

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: P220431 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1002-[A1, P1, S1, SU1]-FL-LED3597-W-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220431 (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-LED3597-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, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	768.6 lumens	Max Intensity:	848.6 candela
Efficiency:	N/A	Max Intensity Angle:	-5°H x -5°V
Efficacy:	76.9 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:	474.2 lumens	Field Lumens:	716.7 lumens
Beam Efficiency:	61.7%	Field Efficiency:	93.2%

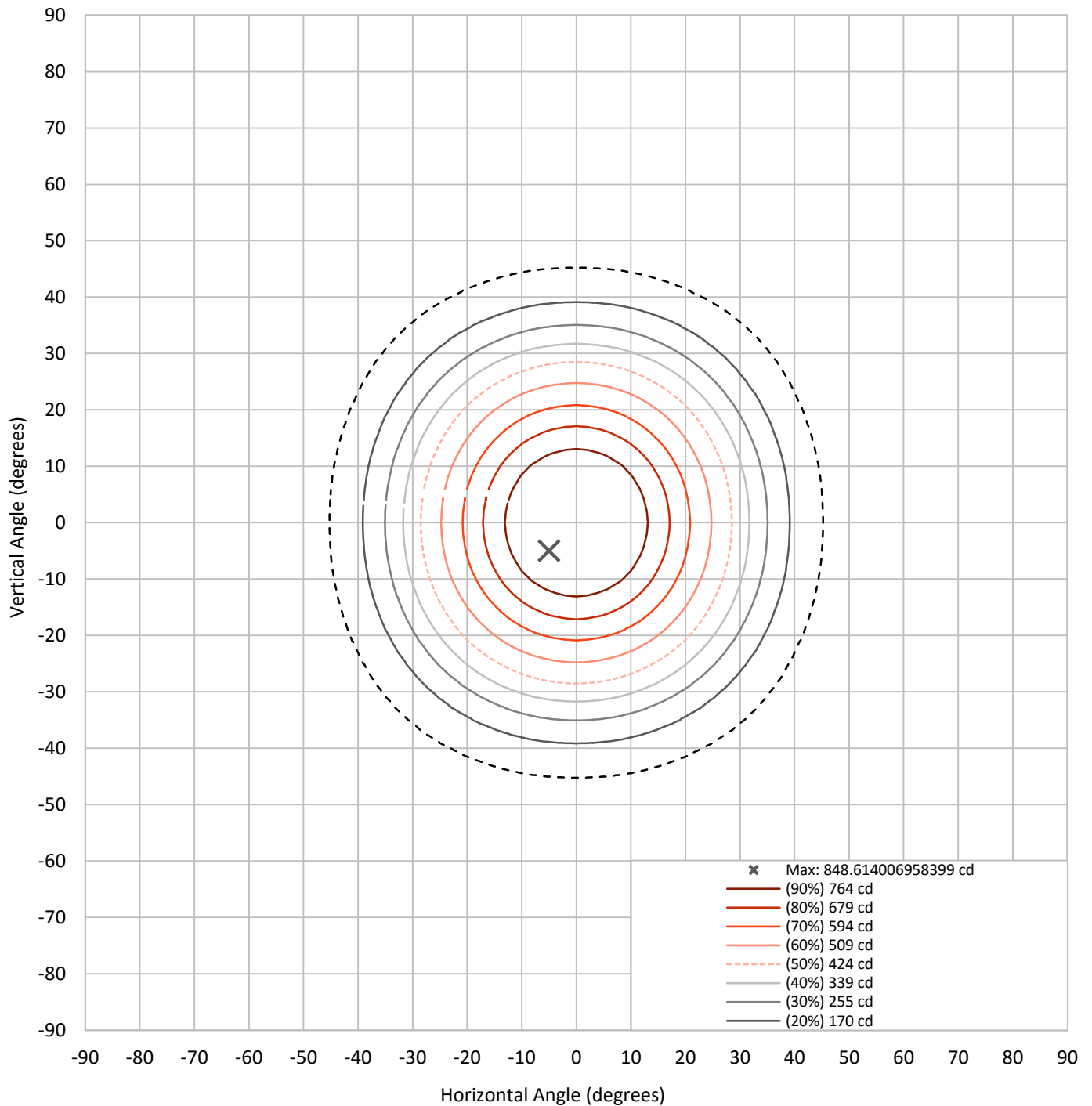
Input Watts (W): 10
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P220431 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-W-BK-L1-UNV

Iso-Candela Plot

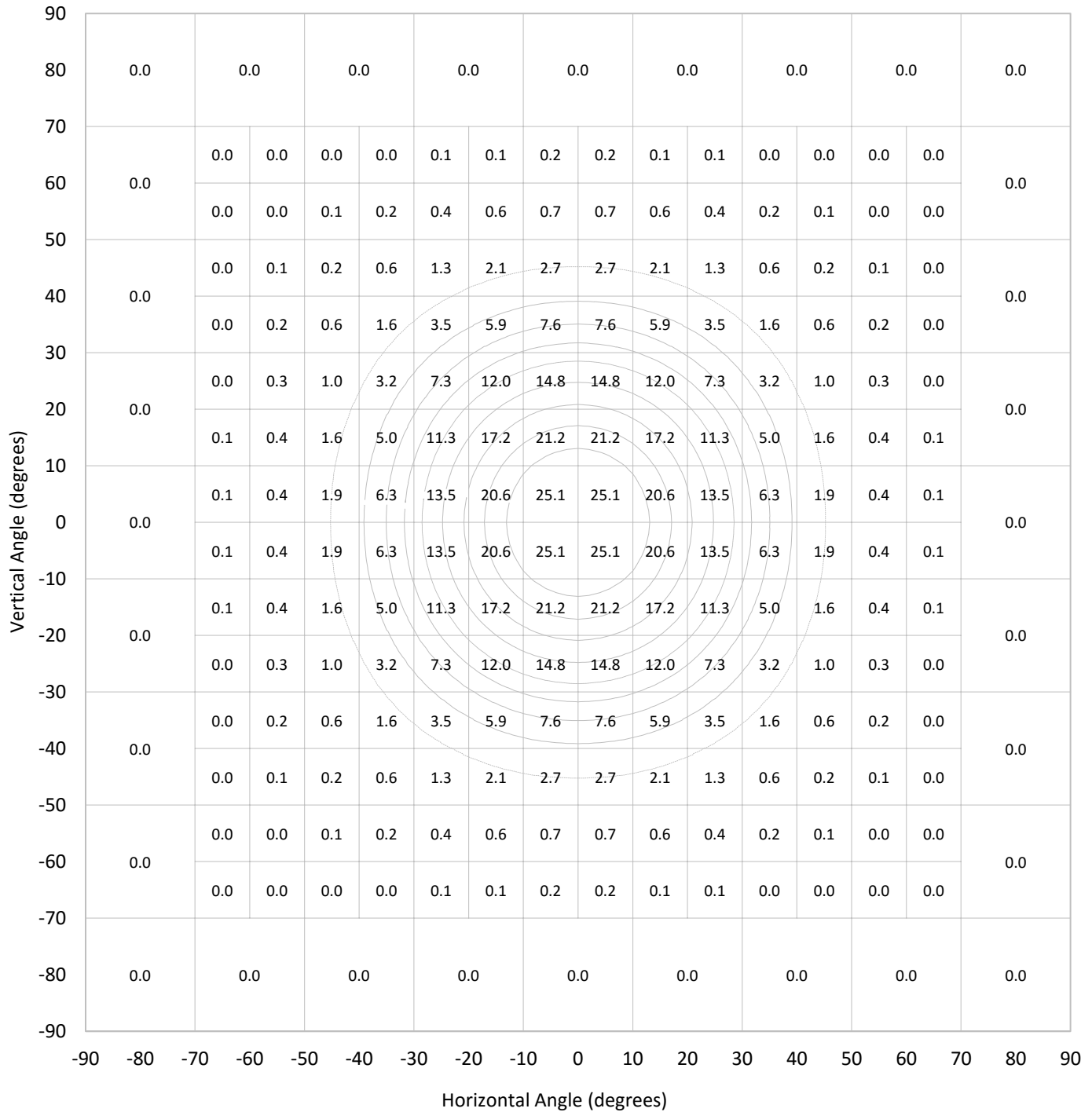




REPORT NUMBER: P220431 (CONVERTED FROM TYPE C PHOTOMETRY)

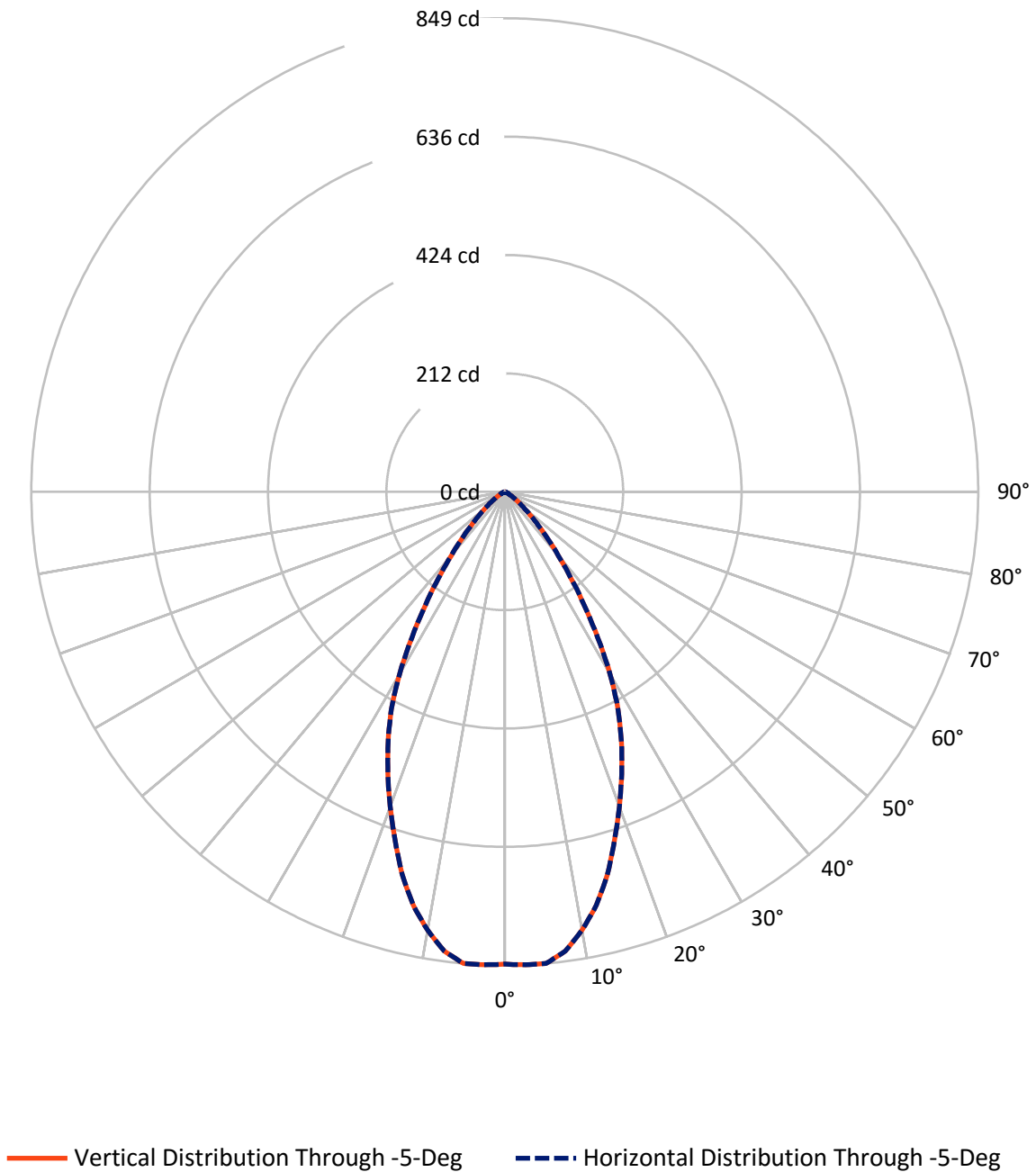
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-W-BK-L1-UNV

Lumen Table



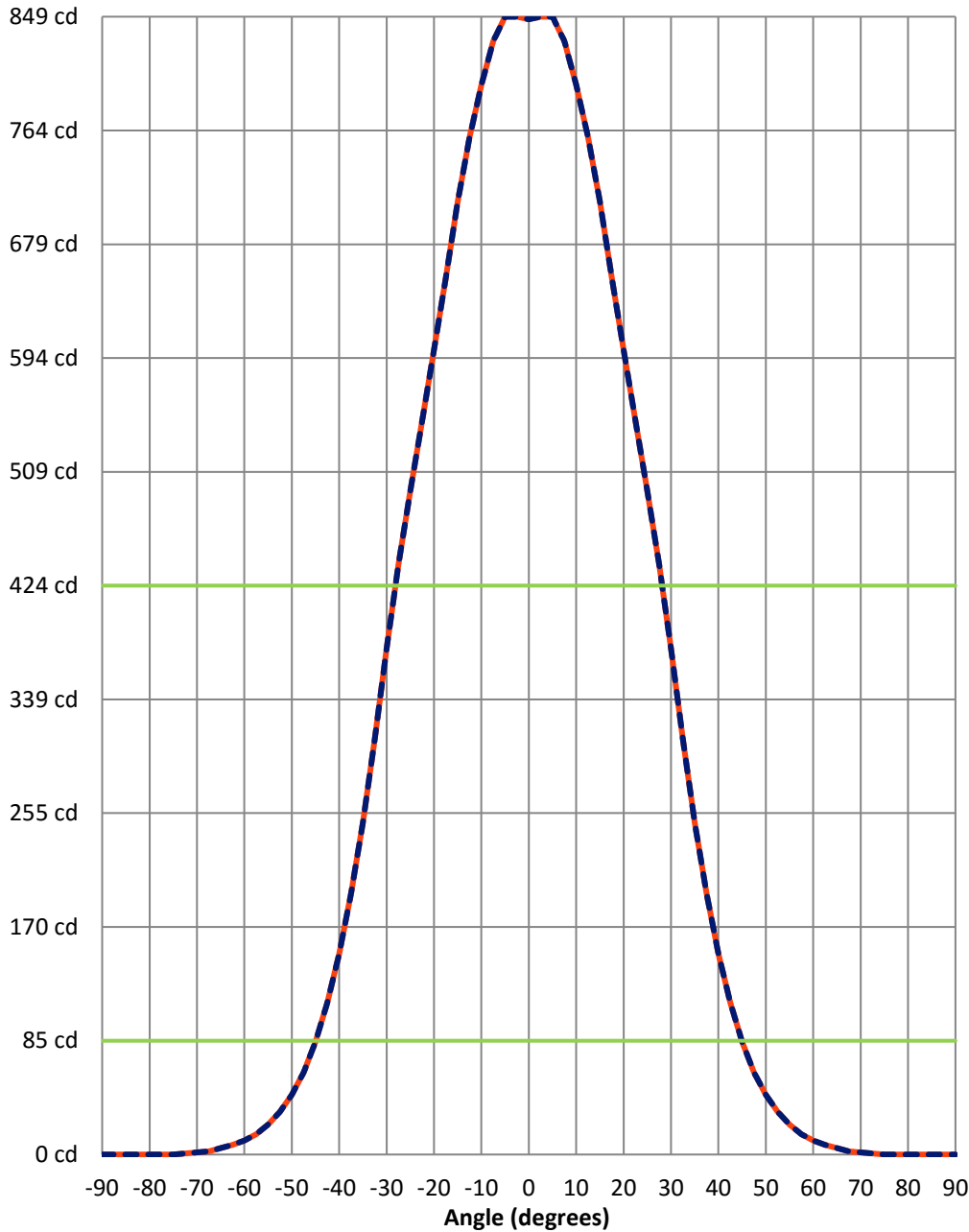
REPORT NUMBER: P220431 (CONVERTED FROM TYPE C PHOTOMETRY)
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 56.2°
 V Angle: 56.2°
 Lumens: 474.2
 Efficiency: 61.7%

Field:
 H Angle: 89.9°
 V Angle: 89.9°
 Lumens: 716.7
 Efficiency: 93.2%

Spill:
 Lumens: 51.9
 Efficiency: 6.8%

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



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-W-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	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	1
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	2
22.5°	0	0	0	0	0	0	0	0	1	2	3
20°	0	0	0	0	0	0	0	0	1	2	3
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	1	2	4
10°	0	0	0	0	0	0	0	1	1	2	4
7.5°	0	0	0	0	0	0	0	1	2	2	5
5°	0	0	0	0	0	0	0	1	2	2	5
2.5°	0	0	0	0	0	0	0	1	2	2	5
0°	0	0	0	0	0	0	0	1	2	2	5
-2.5°	0	0	0	0	0	0	0	1	2	2	5
-5°	0	0	0	0	0	0	0	1	2	2	5
-7.5°	0	0	0	0	0	0	0	1	2	2	5
-10°	0	0	0	0	0	0	0	1	1	2	4
-12.5°	0	0	0	0	0	0	0	1	1	2	4
-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	0	1	2	3



REPORT NUMBER: P220431 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-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	2
-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	1
-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: P220431 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-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	1
62.5°	0	0	0	0	0	1	1	1	2	2	2
60°	0	0	0	1	1	1	2	2	2	2	3
57.5°	0	0	1	1	1	2	2	2	3	4	5
55°	0	1	1	1	2	2	3	4	5	6	7
52.5°	0	1	1	2	2	3	4	5	7	8	9
50°	1	1	2	2	3	4	6	7	8	10	12
47.5°	1	2	2	3	4	6	7	9	10	13	15
45°	1	2	2	4	5	7	9	11	13	16	20
42.5°	2	2	3	5	7	8	10	13	17	21	26
40°	2	2	4	6	8	10	13	16	21	26	32
37.5°	2	3	5	7	9	12	15	20	26	32	40
35°	2	4	6	8	10	14	19	24	31	40	49
32.5°	3	5	7	9	12	16	22	29	37	47	59
30°	3	6	8	10	14	19	26	34	44	56	71
27.5°	4	6	9	12	16	22	30	39	51	65	84
25°	5	7	9	13	18	25	34	45	59	76	98
22.5°	5	7	10	14	21	28	38	51	67	87	112
20°	6	8	11	16	22	31	42	57	75	99	127
17.5°	6	9	12	17	25	34	46	62	83	109	141
15°	6	9	13	19	27	37	51	68	91	120	154
12.5°	7	10	14	20	28	40	54	73	99	130	168
10°	7	10	14	21	30	42	57	78	105	138	179
7.5°	7	10	15	22	31	43	60	82	110	145	188
5°	7	10	15	22	32	45	61	84	113	150	195
2.5°	7	11	15	23	32	45	62	86	115	153	199
0°	7	11	15	23	33	46	63	86	116	154	200
-2.5°	7	11	15	23	32	45	62	86	115	153	199
-5°	7	10	15	22	32	45	61	84	113	150	195
-7.5°	7	10	15	22	31	43	60	82	110	145	188
-10°	7	10	14	21	30	42	57	78	105	138	179
-12.5°	7	10	14	20	28	40	54	73	99	130	168
-15°	6	9	13	19	27	37	51	68	91	120	154
-17.5°	6	9	12	17	25	34	46	62	83	109	141
-20°	6	8	11	16	22	31	42	57	75	99	127



REPORT NUMBER: P220431 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-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	7	10	14	21	28	38	51	67	87	112
-25°	5	7	9	13	18	25	34	45	59	76	98
-27.5°	4	6	9	12	16	22	30	39	51	65	84
-30°	3	6	8	10	14	19	26	34	44	56	71
-32.5°	3	5	7	9	12	16	22	29	37	47	59
-35°	2	4	6	8	10	14	19	24	31	40	49
-37.5°	2	3	5	7	9	12	15	20	26	32	40
-40°	2	2	4	6	8	10	13	16	21	26	32
-42.5°	2	2	3	5	7	8	10	13	17	21	26
-45°	1	2	2	4	5	7	9	11	13	16	20
-47.5°	1	2	2	3	4	6	7	9	10	13	15
-50°	1	1	2	2	3	4	6	7	8	10	12
-52.5°	0	1	1	2	2	3	4	5	7	8	9
-55°	0	1	1	1	2	2	3	4	5	6	7
-57.5°	0	0	1	1	1	2	2	2	3	4	5
-60°	0	0	0	1	1	1	2	2	2	2	3
-62.5°	0	0	0	0	0	1	1	1	2	2	2
-65°	0	0	0	0	0	0	1	1	1	1	1
-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



REPORT NUMBER: P220431 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-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	0	1	1	1	1
70°	0	1	1	1	1	1	1	1	1	1	1
67.5°	1	1	1	2	2	2	2	2	2	2	2
65°	2	2	2	2	2	3	3	4	4	4	4
62.5°	2	3	3	4	5	5	6	6	6	7	7
60°	4	5	6	6	7	7	8	9	9	10	10
57.5°	6	7	8	9	9	10	11	12	13	14	14
55°	8	9	10	12	13	14	16	17	19	20	21
52.5°	10	12	14	16	18	21	22	25	27	28	30
50°	14	16	19	22	25	28	31	34	37	40	42
47.5°	19	22	26	30	34	38	42	46	51	54	57
45°	24	29	34	39	45	51	57	62	68	73	78
42.5°	31	37	44	51	59	67	75	83	91	99	105
40°	40	47	56	65	76	87	99	109	120	130	138
37.5°	49	59	71	84	98	112	127	141	154	168	179
35°	60	74	88	105	123	141	160	179	196	213	228
32.5°	74	90	109	130	151	176	198	223	245	265	284
30°	88	109	133	157	185	214	243	272	300	325	347
27.5°	105	130	157	189	222	255	292	326	359	387	410
25°	123	151	185	222	260	302	343	382	416	443	466
22.5°	141	176	214	255	302	349	394	433	465	492	515
20°	160	198	243	292	343	394	438	476	509	538	564
17.5°	179	223	272	326	382	433	476	514	550	583	611
15°	196	245	300	359	416	465	509	550	590	626	659
12.5°	213	265	325	387	443	492	538	583	626	667	707
10°	228	284	347	410	466	515	564	611	659	707	746
7.5°	239	299	364	428	483	534	585	636	688	737	776
5°	248	310	377	440	495	547	600	654	711	759	798
2.5°	253	316	385	447	502	556	609	666	724	772	812
0°	254	319	388	450	505	559	613	670	728	776	817
-2.5°	253	316	385	447	502	556	609	666	724	772	812
-5°	248	310	377	440	495	547	600	654	711	759	798
-7.5°	239	299	364	428	483	534	585	636	688	737	776
-10°	228	284	347	410	466	515	564	611	659	707	746
-12.5°	213	265	325	387	443	492	538	583	626	667	707
-15°	196	245	300	359	416	465	509	550	590	626	659
-17.5°	179	223	272	326	382	433	476	514	550	583	611
-20°	160	198	243	292	343	394	438	476	509	538	564



REPORT NUMBER: P220431 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-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°	141	176	214	255	302	349	394	433	465	492	515
-25°	123	151	185	222	260	302	343	382	416	443	466
-27.5°	105	130	157	189	222	255	292	326	359	387	410
-30°	88	109	133	157	185	214	243	272	300	325	347
-32.5°	74	90	109	130	151	176	198	223	245	265	284
-35°	60	74	88	105	123	141	160	179	196	213	228
-37.5°	49	59	71	84	98	112	127	141	154	168	179
-40°	40	47	56	65	76	87	99	109	120	130	138
-42.5°	31	37	44	51	59	67	75	83	91	99	105
-45°	24	29	34	39	45	51	57	62	68	73	78
-47.5°	19	22	26	30	34	38	42	46	51	54	57
-50°	14	16	19	22	25	28	31	34	37	40	42
-52.5°	10	12	14	16	18	21	22	25	27	28	30
-55°	8	9	10	12	13	14	16	17	19	20	21
-57.5°	6	7	8	9	9	10	11	12	13	14	14
-60°	4	5	6	6	7	7	8	9	9	10	10
-62.5°	2	3	3	4	5	5	6	6	6	7	7
-65°	2	2	2	2	2	3	3	4	4	4	4
-67.5°	1	1	1	2	2	2	2	2	2	2	2
-70°	0	1	1	1	1	1	1	1	1	1	1
-72.5°	0	0	0	0	0	0	0	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: P220431 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-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	1	1	1	1
67.5°	2	2	2	2	2	2	2	2	2	2	2
65°	5	5	5	5	5	5	5	4	4	4	4
62.5°	7	7	7	7	7	7	7	7	7	6	6
60°	10	10	11	11	11	10	10	10	10	9	9
57.5°	15	15	15	15	15	15	15	14	14	13	12
55°	22	22	23	23	23	22	22	21	20	19	17
52.5°	31	32	32	33	32	32	31	30	28	27	25
50°	43	45	45	46	45	45	43	42	40	37	34
47.5°	60	61	62	63	62	61	60	57	54	51	46
45°	82	84	86	86	86	84	82	78	73	68	62
42.5°	110	113	115	116	115	113	110	105	99	91	83
40°	145	150	153	154	153	150	145	138	130	120	109
37.5°	188	195	199	200	199	195	188	179	168	154	141
35°	239	248	253	254	253	248	239	228	213	196	179
32.5°	299	310	316	319	316	310	299	284	265	245	223
30°	364	377	385	388	385	377	364	347	325	300	272
27.5°	428	440	447	450	447	440	428	410	387	359	326
25°	483	495	502	505	502	495	483	466	443	416	382
22.5°	534	547	556	559	556	547	534	515	492	465	433
20°	585	600	609	613	609	600	585	564	538	509	476
17.5°	636	654	666	670	666	654	636	611	583	550	514
15°	688	711	724	728	724	711	688	659	626	590	550
12.5°	737	759	772	776	772	759	737	707	667	626	583
10°	776	798	812	817	812	798	776	746	707	659	611
7.5°	807	830	843	845	843	830	807	776	737	688	636
5°	830	849	849	847	849	849	830	798	759	711	654
2.5°	843	849	838	830	838	849	843	812	772	724	666
0°	845	847	830	827	830	847	845	817	776	728	670
-2.5°	843	849	838	830	838	849	843	812	772	724	666
-5°	830	849	849	847	849	849	830	798	759	711	654
-7.5°	807	830	843	845	843	830	807	776	737	688	636
-10°	776	798	812	817	812	798	776	746	707	659	611
-12.5°	737	759	772	776	772	759	737	707	667	626	583
-15°	688	711	724	728	724	711	688	659	626	590	550
-17.5°	636	654	666	670	666	654	636	611	583	550	514
-20°	585	600	609	613	609	600	585	564	538	509	476



REPORT NUMBER: P220431 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-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°	534	547	556	559	556	547	534	515	492	465	433
-25°	483	495	502	505	502	495	483	466	443	416	382
-27.5°	428	440	447	450	447	440	428	410	387	359	326
-30°	364	377	385	388	385	377	364	347	325	300	272
-32.5°	299	310	316	319	316	310	299	284	265	245	223
-35°	239	248	253	254	253	248	239	228	213	196	179
-37.5°	188	195	199	200	199	195	188	179	168	154	141
-40°	145	150	153	154	153	150	145	138	130	120	109
-42.5°	110	113	115	116	115	113	110	105	99	91	83
-45°	82	84	86	86	86	84	82	78	73	68	62
-47.5°	60	61	62	63	62	61	60	57	54	51	46
-50°	43	45	45	46	45	45	43	42	40	37	34
-52.5°	31	32	32	33	32	32	31	30	28	27	25
-55°	22	22	23	23	23	22	22	21	20	19	17
-57.5°	15	15	15	15	15	15	15	14	14	13	12
-60°	10	10	11	11	11	10	10	10	10	9	9
-62.5°	7	7	7	7	7	7	7	7	7	6	6
-65°	5	5	5	5	5	5	5	4	4	4	4
-67.5°	2	2	2	2	2	2	2	2	2	2	2
-70°	2	2	2	2	2	2	2	1	1	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: P220431 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-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°	0	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°	3	3	2	2	2	2	2	1	1	1	1
62.5°	6	5	5	4	3	3	2	2	2	2	1
60°	8	7	7	6	6	5	4	3	2	2	2
57.5°	11	10	9	9	8	7	6	5	4	3	2
55°	16	14	13	12	10	9	8	7	6	5	4
52.5°	22	21	18	16	14	12	10	9	8	7	5
50°	31	28	25	22	19	16	14	12	10	8	7
47.5°	42	38	34	30	26	22	19	15	13	10	9
45°	57	51	45	39	34	29	24	20	16	13	11
42.5°	75	67	59	51	44	37	31	26	21	17	13
40°	99	87	76	65	56	47	40	32	26	21	16
37.5°	127	112	98	84	71	59	49	40	32	26	20
35°	160	141	123	105	88	74	60	49	40	31	24
32.5°	198	176	151	130	109	90	74	59	47	37	29
30°	243	214	185	157	133	109	88	71	56	44	34
27.5°	292	255	222	189	157	130	105	84	65	51	39
25°	343	302	260	222	185	151	123	98	76	59	45
22.5°	394	349	302	255	214	176	141	112	87	67	51
20°	438	394	343	292	243	198	160	127	99	75	57
17.5°	476	433	382	326	272	223	179	141	109	83	62
15°	509	465	416	359	300	245	196	154	120	91	68
12.5°	538	492	443	387	325	265	213	168	130	99	73
10°	564	515	466	410	347	284	228	179	138	105	78
7.5°	585	534	483	428	364	299	239	188	145	110	82
5°	600	547	495	440	377	310	248	195	150	113	84
2.5°	609	556	502	447	385	316	253	199	153	115	86
0°	613	559	505	450	388	319	254	200	154	116	86
-2.5°	609	556	502	447	385	316	253	199	153	115	86
-5°	600	547	495	440	377	310	248	195	150	113	84
-7.5°	585	534	483	428	364	299	239	188	145	110	82
-10°	564	515	466	410	347	284	228	179	138	105	78
-12.5°	538	492	443	387	325	265	213	168	130	99	73
-15°	509	465	416	359	300	245	196	154	120	91	68
-17.5°	476	433	382	326	272	223	179	141	109	83	62
-20°	438	394	343	292	243	198	160	127	99	75	57



REPORT NUMBER: P220431 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-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°	394	349	302	255	214	176	141	112	87	67	51
-25°	343	302	260	222	185	151	123	98	76	59	45
-27.5°	292	255	222	189	157	130	105	84	65	51	39
-30°	243	214	185	157	133	109	88	71	56	44	34
-32.5°	198	176	151	130	109	90	74	59	47	37	29
-35°	160	141	123	105	88	74	60	49	40	31	24
-37.5°	127	112	98	84	71	59	49	40	32	26	20
-40°	99	87	76	65	56	47	40	32	26	21	16
-42.5°	75	67	59	51	44	37	31	26	21	17	13
-45°	57	51	45	39	34	29	24	20	16	13	11
-47.5°	42	38	34	30	26	22	19	15	13	10	9
-50°	31	28	25	22	19	16	14	12	10	8	7
-52.5°	22	21	18	16	14	12	10	9	8	7	5
-55°	16	14	13	12	10	9	8	7	6	5	4
-57.5°	11	10	9	9	8	7	6	5	4	3	2
-60°	8	7	7	6	6	5	4	3	2	2	2
-62.5°	6	5	5	4	3	3	2	2	2	2	1
-65°	3	3	2	2	2	2	2	1	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°	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: P220431 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-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	4	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	5	4	2	2	1	1	0	0	0
42.5°	10	8	7	5	3	2	2	1	0	0	0
40°	13	10	8	6	4	2	2	1	1	0	0
37.5°	15	12	9	7	5	3	2	1	1	0	0
35°	19	14	10	8	6	4	2	2	1	0	0
32.5°	22	16	12	9	7	5	3	2	1	1	0
30°	26	19	14	10	8	6	3	2	1	1	0
27.5°	30	22	16	12	9	6	4	2	2	1	0
25°	34	25	18	13	9	7	5	2	2	1	0
22.5°	38	28	21	14	10	7	5	3	2	1	0
20°	42	31	22	16	11	8	6	3	2	1	0
17.5°	46	34	25	17	12	9	6	4	2	1	1
15°	51	37	27	19	13	9	6	4	2	1	1
12.5°	54	40	28	20	14	10	7	4	2	1	1
10°	57	42	30	21	14	10	7	4	2	1	1
7.5°	60	43	31	22	15	10	7	5	2	2	1
5°	61	45	32	22	15	10	7	5	2	2	1
2.5°	62	45	32	23	15	11	7	5	2	2	1
0°	63	46	33	23	15	11	7	5	2	2	1
-2.5°	62	45	32	23	15	11	7	5	2	2	1
-5°	61	45	32	22	15	10	7	5	2	2	1
-7.5°	60	43	31	22	15	10	7	5	2	2	1
-10°	57	42	30	21	14	10	7	4	2	1	1
-12.5°	54	40	28	20	14	10	7	4	2	1	1
-15°	51	37	27	19	13	9	6	4	2	1	1
-17.5°	46	34	25	17	12	9	6	4	2	1	1
-20°	42	31	22	16	11	8	6	3	2	1	0



REPORT NUMBER: P220431 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-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°	38	28	21	14	10	7	5	3	2	1	0
-25°	34	25	18	13	9	7	5	2	2	1	0
-27.5°	30	22	16	12	9	6	4	2	2	1	0
-30°	26	19	14	10	8	6	3	2	1	1	0
-32.5°	22	16	12	9	7	5	3	2	1	1	0
-35°	19	14	10	8	6	4	2	2	1	0	0
-37.5°	15	12	9	7	5	3	2	1	1	0	0
-40°	13	10	8	6	4	2	2	1	1	0	0
-42.5°	10	8	7	5	3	2	2	1	0	0	0
-45°	9	7	5	4	2	2	1	1	0	0	0
-47.5°	7	6	4	3	2	2	1	1	0	0	0
-50°	6	4	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: P220431 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-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: P220431 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-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)