

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: P220432 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1002-[A1, P1, S1, SU1]-FL-LED4097-W-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220432 (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-LED4097-W-BK-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS,
WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

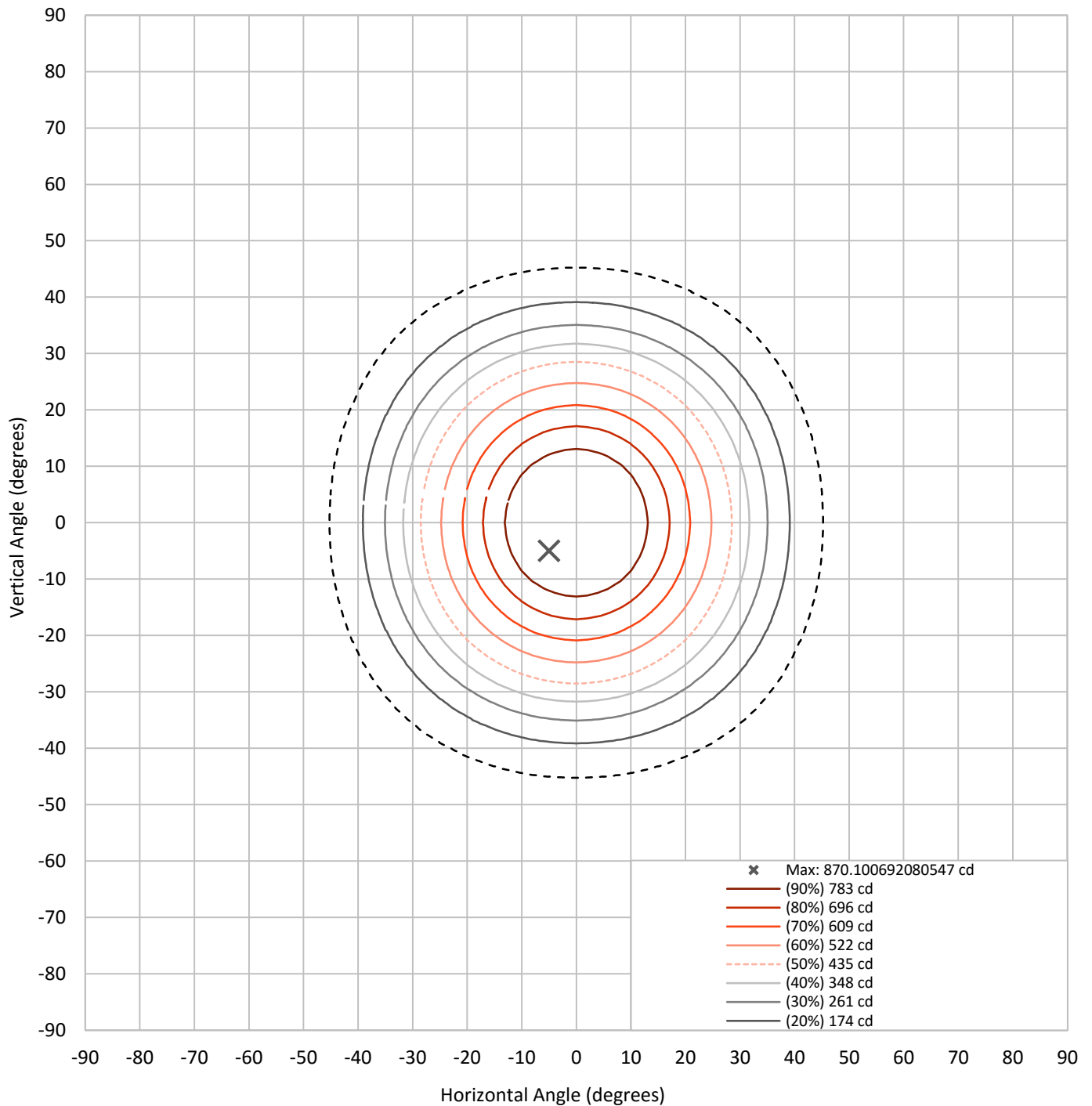
Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	788 lumens	Max Intensity:	870.1 candela
Efficiency:	N/A	Max Intensity Angle:	-5°H x -5°V
Efficacy:	78.8 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	56.2°H x 56.2°V	Field Angle (10%):	89.9°H x 89.9°V
Beam Lumens:	486.2 lumens	Field Lumens:	734.8 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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CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-W-BK-L1-UNV

Iso-Candela Plot

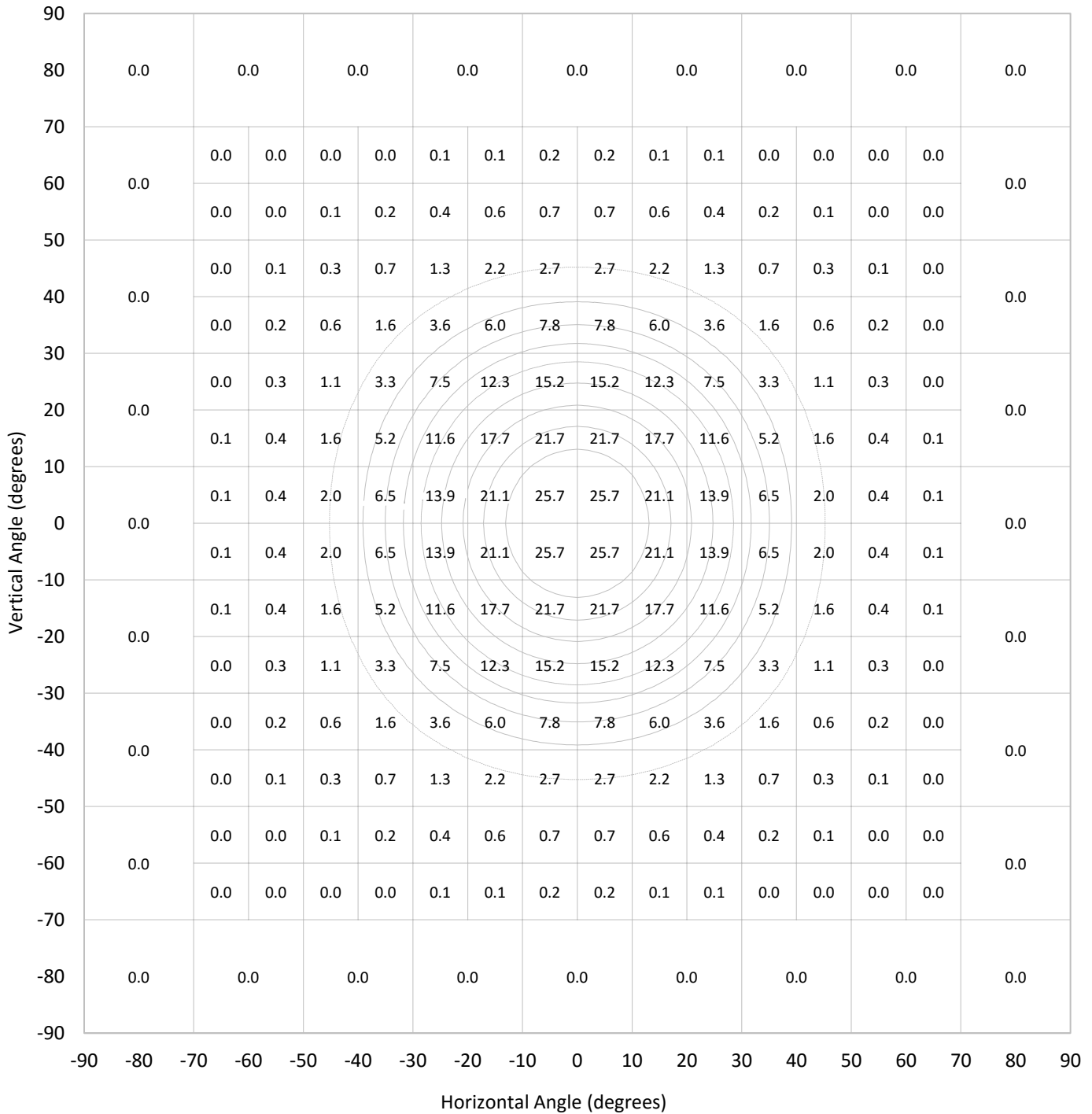




REPORT NUMBER: P220432 (CONVERTED FROM TYPE C PHOTOMETRY)

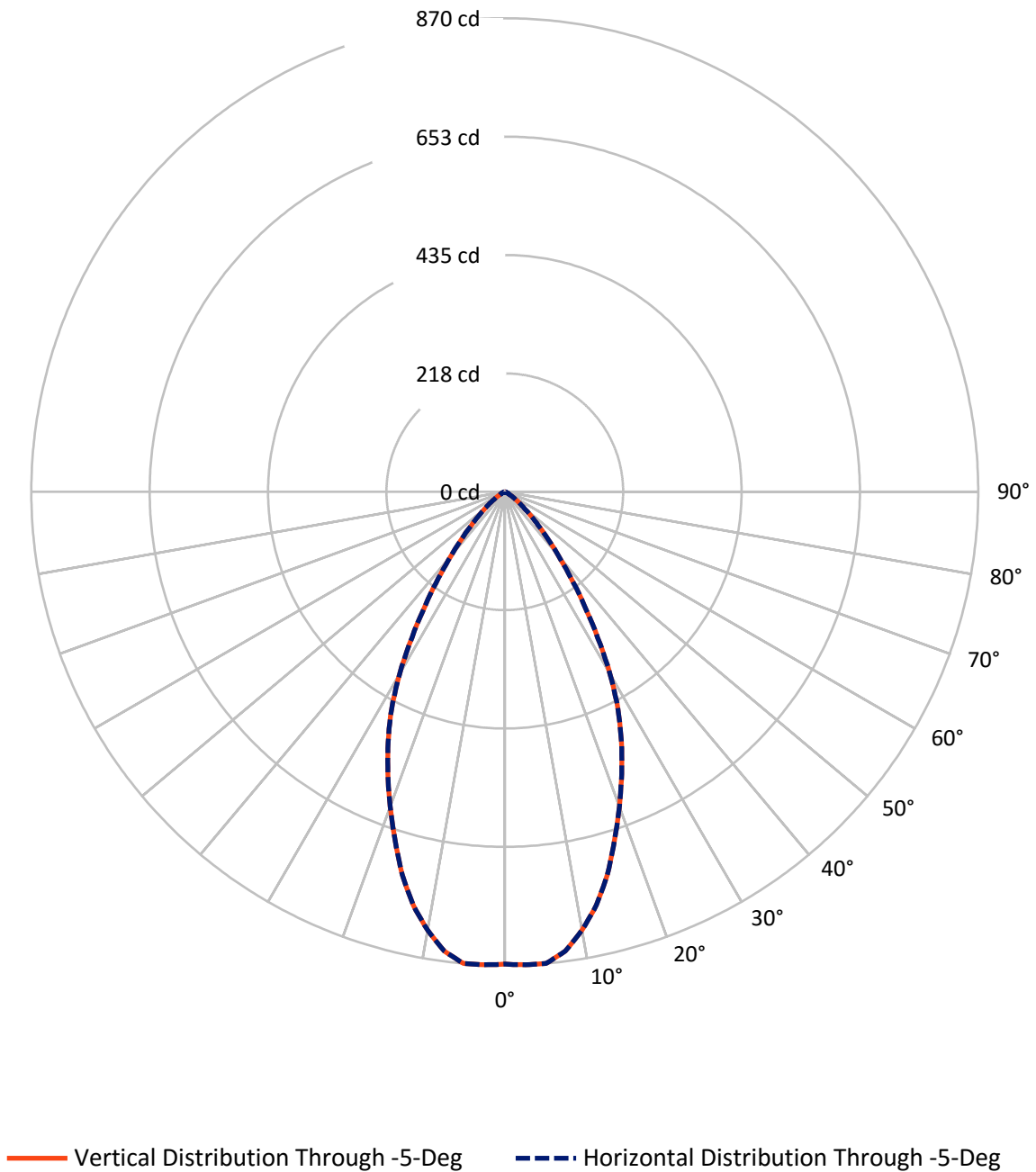
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-W-BK-L1-UNV

Lumen Table



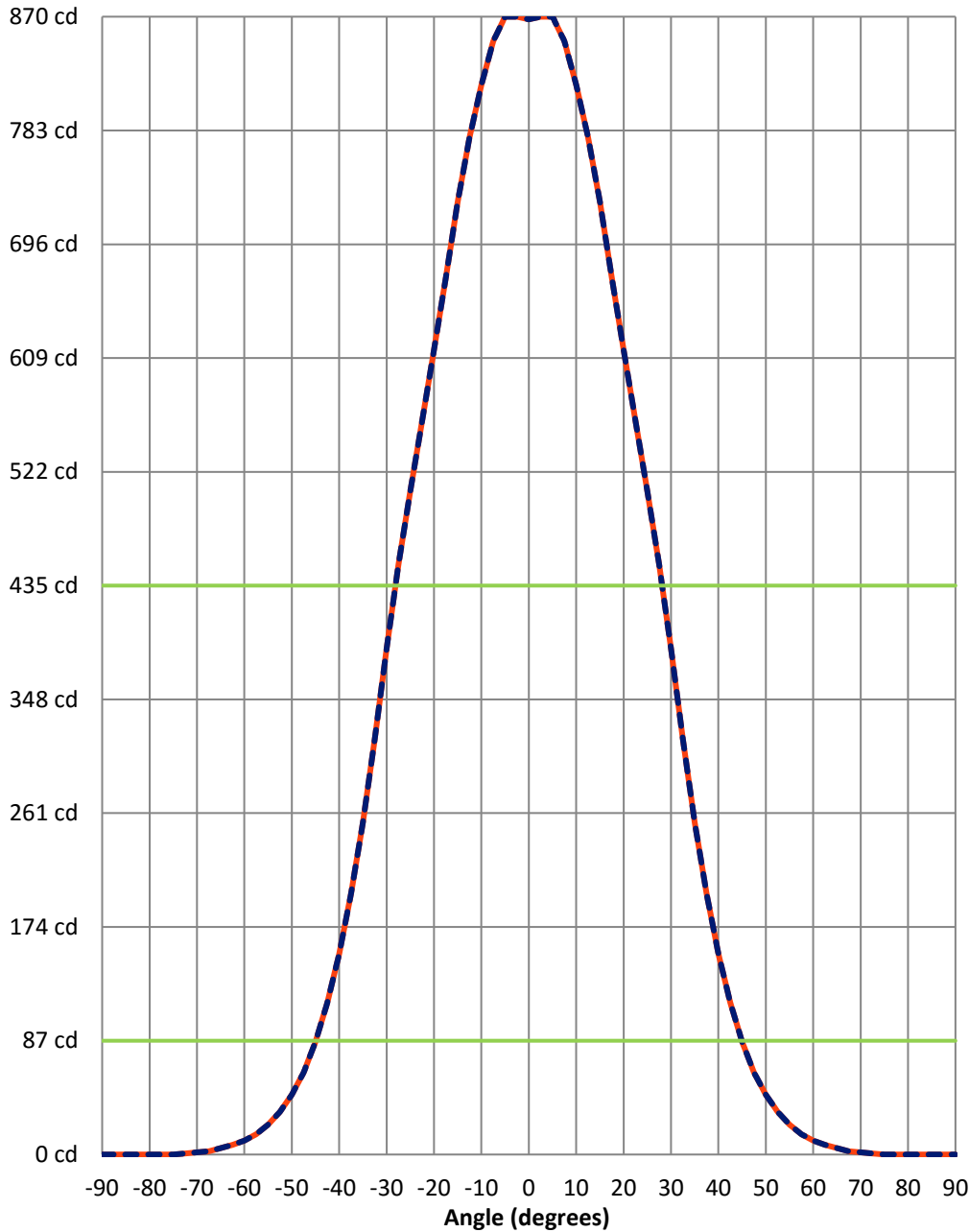
REPORT NUMBER: P220432 (CONVERTED FROM TYPE C PHOTOMETRY)
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 56.2°
 V Angle: 56.2°
 Lumens: 486.2
 Efficiency: 61.7%

Field:
 H Angle: 89.9°
 V Angle: 89.9°
 Lumens: 734.8
 Efficiency: 93.3%

Spill:
 Lumens: 53.2
 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	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	2	2	4
10°	0	0	0	0	0	0	0	1	2	2	5
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	3	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	2	2	5
-12.5°	0	0	0	0	0	0	0	1	2	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: P220432 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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: P220432 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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	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	9	10	12
47.5°	1	2	2	3	4	6	7	9	11	13	16
45°	1	2	2	4	5	7	9	11	14	17	21
42.5°	2	2	3	5	7	9	11	14	17	21	26
40°	2	3	4	6	8	10	13	17	21	27	33
37.5°	2	3	5	7	9	12	16	21	26	33	41
35°	2	4	6	8	11	14	19	25	32	41	50
32.5°	3	5	7	9	13	17	23	30	38	48	61
30°	4	6	8	11	14	20	27	35	45	58	73
27.5°	4	6	9	12	16	23	31	41	53	67	86
25°	5	7	10	13	19	26	35	46	60	78	100
22.5°	5	8	10	15	21	29	39	52	68	89	115
20°	6	8	11	16	23	32	44	58	77	101	130
17.5°	6	9	12	18	25	35	47	63	85	112	145
15°	6	9	13	19	27	38	52	70	93	123	158
12.5°	7	10	14	20	29	41	56	75	101	133	172
10°	7	10	15	21	31	43	59	80	108	142	184
7.5°	7	10	15	22	32	45	61	84	113	149	193
5°	7	11	16	23	33	46	63	86	116	153	200
2.5°	7	11	16	23	33	46	64	88	118	156	204
0°	7	11	16	23	33	47	64	88	119	157	205
-2.5°	7	11	16	23	33	46	64	88	118	156	204
-5°	7	11	16	23	33	46	63	86	116	153	200
-7.5°	7	10	15	22	32	45	61	84	113	149	193
-10°	7	10	15	21	31	43	59	80	108	142	184
-12.5°	7	10	14	20	29	41	56	75	101	133	172
-15°	6	9	13	19	27	38	52	70	93	123	158
-17.5°	6	9	12	18	25	35	47	63	85	112	145
-20°	6	8	11	16	23	32	44	58	77	101	130



REPORT NUMBER: P220432 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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	10	15	21	29	39	52	68	89	115
-25°	5	7	10	13	19	26	35	46	60	78	100
-27.5°	4	6	9	12	16	23	31	41	53	67	86
-30°	4	6	8	11	14	20	27	35	45	58	73
-32.5°	3	5	7	9	13	17	23	30	38	48	61
-35°	2	4	6	8	11	14	19	25	32	41	50
-37.5°	2	3	5	7	9	12	16	21	26	33	41
-40°	2	3	4	6	8	10	13	17	21	27	33
-42.5°	2	2	3	5	7	9	11	14	17	21	26
-45°	1	2	2	4	5	7	9	11	14	17	21
-47.5°	1	2	2	3	4	6	7	9	11	13	16
-50°	1	1	2	2	3	4	6	7	9	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	3	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	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



REPORT NUMBER: P220432 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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	2	2
67.5°	1	1	1	2	2	2	2	2	2	2	2
65°	2	2	2	2	3	3	3	4	4	4	5
62.5°	2	3	4	4	5	5	6	6	6	7	7
60°	4	5	6	6	7	8	8	9	9	10	10
57.5°	6	7	8	9	10	10	11	12	13	14	15
55°	8	9	11	12	13	15	16	18	19	20	21
52.5°	11	13	14	16	19	21	23	25	27	29	31
50°	14	17	20	23	26	29	32	35	38	41	43
47.5°	19	23	27	31	35	39	44	47	52	56	59
45°	25	30	35	41	46	52	58	63	70	75	80
42.5°	32	38	45	53	60	68	77	85	93	101	108
40°	41	48	58	67	78	89	101	112	123	133	142
37.5°	50	61	73	86	100	115	130	145	158	172	184
35°	62	76	91	108	126	145	164	184	201	218	233
32.5°	76	93	112	133	155	180	203	228	251	272	291
30°	91	112	136	161	190	219	249	279	307	333	356
27.5°	108	133	161	193	227	262	299	334	368	397	421
25°	126	155	190	227	267	310	352	392	426	455	478
22.5°	145	180	219	262	310	358	404	443	477	505	528
20°	164	203	249	299	352	404	449	488	521	552	578
17.5°	184	228	279	334	392	443	488	527	564	598	626
15°	201	251	307	368	426	477	521	564	604	641	676
12.5°	218	272	333	397	455	505	552	598	641	684	725
10°	233	291	356	421	478	528	578	626	676	725	765
7.5°	245	307	374	438	495	547	600	652	706	756	796
5°	254	318	387	451	507	561	615	671	729	778	818
2.5°	259	324	395	459	515	570	625	683	742	791	832
0°	261	327	397	461	517	573	628	687	746	796	837
-2.5°	259	324	395	459	515	570	625	683	742	791	832
-5°	254	318	387	451	507	561	615	671	729	778	818
-7.5°	245	307	374	438	495	547	600	652	706	756	796
-10°	233	291	356	421	478	528	578	626	676	725	765
-12.5°	218	272	333	397	455	505	552	598	641	684	725
-15°	201	251	307	368	426	477	521	564	604	641	676
-17.5°	184	228	279	334	392	443	488	527	564	598	626
-20°	164	203	249	299	352	404	449	488	521	552	578



REPORT NUMBER: P220432 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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°	145	180	219	262	310	358	404	443	477	505	528
-25°	126	155	190	227	267	310	352	392	426	455	478
-27.5°	108	133	161	193	227	262	299	334	368	397	421
-30°	91	112	136	161	190	219	249	279	307	333	356
-32.5°	76	93	112	133	155	180	203	228	251	272	291
-35°	62	76	91	108	126	145	164	184	201	218	233
-37.5°	50	61	73	86	100	115	130	145	158	172	184
-40°	41	48	58	67	78	89	101	112	123	133	142
-42.5°	32	38	45	53	60	68	77	85	93	101	108
-45°	25	30	35	41	46	52	58	63	70	75	80
-47.5°	19	23	27	31	35	39	44	47	52	56	59
-50°	14	17	20	23	26	29	32	35	38	41	43
-52.5°	11	13	14	16	19	21	23	25	27	29	31
-55°	8	9	11	12	13	15	16	18	19	20	21
-57.5°	6	7	8	9	10	10	11	12	13	14	15
-60°	4	5	6	6	7	8	8	9	9	10	10
-62.5°	2	3	4	4	5	5	6	6	6	7	7
-65°	2	2	2	2	3	3	3	4	4	4	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	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: P220432 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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°	2	2	2	3	2	2	2	2	2	2	2
65°	5	5	5	5	5	5	5	5	4	4	4
62.5°	7	7	7	7	7	7	7	7	7	6	6
60°	10	11	11	11	11	11	10	10	10	9	9
57.5°	15	16	16	16	16	16	15	15	14	13	12
55°	22	23	23	23	23	23	22	21	20	19	18
52.5°	32	33	33	33	33	33	32	31	29	27	25
50°	45	46	46	47	46	46	45	43	41	38	35
47.5°	61	63	64	64	64	63	61	59	56	52	47
45°	84	86	88	88	88	86	84	80	75	70	63
42.5°	113	116	118	119	118	116	113	108	101	93	85
40°	149	153	156	157	156	153	149	142	133	123	112
37.5°	193	200	204	205	204	200	193	184	172	158	145
35°	245	254	259	261	259	254	245	233	218	201	184
32.5°	307	318	324	327	324	318	307	291	272	251	228
30°	374	387	395	397	395	387	374	356	333	307	279
27.5°	438	451	459	461	459	451	438	421	397	368	334
25°	495	507	515	517	515	507	495	478	455	426	392
22.5°	547	561	570	573	570	561	547	528	505	477	443
20°	600	615	625	628	625	615	600	578	552	521	488
17.5°	652	671	683	687	683	671	652	626	598	564	527
15°	706	729	742	746	742	729	706	676	641	604	564
12.5°	756	778	791	796	791	778	756	725	684	641	598
10°	796	818	832	837	832	818	796	765	725	676	626
7.5°	827	851	864	867	864	851	827	796	756	706	652
5°	851	870	870	868	870	870	851	818	778	729	671
2.5°	864	870	859	851	859	870	864	832	791	742	683
0°	867	868	851	848	851	868	867	837	796	746	687
-2.5°	864	870	859	851	859	870	864	832	791	742	683
-5°	851	870	870	868	870	870	851	818	778	729	671
-7.5°	827	851	864	867	864	851	827	796	756	706	652
-10°	796	818	832	837	832	818	796	765	725	676	626
-12.5°	756	778	791	796	791	778	756	725	684	641	598
-15°	706	729	742	746	742	729	706	676	641	604	564
-17.5°	652	671	683	687	683	671	652	626	598	564	527
-20°	600	615	625	628	625	615	600	578	552	521	488



REPORT NUMBER: P220432 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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°	547	561	570	573	570	561	547	528	505	477	443
-25°	495	507	515	517	515	507	495	478	455	426	392
-27.5°	438	451	459	461	459	451	438	421	397	368	334
-30°	374	387	395	397	395	387	374	356	333	307	279
-32.5°	307	318	324	327	324	318	307	291	272	251	228
-35°	245	254	259	261	259	254	245	233	218	201	184
-37.5°	193	200	204	205	204	200	193	184	172	158	145
-40°	149	153	156	157	156	153	149	142	133	123	112
-42.5°	113	116	118	119	118	116	113	108	101	93	85
-45°	84	86	88	88	88	86	84	80	75	70	63
-47.5°	61	63	64	64	64	63	61	59	56	52	47
-50°	45	46	46	47	46	46	45	43	41	38	35
-52.5°	32	33	33	33	33	33	32	31	29	27	25
-55°	22	23	23	23	23	23	22	21	20	19	18
-57.5°	15	16	16	16	16	16	15	15	14	13	12
-60°	10	11	11	11	11	11	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	5	4	4	4
-67.5°	2	2	2	3	2	2	2	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: P220432 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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	3	2	2	2	2	2	1	1	1
62.5°	6	5	5	4	4	3	2	2	2	2	1
60°	8	8	7	6	6	5	4	3	3	2	2
57.5°	11	10	10	9	8	7	6	5	4	3	2
55°	16	15	13	12	11	9	8	7	6	5	4
52.5°	23	21	19	16	14	13	11	9	8	7	5
50°	32	29	26	23	20	17	14	12	10	9	7
47.5°	44	39	35	31	27	23	19	16	13	11	9
45°	58	52	46	41	35	30	25	21	17	14	11
42.5°	77	68	60	53	45	38	32	26	21	17	14
40°	101	89	78	67	58	48	41	33	27	21	17
37.5°	130	115	100	86	73	61	50	41	33	26	21
35°	164	145	126	108	91	76	62	50	41	32	25
32.5°	203	180	155	133	112	93	76	61	48	38	30
30°	249	219	190	161	136	112	91	73	58	45	35
27.5°	299	262	227	193	161	133	108	86	67	53	41
25°	352	310	267	227	190	155	126	100	78	60	46
22.5°	404	358	310	262	219	180	145	115	89	68	52
20°	449	404	352	299	249	203	164	130	101	77	58
17.5°	488	443	392	334	279	228	184	145	112	85	63
15°	521	477	426	368	307	251	201	158	123	93	70
12.5°	552	505	455	397	333	272	218	172	133	101	75
10°	578	528	478	421	356	291	233	184	142	108	80
7.5°	600	547	495	438	374	307	245	193	149	113	84
5°	615	561	507	451	387	318	254	200	153	116	86
2.5°	625	570	515	459	395	324	259	204	156	118	88
0°	628	573	517	461	397	327	261	205	157	119	88
-2.5°	625	570	515	459	395	324	259	204	156	118	88
-5°	615	561	507	451	387	318	254	200	153	116	86
-7.5°	600	547	495	438	374	307	245	193	149	113	84
-10°	578	528	478	421	356	291	233	184	142	108	80
-12.5°	552	505	455	397	333	272	218	172	133	101	75
-15°	521	477	426	368	307	251	201	158	123	93	70
-17.5°	488	443	392	334	279	228	184	145	112	85	63
-20°	449	404	352	299	249	203	164	130	101	77	58



REPORT NUMBER: P220432 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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°	404	358	310	262	219	180	145	115	89	68	52
-25°	352	310	267	227	190	155	126	100	78	60	46
-27.5°	299	262	227	193	161	133	108	86	67	53	41
-30°	249	219	190	161	136	112	91	73	58	45	35
-32.5°	203	180	155	133	112	93	76	61	48	38	30
-35°	164	145	126	108	91	76	62	50	41	32	25
-37.5°	130	115	100	86	73	61	50	41	33	26	21
-40°	101	89	78	67	58	48	41	33	27	21	17
-42.5°	77	68	60	53	45	38	32	26	21	17	14
-45°	58	52	46	41	35	30	25	21	17	14	11
-47.5°	44	39	35	31	27	23	19	16	13	11	9
-50°	32	29	26	23	20	17	14	12	10	9	7
-52.5°	23	21	19	16	14	13	11	9	8	7	5
-55°	16	15	13	12	11	9	8	7	6	5	4
-57.5°	11	10	10	9	8	7	6	5	4	3	2
-60°	8	8	7	6	6	5	4	3	3	2	2
-62.5°	6	5	5	4	4	3	2	2	2	2	1
-65°	3	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°	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: P220432 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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°	11	9	7	5	3	2	2	1	0	0	0
40°	13	10	8	6	4	3	2	1	1	0	0
37.5°	16	12	9	7	5	3	2	2	1	0	0
35°	19	14	11	8	6	4	2	2	1	0	0
32.5°	23	17	13	9	7	5	3	2	1	1	0
30°	27	20	14	11	8	6	4	2	1	1	0
27.5°	31	23	16	12	9	6	4	2	2	1	0
25°	35	26	19	13	10	7	5	3	2	1	0
22.5°	39	29	21	15	10	8	5	3	2	1	0
20°	44	32	23	16	11	8	6	3	2	1	0
17.5°	47	35	25	18	12	9	6	4	2	1	1
15°	52	38	27	19	13	9	6	4	2	1	1
12.5°	56	41	29	20	14	10	7	4	2	2	1
10°	59	43	31	21	15	10	7	5	2	2	1
7.5°	61	45	32	22	15	10	7	5	2	2	1
5°	63	46	33	23	16	11	7	5	2	2	1
2.5°	64	46	33	23	16	11	7	5	2	2	1
0°	64	47	33	23	16	11	7	5	3	2	1
-2.5°	64	46	33	23	16	11	7	5	2	2	1
-5°	63	46	33	23	16	11	7	5	2	2	1
-7.5°	61	45	32	22	15	10	7	5	2	2	1
-10°	59	43	31	21	15	10	7	5	2	2	1
-12.5°	56	41	29	20	14	10	7	4	2	2	1
-15°	52	38	27	19	13	9	6	4	2	1	1
-17.5°	47	35	25	18	12	9	6	4	2	1	1
-20°	44	32	23	16	11	8	6	3	2	1	0



REPORT NUMBER: P220432 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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°	39	29	21	15	10	8	5	3	2	1	0
-25°	35	26	19	13	10	7	5	3	2	1	0
-27.5°	31	23	16	12	9	6	4	2	2	1	0
-30°	27	20	14	11	8	6	4	2	1	1	0
-32.5°	23	17	13	9	7	5	3	2	1	1	0
-35°	19	14	11	8	6	4	2	2	1	0	0
-37.5°	16	12	9	7	5	3	2	2	1	0	0
-40°	13	10	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	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: P220432 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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: P220432 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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)