	45	33	24	17	12	9	6	4	2	1	1
17.5°	49	36	26	19	13	9	6	4	2	1	1
15°	54	40	29	20	14	10	7	4	2	1	1
12.5°	58	42	30	21	15	10	7	5	2	2	1
10°	61	45	32	22	15	11	7	5	2	2	1
7.5°	64	46	33	23	16	11	8	5	3	2	1
5°	65	48	34	24	16	11	8	5	3	2	1
2.5°	67	48	35	24	16	11	8	5	3	2	1
0°	67	49	35	24	17	11	8	5	3	2	1
-2.5°	67	48	35	24	16	11	8	5	3	2	1
-5°	65	48	34	24	16	11	8	5	3	2	1
-7.5°	64	46	33	23	16	11	8	5	3	2	1
-10°	61	45	32	22	15	11	7	5	2	2	1
-12.5°	58	42	30	21	15	10	7	5	2	2	1
-15°	54	40	29	20	14	10	7	4	2	1	1
-17.5°	49	36	26	19	13	9	6	4	2	1	1
-20°	45	33	24	17	12	9	6	4	2	1	1



REPORT NUMBER: P220427 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-W-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°	41	30	22	15	11	8	5	3	2	1	0
-25°	36	27	20	14	10	7	5	3	2	1	0
-27.5°	32	24	17	13	9	7	4	2	2	1	0
-30°	28	21	15	11	8	6	4	2	1	1	0
-32.5°	23	18	13	10	7	5	3	2	1	1	0
-35°	20	15	11	9	6	4	3	2	1	0	0
-37.5°	16	13	10	7	5	4	2	2	1	0	0
-40°	14	11	8	6	4	3	2	1	1	0	0
-42.5°	11	9	7	5	3	2	2	1	0	0	0
-45°	9	7	6	4	3	2	1	1	0	0	0
-47.5°	7	6	4	3	2	2	1	1	0	0	0
-50°	6	5	3	2	2	1	1	0	0	0	0
-52.5°	4	3	2	2	1	1	0	0	0	0	0
-55°	3	2	2	1	1	1	0	0	0	0	0
-57.5°	2	2	1	1	1	0	0	0	0	0	0
-60°	2	1	1	1	0	0	0	0	0	0	0
-62.5°	1	1	0	0	0	0	0	0	0	0	0
-65°	1	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: P220427 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-W-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: P220427 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-W-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)