

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: P220368 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220368 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29416)
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]-[RW, RI]-LED4097-W-BK-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, RECESSED LENS,
WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

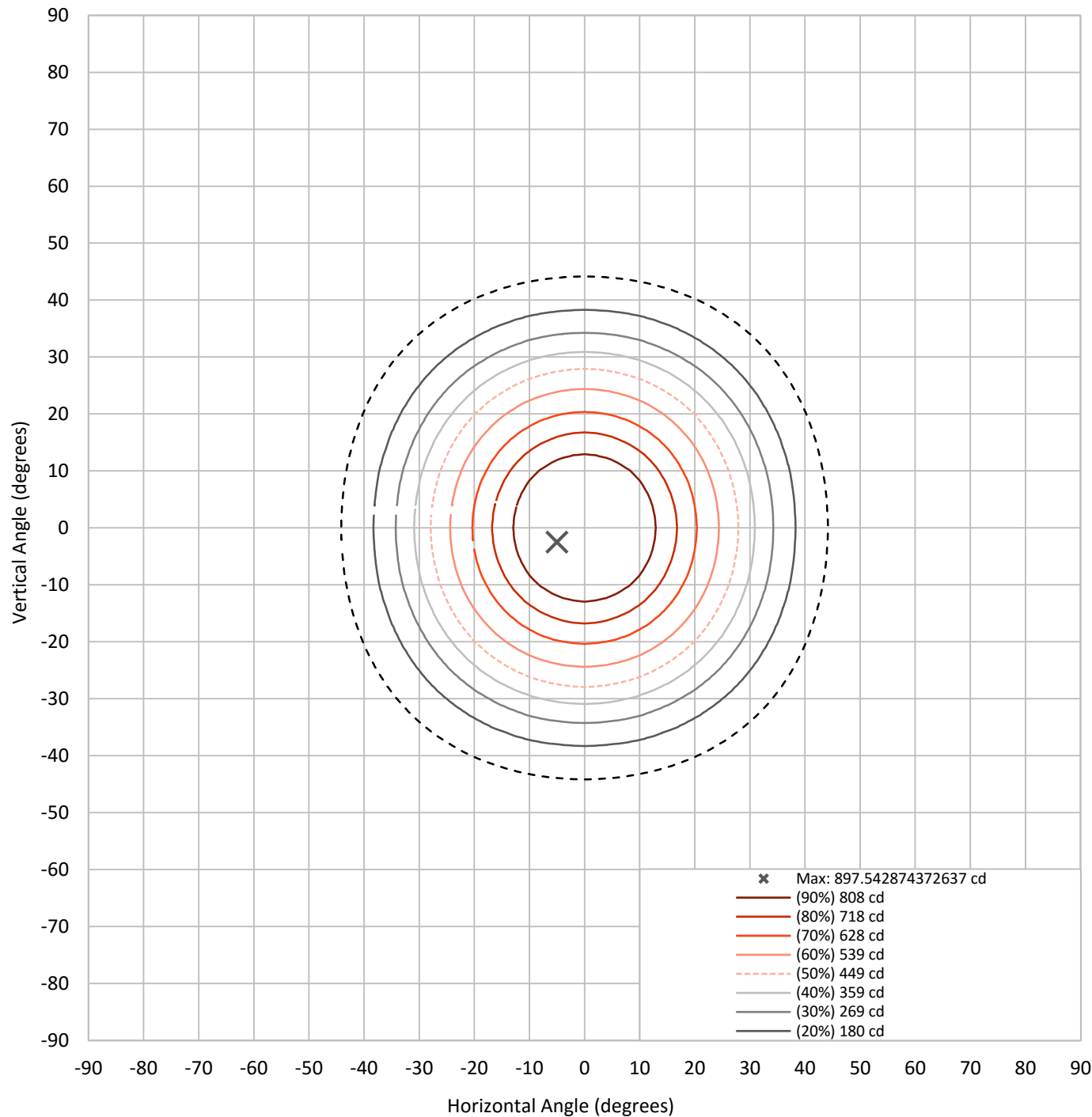
Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	752.6 lumens	Max Intensity:	897.5 candela
Efficiency:	N/A	Max Intensity Angle:	-5°H x -2.5°V
Efficacy:	75.3 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	55.7°H x 55.1°V	Field Angle (10%):	88.2°H x 87.8°V
Beam Lumens:	482.8 lumens	Field Lumens:	726.4 lumens
Beam Efficiency:	64.2%	Field Efficiency:	96.5%
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		





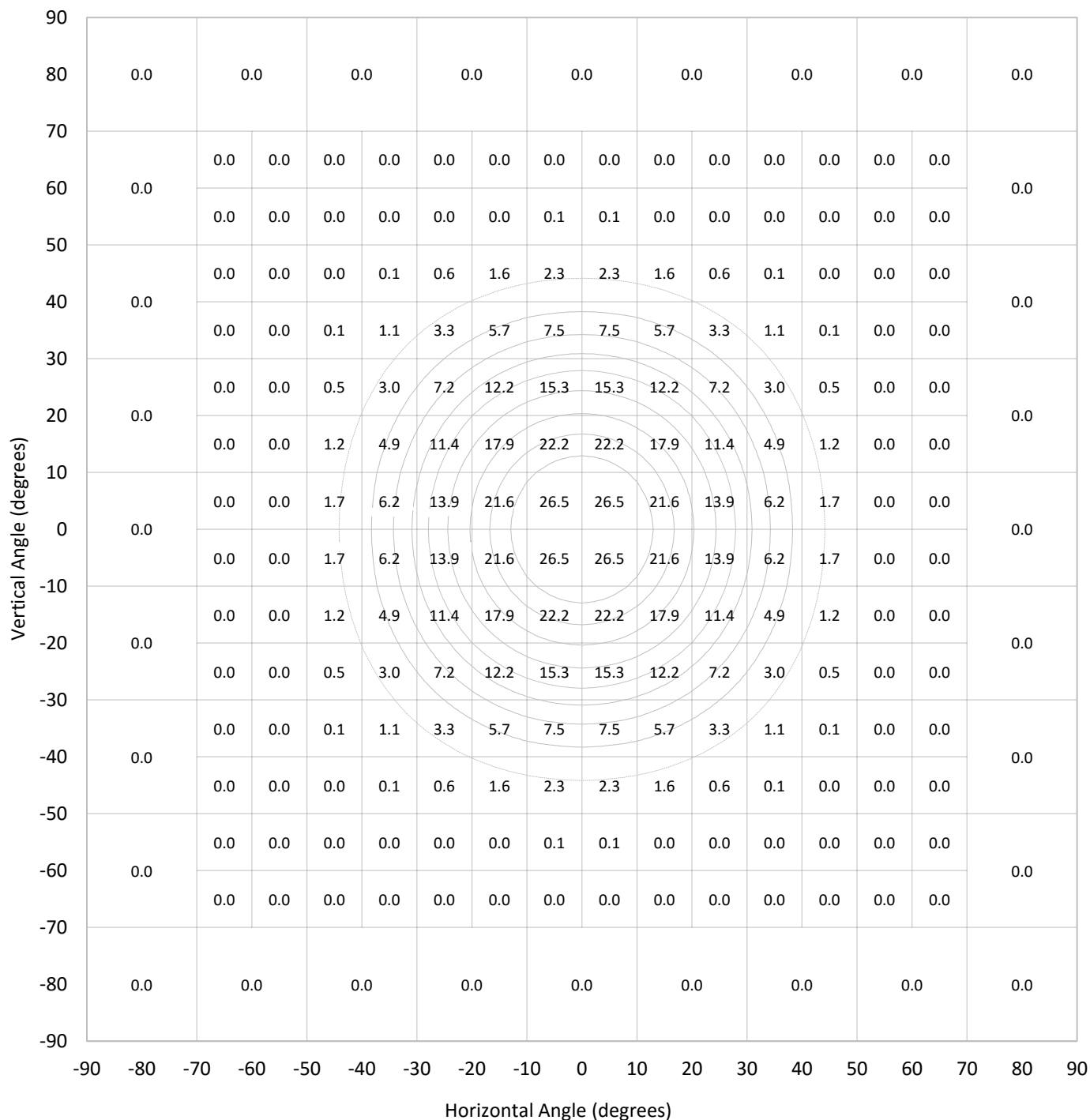
REPORT NUMBER: P220368 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED4097-W-BK-L1-UNV

Iso-Candela Plot



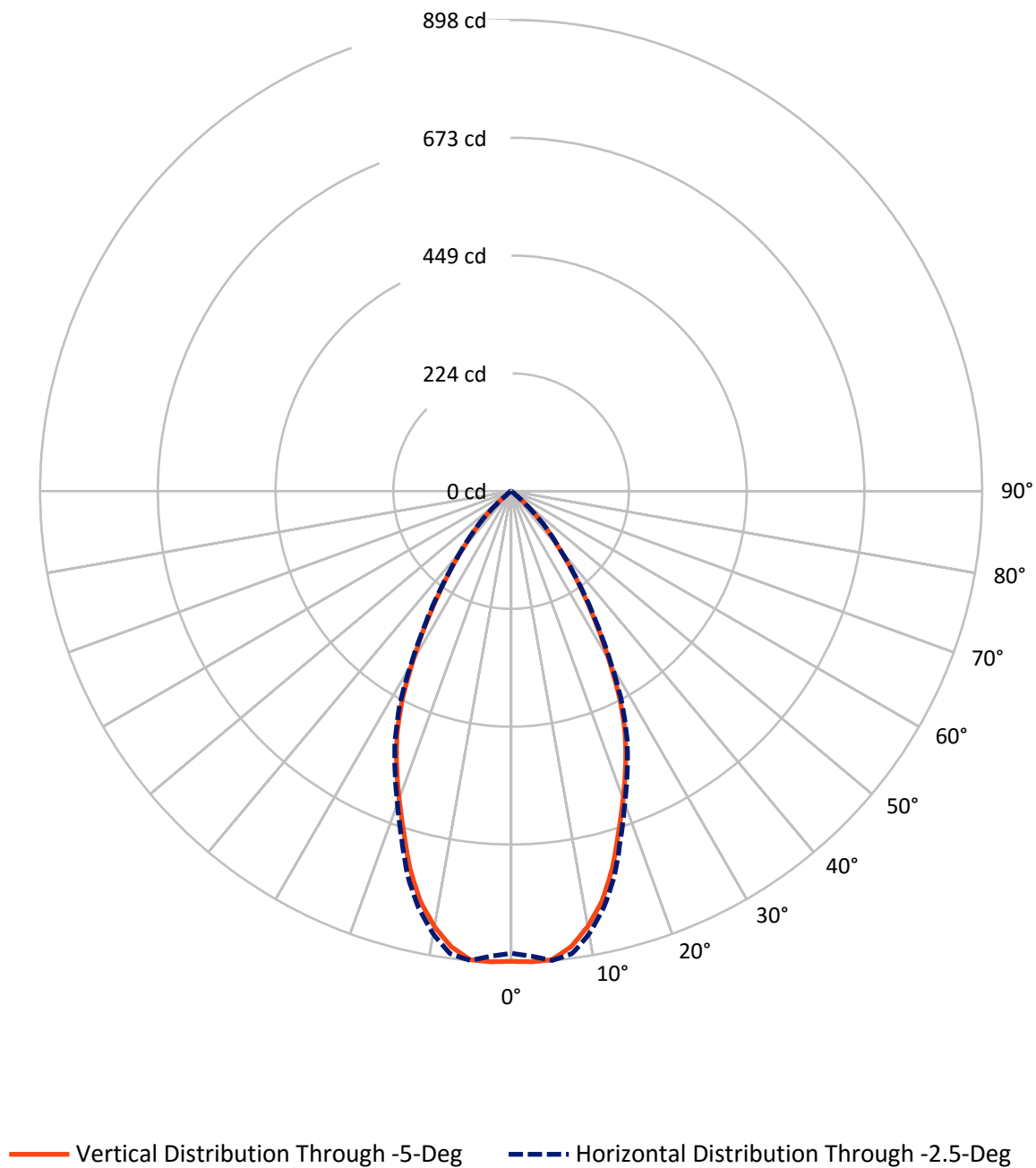
REPORT NUMBER: P220368 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED4097-W-BK-L1-UNV

Lumen Table



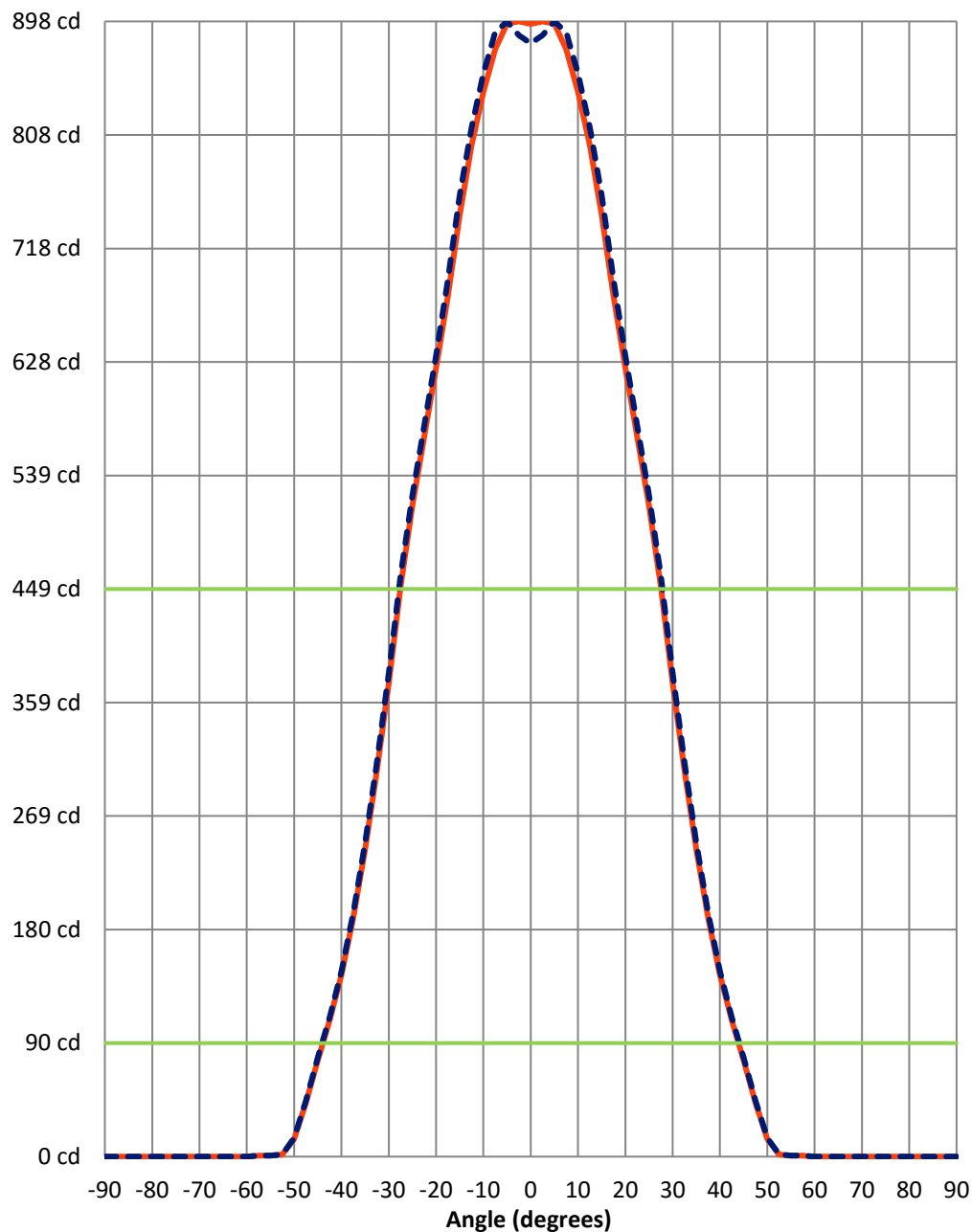
REPORT NUMBER: P220368 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED4097-W-BK-L1-UNV

Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
H Angle: 55.7°
V Angle: 55.1°
Lumens: 482.8
Efficiency: 64.2%

Field:
H Angle: 88.2°
V Angle: 87.8°
Lumens: 726.4
Efficiency: 96.5%

Spill:
Lumens: 26.2
Efficiency: 3.5%

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



REPORT NUMBER: P220368 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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	0	0	0
-25°	0	0	0	0	0	0	0	0	0	0	0
-27.5°	0	0	0	0	0	0	0	0	0	0	0
-30°	0	0	0	0	0	0	0	0	0	0	0
-32.5°	0	0	0	0	0	0	0	0	0	0	0
-35°	0	0	0	0	0	0	0	0	0	0	0
-37.5°	0	0	0	0	0	0	0	0	0	0	0
-40°	0	0	0	0	0	0	0	0	0	0	0
-42.5°	0	0	0	0	0	0	0	0	0	0	0
-45°	0	0	0	0	0	0	0	0	0	0	0
-47.5°	0	0	0	0	0	0	0	0	0	0	0
-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: P220368 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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	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	1	1
42.5°	0	0	0	0	0	0	0	0	1	1	1
40°	0	0	0	0	0	0	0	1	1	1	2
37.5°	0	0	0	0	0	0	1	1	1	2	10
35°	0	0	0	0	0	1	1	1	2	9	21
32.5°	0	0	0	0	0	1	1	1	7	18	39
30°	0	0	0	0	1	1	1	3	13	34	57
27.5°	0	0	0	0	1	1	1	9	25	49	75
25°	0	0	0	0	1	1	3	14	38	65	91
22.5°	0	0	0	1	1	1	8	24	51	80	106
20°	0	0	0	1	1	2	12	35	63	92	121
17.5°	0	0	0	1	1	3	16	44	75	104	135
15°	0	0	0	1	1	6	24	53	84	114	148
12.5°	0	0	1	1	1	9	30	61	92	124	162
10°	0	0	1	1	1	11	35	67	99	132	173
7.5°	0	0	1	1	2	13	40	72	104	139	182
5°	0	0	1	1	2	14	43	76	108	144	189
2.5°	0	0	1	1	2	15	44	78	110	147	193
0°	0	0	1	1	2	15	45	79	111	148	194
-2.5°	0	0	1	1	2	15	44	78	110	147	193
-5°	0	0	1	1	2	14	43	76	108	144	189
-7.5°	0	0	1	1	2	13	40	72	104	139	182
-10°	0	0	1	1	1	11	35	67	99	132	173
-12.5°	0	0	1	1	1	9	30	61	92	124	162
-15°	0	0	0	1	1	6	24	53	84	114	148
-17.5°	0	0	0	1	1	3	16	44	75	104	135
-20°	0	0	0	1	1	2	12	35	63	92	121



REPORT NUMBER: P220368 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	0	0	0	1	1	1	8	24	51	80	106
-25°	0	0	0	0	1	1	3	14	38	65	91
-27.5°	0	0	0	0	1	1	1	9	25	49	75
-30°	0	0	0	0	1	1	1	3	13	34	57
-32.5°	0	0	0	0	0	1	1	1	7	18	39
-35°	0	0	0	0	0	1	1	1	2	9	21
-37.5°	0	0	0	0	0	0	1	1	1	2	10
-40°	0	0	0	0	0	0	0	1	1	1	2
-42.5°	0	0	0	0	0	0	0	0	1	1	1
-45°	0	0	0	0	0	0	0	0	0	1	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: P220368 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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	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	1	1
55°	0	0	0	0	0	1	1	1	1	1	1
52.5°	0	0	1	1	1	1	1	1	1	1	1
50°	1	1	1	1	1	1	2	3	6	9	11
47.5°	1	1	1	1	3	8	12	16	24	30	35
45°	1	1	3	9	14	24	35	44	53	61	67
42.5°	2	7	13	25	38	51	63	75	84	92	99
40°	9	18	34	49	65	80	92	104	114	124	132
37.5°	21	39	57	75	91	106	121	135	148	162	173
35°	41	61	81	99	117	136	154	173	190	208	223
32.5°	61	83	103	124	145	170	193	217	240	261	280
30°	81	103	127	151	179	208	238	267	295	320	343
27.5°	99	124	151	183	217	251	287	322	355	385	412
25°	117	145	179	217	256	298	339	380	419	455	482
22.5°	136	170	208	251	298	345	392	441	481	512	537
20°	154	193	238	287	339	392	448	494	530	560	586
17.5°	173	217	267	322	380	441	494	536	572	606	635
15°	190	240	295	355	419	481	530	572	613	650	686
12.5°	208	261	320	385	455	512	560	606	650	695	740
10°	223	280	343	412	482	537	586	635	686	740	786
7.5°	234	295	361	434	501	556	608	661	719	776	818
5°	243	305	374	451	515	569	624	680	744	800	842
2.5°	248	312	382	459	523	578	633	694	760	814	856
0°	250	314	385	462	526	581	637	698	766	818	861
-2.5°	248	312	382	459	523	578	633	694	760	814	856
-5°	243	305	374	451	515	569	624	680	744	800	842
-7.5°	234	295	361	434	501	556	608	661	719	776	818
-10°	223	280	343	412	482	537	586	635	686	740	786
-12.5°	208	261	320	385	455	512	560	606	650	695	740
-15°	190	240	295	355	419	481	530	572	613	650	686
-17.5°	173	217	267	322	380	441	494	536	572	606	635
-20°	154	193	238	287	339	392	448	494	530	560	586

REPORT NUMBER: P220368 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	136	170	208	251	298	345	392	441	481	512	537
-25°	117	145	179	217	256	298	339	380	419	455	482
-27.5°	99	124	151	183	217	251	287	322	355	385	412
-30°	81	103	127	151	179	208	238	267	295	320	343
-32.5°	61	83	103	124	145	170	193	217	240	261	280
-35°	41	61	81	99	117	136	154	173	190	208	223
-37.5°	21	39	57	75	91	106	121	135	148	162	173
-40°	9	18	34	49	65	80	92	104	114	124	132
-42.5°	2	7	13	25	38	51	63	75	84	92	99
-45°	1	1	3	9	14	24	35	44	53	61	67
-47.5°	1	1	1	1	3	8	12	16	24	30	35
-50°	1	1	1	1	1	1	2	3	6	9	11
-52.5°	0	0	1	1	1	1	1	1	1	1	1
-55°	0	0	0	0	0	1	1	1	1	1	1
-57.5°	0	0	0	0	0	0	0	0	0	1	1
-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: P220368 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	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°	1	1	1	1	1	1	1	1	1	0	0
55°	1	1	1	1	1	1	1	1	1	1	1
52.5°	2	2	2	2	2	2	2	1	1	1	1
50°	13	14	15	15	15	14	13	11	9	6	3
47.5°	40	43	44	45	44	43	40	35	30	24	16
45°	72	76	78	79	78	76	72	67	61	53	44
42.5°	104	108	110	111	110	108	104	99	92	84	75
40°	139	144	147	148	147	144	139	132	124	114	104
37.5°	182	189	193	194	193	189	182	173	162	148	135
35°	234	243	248	250	248	243	234	223	208	190	173
32.5°	295	305	312	314	312	305	295	280	261	240	217
30°	361	374	382	385	382	374	361	343	320	295	267
27.5°	434	451	459	462	459	451	434	412	385	355	322
25°	501	515	523	526	523	515	501	482	455	419	380
22.5°	556	569	578	581	578	569	556	537	512	481	441
20°	608	624	633	637	633	624	608	586	560	530	494
17.5°	661	680	694	698	694	680	661	635	606	572	536
15°	719	744	760	766	760	744	719	686	650	613	572
12.5°	776	800	814	818	814	800	776	740	695	650	606
10°	818	842	856	861	856	842	818	786	740	686	635
7.5°	852	876	889	892	889	876	852	818	776	719	661
5°	876	896	898	896	898	896	876	842	800	744	680
2.5°	889	898	887	880	887	898	889	856	814	760	694
0°	892	896	880	878	880	896	892	861	818	766	698
-2.5°	889	898	887	880	887	898	889	856	814	760	694
-5°	876	896	898	896	898	896	876	842	800	744	680
-7.5°	852	876	889	892	889	876	852	818	776	719	661
-10°	818	842	856	861	856	842	818	786	740	686	635
-12.5°	776	800	814	818	814	800	776	740	695	650	606
-15°	719	744	760	766	760	744	719	686	650	613	572
-17.5°	661	680	694	698	694	680	661	635	606	572	536
-20°	608	624	633	637	633	624	608	586	560	530	494

REPORT NUMBER: P220368 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	556	569	578	581	578	569	556	537	512	481	441
-25°	501	515	523	526	523	515	501	482	455	419	380
-27.5°	434	451	459	462	459	451	434	412	385	355	322
-30°	361	374	382	385	382	374	361	343	320	295	267
-32.5°	295	305	312	314	312	305	295	280	261	240	217
-35°	234	243	248	250	248	243	234	223	208	190	173
-37.5°	182	189	193	194	193	189	182	173	162	148	135
-40°	139	144	147	148	147	144	139	132	124	114	104
-42.5°	104	108	110	111	110	108	104	99	92	84	75
-45°	72	76	78	79	78	76	72	67	61	53	44
-47.5°	40	43	44	45	44	43	40	35	30	24	16
-50°	13	14	15	15	15	14	13	11	9	6	3
-52.5°	2	2	2	2	2	2	2	1	1	1	1
-55°	1	1	1	1	1	1	1	1	1	1	1
-57.5°	1	1	1	1	1	1	1	1	1	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: P220368 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	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°	1	1	0	0	0	0	0	0	0	0	0
52.5°	1	1	1	1	1	0	0	0	0	0	0
50°	2	1	1	1	1	1	1	0	0	0	0
47.5°	12	8	3	1	1	1	1	1	0	0	0
45°	35	24	14	9	3	1	1	1	1	0	0
42.5°	63	51	38	25	13	7	2	1	1	1	0
40°	92	80	65	49	34	18	9	2	1	1	1
37.5°	121	106	91	75	57	39	21	10	2	1	1
35°	154	136	117	99	81	61	41	21	9	2	1
32.5°	193	170	145	124	103	83	61	39	18	7	1
30°	238	208	179	151	127	103	81	57	34	13	3
27.5°	287	251	217	183	151	124	99	75	49	25	9
25°	339	298	256	217	179	145	117	91	65	38	14
22.5°	392	345	298	251	208	170	136	106	80	51	24
20°	448	392	339	287	238	193	154	121	92	63	35
17.5°	494	441	380	322	267	217	173	135	104	75	44
15°	530	481	419	355	295	240	190	148	114	84	53
12.5°	560	512	455	385	320	261	208	162	124	92	61
10°	586	537	482	412	343	280	223	173	132	99	67
7.5°	608	556	501	434	361	295	234	182	139	104	72
5°	624	569	515	451	374	305	243	189	144	108	76
2.5°	633	578	523	459	382	312	248	193	147	110	78
0°	637	581	526	462	385	314	250	194	148	111	79
-2.5°	633	578	523	459	382	312	248	193	147	110	78
-5°	624	569	515	451	374	305	243	189	144	108	76
-7.5°	608	556	501	434	361	295	234	182	139	104	72
-10°	586	537	482	412	343	280	223	173	132	99	67
-12.5°	560	512	455	385	320	261	208	162	124	92	61
-15°	530	481	419	355	295	240	190	148	114	84	53
-17.5°	494	441	380	322	267	217	173	135	104	75	44
-20°	448	392	339	287	238	193	154	121	92	63	35



REPORT NUMBER: P220368 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	392	345	298	251	208	170	136	106	80	51	24
-25°	339	298	256	217	179	145	117	91	65	38	14
-27.5°	287	251	217	183	151	124	99	75	49	25	9
-30°	238	208	179	151	127	103	81	57	34	13	3
-32.5°	193	170	145	124	103	83	61	39	18	7	1
-35°	154	136	117	99	81	61	41	21	9	2	1
-37.5°	121	106	91	75	57	39	21	10	2	1	1
-40°	92	80	65	49	34	18	9	2	1	1	1
-42.5°	63	51	38	25	13	7	2	1	1	1	0
-45°	35	24	14	9	3	1	1	1	1	0	0
-47.5°	12	8	3	1	1	1	1	1	0	0	0
-50°	2	1	1	1	1	1	1	0	0	0	0
-52.5°	1	1	1	1	1	0	0	0	0	0	0
-55°	1	1	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: P220368 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	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	0
45°	0	0	0	0	0	0	0	0	0	0	0
42.5°	0	0	0	0	0	0	0	0	0	0	0
40°	0	0	0	0	0	0	0	0	0	0	0
37.5°	1	0	0	0	0	0	0	0	0	0	0
35°	1	1	0	0	0	0	0	0	0	0	0
32.5°	1	1	0	0	0	0	0	0	0	0	0
30°	1	1	1	0	0	0	0	0	0	0	0
27.5°	1	1	1	0	0	0	0	0	0	0	0
25°	3	1	1	0	0	0	0	0	0	0	0
22.5°	8	1	1	1	0	0	0	0	0	0	0
20°	12	2	1	1	0	0	0	0	0	0	0
17.5°	16	3	1	1	0	0	0	0	0	0	0
15°	24	6	1	1	0	0	0	0	0	0	0
12.5°	30	9	1	1	1	0	0	0	0	0	0
10°	35	11	1	1	1	0	0	0	0	0	0
7.5°	40	13	2	1	1	0	0	0	0	0	0
5°	43	14	2	1	1	0	0	0	0	0	0
2.5°	44	15	2	1	1	0	0	0	0	0	0
0°	45	15	2	1	1	0	0	0	0	0	0
-2.5°	44	15	2	1	1	0	0	0	0	0	0
-5°	43	14	2	1	1	0	0	0	0	0	0
-7.5°	40	13	2	1	1	0	0	0	0	0	0
-10°	35	11	1	1	1	0	0	0	0	0	0
-12.5°	30	9	1	1	1	0	0	0	0	0	0
-15°	24	6	1	1	0	0	0	0	0	0	0
-17.5°	16	3	1	1	0	0	0	0	0	0	0
-20°	12	2	1	1	0	0	0	0	0	0	0



REPORT NUMBER: P220368 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	8	1	1	1	0	0	0	0	0	0	0
-25°	3	1	1	0	0	0	0	0	0	0	0
-27.5°	1	1	1	0	0	0	0	0	0	0	0
-30°	1	1	1	0	0	0	0	0	0	0	0
-32.5°	1	1	0	0	0	0	0	0	0	0	0
-35°	1	1	0	0	0	0	0	0	0	0	0
-37.5°	1	0	0	0	0	0	0	0	0	0	0
-40°	0	0	0	0	0	0	0	0	0	0	0
-42.5°	0	0	0	0	0	0	0	0	0	0	0
-45°	0	0	0	0	0	0	0	0	0	0	0
-47.5°	0	0	0	0	0	0	0	0	0	0	0
-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: P220368 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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: P220368 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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)