

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: P220430 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1002-[A1, P1, S1, SU1]-FL-LED3097-W-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220430 (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-LED3097-W-BK-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS,
WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

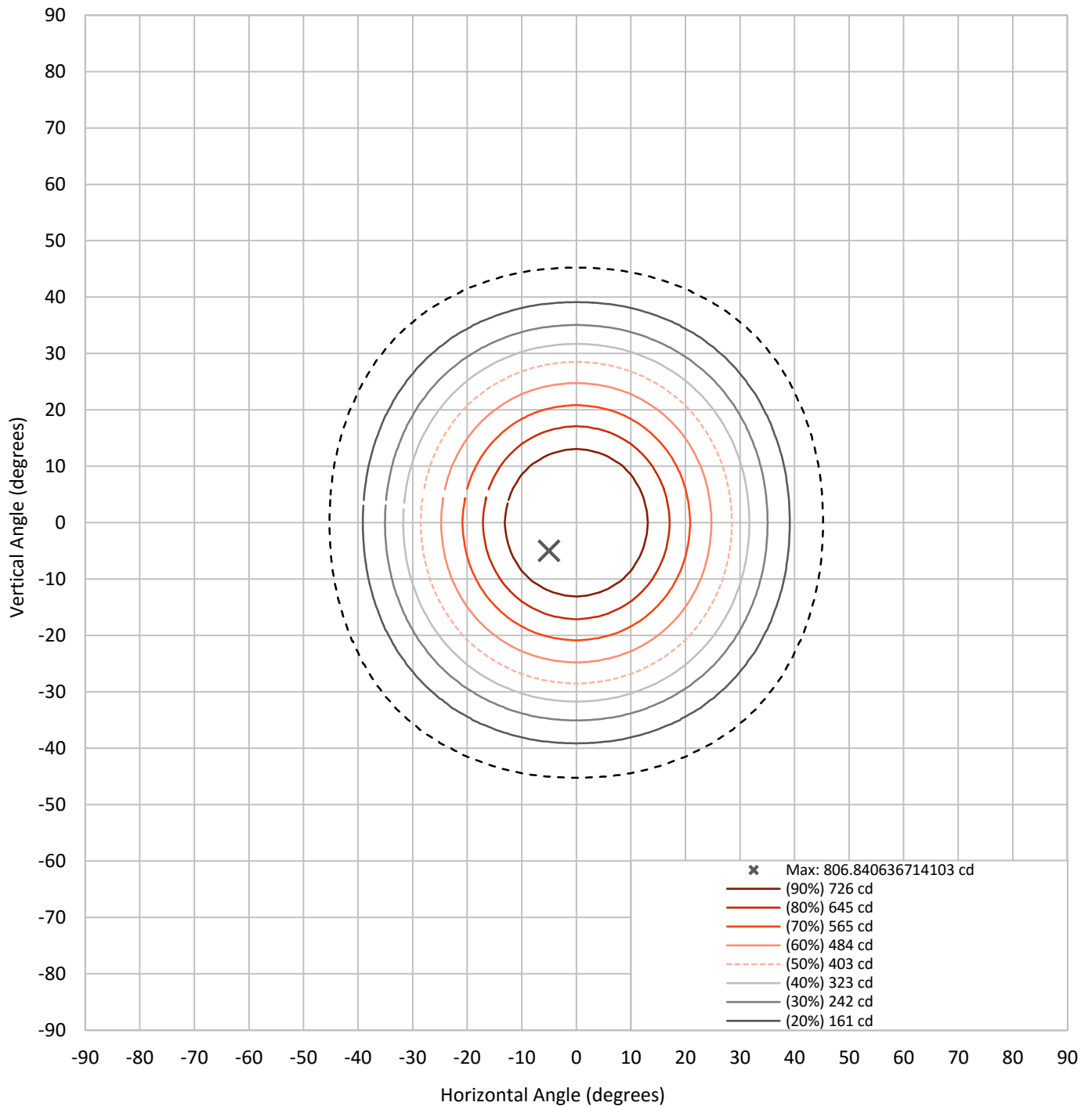
Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	730.8 lumens	Max Intensity:	806.8 candela
Efficiency:	N/A	Max Intensity Angle:	-5°H x -5°V
Efficacy:	73.1 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	56.2°H x 56.2°V	Field Angle (10%):	89.9°H x 89.9°V
Beam Lumens:	450.9 lumens	Field Lumens:	681.5 lumens
Beam Efficiency:	61.7%	Field Efficiency:	93.2%
Input Watts (W):	10		
Input Voltage (V):	120		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		



REPORT NUMBER: P220430 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-W-BK-L1-UNV

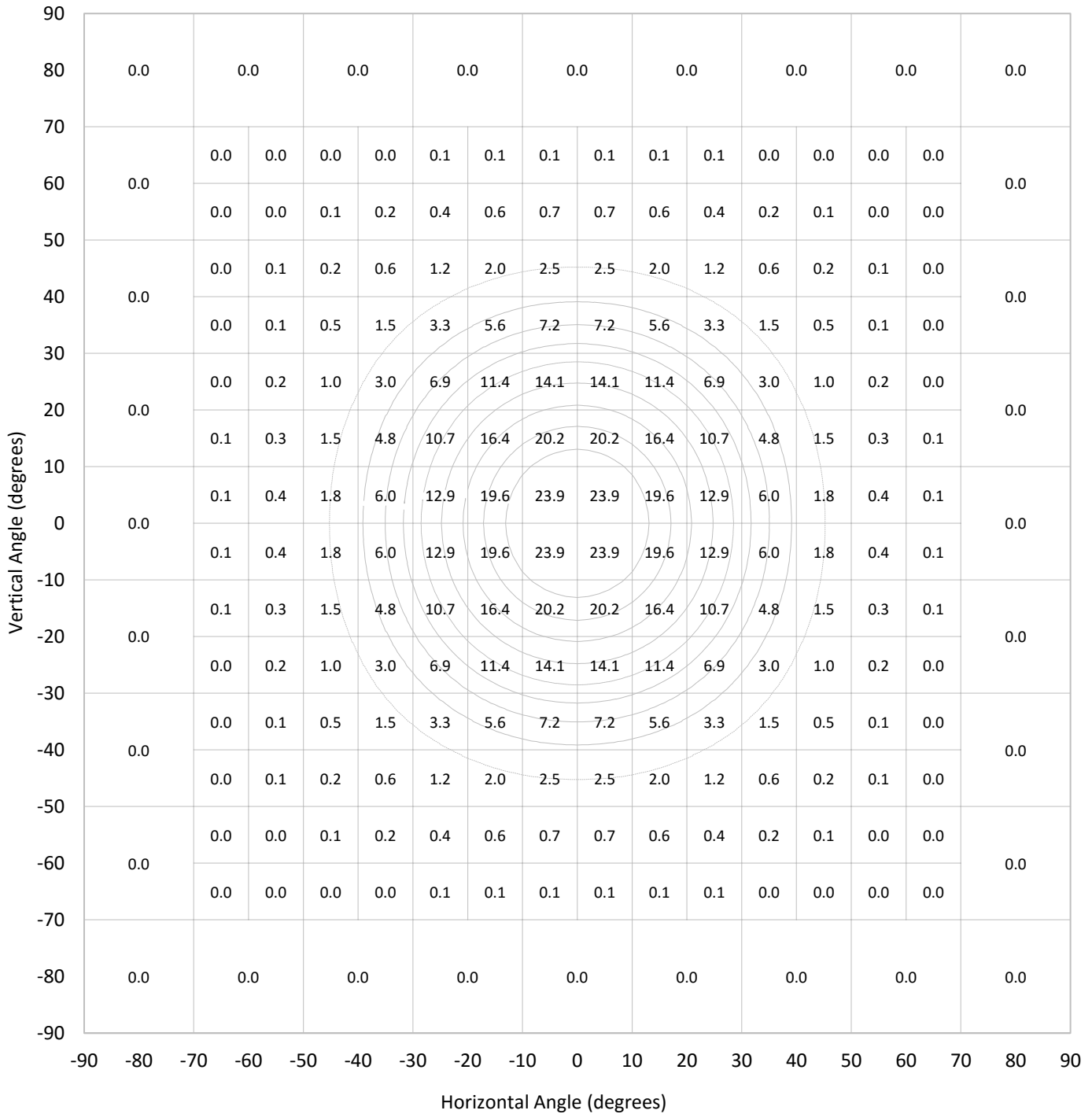
Iso-Candela Plot





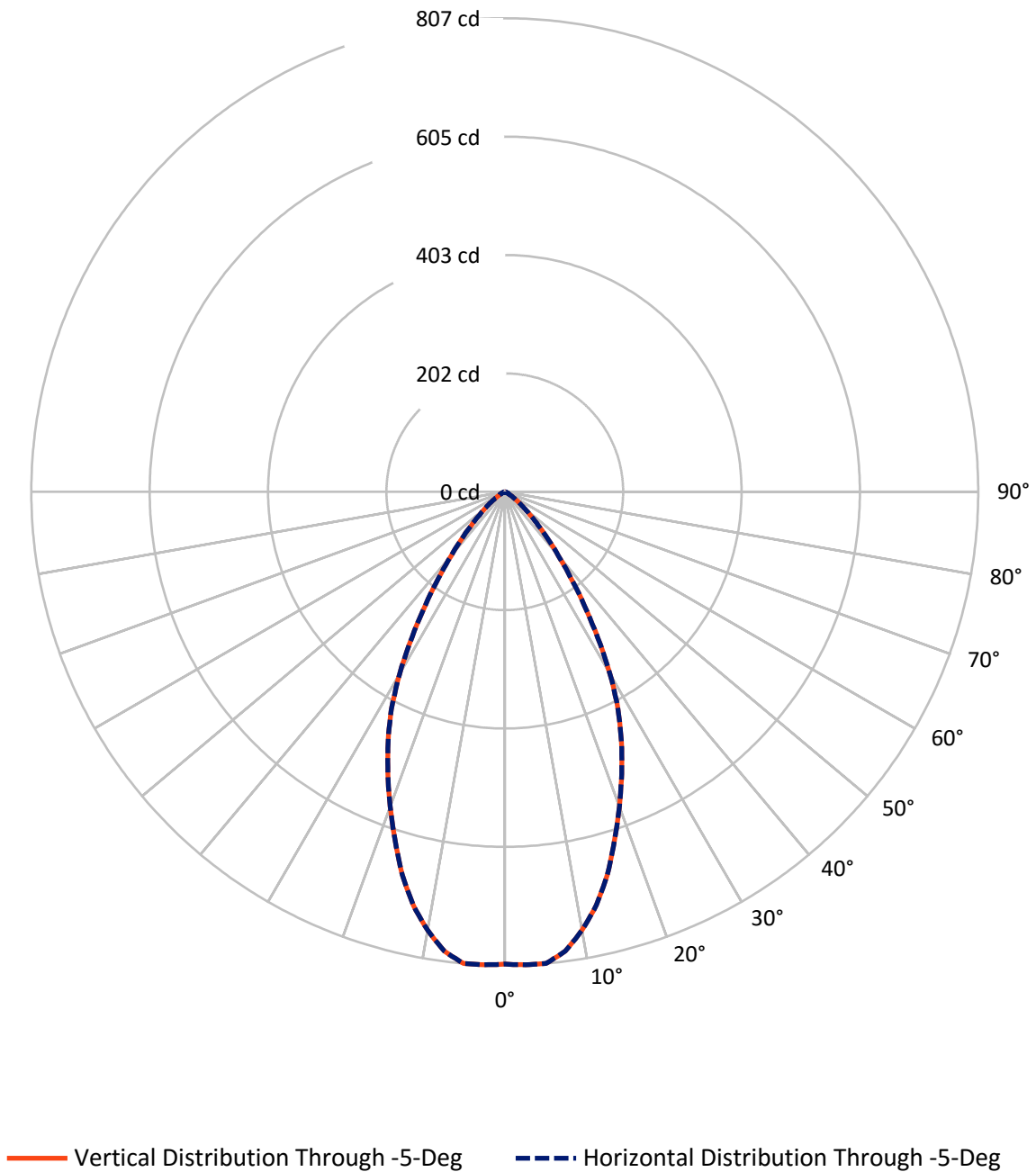
REPORT NUMBER: P220430 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-W-BK-L1-UNV

Lumen Table



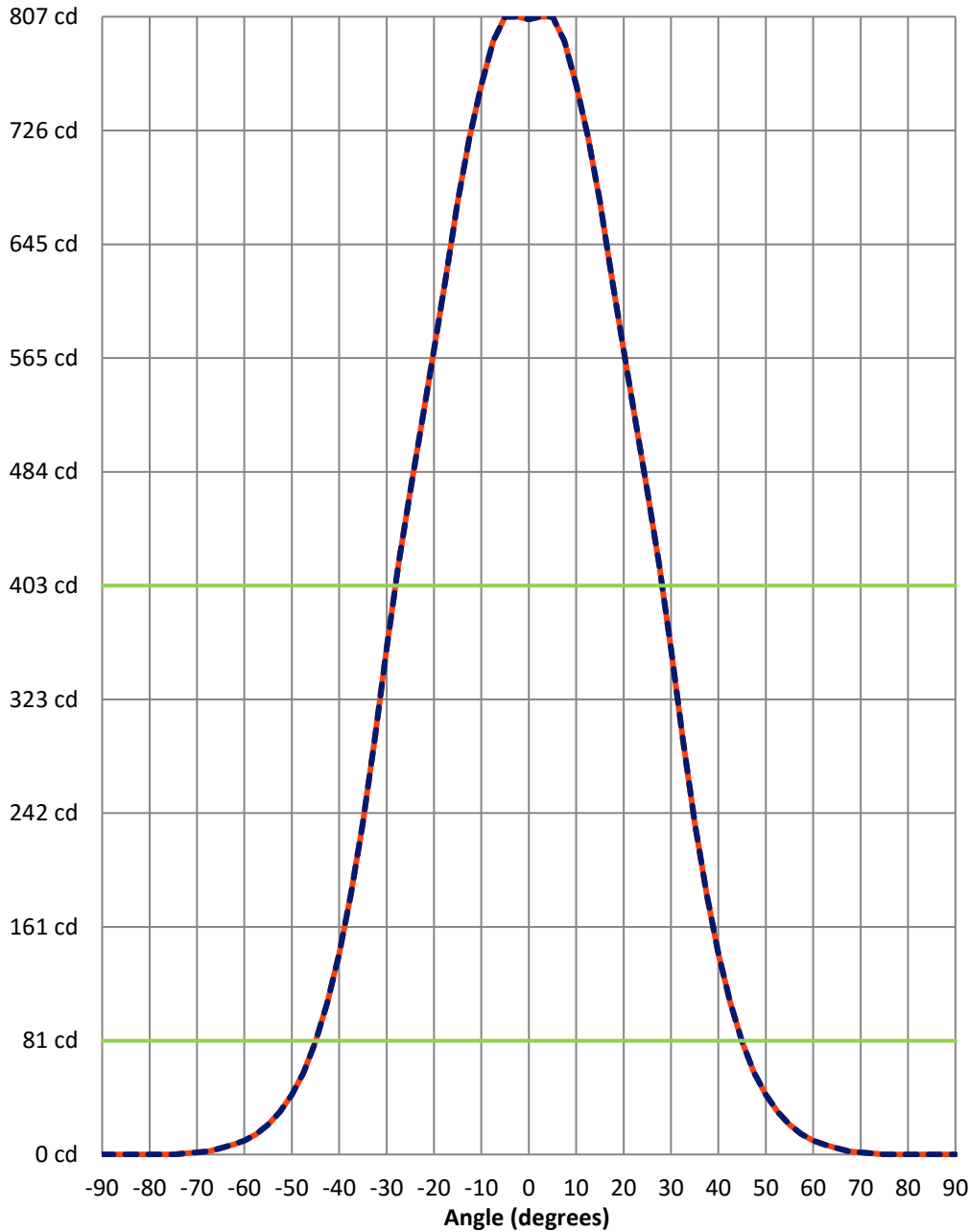
REPORT NUMBER: P220430 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-W-BK-L1-UNV

Luminous Intensity Polar Plot



REPORT NUMBER: P220430 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-W-BK-L1-UNV

Luminous Intensity Plot



Beam:
 H Angle: 56.2°
 V Angle: 56.2°
 Lumens: 450.9
 Efficiency: 61.7%

Field:
 H Angle: 89.9°
 V Angle: 89.9°
 Lumens: 681.5
 Efficiency: 93.2%

Spill:
 Lumens: 49.3
 Efficiency: 6.8%

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



REPORT NUMBER: P220430 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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	1	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	3
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	1	2	4
5°	0	0	0	0	0	0	0	1	1	2	5
2.5°	0	0	0	0	0	0	0	1	1	2	5
0°	0	0	0	0	0	0	0	1	2	2	5
-2.5°	0	0	0	0	0	0	0	1	1	2	5
-5°	0	0	0	0	0	0	0	1	1	2	5
-7.5°	0	0	0	0	0	0	0	1	1	2	4
-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	3
-20°	0	0	0	0	0	0	0	0	1	2	3



REPORT NUMBER: P220430 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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	1	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: P220430 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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	1	2	2
60°	0	0	0	1	1	1	1	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	6	7	9
50°	1	1	2	2	3	4	5	7	8	9	11
47.5°	1	1	2	3	4	5	7	8	10	12	15
45°	1	2	2	4	5	7	8	10	13	16	19
42.5°	1	2	3	5	6	8	10	13	16	20	25
40°	2	2	4	6	7	9	12	16	20	25	31
37.5°	2	3	5	7	9	11	15	19	25	31	38
35°	2	4	6	8	10	13	18	23	30	38	47
32.5°	3	5	6	9	12	16	21	28	36	45	56
30°	3	5	7	10	13	18	25	32	42	53	68
27.5°	4	6	8	11	15	21	28	38	49	62	79
25°	4	6	9	12	17	24	32	43	56	73	93
22.5°	5	7	10	14	19	27	36	48	63	82	106
20°	5	8	11	15	21	30	40	54	72	94	120
17.5°	6	8	12	17	23	32	44	59	79	104	134
15°	6	9	12	18	25	35	48	65	87	114	146
12.5°	6	9	13	19	27	38	52	70	94	123	159
10°	7	9	14	20	28	40	54	74	100	131	170
7.5°	7	10	14	21	30	41	57	78	104	138	179
5°	7	10	14	21	30	42	58	80	108	142	185
2.5°	7	10	15	21	31	43	59	81	110	145	189
0°	7	10	15	22	31	43	60	82	111	146	190
-2.5°	7	10	15	21	31	43	59	81	110	145	189
-5°	7	10	14	21	30	42	58	80	108	142	185
-7.5°	7	10	14	21	30	41	57	78	104	138	179
-10°	7	9	14	20	28	40	54	74	100	131	170
-12.5°	6	9	13	19	27	38	52	70	94	123	159
-15°	6	9	12	18	25	35	48	65	87	114	146
-17.5°	6	8	12	17	23	32	44	59	79	104	134
-20°	5	8	11	15	21	30	40	54	72	94	120



REPORT NUMBER: P220430 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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	19	27	36	48	63	82	106
-25°	4	6	9	12	17	24	32	43	56	73	93
-27.5°	4	6	8	11	15	21	28	38	49	62	79
-30°	3	5	7	10	13	18	25	32	42	53	68
-32.5°	3	5	6	9	12	16	21	28	36	45	56
-35°	2	4	6	8	10	13	18	23	30	38	47
-37.5°	2	3	5	7	9	11	15	19	25	31	38
-40°	2	2	4	6	7	9	12	16	20	25	31
-42.5°	1	2	3	5	6	8	10	13	16	20	25
-45°	1	2	2	4	5	7	8	10	13	16	19
-47.5°	1	1	2	3	4	5	7	8	10	12	15
-50°	1	1	2	2	3	4	5	7	8	9	11
-52.5°	0	1	1	2	2	3	4	5	6	7	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	1	2	2	2	3
-62.5°	0	0	0	0	0	1	1	1	1	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: P220430 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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	1	2	2	2	2	2	2	2
65°	2	2	2	2	2	3	3	3	4	4	4
62.5°	2	3	3	4	4	5	5	6	6	6	7
60°	4	5	5	6	6	7	8	8	9	9	9
57.5°	6	6	7	8	9	10	11	12	12	13	14
55°	8	9	10	11	12	14	15	17	18	19	20
52.5°	10	12	13	15	17	19	21	23	25	27	28
50°	13	16	18	21	24	27	30	32	35	38	40
47.5°	18	21	25	28	32	36	40	44	48	52	54
45°	23	28	32	38	43	48	54	59	65	70	74
42.5°	30	36	42	49	56	63	72	79	87	94	100
40°	38	45	53	62	73	82	94	104	114	123	131
37.5°	47	56	68	79	93	106	120	134	146	159	170
35°	57	70	84	100	117	134	152	170	187	203	216
32.5°	70	86	104	124	144	167	189	212	233	252	270
30°	84	104	126	149	176	203	231	258	285	309	330
27.5°	100	124	149	179	211	243	277	310	341	368	390
25°	117	144	176	211	247	287	326	364	395	422	443
22.5°	134	167	203	243	287	332	375	411	442	468	490
20°	152	189	231	277	326	375	417	453	484	512	536
17.5°	170	212	258	310	364	411	453	489	523	554	581
15°	187	233	285	341	395	442	484	523	561	595	627
12.5°	203	252	309	368	422	468	512	554	595	635	672
10°	216	270	330	390	443	490	536	581	627	672	709
7.5°	227	284	346	406	459	508	556	604	654	701	738
5°	235	294	359	418	470	520	571	622	676	721	759
2.5°	240	301	366	425	477	528	579	633	688	734	772
0°	242	303	369	428	480	531	583	637	692	738	776
-2.5°	240	301	366	425	477	528	579	633	688	734	772
-5°	235	294	359	418	470	520	571	622	676	721	759
-7.5°	227	284	346	406	459	508	556	604	654	701	738
-10°	216	270	330	390	443	490	536	581	627	672	709
-12.5°	203	252	309	368	422	468	512	554	595	635	672
-15°	187	233	285	341	395	442	484	523	561	595	627
-17.5°	170	212	258	310	364	411	453	489	523	554	581
-20°	152	189	231	277	326	375	417	453	484	512	536



REPORT NUMBER: P220430 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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°	134	167	203	243	287	332	375	411	442	468	490
-25°	117	144	176	211	247	287	326	364	395	422	443
-27.5°	100	124	149	179	211	243	277	310	341	368	390
-30°	84	104	126	149	176	203	231	258	285	309	330
-32.5°	70	86	104	124	144	167	189	212	233	252	270
-35°	57	70	84	100	117	134	152	170	187	203	216
-37.5°	47	56	68	79	93	106	120	134	146	159	170
-40°	38	45	53	62	73	82	94	104	114	123	131
-42.5°	30	36	42	49	56	63	72	79	87	94	100
-45°	23	28	32	38	43	48	54	59	65	70	74
-47.5°	18	21	25	28	32	36	40	44	48	52	54
-50°	13	16	18	21	24	27	30	32	35	38	40
-52.5°	10	12	13	15	17	19	21	23	25	27	28
-55°	8	9	10	11	12	14	15	17	18	19	20
-57.5°	6	6	7	8	9	10	11	12	12	13	14
-60°	4	5	5	6	6	7	8	8	9	9	9
-62.5°	2	3	3	4	4	5	5	6	6	6	7
-65°	2	2	2	2	2	3	3	3	4	4	4
-67.5°	1	1	1	1	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: P220430 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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°	1	1	1	2	1	1	1	1	1	1	1
67.5°	2	2	2	2	2	2	2	2	2	2	2
65°	4	5	5	5	5	5	4	4	4	4	3
62.5°	7	7	7	7	7	7	7	7	6	6	6
60°	10	10	10	10	10	10	10	9	9	9	8
57.5°	14	14	15	15	15	14	14	14	13	12	12
55°	21	21	21	22	21	21	21	20	19	18	17
52.5°	30	30	31	31	31	30	30	28	27	25	23
50°	41	42	43	43	43	42	41	40	38	35	32
47.5°	57	58	59	60	59	58	57	54	52	48	44
45°	78	80	81	82	81	80	78	74	70	65	59
42.5°	104	108	110	111	110	108	104	100	94	87	79
40°	138	142	145	146	145	142	138	131	123	114	104
37.5°	179	185	189	190	189	185	179	170	159	146	134
35°	227	235	240	242	240	235	227	216	203	187	170
32.5°	284	294	301	303	301	294	284	270	252	233	212
30°	346	359	366	369	366	359	346	330	309	285	258
27.5°	406	418	425	428	425	418	406	390	368	341	310
25°	459	470	477	480	477	470	459	443	422	395	364
22.5°	508	520	528	531	528	520	508	490	468	442	411
20°	556	571	579	583	579	571	556	536	512	484	453
17.5°	604	622	633	637	633	622	604	581	554	523	489
15°	654	676	688	692	688	676	654	627	595	561	523
12.5°	701	721	734	738	734	721	701	672	635	595	554
10°	738	759	772	776	772	759	738	709	672	627	581
7.5°	767	790	801	804	801	790	767	738	701	654	604
5°	790	807	807	805	807	807	790	759	721	676	622
2.5°	801	807	796	790	796	807	801	772	734	688	633
0°	804	805	790	787	790	805	804	776	738	692	637
-2.5°	801	807	796	790	796	807	801	772	734	688	633
-5°	790	807	807	805	807	807	790	759	721	676	622
-7.5°	767	790	801	804	801	790	767	738	701	654	604
-10°	738	759	772	776	772	759	738	709	672	627	581
-12.5°	701	721	734	738	734	721	701	672	635	595	554
-15°	654	676	688	692	688	676	654	627	595	561	523
-17.5°	604	622	633	637	633	622	604	581	554	523	489
-20°	556	571	579	583	579	571	556	536	512	484	453



REPORT NUMBER: P220430 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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°	508	520	528	531	528	520	508	490	468	442	411
-25°	459	470	477	480	477	470	459	443	422	395	364
-27.5°	406	418	425	428	425	418	406	390	368	341	310
-30°	346	359	366	369	366	359	346	330	309	285	258
-32.5°	284	294	301	303	301	294	284	270	252	233	212
-35°	227	235	240	242	240	235	227	216	203	187	170
-37.5°	179	185	189	190	189	185	179	170	159	146	134
-40°	138	142	145	146	145	142	138	131	123	114	104
-42.5°	104	108	110	111	110	108	104	100	94	87	79
-45°	78	80	81	82	81	80	78	74	70	65	59
-47.5°	57	58	59	60	59	58	57	54	52	48	44
-50°	41	42	43	43	43	42	41	40	38	35	32
-52.5°	30	30	31	31	31	30	30	28	27	25	23
-55°	21	21	21	22	21	21	21	20	19	18	17
-57.5°	14	14	15	15	15	14	14	14	13	12	12
-60°	10	10	10	10	10	10	10	9	9	9	8
-62.5°	7	7	7	7	7	7	7	7	6	6	6
-65°	4	5	5	5	5	5	4	4	4	4	3
-67.5°	2	2	2	2	2	2	2	2	2	2	2
-70°	1	1	1	2	1	1	1	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: P220430 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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	1	1	1	1	1	1	0	0
65°	3	3	2	2	2	2	2	1	1	1	1
62.5°	5	5	4	4	3	3	2	2	2	1	1
60°	8	7	6	6	5	5	4	3	2	2	2
57.5°	11	10	9	8	7	6	6	5	4	3	2
55°	15	14	12	11	10	9	8	7	6	5	4
52.5°	21	19	17	15	13	12	10	9	7	6	5
50°	30	27	24	21	18	16	13	11	9	8	7
47.5°	40	36	32	28	25	21	18	15	12	10	8
45°	54	48	43	38	32	28	23	19	16	13	10
42.5°	72	63	56	49	42	36	30	25	20	16	13
40°	94	82	73	62	53	45	38	31	25	20	16
37.5°	120	106	93	79	68	56	47	38	31	25	19
35°	152	134	117	100	84	70	57	47	38	30	23
32.5°	189	167	144	124	104	86	70	56	45	36	28
30°	231	203	176	149	126	104	84	68	53	42	32
27.5°	277	243	211	179	149	124	100	79	62	49	38
25°	326	287	247	211	176	144	117	93	73	56	43
22.5°	375	332	287	243	203	167	134	106	82	63	48
20°	417	375	326	277	231	189	152	120	94	72	54
17.5°	453	411	364	310	258	212	170	134	104	79	59
15°	484	442	395	341	285	233	187	146	114	87	65
12.5°	512	468	422	368	309	252	203	159	123	94	70
10°	536	490	443	390	330	270	216	170	131	100	74
7.5°	556	508	459	406	346	284	227	179	138	104	78
5°	571	520	470	418	359	294	235	185	142	108	80
2.5°	579	528	477	425	366	301	240	189	145	110	81
0°	583	531	480	428	369	303	242	190	146	111	82
-2.5°	579	528	477	425	366	301	240	189	145	110	81
-5°	571	520	470	418	359	294	235	185	142	108	80
-7.5°	556	508	459	406	346	284	227	179	138	104	78
-10°	536	490	443	390	330	270	216	170	131	100	74
-12.5°	512	468	422	368	309	252	203	159	123	94	70
-15°	484	442	395	341	285	233	187	146	114	87	65
-17.5°	453	411	364	310	258	212	170	134	104	79	59
-20°	417	375	326	277	231	189	152	120	94	72	54



REPORT NUMBER: P220430 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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°	375	332	287	243	203	167	134	106	82	63	48
-25°	326	287	247	211	176	144	117	93	73	56	43
-27.5°	277	243	211	179	149	124	100	79	62	49	38
-30°	231	203	176	149	126	104	84	68	53	42	32
-32.5°	189	167	144	124	104	86	70	56	45	36	28
-35°	152	134	117	100	84	70	57	47	38	30	23
-37.5°	120	106	93	79	68	56	47	38	31	25	19
-40°	94	82	73	62	53	45	38	31	25	20	16
-42.5°	72	63	56	49	42	36	30	25	20	16	13
-45°	54	48	43	38	32	28	23	19	16	13	10
-47.5°	40	36	32	28	25	21	18	15	12	10	8
-50°	30	27	24	21	18	16	13	11	9	8	7
-52.5°	21	19	17	15	13	12	10	9	7	6	5
-55°	15	14	12	11	10	9	8	7	6	5	4
-57.5°	11	10	9	8	7	6	6	5	4	3	2
-60°	8	7	6	6	5	5	4	3	2	2	2
-62.5°	5	5	4	4	3	3	2	2	2	1	1
-65°	3	3	2	2	2	2	2	1	1	1	1
-67.5°	2	2	2	1	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: P220430 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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°	1	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°	5	4	3	2	2	1	1	0	0	0	0
47.5°	7	5	4	3	2	1	1	1	0	0	0
45°	8	7	5	4	2	2	1	1	0	0	0
42.5°	10	8	6	5	3	2	1	1	0	0	0
40°	12	9	7	6	4	2	2	1	1	0	0
37.5°	15	11	9	7	5	3	2	1	1	0	0
35°	18	13	10	8	6	4	2	2	1	0	0
32.5°	21	16	12	9	6	5	3	2	1	1	0
30°	25	18	13	10	7	5	3	2	1	1	0
27.5°	28	21	15	11	8	6	4	2	1	1	0
25°	32	24	17	12	9	6	4	2	2	1	0
22.5°	36	27	19	14	10	7	5	3	2	1	0
20°	40	30	21	15	11	8	5	3	2	1	0
17.5°	44	32	23	17	12	8	6	3	2	1	1
15°	48	35	25	18	12	9	6	4	2	1	1
12.5°	52	38	27	19	13	9	6	4	2	1	1
10°	54	40	28	20	14	9	7	4	2	1	1
7.5°	57	41	30	21	14	10	7	4	2	1	1
5°	58	42	30	21	14	10	7	5	2	1	1
2.5°	59	43	31	21	15	10	7	5	2	1	1
0°	60	43	31	22	15	10	7	5	2	2	1
-2.5°	59	43	31	21	15	10	7	5	2	1	1
-5°	58	42	30	21	14	10	7	5	2	1	1
-7.5°	57	41	30	21	14	10	7	4	2	1	1
-10°	54	40	28	20	14	9	7	4	2	1	1
-12.5°	52	38	27	19	13	9	6	4	2	1	1
-15°	48	35	25	18	12	9	6	4	2	1	1
-17.5°	44	32	23	17	12	8	6	3	2	1	1
-20°	40	30	21	15	11	8	5	3	2	1	0



REPORT NUMBER: P220430 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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°	36	27	19	14	10	7	5	3	2	1	0
-25°	32	24	17	12	9	6	4	2	2	1	0
-27.5°	28	21	15	11	8	6	4	2	1	1	0
-30°	25	18	13	10	7	5	3	2	1	1	0
-32.5°	21	16	12	9	6	5	3	2	1	1	0
-35°	18	13	10	8	6	4	2	2	1	0	0
-37.5°	15	11	9	7	5	3	2	1	1	0	0
-40°	12	9	7	6	4	2	2	1	1	0	0
-42.5°	10	8	6	5	3	2	1	1	0	0	0
-45°	8	7	5	4	2	2	1	1	0	0	0
-47.5°	7	5	4	3	2	1	1	1	0	0	0
-50°	5	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°	1	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: P220430 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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: P220430 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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)