

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: P220398 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220398 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29420)
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-W-WT-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS,
WIDE FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

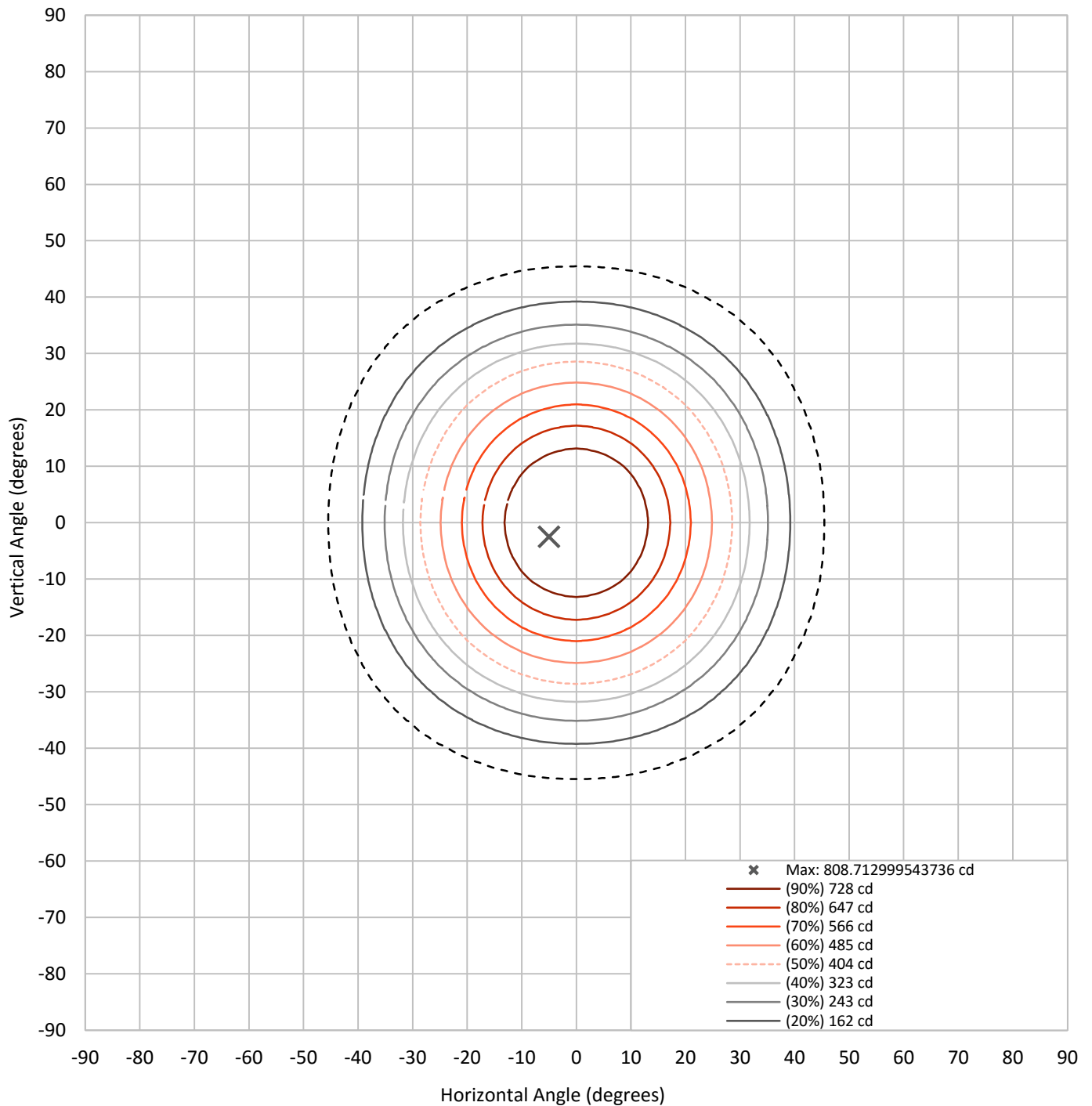
Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	745.2 lumens	Max Intensity:	808.7 candela
Efficiency:	N/A	Max Intensity Angle:	-5°H x -2.5°V
Efficacy:	74.5 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	57°H x 56.4°V	Field Angle (10%):	90.7°H x 90.3°V
Beam Lumens:	458.9 lumens	Field Lumens:	687.1 lumens
Beam Efficiency:	61.6%	Field Efficiency:	92.2%
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: P220398 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-W-WT-L1-UNV

Iso-Candela Plot





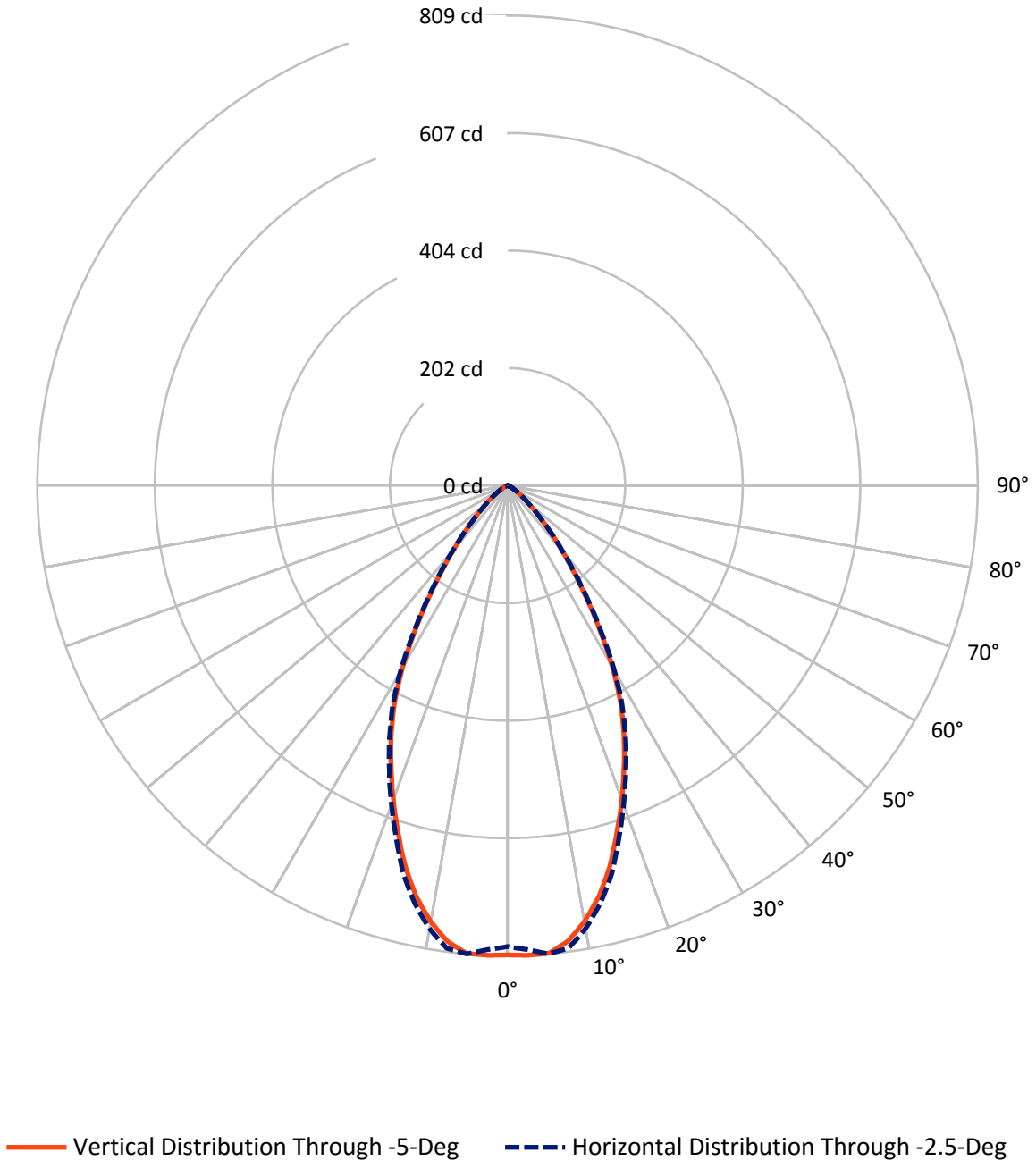
REPORT NUMBER: P220398 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-W-WT-L1-UNV

Lumen Table

90																			
80	0.0	0.0		0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.0		0.0						
70																			
60	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0				
50		0.0	0.1	0.1	0.3	0.5	0.7	0.8	0.8	0.7	0.5	0.3	0.1	0.1		0.0			
40	0.0	0.0	0.1	0.3	0.7	1.3	2.1	2.6	2.6	2.1	1.3	0.7	0.3	0.1	0.0	0.0			
30		0.1	0.2	0.6	1.6	3.4	5.7	7.3	7.3	5.7	3.4	1.6	0.6	0.2	0.1				
20	0.0	0.1	0.3	1.0	3.1	7.0	11.5	14.2	14.2	11.5	7.0	3.1	1.0	0.3	0.1	0.0			
10		0.1	0.4	1.5	4.8	10.8	16.5	20.3	20.3	16.5	10.8	4.8	1.5	0.4	0.1				
0	0.0	0.1	0.5	1.9	6.1	12.9	19.7	23.9	23.9	19.7	12.9	6.1	1.9	0.5	0.1	0.0			
-10		0.1	0.5	1.9	6.1	12.9	19.7	23.9	23.9	19.7	12.9	6.1	1.9	0.5	0.1				
-20	0.0	0.1	0.4	1.5	4.8	10.8	16.5	20.3	20.3	16.5	10.8	4.8	1.5	0.4	0.1	0.0			
-30		0.1	0.3	1.0	3.1	7.0	11.5	14.2	14.2	11.5	7.0	3.1	1.0	0.3	0.1				
-40	0.0	0.1	0.2	0.6	1.6	3.4	5.7	7.3	7.3	5.7	3.4	1.6	0.6	0.2	0.1	0.0			
-50		0.0	0.1	0.3	0.7	1.3	2.1	2.6	2.6	2.1	1.3	0.7	0.3	0.1	0.0				
-60	0.0	0.0	0.1	0.1	0.3	0.5	0.7	0.8	0.8	0.7	0.5	0.3	0.1	0.1	0.0	0.0			
-70		0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0				
-80																			
-90	0.0	0.0		0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.0		0.0						
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

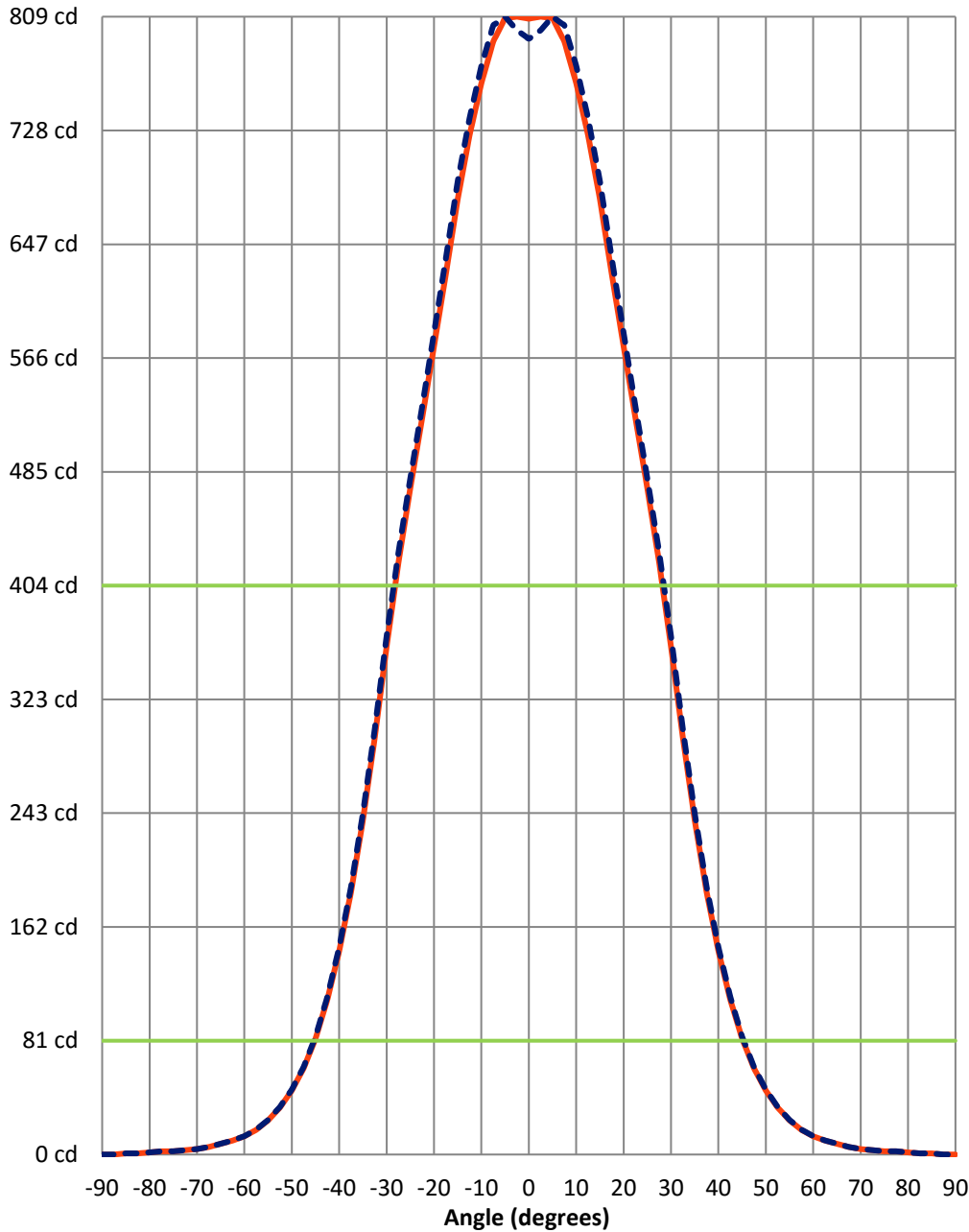
REPORT NUMBER: P220398 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-W-WT-L1-UNV

Luminous Intensity Polar Plot



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CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-W-WT-L1-UNV

Luminous Intensity Plot



Beam:
H Angle: 57°
V Angle: 56.4°
Lumens: 458.9
Efficiency: 61.6%

Field:
H Angle: 90.7°
V Angle: 90.3°
Lumens: 687.1
Efficiency: 92.2%

Spill:
Lumens: 58.1
Efficiency: 7.8%

— 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	1
77.5°	0	0	0	0	0	0	0	0	1	1	1
75°	0	0	0	0	0	0	0	1	1	1	1
72.5°	0	0	0	0	0	0	1	1	1	1	1
70°	0	0	0	0	0	1	1	1	1	1	1
67.5°	0	0	0	0	0	1	1	1	1	1	1
65°	0	0	0	0	1	1	1	1	1	1	2
62.5°	0	0	0	0	1	1	1	1	1	2	2
60°	0	0	0	0	1	1	1	1	1	2	2
57.5°	0	0	0	0	1	1	1	1	2	2	2
55°	0	0	0	1	1	1	1	1	2	2	2
52.5°	0	0	0	1	1	1	1	2	2	2	2
50°	0	0	0	1	1	1	1	2	2	2	3
47.5°	0	0	0	1	1	1	2	2	2	2	3
45°	0	0	0	1	1	1	2	2	2	3	3
42.5°	0	0	0	1	1	1	2	2	2	3	3
40°	0	0	0	1	1	1	2	2	2	3	4
37.5°	0	0	0	1	1	1	2	2	3	3	4
35°	0	0	1	1	1	2	2	2	3	3	4
32.5°	0	0	1	1	1	2	2	2	3	4	4
30°	0	0	1	1	1	2	2	2	3	4	5
27.5°	0	0	1	1	1	2	2	2	3	4	5
25°	0	0	1	1	1	2	2	3	3	4	5
22.5°	0	0	1	1	1	2	2	3	3	4	6
20°	0	0	1	1	1	2	2	3	3	5	6
17.5°	0	0	1	1	1	2	2	3	4	5	7
15°	0	0	1	1	1	2	2	3	4	5	7
12.5°	0	0	1	1	1	2	2	3	4	5	7
10°	0	0	1	1	1	2	2	3	4	5	7
7.5°	0	0	1	1	1	2	2	3	4	5	7
5°	0	0	1	1	1	2	2	3	4	5	8
2.5°	0	0	1	1	1	2	2	3	4	5	8
0°	0	0	1	1	2	2	2	3	4	5	8
-2.5°	0	0	1	1	1	2	2	3	4	5	8
-5°	0	0	1	1	1	2	2	3	4	5	8
-7.5°	0	0	1	1	1	2	2	3	4	5	7
-10°	0	0	1	1	1	2	2	3	4	5	7
-12.5°	0	0	1	1	1	2	2	3	4	5	7
-15°	0	0	1	1	1	2	2	3	4	5	7
-17.5°	0	0	1	1	1	2	2	3	4	5	7
-20°	0	0	1	1	1	2	2	3	3	5	6



REPORT NUMBER: P220398 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-W-WT-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	1	1	1	2	2	3	3	4	6
-25°	0	0	1	1	1	2	2	3	3	4	5
-27.5°	0	0	1	1	1	2	2	2	3	4	5
-30°	0	0	1	1	1	2	2	2	3	4	5
-32.5°	0	0	1	1	1	2	2	2	3	4	4
-35°	0	0	1	1	1	2	2	2	3	3	4
-37.5°	0	0	0	1	1	1	2	2	3	3	4
-40°	0	0	0	1	1	1	2	2	2	3	4
-42.5°	0	0	0	1	1	1	2	2	2	3	3
-45°	0	0	0	1	1	1	2	2	2	3	3
-47.5°	0	0	0	1	1	1	2	2	2	2	3
-50°	0	0	0	1	1	1	1	2	2	2	3
-52.5°	0	0	0	1	1	1	1	2	2	2	2
-55°	0	0	0	1	1	1	1	1	2	2	2
-57.5°	0	0	0	0	1	1	1	1	2	2	2
-60°	0	0	0	0	1	1	1	1	1	2	2
-62.5°	0	0	0	0	1	1	1	1	1	2	2
-65°	0	0	0	0	1	1	1	1	1	1	2
-67.5°	0	0	0	0	0	1	1	1	1	1	1
-70°	0	0	0	0	0	1	1	1	1	1	1
-72.5°	0	0	0	0	0	0	1	1	1	1	1
-75°	0	0	0	0	0	0	0	1	1	1	1
-77.5°	0	0	0	0	0	0	0	0	1	1	1
-80°	0	0	0	0	0	0	0	0	0	0	1
-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: P220398 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-W-WT-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	1	1	1	1	1	1	1	1
80°	1	1	1	1	1	1	1	1	1	1	1
77.5°	1	1	1	1	1	1	1	1	1	1	1
75°	1	1	1	1	1	1	2	2	2	2	2
72.5°	1	1	1	1	2	2	2	2	2	2	2
70°	1	1	2	2	2	2	2	2	2	2	3
67.5°	2	2	2	2	2	2	2	3	3	3	3
65°	2	2	2	2	2	3	3	3	3	4	4
62.5°	2	2	2	2	3	3	3	4	4	4	5
60°	2	2	2	3	3	3	4	4	5	5	6
57.5°	2	2	3	3	4	4	5	5	6	7	8
55°	2	3	3	4	4	5	6	7	8	9	10
52.5°	3	3	4	4	5	6	7	8	9	10	12
50°	3	3	4	5	6	7	8	10	11	12	14
47.5°	3	4	5	6	7	8	10	11	13	15	18
45°	4	4	5	7	8	10	11	13	16	19	22
42.5°	4	5	6	8	9	11	13	16	19	23	28
40°	4	5	7	9	10	12	15	19	23	28	34
37.5°	5	6	8	10	12	14	18	22	28	34	41
35°	5	7	9	11	13	16	21	26	33	41	50
32.5°	6	8	9	12	15	19	24	31	39	48	59
30°	6	8	10	13	17	21	28	35	45	57	70
27.5°	7	9	11	14	18	24	31	41	52	65	82
25°	7	9	12	16	21	27	35	46	59	75	95
22.5°	8	10	13	17	23	30	40	52	66	85	109
20°	8	11	14	18	24	33	43	57	74	96	123
17.5°	9	11	15	20	27	36	47	62	81	106	136
15°	9	12	15	21	28	38	51	68	89	116	149
12.5°	9	12	16	22	30	41	55	73	96	126	162
10°	10	12	17	23	32	43	57	77	102	134	172
7.5°	10	13	17	24	33	44	60	80	107	140	181
5°	10	13	18	24	33	45	61	82	110	145	187
2.5°	10	13	18	25	34	46	62	84	112	147	190
0°	10	13	18	25	34	46	63	84	113	148	192
-2.5°	10	13	18	25	34	46	62	84	112	147	190
-5°	10	13	18	24	33	45	61	82	110	145	187
-7.5°	10	13	17	24	33	44	60	80	107	140	181
-10°	10	12	17	23	32	43	57	77	102	134	172
-12.5°	9	12	16	22	30	41	55	73	96	126	162
-15°	9	12	15	21	28	38	51	68	89	116	149
-17.5°	9	11	15	20	27	36	47	62	81	106	136
-20°	8	11	14	18	24	33	43	57	74	96	123



REPORT NUMBER: P220398 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-W-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	8	10	13	17	23	30	40	52	66	85	109
-25°	7	9	12	16	21	27	35	46	59	75	95
-27.5°	7	9	11	14	18	24	31	41	52	65	82
-30°	6	8	10	13	17	21	28	35	45	57	70
-32.5°	6	8	9	12	15	19	24	31	39	48	59
-35°	5	7	9	11	13	16	21	26	33	41	50
-37.5°	5	6	8	10	12	14	18	22	28	34	41
-40°	4	5	7	9	10	12	15	19	23	28	34
-42.5°	4	5	6	8	9	11	13	16	19	23	28
-45°	4	4	5	7	8	10	11	13	16	19	22
-47.5°	3	4	5	6	7	8	10	11	13	15	18
-50°	3	3	4	5	6	7	8	10	11	12	14
-52.5°	3	3	4	4	5	6	7	8	9	10	12
-55°	2	3	3	4	4	5	6	7	8	9	10
-57.5°	2	2	3	3	4	4	5	5	6	7	8
-60°	2	2	2	3	3	3	4	4	5	5	6
-62.5°	2	2	2	2	3	3	3	4	4	4	5
-65°	2	2	2	2	2	3	3	3	3	4	4
-67.5°	2	2	2	2	2	2	2	3	3	3	3
-70°	1	1	2	2	2	2	2	2	2	2	3
-72.5°	1	1	1	1	2	2	2	2	2	2	2
-75°	1	1	1	1	1	1	2	2	2	2	2
-77.5°	1	1	1	1	1	1	1	1	1	1	1
-80°	1	1	1	1	1	1	1	1	1	1	1
-82.5°	0	0	0	1	1	1	1	1	1	1	1
-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: P220398 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-W-WT-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°	1	1	1	1	1	1	1	1	1	1	1
82.5°	1	1	1	1	1	1	1	1	1	1	1
80°	1	1	1	1	1	1	1	1	1	1	1
77.5°	2	2	2	2	2	2	2	2	2	2	2
75°	2	2	2	2	2	2	2	2	2	2	2
72.5°	2	2	2	2	3	3	3	3	3	3	3
70°	3	3	3	3	3	3	3	4	4	4	4
67.5°	3	4	4	4	4	4	5	5	5	5	5
65°	4	4	5	5	5	6	6	7	7	7	7
62.5°	5	6	6	7	7	8	8	9	9	9	10
60°	7	8	8	9	9	10	11	11	12	12	12
57.5°	9	9	10	11	12	13	14	15	15	16	17
55°	11	12	13	14	16	17	18	20	21	22	23
52.5°	13	15	17	18	21	23	24	27	28	30	32
50°	16	19	21	24	27	30	33	36	38	41	43
47.5°	21	24	28	31	35	40	43	47	51	55	57
45°	26	31	35	41	46	52	57	62	68	73	77
42.5°	33	39	45	52	59	66	74	81	89	96	102
40°	41	48	57	65	75	85	96	106	116	126	134
37.5°	50	59	70	82	95	109	123	136	149	162	172
35°	60	73	86	103	119	137	154	172	188	204	218
32.5°	73	88	106	126	146	169	190	214	235	254	272
30°	86	106	128	152	178	205	233	261	287	310	332
27.5°	103	126	152	181	213	245	279	312	343	371	392
25°	119	146	178	213	250	289	328	366	397	424	446
22.5°	137	169	205	245	289	334	377	413	446	471	493
20°	154	190	233	279	328	377	419	456	487	514	539
17.5°	172	214	261	312	366	413	456	492	526	557	586
15°	188	235	287	343	397	446	487	526	564	599	630
12.5°	204	254	310	371	424	471	514	557	599	638	675
10°	218	272	332	392	446	493	539	586	630	675	713
7.5°	230	286	349	408	462	510	559	608	658	704	741
5°	238	296	361	421	474	523	574	626	679	724	761
2.5°	242	302	368	428	481	532	584	637	692	737	774
0°	244	304	371	430	483	534	587	641	696	741	778
-2.5°	242	302	368	428	481	532	584	637	692	737	774
-5°	238	296	361	421	474	523	574	626	679	724	761
-7.5°	230	286	349	408	462	510	559	608	658	704	741
-10°	218	272	332	392	446	493	539	586	630	675	713
-12.5°	204	254	310	371	424	471	514	557	599	638	675
-15°	188	235	287	343	397	446	487	526	564	599	630
-17.5°	172	214	261	312	366	413	456	492	526	557	586
-20°	154	190	233	279	328	377	419	456	487	514	539



REPORT NUMBER: P220398 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-W-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	137	169	205	245	289	334	377	413	446	471	493
-25°	119	146	178	213	250	289	328	366	397	424	446
-27.5°	103	126	152	181	213	245	279	312	343	371	392
-30°	86	106	128	152	178	205	233	261	287	310	332
-32.5°	73	88	106	126	146	169	190	214	235	254	272
-35°	60	73	86	103	119	137	154	172	188	204	218
-37.5°	50	59	70	82	95	109	123	136	149	162	172
-40°	41	48	57	65	75	85	96	106	116	126	134
-42.5°	33	39	45	52	59	66	74	81	89	96	102
-45°	26	31	35	41	46	52	57	62	68	73	77
-47.5°	21	24	28	31	35	40	43	47	51	55	57
-50°	16	19	21	24	27	30	33	36	38	41	43
-52.5°	13	15	17	18	21	23	24	27	28	30	32
-55°	11	12	13	14	16	17	18	20	21	22	23
-57.5°	9	9	10	11	12	13	14	15	15	16	17
-60°	7	8	8	9	9	10	11	11	12	12	12
-62.5°	5	6	6	7	7	8	8	9	9	9	10
-65°	4	4	5	5	5	6	6	7	7	7	7
-67.5°	3	4	4	4	4	4	5	5	5	5	5
-70°	3	3	3	3	3	3	3	4	4	4	4
-72.5°	2	2	2	2	3	3	3	3	3	3	3
-75°	2	2	2	2	2	2	2	2	2	2	2
-77.5°	2	2	2	2	2	2	2	2	2	2	2
-80°	1	1	1	1	1	1	1	1	1	1	1
-82.5°	1	1	1	1	1	1	1	1	1	1	1
-85°	1	1	1	1	1	1	1	1	1	1	1
-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: P220398 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-W-WT-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°	1	1	1	1	1	1	1	1	1	1	1
82.5°	1	1	1	1	1	1	1	1	1	1	1
80°	1	1	1	2	1	1	1	1	1	1	1
77.5°	2	2	2	2	2	2	2	2	2	2	2
75°	2	2	2	2	2	2	2	2	2	2	2
72.5°	3	3	3	3	3	3	3	3	3	3	3
70°	4	4	4	4	4	4	4	4	4	4	4
67.5°	5	5	5	5	5	5	5	5	5	5	5
65°	7	8	8	8	8	8	7	7	7	7	7
62.5°	10	10	10	10	10	10	10	10	9	9	9
60°	13	13	13	13	13	13	13	12	12	12	11
57.5°	17	18	18	18	18	18	17	17	16	15	15
55°	24	24	25	25	25	24	24	23	22	21	20
52.5°	33	33	34	34	34	33	33	32	30	28	27
50°	44	45	46	46	46	45	44	43	41	38	36
47.5°	60	61	62	63	62	61	60	57	55	51	47
45°	80	82	84	84	84	82	80	77	73	68	62
42.5°	107	110	112	113	112	110	107	102	96	89	81
40°	140	145	147	148	147	145	140	134	126	116	106
37.5°	181	187	190	192	190	187	181	172	162	149	136
35°	230	238	242	244	242	238	230	218	204	188	172
32.5°	286	296	302	304	302	296	286	272	254	235	214
30°	349	361	368	371	368	361	349	332	310	287	261
27.5°	408	421	428	430	428	421	408	392	371	343	312
25°	462	474	481	483	481	474	462	446	424	397	366
22.5°	510	523	532	534	532	523	510	493	471	446	413
20°	559	574	584	587	584	574	559	539	514	487	456
17.5°	608	626	637	641	637	626	608	586	557	526	492
15°	658	679	692	696	692	679	658	630	599	564	526
12.5°	704	724	737	741	737	724	704	675	638	599	557
10°	741	761	774	778	774	761	741	713	675	630	586
7.5°	770	791	802	805	802	791	770	741	704	658	608
5°	791	808	809	807	809	808	791	761	724	679	626
2.5°	802	809	799	793	799	809	802	774	737	692	637
0°	805	807	793	793	793	807	805	778	741	696	641
-2.5°	802	809	799	793	799	809	802	774	737	692	637
-5°	791	808	809	807	809	808	791	761	724	679	626
-7.5°	770	791	802	805	802	791	770	741	704	658	608
-10°	741	761	774	778	774	761	741	713	675	630	586
-12.5°	704	724	737	741	737	724	704	675	638	599	557
-15°	658	679	692	696	692	679	658	630	599	564	526
-17.5°	608	626	637	641	637	626	608	586	557	526	492
-20°	559	574	584	587	584	574	559	539	514	487	456



REPORT NUMBER: P220398 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-W-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	510	523	532	534	532	523	510	493	471	446	413
-25°	462	474	481	483	481	474	462	446	424	397	366
-27.5°	408	421	428	430	428	421	408	392	371	343	312
-30°	349	361	368	371	368	361	349	332	310	287	261
-32.5°	286	296	302	304	302	296	286	272	254	235	214
-35°	230	238	242	244	242	238	230	218	204	188	172
-37.5°	181	187	190	192	190	187	181	172	162	149	136
-40°	140	145	147	148	147	145	140	134	126	116	106
-42.5°	107	110	112	113	112	110	107	102	96	89	81
-45°	80	82	84	84	84	82	80	77	73	68	62
-47.5°	60	61	62	63	62	61	60	57	55	51	47
-50°	44	45	46	46	46	45	44	43	41	38	36
-52.5°	33	33	34	34	34	33	33	32	30	28	27
-55°	24	24	25	25	25	24	24	23	22	21	20
-57.5°	17	18	18	18	18	18	17	17	16	15	15
-60°	13	13	13	13	13	13	13	12	12	12	11
-62.5°	10	10	10	10	10	10	10	10	9	9	9
-65°	7	8	8	8	8	8	7	7	7	7	7
-67.5°	5	5	5	5	5	5	5	5	5	5	5
-70°	4	4	4	4	4	4	4	4	4	4	4
-72.5°	3	3	3	3	3	3	3	3	3	3	3
-75°	2	2	2	2	2	2	2	2	2	2	2
-77.5°	2	2	2	2	2	2	2	2	2	2	2
-80°	1	1	1	2	1	1	1	1	1	1	1
-82.5°	1	1	1	1	1	1	1	1	1	1	1
-85°	1	1	1	1	1	1	1	1	1	1	1
-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: P220398 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-W-WT-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°	1	1	1	1	1	1	1	0	0	0	0
82.5°	1	1	1	1	1	1	1	1	1	1	1
80°	1	1	1	1	1	1	1	1	1	1	1
77.5°	2	2	2	2	2	2	2	1	1	1	1
75°	2	2	2	2	2	2	2	2	2	2	2
72.5°	3	3	3	2	2	2	2	2	2	2	2
70°	3	3	3	3	3	3	3	3	2	2	2
67.5°	5	4	4	4	4	4	3	3	3	3	3
65°	6	6	5	5	5	4	4	4	4	3	3
62.5°	8	8	7	7	6	6	5	5	4	4	4
60°	11	10	9	9	8	8	7	6	5	5	4
57.5°	14	13	12	11	10	9	9	8	7	6	5
55°	18	17	16	14	13	12	11	10	9	8	7
52.5°	24	23	21	18	17	15	13	12	10	9	8
50°	33	30	27	24	21	19	16	14	12	11	10
47.5°	43	40	35	31	28	24	21	18	15	13	11
45°	57	52	46	41	35	31	26	22	19	16	13
42.5°	74	66	59	52	45	39	33	28	23	19	16
40°	96	85	75	65	57	48	41	34	28	23	19
37.5°	123	109	95	82	70	59	50	41	34	28	22
35°	154	137	119	103	86	73	60	50	41	33	26
32.5°	190	169	146	126	106	88	73	59	48	39	31
30°	233	205	178	152	128	106	86	70	57	45	35
27.5°	279	245	213	181	152	126	103	82	65	52	41
25°	328	289	250	213	178	146	119	95	75	59	46
22.5°	377	334	289	245	205	169	137	109	85	66	52
20°	419	377	328	279	233	190	154	123	96	74	57
17.5°	456	413	366	312	261	214	172	136	106	81	62
15°	487	446	397	343	287	235	188	149	116	89	68
12.5°	514	471	424	371	310	254	204	162	126	96	73
10°	539	493	446	392	332	272	218	172	134	102	77
7.5°	559	510	462	408	349	286	230	181	140	107	80
5°	574	523	474	421	361	296	238	187	145	110	82
2.5°	584	532	481	428	368	302	242	190	147	112	84
0°	587	534	483	430	371	304	244	192	148	113	84
-2.5°	584	532	481	428	368	302	242	190	147	112	84
-5°	574	523	474	421	361	296	238	187	145	110	82
-7.5°	559	510	462	408	349	286	230	181	140	107	80
-10°	539	493	446	392	332	272	218	172	134	102	77
-12.5°	514	471	424	371	310	254	204	162	126	96	73
-15°	487	446	397	343	287	235	188	149	116	89	68
-17.5°	456	413	366	312	261	214	172	136	106	81	62
-20°	419	377	328	279	233	190	154	123	96	74	57



REPORT NUMBER: P220398 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-W-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	377	334	289	245	205	169	137	109	85	66	52
-25°	328	289	250	213	178	146	119	95	75	59	46
-27.5°	279	245	213	181	152	126	103	82	65	52	41
-30°	233	205	178	152	128	106	86	70	57	45	35
-32.5°	190	169	146	126	106	88	73	59	48	39	31
-35°	154	137	119	103	86	73	60	50	41	33	26
-37.5°	123	109	95	82	70	59	50	41	34	28	22
-40°	96	85	75	65	57	48	41	34	28	23	19
-42.5°	74	66	59	52	45	39	33	28	23	19	16
-45°	57	52	46	41	35	31	26	22	19	16	13
-47.5°	43	40	35	31	28	24	21	18	15	13	11
-50°	33	30	27	24	21	19	16	14	12	11	10
-52.5°	24	23	21	18	17	15	13	12	10	9	8
-55°	18	17	16	14	13	12	11	10	9	8	7
-57.5°	14	13	12	11	10	9	9	8	7	6	5
-60°	11	10	9	9	8	8	7	6	5	5	4
-62.5°	8	8	7	7	6	6	5	5	4	4	4
-65°	6	6	5	5	5	4	4	4	4	3	3
-67.5°	5	4	4	4	4	4	3	3	3	3	3
-70°	3	3	3	3	3	3	3	3	2	2	2
-72.5°	3	3	3	2	2	2	2	2	2	2	2
-75°	2	2	2	2	2	2	2	2	2	2	2
-77.5°	2	2	2	2	2	2	2	1	1	1	1
-80°	1	1	1	1	1	1	1	1	1	1	1
-82.5°	1	1	1	1	1	1	1	1	1	1	1
-85°	1	1	1	1	1	1	1	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: P220398 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-W-WT-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°	1	1	1	1	0	0	0	0	0	0	0
80°	1	1	1	1	1	1	1	1	0	0	0
77.5°	1	1	1	1	1	1	1	1	1	1	0
75°	2	1	1	1	1	1	1	1	1	1	1
72.5°	2	2	2	1	1	1	1	1	1	1	1
70°	2	2	2	2	2	1	1	1	1	1	1
67.5°	2	2	2	2	2	2	2	1	1	1	1
65°	3	3	2	2	2	2	2	2	1	1	1
62.5°	3	3	3	2	2	2	2	2	2	1	1
60°	4	3	3	3	2	2	2	2	2	1	1
57.5°	5	4	4	3	3	2	2	2	2	2	1
55°	6	5	4	4	3	3	2	2	2	2	1
52.5°	7	6	5	4	4	3	3	2	2	2	2
50°	8	7	6	5	4	3	3	3	2	2	2
47.5°	10	8	7	6	5	4	3	3	2	2	2
45°	11	10	8	7	5	4	4	3	3	2	2
42.5°	13	11	9	8	6	5	4	3	3	2	2
40°	15	12	10	9	7	5	4	4	3	2	2
37.5°	18	14	12	10	8	6	5	4	3	3	2
35°	21	16	13	11	9	7	5	4	3	3	2
32.5°	24	19	15	12	9	8	6	4	4	3	2
30°	28	21	17	13	10	8	6	5	4	3	2
27.5°	31	24	18	14	11	9	7	5	4	3	2
25°	35	27	21	16	12	9	7	5	4	3	3
22.5°	40	30	23	17	13	10	8	6	4	3	3
20°	43	33	24	18	14	11	8	6	5	3	3
17.5°	47	36	27	20	15	11	9	7	5	4	3
15°	51	38	28	21	15	12	9	7	5	4	3
12.5°	55	41	30	22	16	12	9	7	5	4	3
10°	57	43	32	23	17	12	10	7	5	4	3
7.5°	60	44	33	24	17	13	10	7	5	4	3
5°	61	45	33	24	18	13	10	8	5	4	3
2.5°	62	46	34	25	18	13	10	8	5	4	3
0°	63	46	34	25	18	13	10	8	5	4	3
-2.5°	62	46	34	25	18	13	10	8	5	4	3
-5°	61	45	33	24	18	13	10	8	5	4	3
-7.5°	60	44	33	24	17	13	10	7	5	4	3
-10°	57	43	32	23	17	12	10	7	5	4	3
-12.5°	55	41	30	22	16	12	9	7	5	4	3
-15°	51	38	28	21	15	12	9	7	5	4	3
-17.5°	47	36	27	20	15	11	9	7	5	4	3
-20°	43	33	24	18	14	11	8	6	5	3	3



REPORT NUMBER: P220398 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-W-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	40	30	23	17	13	10	8	6	4	3	3
-25°	35	27	21	16	12	9	7	5	4	3	3
-27.5°	31	24	18	14	11	9	7	5	4	3	2
-30°	28	21	17	13	10	8	6	5	4	3	2
-32.5°	24	19	15	12	9	8	6	4	4	3	2
-35°	21	16	13	11	9	7	5	4	3	3	2
-37.5°	18	14	12	10	8	6	5	4	3	3	2
-40°	15	12	10	9	7	5	4	4	3	2	2
-42.5°	13	11	9	8	6	5	4	3	3	2	2
-45°	11	10	8	7	5	4	4	3	3	2	2
-47.5°	10	8	7	6	5	4	3	3	2	2	2
-50°	8	7	6	5	4	3	3	3	2	2	2
-52.5°	7	6	5	4	4	3	3	2	2	2	2
-55°	6	5	4	4	3	3	2	2	2	2	1
-57.5°	5	4	4	3	3	2	2	2	2	2	1
-60°	4	3	3	3	2	2	2	2	2	1	1
-62.5°	3	3	3	2	2	2	2	2	2	1	1
-65°	3	3	2	2	2	2	2	2	1	1	1
-67.5°	2	2	2	2	2	2	2	1	1	1	1
-70°	2	2	2	2	2	1	1	1	1	1	1
-72.5°	2	2	2	1	1	1	1	1	1	1	1
-75°	2	1	1	1	1	1	1	1	1	1	1
-77.5°	1	1	1	1	1	1	1	1	1	1	0
-80°	1	1	1	1	1	1	1	1	0	0	0
-82.5°	1	1	1	1	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: P220398 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-W-WT-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°	1	0	0	0	0	0	0
70°	1	1	0	0	0	0	0
67.5°	1	1	0	0	0	0	0
65°	1	1	1	0	0	0	0
62.5°	1	1	1	0	0	0	0
60°	1	1	1	0	0	0	0
57.5°	1	1	1	0	0	0	0
55°	1	1	1	1	0	0	0
52.5°	1	1	1	1	0	0	0
50°	1	1	1	1	0	0	0
47.5°	2	1	1	1	0	0	0
45°	2	1	1	1	0	0	0
42.5°	2	1	1	1	0	0	0
40°	2	1	1	1	0	0	0
37.5°	2	1	1	1	0	0	0
35°	2	2	1	1	1	0	0
32.5°	2	2	1	1	1	0	0
30°	2	2	1	1	1	0	0
27.5°	2	2	1	1	1	0	0
25°	2	2	1	1	1	0	0
22.5°	2	2	1	1	1	0	0
20°	2	2	1	1	1	0	0
17.5°	2	2	1	1	1	0	0
15°	2	2	1	1	1	0	0
12.5°	2	2	1	1	1	0	0
10°	2	2	1	1	1	0	0
7.5°	2	2	1	1	1	0	0
5°	2	2	1	1	1	0	0
2.5°	2	2	1	1	1	0	0
0°	2	2	2	1	1	0	0
-2.5°	2	2	1	1	1	0	0
-5°	2	2	1	1	1	0	0
-7.5°	2	2	1	1	1	0	0
-10°	2	2	1	1	1	0	0
-12.5°	2	2	1	1	1	0	0
-15°	2	2	1	1	1	0	0
-17.5°	2	2	1	1	1	0	0
-20°	2	2	1	1	1	0	0



REPORT NUMBER: P220398 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-W-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	2	2	1	1	1	0	0
-25°	2	2	1	1	1	0	0
-27.5°	2	2	1	1	1	0	0
-30°	2	2	1	1	1	0	0
-32.5°	2	2	1	1	1	0	0
-35°	2	2	1	1	1	0	0
-37.5°	2	1	1	1	0	0	0
-40°	2	1	1	1	0	0	0
-42.5°	2	1	1	1	0	0	0
-45°	2	1	1	1	0	0	0
-47.5°	2	1	1	1	0	0	0
-50°	1	1	1	1	0	0	0
-52.5°	1	1	1	1	0	0	0
-55°	1	1	1	1	0	0	0
-57.5°	1	1	1	0	0	0	0
-60°	1	1	1	0	0	0	0
-62.5°	1	1	1	0	0	0	0
-65°	1	1	1	0	0	0	0
-67.5°	1	1	0	0	0	0	0
-70°	1	1	0	0	0	0	0
-72.5°	1	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)