

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: P220426 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1002-[A1, P1, S1, SU1]-FL-LED3090-W-BK-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220426 (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-LED3090-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, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

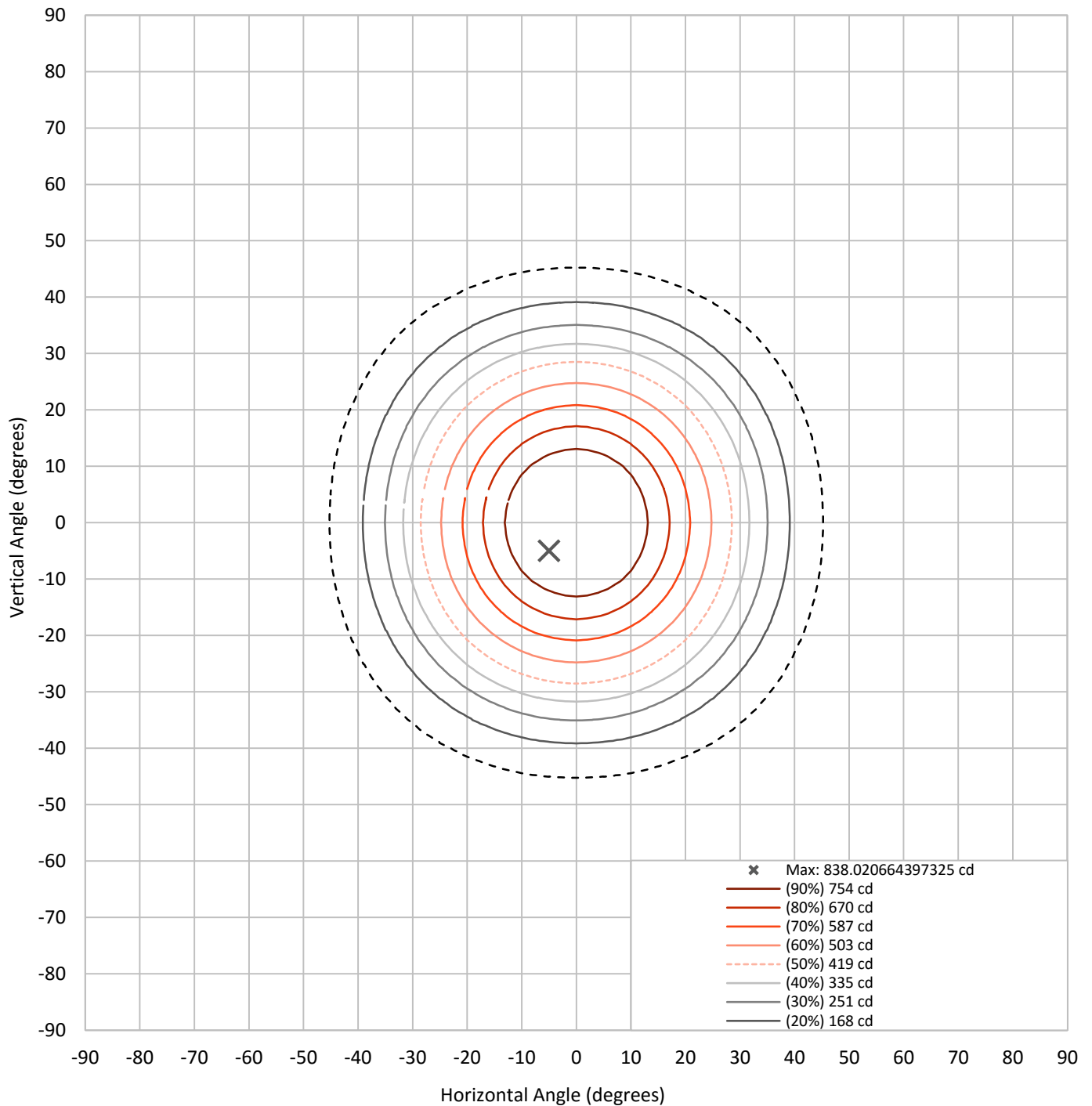
Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	759 lumens	Max Intensity:	838 candela
Efficiency:	N/A	Max Intensity Angle:	-5°H x -5°V
Efficacy:	75.9 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	56.2°H x 56.2°V	Field Angle (10%):	89.9°H x 89.9°V
Beam Lumens:	468.2 lumens	Field Lumens:	707.7 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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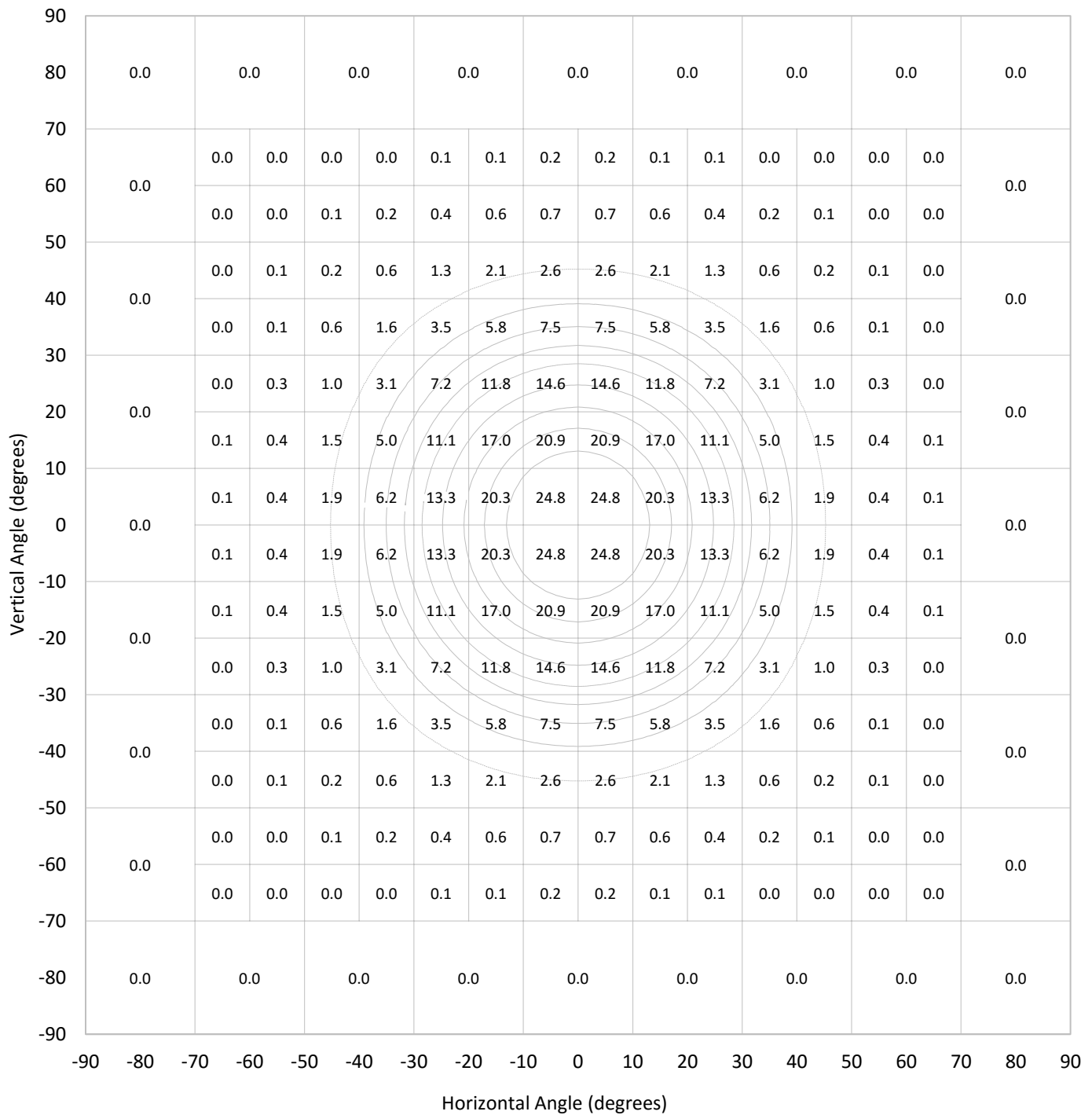
### Iso-Candela Plot





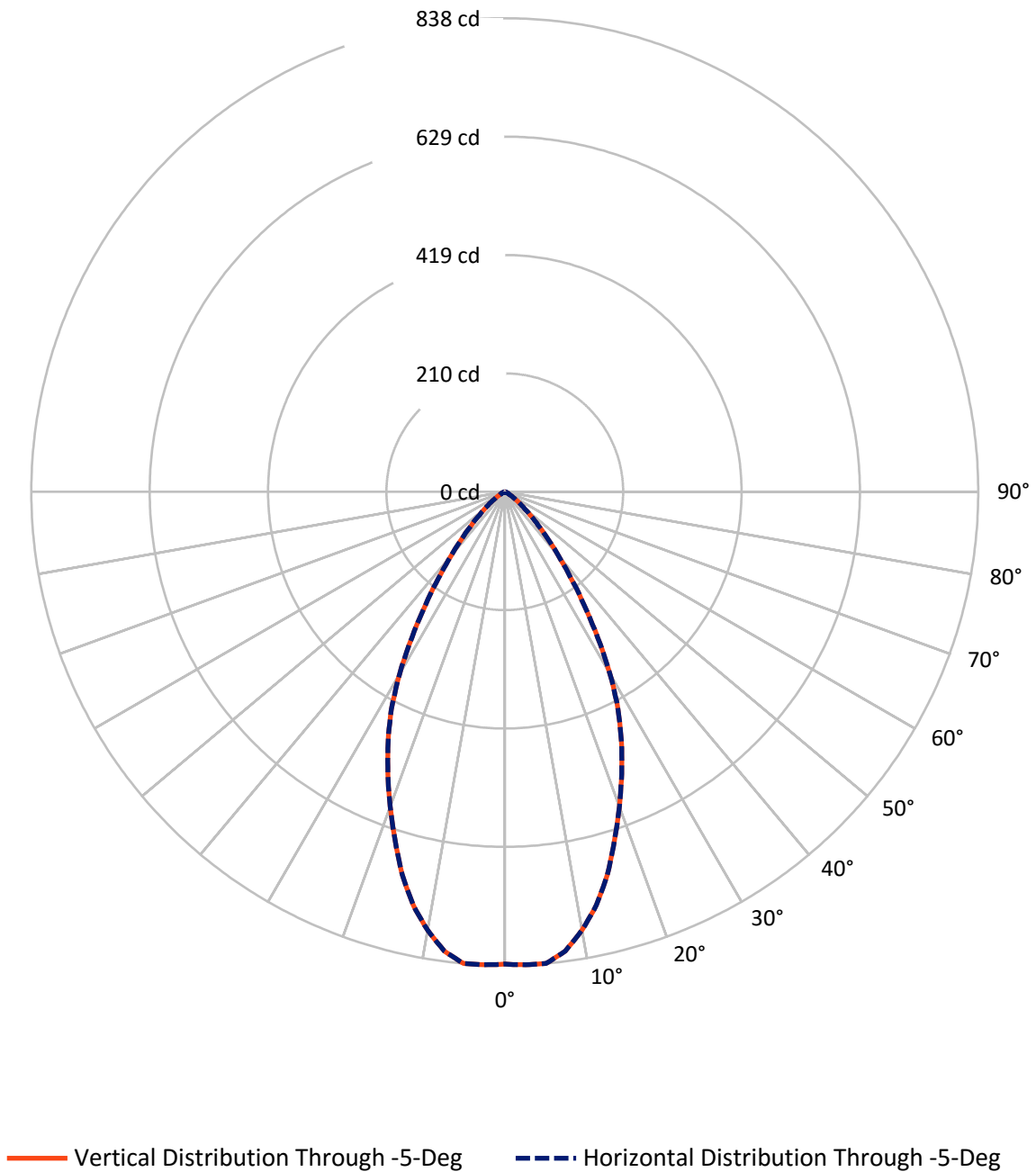
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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-W-BK-L1-UNV

### Lumen Table



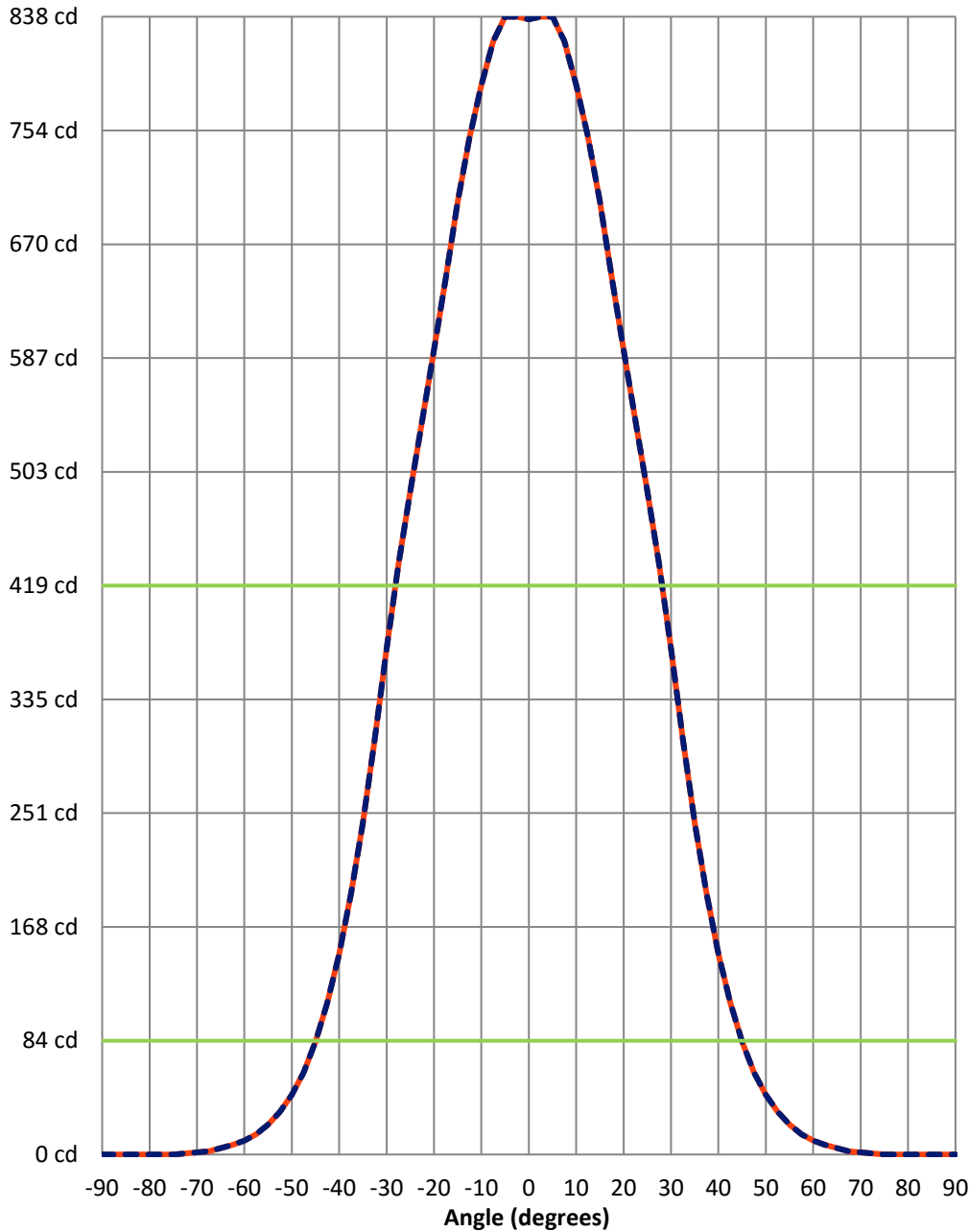
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### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 56.2°  
 V Angle: 56.2°  
 Lumens: 468.2  
 Efficiency: 61.7%

**Field:**  
 H Angle: 89.9°  
 V Angle: 89.9°  
 Lumens: 707.7  
 Efficiency: 93.3%

**Spill:**  
 Lumens: 51.2  
 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	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: P220426 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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: P220426 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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	6	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	10	13	16	20
42.5°	2	2	3	5	6	8	10	13	16	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	18	24	31	39	48
32.5°	3	5	7	9	12	16	22	29	37	47	58
30°	3	5	7	10	14	19	26	33	43	55	70
27.5°	4	6	8	12	16	22	29	39	51	65	83
25°	5	7	9	13	18	25	33	44	58	75	97
22.5°	5	7	10	14	20	28	38	50	66	86	110
20°	5	8	11	16	22	31	42	56	74	97	125
17.5°	6	8	12	17	24	34	46	61	82	108	139
15°	6	9	13	19	26	37	50	67	90	118	152
12.5°	7	9	14	20	28	39	53	73	97	128	166
10°	7	10	14	21	30	41	56	77	104	136	177
7.5°	7	10	15	21	31	43	59	81	108	143	186
5°	7	10	15	22	31	44	60	83	112	148	192
2.5°	7	10	15	22	32	45	61	85	114	151	196
0°	7	10	15	23	32	45	62	85	115	152	197
-2.5°	7	10	15	22	32	45	61	85	114	151	196
-5°	7	10	15	22	31	44	60	83	112	148	192
-7.5°	7	10	15	21	31	43	59	81	108	143	186
-10°	7	10	14	21	30	41	56	77	104	136	177
-12.5°	7	9	14	20	28	39	53	73	97	128	166
-15°	6	9	13	19	26	37	50	67	90	118	152
-17.5°	6	8	12	17	24	34	46	61	82	108	139
-20°	5	8	11	16	22	31	42	56	74	97	125



REPORT NUMBER: P220426 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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	20	28	38	50	66	86	110
-25°	5	7	9	13	18	25	33	44	58	75	97
-27.5°	4	6	8	12	16	22	29	39	51	65	83
-30°	3	5	7	10	14	19	26	33	43	55	70
-32.5°	3	5	7	9	12	16	22	29	37	47	58
-35°	2	4	6	8	10	14	18	24	31	39	48
-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	6	8	10	13	16	21	26
-45°	1	2	2	4	5	7	9	10	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	6	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: P220426 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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	5	6	6	7	7
60°	4	5	5	6	7	7	8	8	9	9	10
57.5°	6	7	7	8	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	20	22	24	26	28	30
50°	14	16	19	22	25	28	31	34	37	39	41
47.5°	18	22	26	29	33	38	42	46	50	53	56
45°	24	29	33	39	44	50	56	61	67	73	77
42.5°	31	37	43	51	58	66	74	82	90	97	104
40°	39	47	55	65	75	86	97	108	118	128	136
37.5°	48	58	70	83	97	110	125	139	152	166	177
35°	59	73	87	104	121	140	158	177	194	210	225
32.5°	73	89	108	128	149	173	196	220	242	262	280
30°	87	108	131	155	183	211	240	268	296	321	342
27.5°	104	128	155	186	219	252	288	322	354	383	405
25°	121	149	183	219	257	298	339	378	411	438	460
22.5°	140	173	211	252	298	345	389	427	460	486	509
20°	158	196	240	288	339	389	433	470	502	531	557
17.5°	177	220	268	322	378	427	470	508	543	576	603
15°	194	242	296	354	411	460	502	543	582	618	651
12.5°	210	262	321	383	438	486	531	576	618	659	698
10°	225	280	342	405	460	509	557	603	651	698	737
7.5°	236	295	360	422	477	527	577	628	680	728	767
5°	244	306	372	434	489	540	593	646	702	749	788
2.5°	249	312	380	442	496	549	602	658	715	762	801
0°	251	315	383	444	498	552	605	662	719	766	806
-2.5°	249	312	380	442	496	549	602	658	715	762	801
-5°	244	306	372	434	489	540	593	646	702	749	788
-7.5°	236	295	360	422	477	527	577	628	680	728	767
-10°	225	280	342	405	460	509	557	603	651	698	737
-12.5°	210	262	321	383	438	486	531	576	618	659	698
-15°	194	242	296	354	411	460	502	543	582	618	651
-17.5°	177	220	268	322	378	427	470	508	543	576	603
-20°	158	196	240	288	339	389	433	470	502	531	557



REPORT NUMBER: P220426 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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°	140	173	211	252	298	345	389	427	460	486	509
-25°	121	149	183	219	257	298	339	378	411	438	460
-27.5°	104	128	155	186	219	252	288	322	354	383	405
-30°	87	108	131	155	183	211	240	268	296	321	342
-32.5°	73	89	108	128	149	173	196	220	242	262	280
-35°	59	73	87	104	121	140	158	177	194	210	225
-37.5°	48	58	70	83	97	110	125	139	152	166	177
-40°	39	47	55	65	75	86	97	108	118	128	136
-42.5°	31	37	43	51	58	66	74	82	90	97	104
-45°	24	29	33	39	44	50	56	61	67	73	77
-47.5°	18	22	26	29	33	38	42	46	50	53	56
-50°	14	16	19	22	25	28	31	34	37	39	41
-52.5°	10	12	14	16	18	20	22	24	26	28	30
-55°	8	9	10	12	13	14	16	17	19	20	21
-57.5°	6	7	7	8	9	10	11	12	13	14	14
-60°	4	5	5	6	7	7	8	8	9	9	10
-62.5°	2	3	3	4	5	5	5	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: P220426 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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	10	10	10	10	10	10	9	9	8
57.5°	15	15	15	15	15	15	15	14	14	13	12
55°	21	22	22	23	22	22	21	21	20	19	17
52.5°	31	31	32	32	32	31	31	30	28	26	24
50°	43	44	45	45	45	44	43	41	39	37	34
47.5°	59	60	61	62	61	60	59	56	53	50	46
45°	81	83	85	85	85	83	81	77	73	67	61
42.5°	108	112	114	115	114	112	108	104	97	90	82
40°	143	148	151	152	151	148	143	136	128	118	108
37.5°	186	192	196	197	196	192	186	177	166	152	139
35°	236	244	249	251	249	244	236	225	210	194	177
32.5°	295	306	312	315	312	306	295	280	262	242	220
30°	360	372	380	383	380	372	360	342	321	296	268
27.5°	422	434	442	444	442	434	422	405	383	354	322
25°	477	489	496	498	496	489	477	460	438	411	378
22.5°	527	540	549	552	549	540	527	509	486	460	427
20°	577	593	602	605	602	593	577	557	531	502	470
17.5°	628	646	658	662	658	646	628	603	576	543	508
15°	680	702	715	719	715	702	680	651	618	582	543
12.5°	728	749	762	766	762	749	728	698	659	618	576
10°	767	788	801	806	801	788	767	737	698	651	603
7.5°	797	820	832	835	832	820	797	767	728	680	628
5°	820	838	838	836	838	838	820	788	749	702	646
2.5°	832	838	827	820	827	838	832	801	762	715	658
0°	835	836	820	817	820	836	835	806	766	719	662
-2.5°	832	838	827	820	827	838	832	801	762	715	658
-5°	820	838	838	836	838	838	820	788	749	702	646
-7.5°	797	820	832	835	832	820	797	767	728	680	628
-10°	767	788	801	806	801	788	767	737	698	651	603
-12.5°	728	749	762	766	762	749	728	698	659	618	576
-15°	680	702	715	719	715	702	680	651	618	582	543
-17.5°	628	646	658	662	658	646	628	603	576	543	508
-20°	577	593	602	605	602	593	577	557	531	502	470



REPORT NUMBER: P220426 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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°	527	540	549	552	549	540	527	509	486	460	427
-25°	477	489	496	498	496	489	477	460	438	411	378
-27.5°	422	434	442	444	442	434	422	405	383	354	322
-30°	360	372	380	383	380	372	360	342	321	296	268
-32.5°	295	306	312	315	312	306	295	280	262	242	220
-35°	236	244	249	251	249	244	236	225	210	194	177
-37.5°	186	192	196	197	196	192	186	177	166	152	139
-40°	143	148	151	152	151	148	143	136	128	118	108
-42.5°	108	112	114	115	114	112	108	104	97	90	82
-45°	81	83	85	85	85	83	81	77	73	67	61
-47.5°	59	60	61	62	61	60	59	56	53	50	46
-50°	43	44	45	45	45	44	43	41	39	37	34
-52.5°	31	31	32	32	32	31	31	30	28	26	24
-55°	21	22	22	23	22	22	21	21	20	19	17
-57.5°	15	15	15	15	15	15	15	14	14	13	12
-60°	10	10	10	10	10	10	10	10	9	9	8
-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: P220426 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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°	5	5	5	4	3	3	2	2	2	2	1
60°	8	7	7	6	5	5	4	3	2	2	2
57.5°	11	10	9	8	7	7	6	5	4	3	2
55°	16	14	13	12	10	9	8	7	6	5	4
52.5°	22	20	18	16	14	12	10	9	8	6	5
50°	31	28	25	22	19	16	14	12	10	8	7
47.5°	42	38	33	29	26	22	18	15	13	10	9
45°	56	50	44	39	33	29	24	20	16	13	10
42.5°	74	66	58	51	43	37	31	26	21	16	13
40°	97	86	75	65	55	47	39	32	26	21	16
37.5°	125	110	97	83	70	58	48	40	32	26	20
35°	158	140	121	104	87	73	59	48	39	31	24
32.5°	196	173	149	128	108	89	73	58	47	37	29
30°	240	211	183	155	131	108	87	70	55	43	33
27.5°	288	252	219	186	155	128	104	83	65	51	39
25°	339	298	257	219	183	149	121	97	75	58	44
22.5°	389	345	298	252	211	173	140	110	86	66	50
20°	433	389	339	288	240	196	158	125	97	74	56
17.5°	470	427	378	322	268	220	177	139	108	82	61
15°	502	460	411	354	296	242	194	152	118	90	67
12.5°	531	486	438	383	321	262	210	166	128	97	73
10°	557	509	460	405	342	280	225	177	136	104	77
7.5°	577	527	477	422	360	295	236	186	143	108	81
5°	593	540	489	434	372	306	244	192	148	112	83
2.5°	602	549	496	442	380	312	249	196	151	114	85
0°	605	552	498	444	383	315	251	197	152	115	85
-2.5°	602	549	496	442	380	312	249	196	151	114	85
-5°	593	540	489	434	372	306	244	192	148	112	83
-7.5°	577	527	477	422	360	295	236	186	143	108	81
-10°	557	509	460	405	342	280	225	177	136	104	77
-12.5°	531	486	438	383	321	262	210	166	128	97	73
-15°	502	460	411	354	296	242	194	152	118	90	67
-17.5°	470	427	378	322	268	220	177	139	108	82	61
-20°	433	389	339	288	240	196	158	125	97	74	56



REPORT NUMBER: P220426 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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°	389	345	298	252	211	173	140	110	86	66	50
-25°	339	298	257	219	183	149	121	97	75	58	44
-27.5°	288	252	219	186	155	128	104	83	65	51	39
-30°	240	211	183	155	131	108	87	70	55	43	33
-32.5°	196	173	149	128	108	89	73	58	47	37	29
-35°	158	140	121	104	87	73	59	48	39	31	24
-37.5°	125	110	97	83	70	58	48	40	32	26	20
-40°	97	86	75	65	55	47	39	32	26	21	16
-42.5°	74	66	58	51	43	37	31	26	21	16	13
-45°	56	50	44	39	33	29	24	20	16	13	10
-47.5°	42	38	33	29	26	22	18	15	13	10	9
-50°	31	28	25	22	19	16	14	12	10	8	7
-52.5°	22	20	18	16	14	12	10	9	8	6	5
-55°	16	14	13	12	10	9	8	7	6	5	4
-57.5°	11	10	9	8	7	7	6	5	4	3	2
-60°	8	7	7	6	5	5	4	3	2	2	2
-62.5°	5	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: P220426 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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	6	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°	18	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	7	5	3	2	1	1	0
27.5°	29	22	16	12	8	6	4	2	2	1	0
25°	33	25	18	13	9	7	5	2	2	1	0
22.5°	38	28	20	14	10	7	5	3	2	1	0
20°	42	31	22	16	11	8	5	3	2	1	0
17.5°	46	34	24	17	12	8	6	4	2	1	1
15°	50	37	26	19	13	9	6	4	2	1	1
12.5°	53	39	28	20	14	9	7	4	2	1	1
10°	56	41	30	21	14	10	7	4	2	1	1
7.5°	59	43	31	21	15	10	7	5	2	2	1
5°	60	44	31	22	15	10	7	5	2	2	1
2.5°	61	45	32	22	15	10	7	5	2	2	1
0°	62	45	32	23	15	10	7	5	2	2	1
-2.5°	61	45	32	22	15	10	7	5	2	2	1
-5°	60	44	31	22	15	10	7	5	2	2	1
-7.5°	59	43	31	21	15	10	7	5	2	2	1
-10°	56	41	30	21	14	10	7	4	2	1	1
-12.5°	53	39	28	20	14	9	7	4	2	1	1
-15°	50	37	26	19	13	9	6	4	2	1	1
-17.5°	46	34	24	17	12	8	6	4	2	1	1
-20°	42	31	22	16	11	8	5	3	2	1	0



REPORT NUMBER: P220426 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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	20	14	10	7	5	3	2	1	0
-25°	33	25	18	13	9	7	5	2	2	1	0
-27.5°	29	22	16	12	8	6	4	2	2	1	0
-30°	26	19	14	10	7	5	3	2	1	1	0
-32.5°	22	16	12	9	7	5	3	2	1	1	0
-35°	18	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	6	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: P220426 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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: P220426 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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)