

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: P220424 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220424 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29423)
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-F-BK-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS,
FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

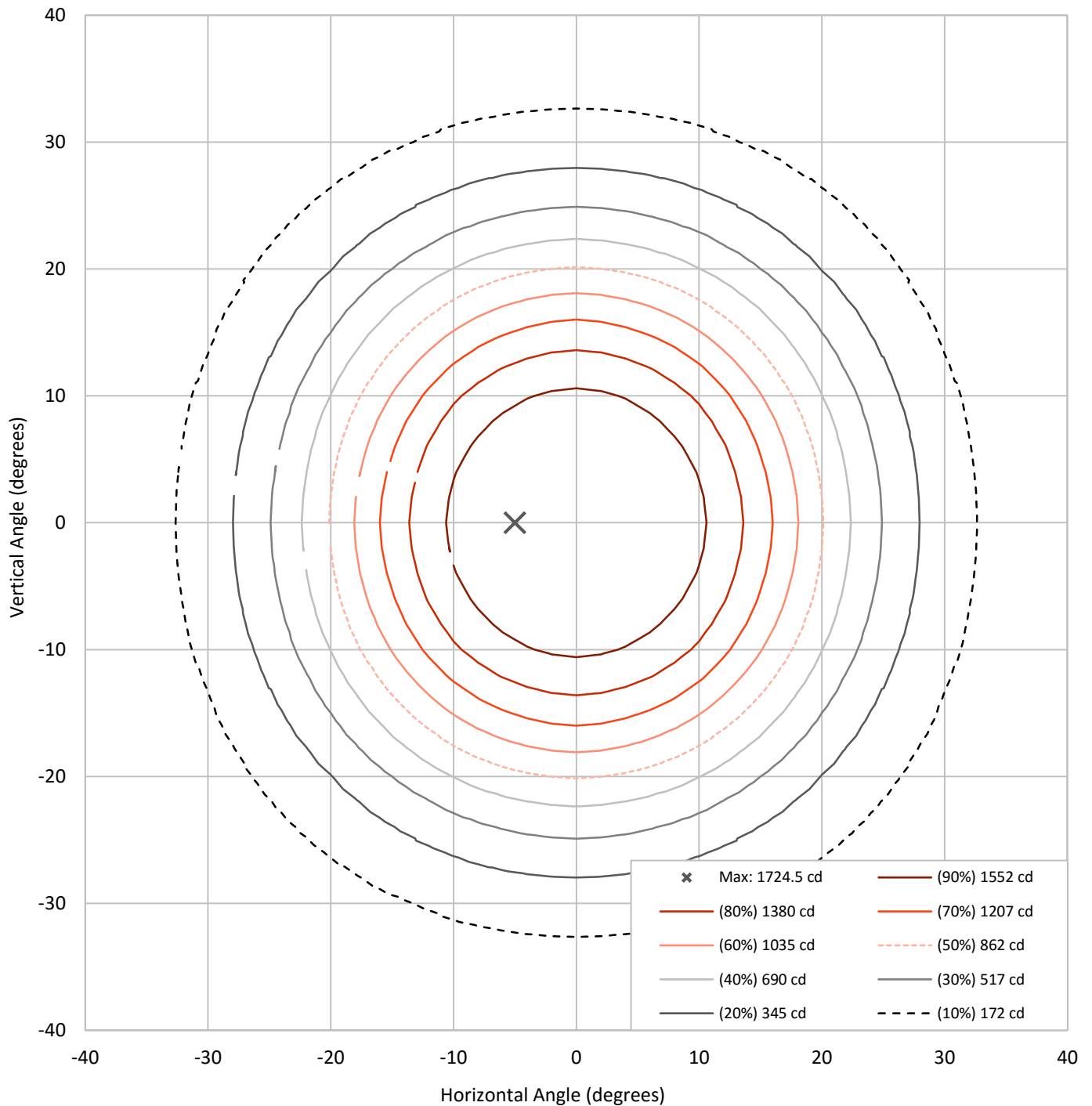
Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	844.6 lumens	Max Intensity:	1724.5 candela
Efficiency:	N/A	Max Intensity Angle:	-5°H x 0°V
Efficacy:	84.5 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	40.3°H x 39.1°V	Field Angle (10%):	65°H x 64.5°V
Beam Lumens:	515.1 lumens	Field Lumens:	771.4 lumens
Beam Efficiency:	61.0%	Field Efficiency:	91.3%
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-F-BK-L1-UNV

Iso-Candela Plot



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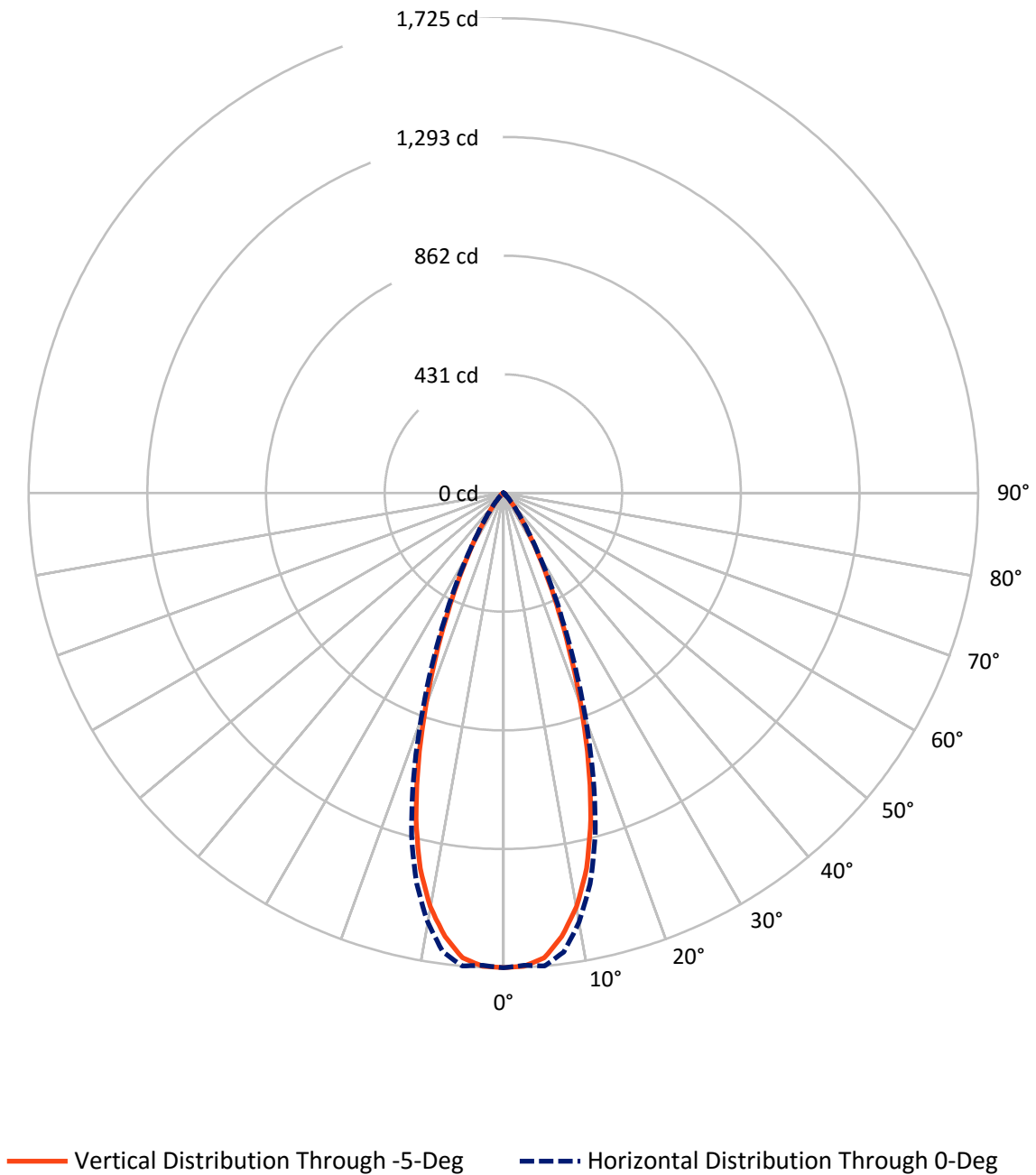
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-F-BK-L1-UNV

Lumen Table

90	0.0														
80	0.0														
70	0.0														
60	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
50	0.0														
40	0.0	0.0	0.1	0.1	0.3	0.5	0.7	0.7	0.5	0.3	0.1	0.1	0.0	0.0	0.0
30	0.0														
20	0.0	0.1	0.2	1.0	3.6	9.2	14.8	14.8	9.2	3.6	1.0	0.2	0.1	0.0	0.0
10	0.0														
0	0.0	0.1	0.5	3.1	13.6	34.9	49.7	49.7	34.9	13.6	3.1	0.5	0.1	0.0	0.0
-10	0.0														
-20	0.0	0.1	0.4	2.1	8.7	23.0	35.9	35.9	23.0	8.7	2.1	0.4	0.1	0.0	0.0
-30	0.0														
-40	0.0	0.0	0.1	0.4	1.1	2.4	3.7	3.7	2.4	1.1	0.4	0.1	0.0	0.0	0.0
-50	0.0														
-60	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
-70	0.0														
-80	0.0														
-90	0.0														

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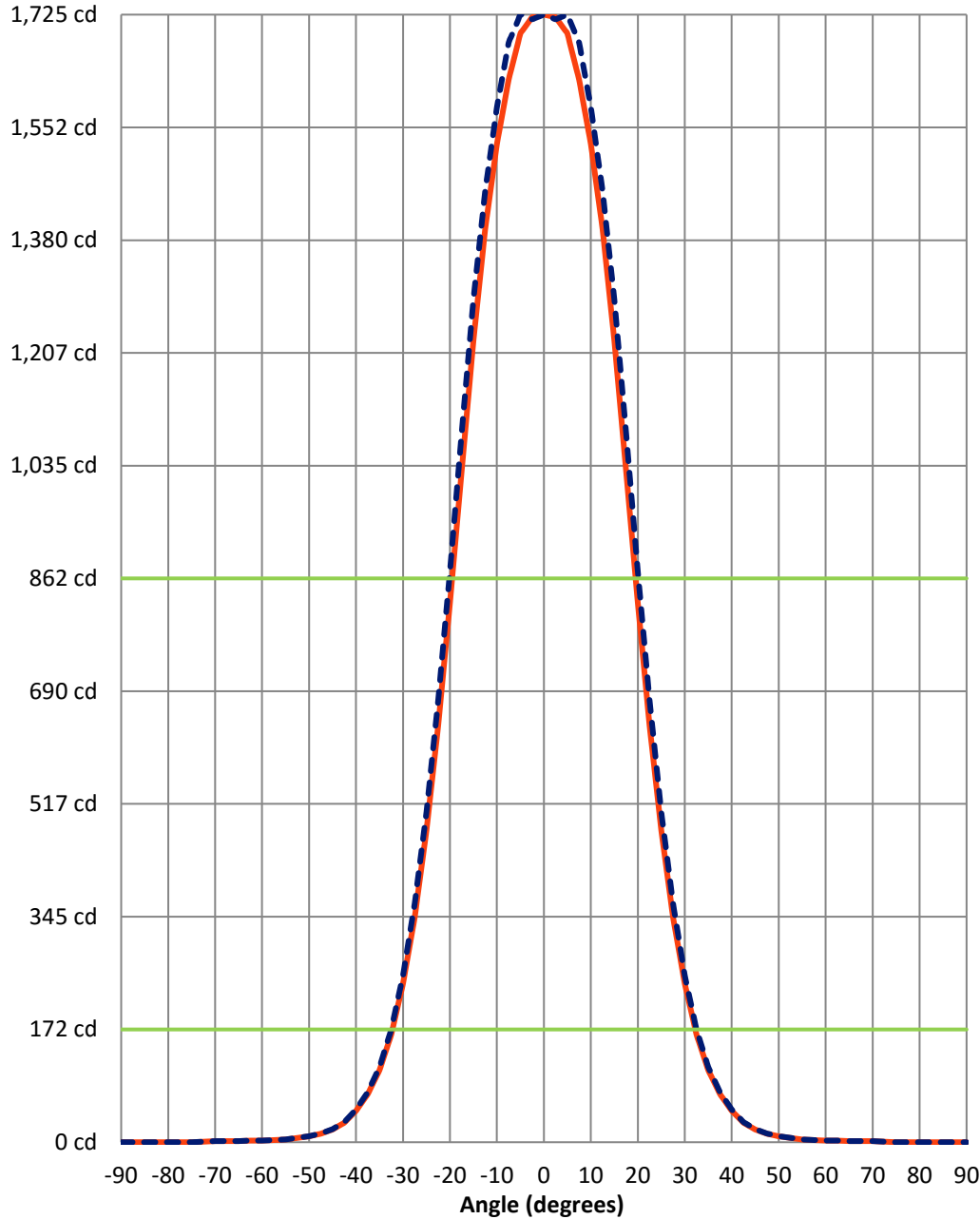
Luminous Intensity Polar Plot



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

Luminous Intensity Plot



Beam:
H Angle: 40.3°
V Angle: 39.1°
Lumens: 515.1
Efficiency: 61.0%

Field:
H Angle: 65°
V Angle: 64.5°
Lumens: 771.4
Efficiency: 91.3%

Spill:
Lumens: 73.2
Efficiency: 8.7%

— Vertical Distribution through -5-Deg
- - Horizontal Distribution through 0-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	2
22.5°	0	0	0	0	0	0	0	0	1	2	2
20°	0	0	0	0	0	0	0	0	1	2	2
17.5°	0	0	0	0	0	0	0	1	1	2	2
15°	0	0	0	0	0	0	0	1	1	2	2
12.5°	0	0	0	0	0	0	0	1	2	2	2
10°	0	0	0	0	0	0	0	1	2	2	2
7.5°	0	0	0	0	0	0	0	1	2	2	2
5°	0	0	0	0	0	0	0	1	2	2	2
2.5°	0	0	0	0	0	0	0	1	2	2	2
0°	0	0	0	0	0	0	0	1	2	2	2
-2.5°	0	0	0	0	0	0	0	1	2	2	2
-5°	0	0	0	0	0	0	0	1	2	2	2
-7.5°	0	0	0	0	0	0	0	1	2	2	2
-10°	0	0	0	0	0	0	0	1	2	2	2
-12.5°	0	0	0	0	0	0	0	1	2	2	2
-15°	0	0	0	0	0	0	0	1	1	2	2
-17.5°	0	0	0	0	0	0	0	1	1	2	2
-20°	0	0	0	0	0	0	0	0	1	2	2



REPORT NUMBER: P220424 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-F-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	2
-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	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: P220424 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-F-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	2	2
57.5°	0	0	1	1	1	2	2	2	2	2	2
55°	0	1	1	1	2	2	2	2	2	2	2
52.5°	0	1	1	2	2	2	2	2	2	3	3
50°	1	1	2	2	2	2	2	2	3	3	3
47.5°	1	2	2	2	2	2	2	3	3	3	3
45°	1	2	2	2	2	2	3	3	3	3	4
42.5°	2	2	2	2	2	3	3	3	3	4	5
40°	2	2	2	2	3	3	3	3	4	5	7
37.5°	2	2	2	2	3	3	3	4	5	7	8
35°	2	2	2	3	3	3	4	5	6	8	10
32.5°	2	2	2	3	3	3	4	6	8	10	12
30°	2	2	3	3	3	4	5	7	9	12	16
27.5°	2	2	3	3	3	4	6	8	11	14	19
25°	2	2	3	3	4	5	7	9	12	17	24
22.5°	2	3	3	3	4	6	8	10	14	20	29
20°	2	3	3	3	4	6	9	12	17	25	36
17.5°	2	3	3	4	5	7	9	13	19	28	44
15°	2	3	3	4	5	8	10	15	22	33	50
12.5°	2	3	3	4	6	8	11	16	24	38	58
10°	2	3	3	4	6	8	12	18	27	42	65
7.5°	2	3	3	4	6	9	13	19	29	46	70
5°	2	3	3	4	7	9	13	19	30	48	74
2.5°	2	3	3	4	7	9	13	20	31	50	76
0°	3	3	3	4	7	9	13	20	31	50	77
-2.5°	2	3	3	4	7	9	13	20	31	50	76
-5°	2	3	3	4	7	9	13	19	30	48	74
-7.5°	2	3	3	4	6	9	13	19	29	46	70
-10°	2	3	3	4	6	8	12	18	27	42	65
-12.5°	2	3	3	4	6	8	11	16	24	38	58
-15°	2	3	3	4	5	8	10	15	22	33	50
-17.5°	2	3	3	4	5	7	9	13	19	28	44
-20°	2	3	3	3	4	6	9	12	17	25	36



REPORT NUMBER: P220424 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-F-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°	2	3	3	3	4	6	8	10	14	20	29
-25°	2	2	3	3	4	5	7	9	12	17	24
-27.5°	2	2	3	3	3	4	6	8	11	14	19
-30°	2	2	3	3	3	4	5	7	9	12	16
-32.5°	2	2	2	3	3	3	4	6	8	10	12
-35°	2	2	2	3	3	3	4	5	6	8	10
-37.5°	2	2	2	2	3	3	3	4	5	7	8
-40°	2	2	2	2	3	3	3	3	4	5	7
-42.5°	2	2	2	2	2	3	3	3	3	4	5
-45°	1	2	2	2	2	2	3	3	3	3	4
-47.5°	1	2	2	2	2	2	2	3	3	3	3
-50°	1	1	2	2	2	2	2	2	3	3	3
-52.5°	0	1	1	2	2	2	2	2	2	3	3
-55°	0	1	1	1	2	2	2	2	2	2	2
-57.5°	0	0	1	1	1	2	2	2	2	2	2
-60°	0	0	0	1	1	1	2	2	2	2	2
-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: P220424 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-F-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	2	2	2	2	2	2	2
62.5°	2	2	2	2	2	2	2	2	2	2	2
60°	2	2	2	2	2	3	3	3	3	3	3
57.5°	2	2	3	3	3	3	3	3	3	3	3
55°	3	3	3	3	3	3	3	4	4	4	4
52.5°	3	3	3	3	4	4	4	5	5	6	6
50°	3	3	4	4	5	6	6	7	8	8	8
47.5°	4	4	5	6	7	8	9	9	10	11	12
45°	5	6	7	8	9	10	12	13	15	16	18
42.5°	6	8	9	11	12	14	17	19	22	24	27
40°	8	10	12	14	17	20	25	28	33	38	42
37.5°	10	12	16	19	24	29	36	44	50	58	65
35°	13	17	21	27	34	44	54	65	74	86	96
32.5°	17	21	28	38	49	63	76	93	108	125	142
30°	21	28	39	52	68	86	107	131	156	180	206
27.5°	27	38	52	70	92	116	149	181	221	255	290
25°	34	49	68	92	120	158	202	249	299	352	401
22.5°	44	63	86	116	158	209	265	330	400	470	536
20°	54	76	107	149	202	265	340	427	517	608	693
17.5°	65	93	131	181	249	330	427	534	647	761	867
15°	74	108	156	221	299	400	517	647	784	921	1045
12.5°	86	125	180	255	352	470	608	761	921	1076	1213
10°	96	142	206	290	401	536	693	867	1045	1213	1353
7.5°	104	155	227	321	443	594	767	958	1150	1321	1456
5°	110	165	243	344	477	638	825	1027	1226	1396	1527
2.5°	114	170	252	360	498	666	861	1070	1273	1440	1568
0°	115	172	255	365	505	676	873	1085	1289	1455	1583
-2.5°	114	170	252	360	498	666	861	1070	1273	1440	1568
-5°	110	165	243	344	477	638	825	1027	1226	1396	1527
-7.5°	104	155	227	321	443	594	767	958	1150	1321	1456
-10°	96	142	206	290	401	536	693	867	1045	1213	1353
-12.5°	86	125	180	255	352	470	608	761	921	1076	1213
-15°	74	108	156	221	299	400	517	647	784	921	1045
-17.5°	65	93	131	181	249	330	427	534	647	761	867
-20°	54	76	107	149	202	265	340	427	517	608	693



REPORT NUMBER: P220424 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-F-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	44	63	86	116	158	209	265	330	400	470	536
-25°	34	49	68	92	120	158	202	249	299	352	401
-27.5°	27	38	52	70	92	116	149	181	221	255	290
-30°	21	28	39	52	68	86	107	131	156	180	206
-32.5°	17	21	28	38	49	63	76	93	108	125	142
-35°	13	17	21	27	34	44	54	65	74	86	96
-37.5°	10	12	16	19	24	29	36	44	50	58	65
-40°	8	10	12	14	17	20	25	28	33	38	42
-42.5°	6	8	9	11	12	14	17	19	22	24	27
-45°	5	6	7	8	9	10	12	13	15	16	18
-47.5°	4	4	5	6	7	8	9	9	10	11	12
-50°	3	3	4	4	5	6	6	7	8	8	8
-52.5°	3	3	3	3	4	4	4	5	5	6	6
-55°	3	3	3	3	3	3	3	4	4	4	4
-57.5°	2	2	3	3	3	3	3	3	3	3	3
-60°	2	2	2	2	2	3	3	3	3	3	3
-62.5°	2	2	2	2	2	2	2	2	2	2	2
-65°	2	2	2	2	2	2	2	2	2	2	2
-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: P220424 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-F-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	2	2	2	2	2	2	2	2
65°	2	2	2	2	2	2	2	2	2	2	2
62.5°	2	2	2	3	2	2	2	2	2	2	2
60°	3	3	3	3	3	3	3	3	3	3	3
57.5°	3	3	3	3	3	3	3	3	3	3	3
55°	4	4	4	4	4	4	4	4	4	4	4
52.5°	6	7	7	7	7	7	6	6	6	5	5
50°	9	9	9	9	9	9	9	8	8	8	7
47.5°	13	13	13	13	13	13	13	12	11	10	9
45°	19	19	20	20	20	19	19	18	16	15	13
42.5°	29	30	31	31	31	30	29	27	24	22	19
40°	46	48	50	50	50	48	46	42	38	33	28
37.5°	70	74	76	77	76	74	70	65	58	50	44
35°	104	110	114	115	114	110	104	96	86	74	65
32.5°	155	165	170	172	170	165	155	142	125	108	93
30°	227	243	252	255	252	243	227	206	180	156	131
27.5°	321	344	360	365	360	344	321	290	255	221	181
25°	443	477	498	505	498	477	443	401	352	299	249
22.5°	594	638	666	676	666	638	594	536	470	400	330
20°	767	825	861	873	861	825	767	693	608	517	427
17.5°	958	1027	1070	1085	1070	1027	958	867	761	647	534
15°	1150	1226	1273	1289	1273	1226	1150	1045	921	784	647
12.5°	1321	1396	1440	1455	1440	1396	1321	1213	1076	921	761
10°	1456	1527	1568	1583	1568	1527	1456	1353	1213	1045	867
7.5°	1555	1625	1668	1682	1668	1625	1555	1456	1321	1150	958
5°	1625	1696	1721	1725	1721	1696	1625	1527	1396	1226	1027
2.5°	1668	1721	1722	1717	1722	1721	1668	1568	1440	1273	1070
0°	1682	1725	1717	1725	1717	1725	1682	1583	1455	1289	1085
-2.5°	1668	1721	1722	1717	1722	1721	1668	1568	1440	1273	1070
-5°	1625	1696	1721	1725	1721	1696	1625	1527	1396	1226	1027
-7.5°	1555	1625	1668	1682	1668	1625	1555	1456	1321	1150	958
-10°	1456	1527	1568	1583	1568	1527	1456	1353	1213	1045	867
-12.5°	1321	1396	1440	1455	1440	1396	1321	1213	1076	921	761
-15°	1150	1226	1273	1289	1273	1226	1150	1045	921	784	647
-17.5°	958	1027	1070	1085	1070	1027	958	867	761	647	534
-20°	767	825	861	873	861	825	767	693	608	517	427



REPORT NUMBER: P220424 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-F-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°	594	638	666	676	666	638	594	536	470	400	330
-25°	443	477	498	505	498	477	443	401	352	299	249
-27.5°	321	344	360	365	360	344	321	290	255	221	181
-30°	227	243	252	255	252	243	227	206	180	156	131
-32.5°	155	165	170	172	170	165	155	142	125	108	93
-35°	104	110	114	115	114	110	104	96	86	74	65
-37.5°	70	74	76	77	76	74	70	65	58	50	44
-40°	46	48	50	50	50	48	46	42	38	33	28
-42.5°	29	30	31	31	31	30	29	27	24	22	19
-45°	19	19	20	20	20	19	19	18	16	15	13
-47.5°	13	13	13	13	13	13	13	12	11	10	9
-50°	9	9	9	9	9	9	9	8	8	8	7
-52.5°	6	7	7	7	7	7	6	6	6	5	5
-55°	4	4	4	4	4	4	4	4	4	4	4
-57.5°	3	3	3	3	3	3	3	3	3	3	3
-60°	3	3	3	3	3	3	3	3	3	3	3
-62.5°	2	2	2	3	2	2	2	2	2	2	2
-65°	2	2	2	2	2	2	2	2	2	2	2
-67.5°	2	2	2	2	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: P220424 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-F-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°	2	2	2	2	2	2	2	2	1	1	1
62.5°	2	2	2	2	2	2	2	2	2	2	1
60°	3	3	2	2	2	2	2	2	2	2	2
57.5°	3	3	3	3	3	2	2	2	2	2	2
55°	3	3	3	3	3	3	3	2	2	2	2
52.5°	4	4	4	3	3	3	3	3	3	2	2
50°	6	6	5	4	4	3	3	3	3	3	2
47.5°	9	8	7	6	5	4	4	3	3	3	3
45°	12	10	9	8	7	6	5	4	3	3	3
42.5°	17	14	12	11	9	8	6	5	4	3	3
40°	25	20	17	14	12	10	8	7	5	4	3
37.5°	36	29	24	19	16	12	10	8	7	5	4
35°	54	44	34	27	21	17	13	10	8	6	5
32.5°	76	63	49	38	28	21	17	12	10	8	6
30°	107	86	68	52	39	28	21	16	12	9	7
27.5°	149	116	92	70	52	38	27	19	14	11	8
25°	202	158	120	92	68	49	34	24	17	12	9
22.5°	265	209	158	116	86	63	44	29	20	14	10
20°	340	265	202	149	107	76	54	36	25	17	12
17.5°	427	330	249	181	131	93	65	44	28	19	13
15°	517	400	299	221	156	108	74	50	33	22	15
12.5°	608	470	352	255	180	125	86	58	38	24	16
10°	693	536	401	290	206	142	96	65	42	27	18
7.5°	767	594	443	321	227	155	104	70	46	29	19
5°	825	638	477	344	243	165	110	74	48	30	19
2.5°	861	666	498	360	252	170	114	76	50	31	20
0°	873	676	505	365	255	172	115	77	50	31	20
-2.5°	861	666	498	360	252	170	114	76	50	31	20
-5°	825	638	477	344	243	165	110	74	48	30	19
-7.5°	767	594	443	321	227	155	104	70	46	29	19
-10°	693	536	401	290	206	142	96	65	42	27	18
-12.5°	608	470	352	255	180	125	86	58	38	24	16
-15°	517	400	299	221	156	108	74	50	33	22	15
-17.5°	427	330	249	181	131	93	65	44	28	19	13
-20°	340	265	202	149	107	76	54	36	25	17	12



REPORT NUMBER: P220424 (CONVERTED FROM TYPE C PHOTOMETRY)

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

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	265	209	158	116	86	63	44	29	20	14	10
-25°	202	158	120	92	68	49	34	24	17	12	9
-27.5°	149	116	92	70	52	38	27	19	14	11	8
-30°	107	86	68	52	39	28	21	16	12	9	7
-32.5°	76	63	49	38	28	21	17	12	10	8	6
-35°	54	44	34	27	21	17	13	10	8	6	5
-37.5°	36	29	24	19	16	12	10	8	7	5	4
-40°	25	20	17	14	12	10	8	7	5	4	3
-42.5°	17	14	12	11	9	8	6	5	4	3	3
-45°	12	10	9	8	7	6	5	4	3	3	3
-47.5°	9	8	7	6	5	4	4	3	3	3	3
-50°	6	6	5	4	4	3	3	3	3	3	2
-52.5°	4	4	4	3	3	3	3	3	3	2	2
-55°	3	3	3	3	3	3	3	2	2	2	2
-57.5°	3	3	3	3	3	2	2	2	2	2	2
-60°	3	3	2	2	2	2	2	2	2	2	2
-62.5°	2	2	2	2	2	2	2	2	2	2	1
-65°	2	2	2	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: P220424 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-F-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°	2	2	2	1	1	1	0	0	0	0	0
52.5°	2	2	2	2	1	1	0	0	0	0	0
50°	2	2	2	2	2	1	1	0	0	0	0
47.5°	2	2	2	2	2	2	1	1	0	0	0
45°	3	2	2	2	2	2	1	1	0	0	0
42.5°	3	3	2	2	2	2	2	1	0	0	0
40°	3	3	3	2	2	2	2	1	1	0	0
37.5°	3	3	3	2	2	2	2	2	1	0	0
35°	4	3	3	3	2	2	2	2	1	0	0
32.5°	4	3	3	3	2	2	2	2	1	1	0
30°	5	4	3	3	3	2	2	2	1	1	0
27.5°	6	4	3	3	3	2	2	2	2	1	0
25°	7	5	4	3	3	2	2	2	2	1	0
22.5°	8	6	4	3	3	3	2	2	2	1	0
20°	9	6	4	3	3	3	2	2	2	1	0
17.5°	9	7	5	4	3	3	2	2	2	1	1
15°	10	8	5	4	3	3	2	2	2	1	1
12.5°	11	8	6	4	3	3	2	2	2	2	1
10°	12	8	6	4	3	3	2	2	2	2	1
7.5°	13	9	6	4	3	3	2	2	2	2	1
5°	13	9	7	4	3	3	2	2	2	2	1
2.5°	13	9	7	4	3	3	2	2	2	2	1
0°	13	9	7	4	3	3	3	2	2	2	1
-2.5°	13	9	7	4	3	3	2	2	2	2	1
-5°	13	9	7	4	3	3	2	2	2	2	1
-7.5°	13	9	6	4	3	3	2	2	2	2	1
-10°	12	8	6	4	3	3	2	2	2	2	1
-12.5°	11	8	6	4	3	3	2	2	2	2	1
-15°	10	8	5	4	3	3	2	2	2	1	1
-17.5°	9	7	5	4	3	3	2	2	2	1	1
-20°	9	6	4	3	3	3	2	2	2	1	0



REPORT NUMBER: P220424 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-F-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	6	4	3	3	3	2	2	2	1	0
-25°	7	5	4	3	3	2	2	2	2	1	0
-27.5°	6	4	3	3	3	2	2	2	2	1	0
-30°	5	4	3	3	3	2	2	2	1	1	0
-32.5°	4	3	3	3	2	2	2	2	1	1	0
-35°	4	3	3	3	2	2	2	2	1	0	0
-37.5°	3	3	3	2	2	2	2	2	1	0	0
-40°	3	3	3	2	2	2	2	1	1	0	0
-42.5°	3	3	2	2	2	2	2	1	0	0	0
-45°	3	2	2	2	2	2	1	1	0	0	0
-47.5°	2	2	2	2	2	2	1	1	0	0	0
-50°	2	2	2	2	2	1	1	0	0	0	0
-52.5°	2	2	2	2	1	1	0	0	0	0	0
-55°	2	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: P220424 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-F-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: P220424 (CONVERTED FROM TYPE C PHOTOMETRY)

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