

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: P220422 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220422 (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-LED3097-F-BK-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS,
FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

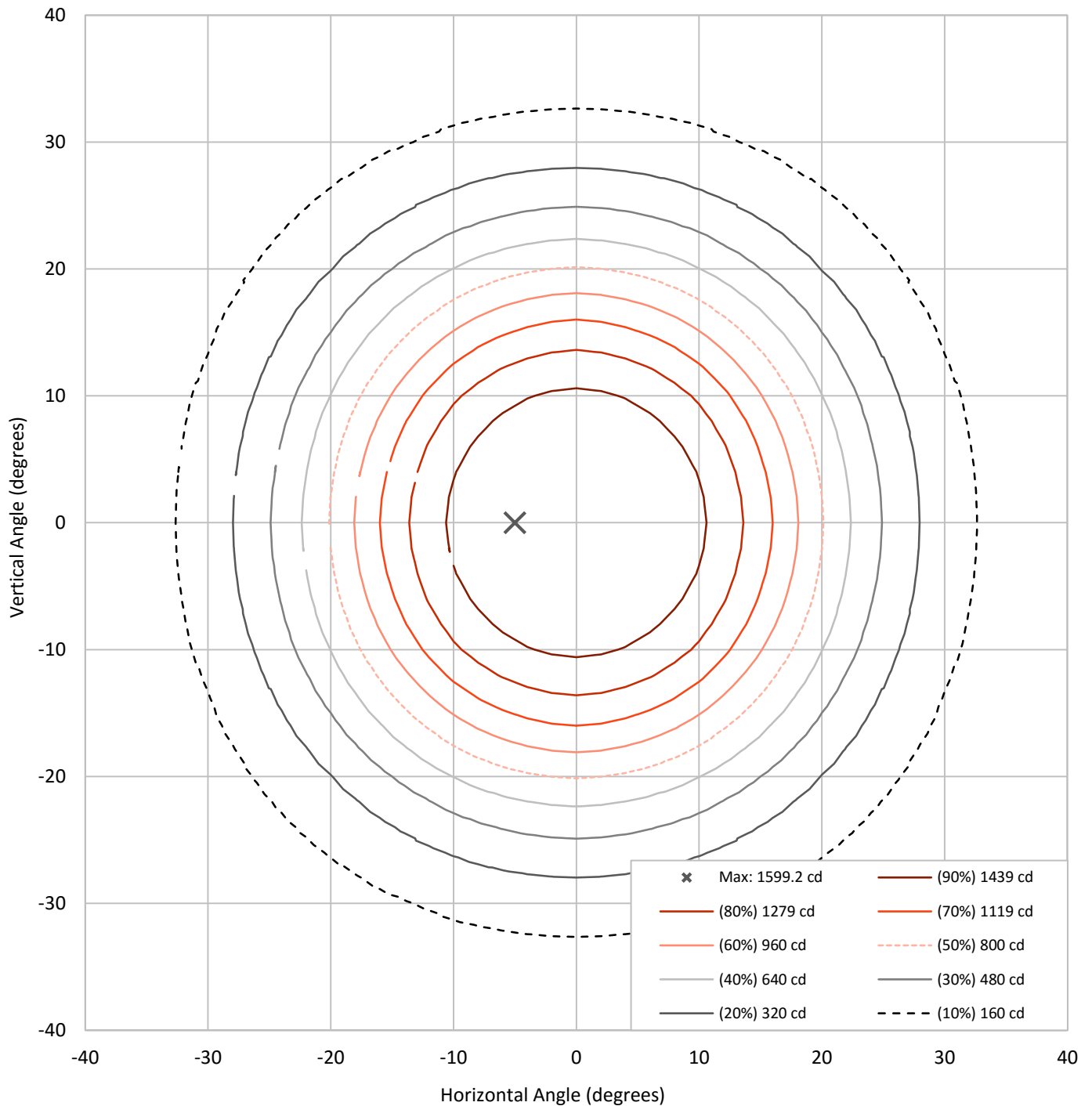
Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	783.3 lumens	Max Intensity:	1599.2 candela
Efficiency:	N/A	Max Intensity Angle:	-5°H x 0°V
Efficacy:	78.3 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	40.3°H x 39.1°V	Field Angle (10%):	65°H x 64.5°V
Beam Lumens:	477.7 lumens	Field Lumens:	715.4 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-LED3097-F-BK-L1-UNV

Iso-Candela Plot





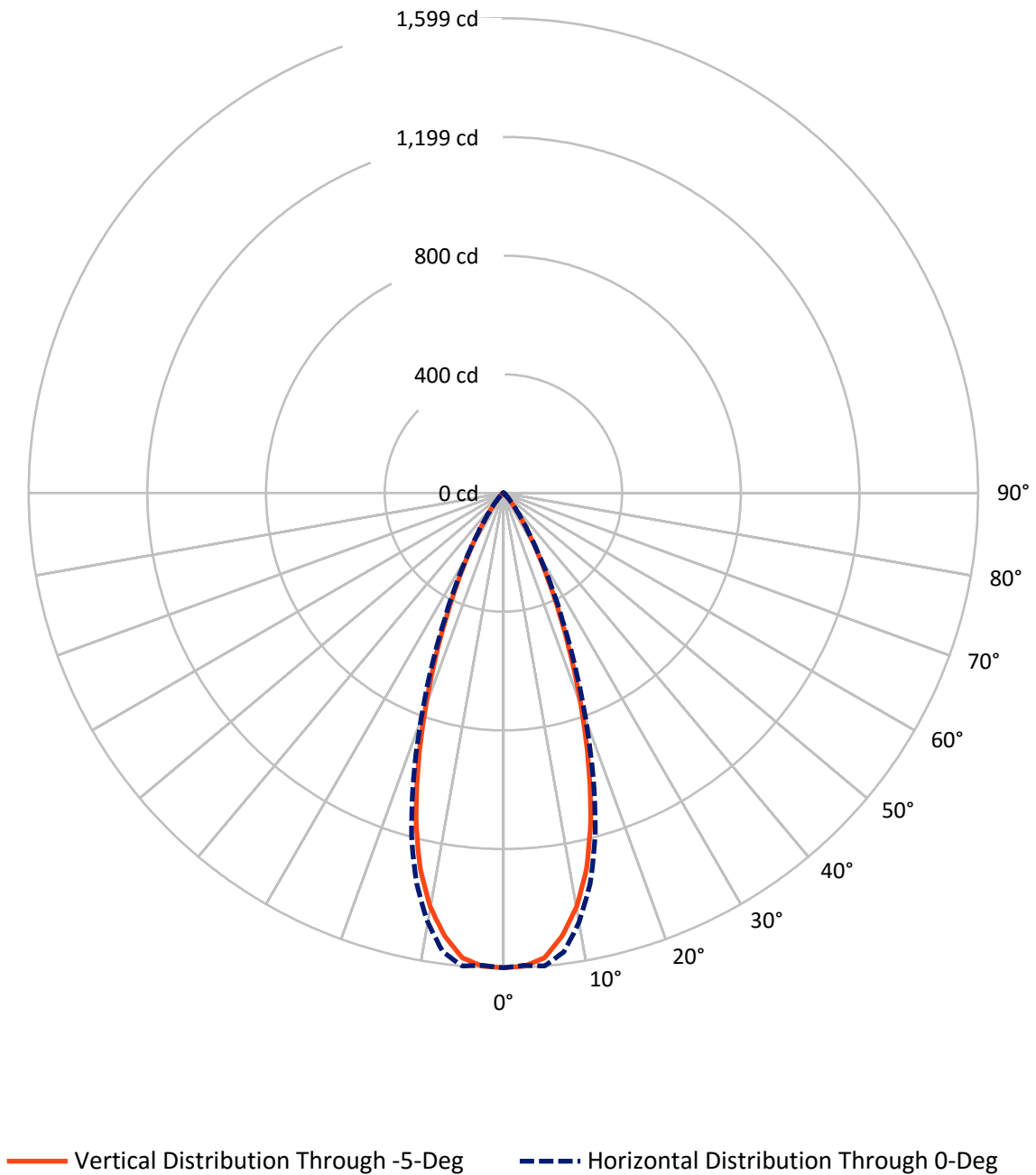
REPORT NUMBER: P220422 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-F-BK-L1-UNV

Lumen Table

90	0.0															
80	0.0															
70	0.0															
60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	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	0.6	0.6	0.5	0.3	0.1	0.1	0.0	0.0	0.0	
30	0.0															
20	0.0	0.1	0.2	0.9	3.4	8.6	13.7	13.7	8.6	3.4	0.9	0.2	0.1	0.0	0.0	
10	0.0															
0	0.0	0.1	0.5	2.8	12.6	32.4	46.1	46.1	32.4	12.6	2.8	0.5	0.1	0.0	0.0	
-10	0.0															
-20	0.0	0.1	0.3	1.9	8.1	21.3	33.3	33.3	21.3	8.1	1.9	0.3	0.1	0.0	0.0	
-30	0.0															
-40	0.0	0.0	0.1	0.3	1.0	2.2	3.4	3.4	2.2	1.0	0.3	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															

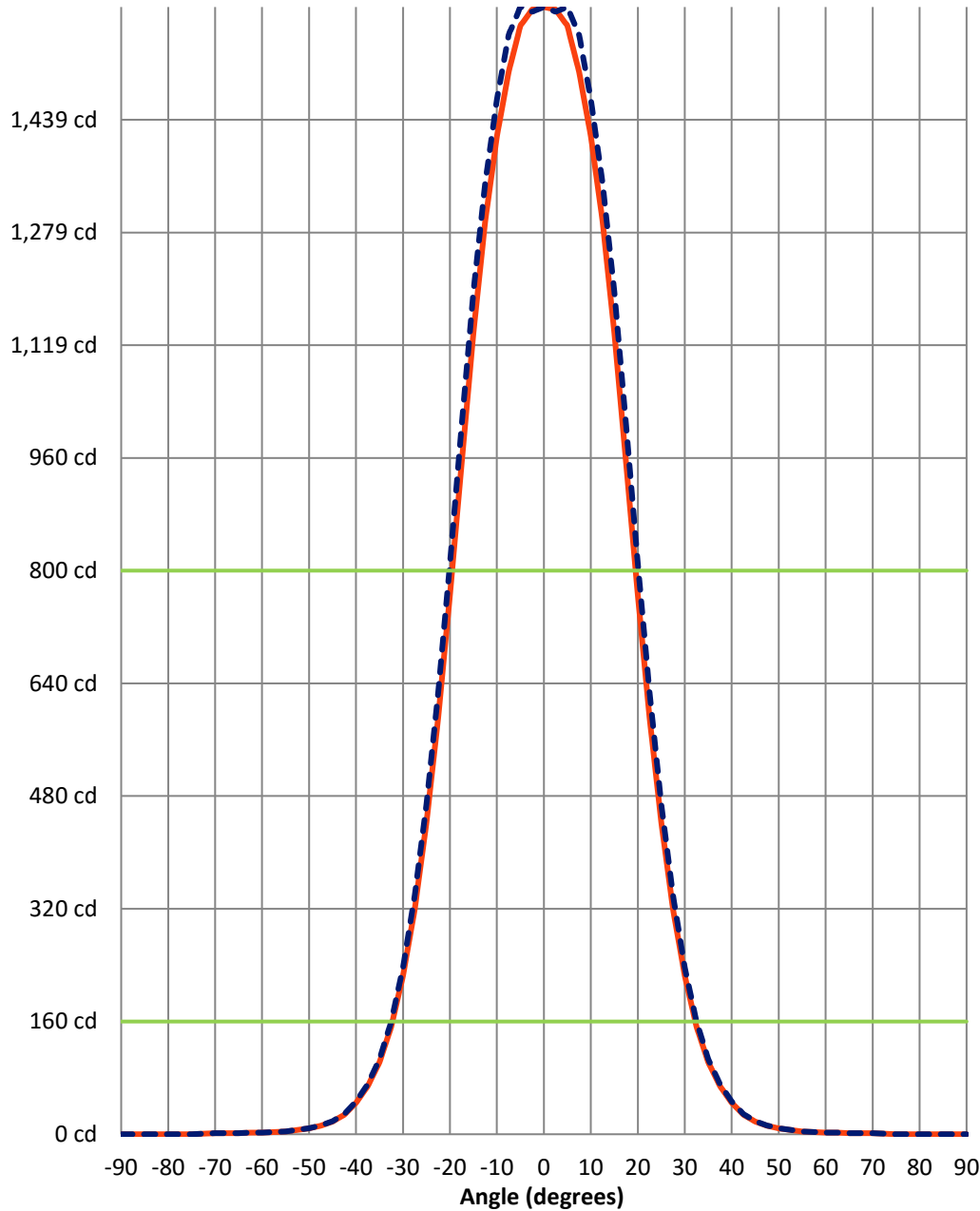
REPORT NUMBER: P220422 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-F-BK-L1-UNV

Luminous Intensity Polar Plot



REPORT NUMBER: P220422 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-F-BK-L1-UNV

Luminous Intensity Plot



Beam:
H Angle: 40.3°
V Angle: 39.1°
Lumens: 477.7
Efficiency: 61.0%

Field:
H Angle: 65°
V Angle: 64.5°
Lumens: 715.4
Efficiency: 91.3%

Spill:
Lumens: 67.9
Efficiency: 8.7%

— Vertical Distribution through -5-Deg
- - Horizontal Distribution through 0-Deg



REPORT NUMBER: P220422 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-F-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	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	1	2	2
10°	0	0	0	0	0	0	0	1	1	2	2
7.5°	0	0	0	0	0	0	0	1	1	2	2
5°	0	0	0	0	0	0	0	1	1	2	2
2.5°	0	0	0	0	0	0	0	1	1	2	2
0°	0	0	0	0	0	0	0	1	2	2	2
-2.5°	0	0	0	0	0	0	0	1	1	2	2
-5°	0	0	0	0	0	0	0	1	1	2	2
-7.5°	0	0	0	0	0	0	0	1	1	2	2
-10°	0	0	0	0	0	0	0	1	1	2	2
-12.5°	0	0	0	0	0	0	0	1	1	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: P220422 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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	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: P220422 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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	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	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	2	2
50°	1	1	2	2	2	2	2	2	2	2	3
47.5°	1	1	2	2	2	2	2	2	2	3	3
45°	1	2	2	2	2	2	2	2	3	3	4
42.5°	1	2	2	2	2	2	2	3	3	4	5
40°	2	2	2	2	2	2	3	3	4	5	6
37.5°	2	2	2	2	2	3	3	4	5	6	8
35°	2	2	2	2	2	3	3	4	6	7	9
32.5°	2	2	2	2	3	3	4	5	7	9	12
30°	2	2	2	2	3	4	5	6	8	11	15
27.5°	2	2	2	2	3	4	6	7	10	13	18
25°	2	2	2	3	3	4	6	8	12	16	22
22.5°	2	2	2	3	4	5	7	10	13	19	27
20°	2	2	2	3	4	6	8	11	16	23	34
17.5°	2	2	3	3	4	6	9	12	18	26	40
15°	2	2	3	3	5	7	10	14	20	30	47
12.5°	2	2	3	4	5	7	10	15	23	35	54
10°	2	2	3	4	6	8	11	16	25	39	60
7.5°	2	2	3	4	6	8	12	17	26	42	65
5°	2	2	3	4	6	8	12	18	28	45	68
2.5°	2	2	3	4	6	8	12	18	28	46	70
0°	2	2	3	4	6	8	12	19	29	46	71
-2.5°	2	2	3	4	6	8	12	18	28	46	70
-5°	2	2	3	4	6	8	12	18	28	45	68
-7.5°	2	2	3	4	6	8	12	17	26	42	65
-10°	2	2	3	4	6	8	11	16	25	39	60
-12.5°	2	2	3	4	5	7	10	15	23	35	54
-15°	2	2	3	3	5	7	10	14	20	30	47
-17.5°	2	2	3	3	4	6	9	12	18	26	40
-20°	2	2	2	3	4	6	8	11	16	23	34



REPORT NUMBER: P220422 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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	2	2	3	4	5	7	10	13	19	27
-25°	2	2	2	3	3	4	6	8	12	16	22
-27.5°	2	2	2	2	3	4	6	7	10	13	18
-30°	2	2	2	2	3	4	5	6	8	11	15
-32.5°	2	2	2	2	3	3	4	5	7	9	12
-35°	2	2	2	2	2	3	3	4	6	7	9
-37.5°	2	2	2	2	2	3	3	4	5	6	8
-40°	2	2	2	2	2	2	3	3	4	5	6
-42.5°	1	2	2	2	2	2	2	3	3	4	5
-45°	1	2	2	2	2	2	2	2	3	3	4
-47.5°	1	1	2	2	2	2	2	2	2	3	3
-50°	1	1	2	2	2	2	2	2	2	2	3
-52.5°	0	1	1	2	2	2	2	2	2	2	2
-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	1	2	2	2	2
-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: P220422 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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	1	1
67.5°	1	1	1	1	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	2	2	2	2	2	2
57.5°	2	2	2	2	2	2	2	3	3	3	3
55°	2	2	2	2	3	3	3	3	3	4	4
52.5°	2	3	3	3	3	4	4	4	5	5	6
50°	3	3	4	4	4	5	6	6	7	7	8
47.5°	3	4	5	6	6	7	8	9	10	10	11
45°	4	5	6	7	8	10	11	12	14	15	16
42.5°	6	7	8	10	12	13	16	18	20	23	25
40°	7	9	11	13	16	19	23	26	30	35	39
37.5°	9	12	15	18	22	27	34	40	47	54	60
35°	12	15	19	25	32	41	50	60	69	80	89
32.5°	15	20	26	35	45	58	70	86	100	116	131
30°	19	26	36	48	63	80	99	121	144	167	191
27.5°	25	35	48	65	85	107	138	168	205	236	269
25°	32	45	63	85	111	146	187	231	277	326	372
22.5°	41	58	80	107	146	194	246	306	371	436	497
20°	50	70	99	138	187	246	316	396	479	564	643
17.5°	60	86	121	168	231	306	396	495	600	705	804
15°	69	100	144	205	277	371	479	600	727	854	969
12.5°	80	116	167	236	326	436	564	705	854	998	1125
10°	89	131	191	269	372	497	643	804	969	1125	1255
7.5°	97	144	211	297	411	551	712	888	1066	1225	1350
5°	102	153	225	319	442	591	765	952	1137	1295	1416
2.5°	105	158	234	334	462	618	798	993	1180	1336	1454
0°	107	160	236	339	468	627	810	1006	1195	1349	1468
-2.5°	105	158	234	334	462	618	798	993	1180	1336	1454
-5°	102	153	225	319	442	591	765	952	1137	1295	1416
-7.5°	97	144	211	297	411	551	712	888	1066	1225	1350
-10°	89	131	191	269	372	497	643	804	969	1125	1255
-12.5°	80	116	167	236	326	436	564	705	854	998	1125
-15°	69	100	144	205	277	371	479	600	727	854	969
-17.5°	60	86	121	168	231	306	396	495	600	705	804
-20°	50	70	99	138	187	246	316	396	479	564	643



REPORT NUMBER: P220422 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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°	41	58	80	107	146	194	246	306	371	436	497
-25°	32	45	63	85	111	146	187	231	277	326	372
-27.5°	25	35	48	65	85	107	138	168	205	236	269
-30°	19	26	36	48	63	80	99	121	144	167	191
-32.5°	15	20	26	35	45	58	70	86	100	116	131
-35°	12	15	19	25	32	41	50	60	69	80	89
-37.5°	9	12	15	18	22	27	34	40	47	54	60
-40°	7	9	11	13	16	19	23	26	30	35	39
-42.5°	6	7	8	10	12	13	16	18	20	23	25
-45°	4	5	6	7	8	10	11	12	14	15	16
-47.5°	3	4	5	6	6	7	8	9	10	10	11
-50°	3	3	4	4	4	5	6	6	7	7	8
-52.5°	2	3	3	3	3	4	4	4	5	5	6
-55°	2	2	2	2	3	3	3	3	3	4	4
-57.5°	2	2	2	2	2	2	2	3	3	3	3
-60°	2	2	2	2	2	2	2	2	2	2	2
-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	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: P220422 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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°	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°	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	2	2	2	2	2	2
57.5°	3	3	3	3	3	3	3	3	3	3	3
55°	4	4	4	4	4	4	4	4	4	3	3
52.5°	6	6	6	6	6	6	6	6	5	5	4
50°	8	8	8	8	8	8	8	8	7	7	6
47.5°	12	12	12	12	12	12	12	11	10	10	9
45°	17	18	18	19	18	18	17	16	15	14	12
42.5°	26	28	28	29	28	28	26	25	23	20	18
40°	42	45	46	46	46	45	42	39	35	30	26
37.5°	65	68	70	71	70	68	65	60	54	47	40
35°	97	102	105	107	105	102	97	89	80	69	60
32.5°	144	153	158	160	158	153	144	131	116	100	86
30°	211	225	234	236	234	225	211	191	167	144	121
27.5°	297	319	334	339	334	319	297	269	236	205	168
25°	411	442	462	468	462	442	411	372	326	277	231
22.5°	551	591	618	627	618	591	551	497	436	371	306
20°	712	765	798	810	798	765	712	643	564	479	396
17.5°	888	952	993	1006	993	952	888	804	705	600	495
15°	1066	1137	1180	1195	1180	1137	1066	969	854	727	600
12.5°	1225	1295	1336	1349	1336	1295	1225	1125	998	854	705
10°	1350	1416	1454	1468	1454	1416	1350	1255	1125	969	804
7.5°	1442	1507	1547	1559	1547	1507	1442	1350	1225	1066	888
5°	1507	1572	1596	1599	1596	1572	1507	1416	1295	1137	952
2.5°	1547	1596	1597	1593	1597	1596	1547	1454	1336	1180	993
0°	1559	1599	1593	1599	1593	1599	1559	1468	1349	1195	1006
-2.5°	1547	1596	1597	1593	1597	1596	1547	1454	1336	1180	993
-5°	1507	1572	1596	1599	1596	1572	1507	1416	1295	1137	952
-7.5°	1442	1507	1547	1559	1547	1507	1442	1350	1225	1066	888
-10°	1350	1416	1454	1468	1454	1416	1350	1255	1125	969	804
-12.5°	1225	1295	1336	1349	1336	1295	1225	1125	998	854	705
-15°	1066	1137	1180	1195	1180	1137	1066	969	854	727	600
-17.5°	888	952	993	1006	993	952	888	804	705	600	495
-20°	712	765	798	810	798	765	712	643	564	479	396



REPORT NUMBER: P220422 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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°	551	591	618	627	618	591	551	497	436	371	306
-25°	411	442	462	468	462	442	411	372	326	277	231
-27.5°	297	319	334	339	334	319	297	269	236	205	168
-30°	211	225	234	236	234	225	211	191	167	144	121
-32.5°	144	153	158	160	158	153	144	131	116	100	86
-35°	97	102	105	107	105	102	97	89	80	69	60
-37.5°	65	68	70	71	70	68	65	60	54	47	40
-40°	42	45	46	46	46	45	42	39	35	30	26
-42.5°	26	28	28	29	28	28	26	25	23	20	18
-45°	17	18	18	19	18	18	17	16	15	14	12
-47.5°	12	12	12	12	12	12	12	11	10	10	9
-50°	8	8	8	8	8	8	8	8	7	7	6
-52.5°	6	6	6	6	6	6	6	6	5	5	4
-55°	4	4	4	4	4	4	4	4	4	3	3
-57.5°	3	3	3	3	3	3	3	3	3	3	3
-60°	2	2	2	2	2	2	2	2	2	2	2
-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°	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: P220422 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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	1	1	1	1	1	1	0	0
65°	2	2	2	2	2	2	2	1	1	1	1
62.5°	2	2	2	2	2	2	2	2	2	1	1
60°	2	2	2	2	2	2	2	2	2	2	2
57.5°	2	2	2	2	2	2	2	2	2	2	2
55°	3	3	3	2	2	2	2	2	2	2	2
52.5°	4	4	3	3	3	3	2	2	2	2	2
50°	6	5	4	4	4	3	3	3	2	2	2
47.5°	8	7	6	6	5	4	3	3	3	2	2
45°	11	10	8	7	6	5	4	4	3	3	2
42.5°	16	13	12	10	8	7	6	5	4	3	3
40°	23	19	16	13	11	9	7	6	5	4	3
37.5°	34	27	22	18	15	12	9	8	6	5	4
35°	50	41	32	25	19	15	12	9	7	6	4
32.5°	70	58	45	35	26	20	15	12	9	7	5
30°	99	80	63	48	36	26	19	15	11	8	6
27.5°	138	107	85	65	48	35	25	18	13	10	7
25°	187	146	111	85	63	45	32	22	16	12	8
22.5°	246	194	146	107	80	58	41	27	19	13	10
20°	316	246	187	138	99	70	50	34	23	16	11
17.5°	396	306	231	168	121	86	60	40	26	18	12
15°	479	371	277	205	144	100	69	47	30	20	14
12.5°	564	436	326	236	167	116	80	54	35	23	15
10°	643	497	372	269	191	131	89	60	39	25	16
7.5°	712	551	411	297	211	144	97	65	42	26	17
5°	765	591	442	319	225	153	102	68	45	28	18
2.5°	798	618	462	334	234	158	105	70	46	28	18
0°	810	627	468	339	236	160	107	71	46	29	19
-2.5°	798	618	462	334	234	158	105	70	46	28	18
-5°	765	591	442	319	225	153	102	68	45	28	18
-7.5°	712	551	411	297	211	144	97	65	42	26	17
-10°	643	497	372	269	191	131	89	60	39	25	16
-12.5°	564	436	326	236	167	116	80	54	35	23	15
-15°	479	371	277	205	144	100	69	47	30	20	14
-17.5°	396	306	231	168	121	86	60	40	26	18	12
-20°	316	246	187	138	99	70	50	34	23	16	11



REPORT NUMBER: P220422 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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°	246	194	146	107	80	58	41	27	19	13	10
-25°	187	146	111	85	63	45	32	22	16	12	8
-27.5°	138	107	85	65	48	35	25	18	13	10	7
-30°	99	80	63	48	36	26	19	15	11	8	6
-32.5°	70	58	45	35	26	20	15	12	9	7	5
-35°	50	41	32	25	19	15	12	9	7	6	4
-37.5°	34	27	22	18	15	12	9	8	6	5	4
-40°	23	19	16	13	11	9	7	6	5	4	3
-42.5°	16	13	12	10	8	7	6	5	4	3	3
-45°	11	10	8	7	6	5	4	4	3	3	2
-47.5°	8	7	6	6	5	4	3	3	3	2	2
-50°	6	5	4	4	4	3	3	3	2	2	2
-52.5°	4	4	3	3	3	3	2	2	2	2	2
-55°	3	3	3	2	2	2	2	2	2	2	2
-57.5°	2	2	2	2	2	2	2	2	2	2	2
-60°	2	2	2	2	2	2	2	2	2	2	2
-62.5°	2	2	2	2	2	2	2	2	2	1	1
-65°	2	2	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: P220422 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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°	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°	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	1	1	1	0	0	0
45°	2	2	2	2	2	2	1	1	0	0	0
42.5°	2	2	2	2	2	2	1	1	0	0	0
40°	3	2	2	2	2	2	2	1	1	0	0
37.5°	3	3	2	2	2	2	2	1	1	0	0
35°	3	3	2	2	2	2	2	2	1	0	0
32.5°	4	3	3	2	2	2	2	2	1	1	0
30°	5	4	3	2	2	2	2	2	1	1	0
27.5°	6	4	3	2	2	2	2	2	1	1	0
25°	6	4	3	3	2	2	2	2	2	1	0
22.5°	7	5	4	3	2	2	2	2	2	1	0
20°	8	6	4	3	2	2	2	2	2	1	0
17.5°	9	6	4	3	3	2	2	2	2	1	1
15°	10	7	5	3	3	2	2	2	2	1	1
12.5°	10	7	5	4	3	2	2	2	2	1	1
10°	11	8	6	4	3	2	2	2	2	1	1
7.5°	12	8	6	4	3	2	2	2	2	1	1
5°	12	8	6	4	3	2	2	2	2	1	1
2.5°	12	8	6	4	3	2	2	2	2	1	1
0°	12	8	6	4	3	2	2	2	2	2	1
-2.5°	12	8	6	4	3	2	2	2	2	1	1
-5°	12	8	6	4	3	2	2	2	2	1	1
-7.5°	12	8	6	4	3	2	2	2	2	1	1
-10°	11	8	6	4	3	2	2	2	2	1	1
-12.5°	10	7	5	4	3	2	2	2	2	1	1
-15°	10	7	5	3	3	2	2	2	2	1	1
-17.5°	9	6	4	3	3	2	2	2	2	1	1
-20°	8	6	4	3	2	2	2	2	2	1	0



REPORT NUMBER: P220422 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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°	7	5	4	3	2	2	2	2	2	1	0
-25°	6	4	3	3	2	2	2	2	2	1	0
-27.5°	6	4	3	2	2	2	2	2	1	1	0
-30°	5	4	3	2	2	2	2	2	1	1	0
-32.5°	4	3	3	2	2	2	2	2	1	1	0
-35°	3	3	2	2	2	2	2	2	1	0	0
-37.5°	3	3	2	2	2	2	2	1	1	0	0
-40°	3	2	2	2	2	2	2	1	1	0	0
-42.5°	2	2	2	2	2	2	1	1	0	0	0
-45°	2	2	2	2	2	2	1	1	0	0	0
-47.5°	2	2	2	2	2	1	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°	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: P220422 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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: P220422 (CONVERTED FROM TYPE C PHOTOMETRY)

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