

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: P220359 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-F-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220359 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29415)
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]-LED3597-F-BK-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, RECESSED LENS,
FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

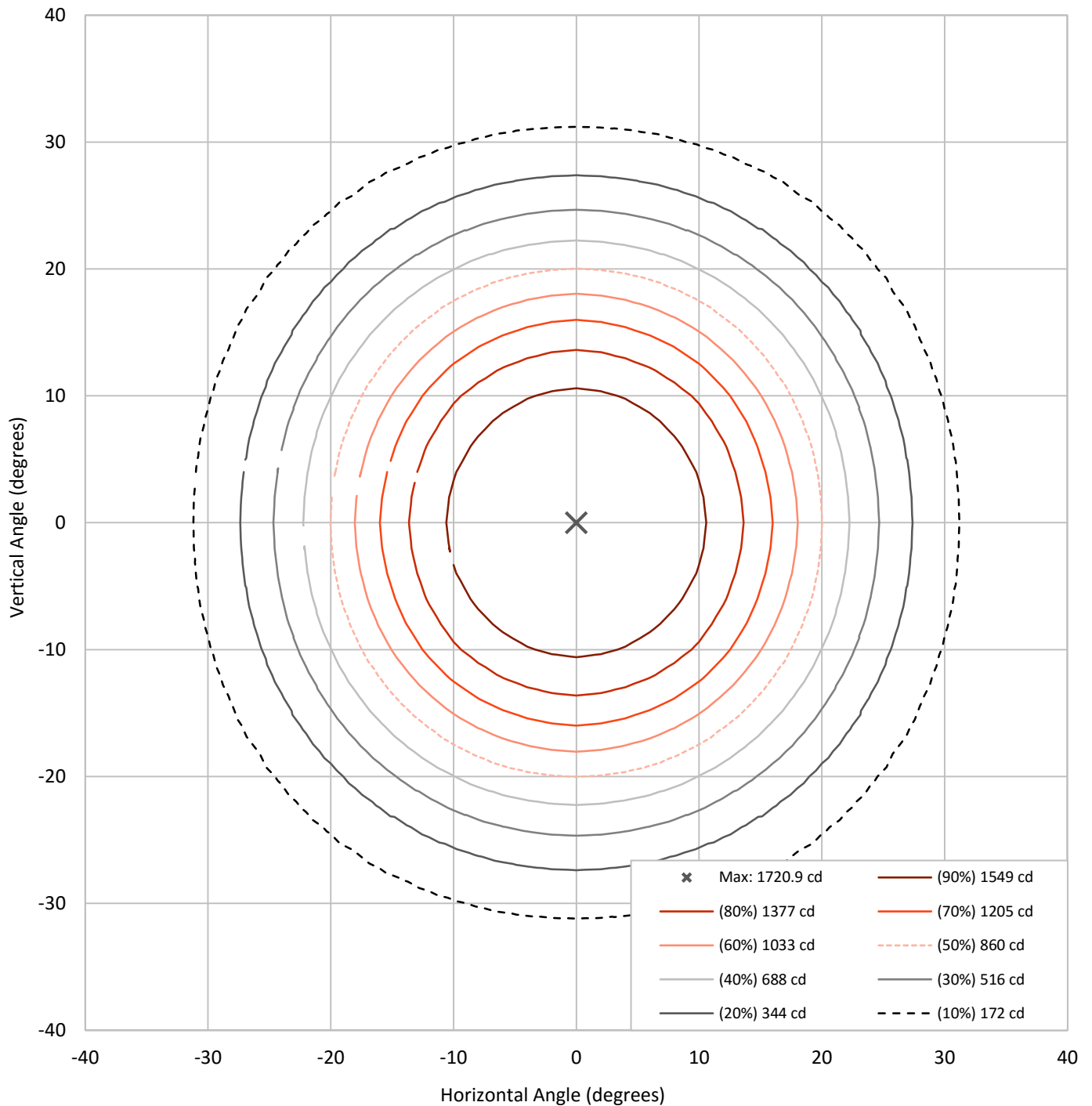
Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	799.6 lumens	Max Intensity:	1720.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	80.0 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	40.1°H x 40.1°V	Field Angle (10%):	62.4°H x 62.4°V
Beam Lumens:	513.3 lumens	Field Lumens:	737.9 lumens
Beam Efficiency:	64.2%	Field Efficiency:	92.3%

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



REPORT NUMBER: P220359 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-F-BK-L1-UNV

Iso-Candela Plot



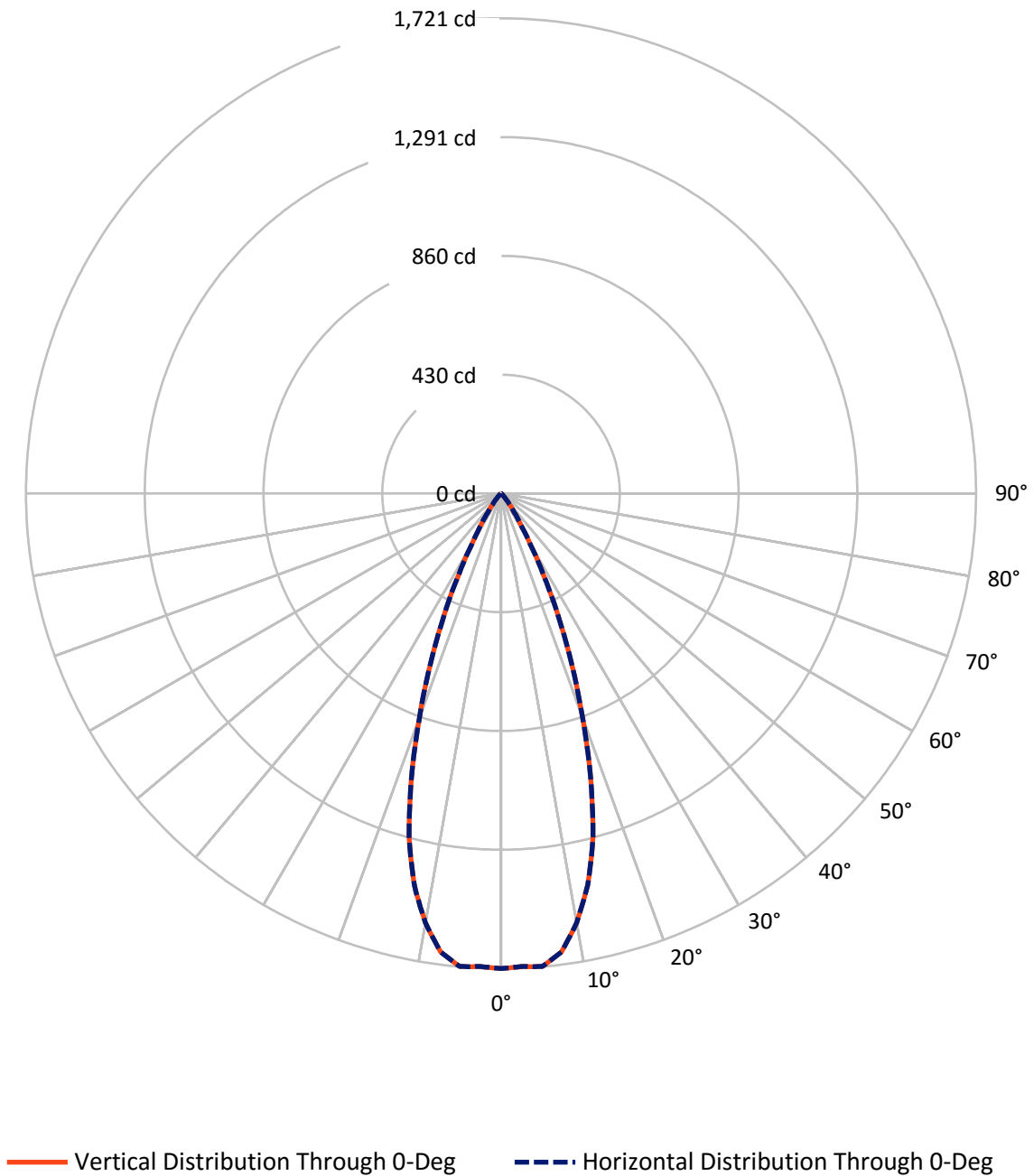
REPORT NUMBER: P220359 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-F-BK-L1-UNV

Lumen Table

90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
50	0.0	0.0	0.0	0.0	0.1	0.2	0.4	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
40		0.0	0.0	0.0	0.2	0.7	1.7	2.7	2.7	1.7	0.7	0.2	0.0	0.0			
30	0.0	0.0	0.0	0.1	0.6	2.8	8.2	14.1	14.1	8.2	2.8	0.6	0.1	0.0	0.0	0.0	
20		0.0	0.0	0.2	1.5	7.8	22.7	35.8	35.8	22.7	7.8	1.5	0.2	0.0			
10	0.0	0.0	0.0	0.3	2.3	13.0	34.8	49.6	49.6	34.8	13.0	2.3	0.3	0.0	0.0	0.0	
0		0.0	0.0	0.3	2.3	13.0	34.8	49.6	49.6	34.8	13.0	2.3	0.3	0.0			
-10	0.0	0.0	0.0	0.3	2.3	13.0	34.8	49.6	49.6	34.8	13.0	2.3	0.3	0.0	0.0	0.0	
-20		0.0	0.0	0.2	1.5	7.8	22.7	35.8	35.8	22.7	7.8	1.5	0.2	0.0			
-30	0.0	0.0	0.0	0.1	0.6	2.8	8.2	14.1	14.1	8.2	2.8	0.6	0.1	0.0	0.0	0.0	
-40		0.0	0.0	0.0	0.2	0.7	1.7	2.7	2.7	1.7	0.7	0.2	0.0	0.0			
-50	0.0	0.0	0.0	0.0	0.1	0.2	0.4	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0		
-60		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
-70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
-80		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
-90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

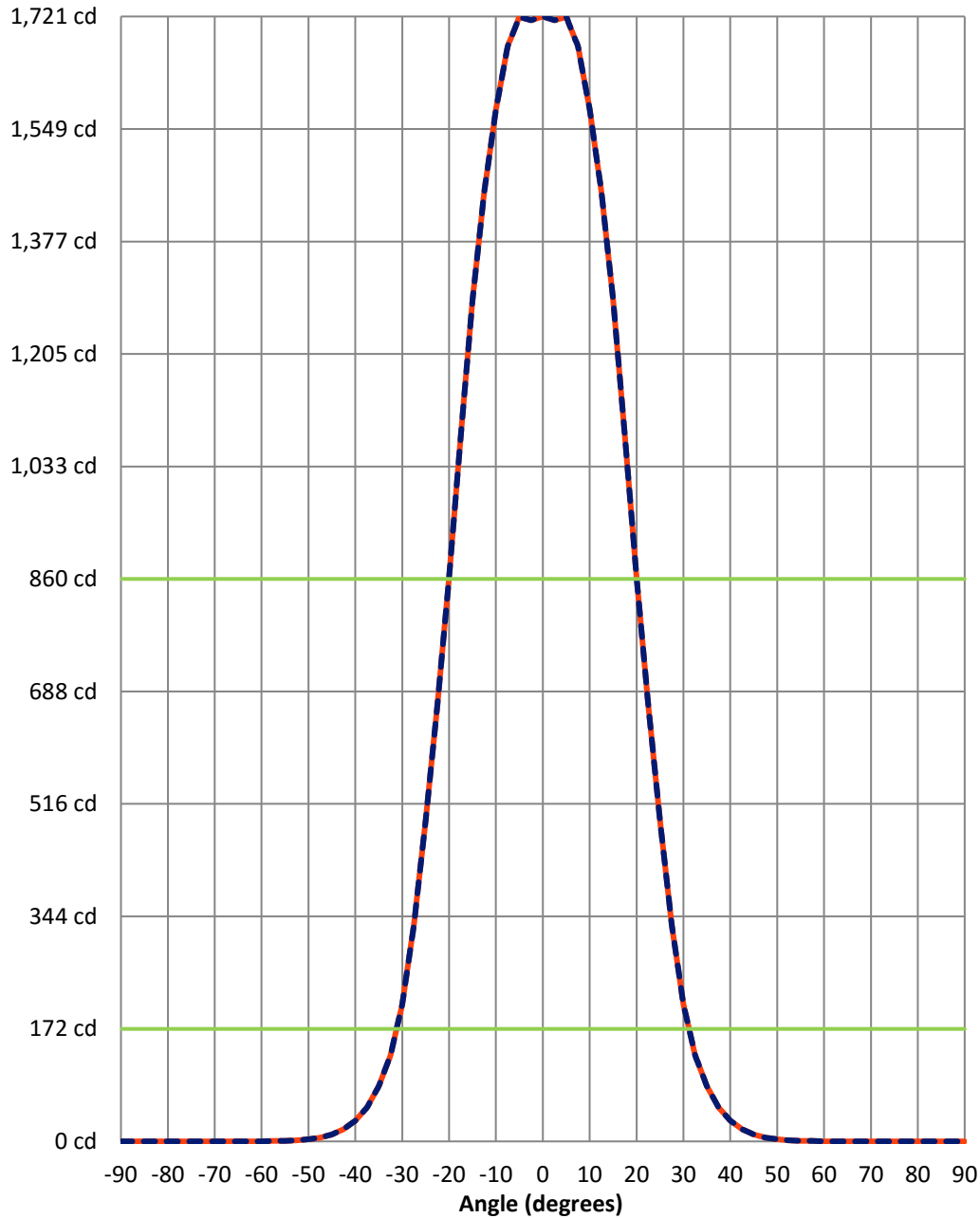
REPORT NUMBER: P220359 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-F-BK-L1-UNV

Luminous Intensity Polar Plot



REPORT NUMBER: P220359 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-F-BK-L1-UNV

Luminous Intensity Plot



Beam:
 H Angle: 40.1°
 V Angle: 40.1°
 Lumens: 513.3
 Efficiency: 64.2%

Field:
 H Angle: 62.4°
 V Angle: 62.4°
 Lumens: 737.9
 Efficiency: 92.3%

Spill:
 Lumens: 61.7
 Efficiency: 7.7%

- Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 0-Deg



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-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	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: P220359 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-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	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: P220359 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-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	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	3
35°	0	0	0	0	0	1	1	1	1	3	4
32.5°	0	0	0	0	0	1	1	1	2	4	5
30°	0	0	0	0	1	1	1	2	3	5	7
27.5°	0	0	0	0	1	1	1	3	4	6	10
25°	0	0	0	0	1	1	2	3	5	9	14
22.5°	0	0	0	1	1	1	2	4	7	11	18
20°	0	0	0	1	1	1	3	5	8	14	22
17.5°	0	0	0	1	1	2	3	6	10	17	27
15°	0	0	0	1	1	2	4	7	12	20	32
12.5°	0	0	1	1	1	3	5	8	14	23	38
10°	0	0	1	1	1	3	5	9	16	26	43
7.5°	0	0	1	1	1	3	5	10	17	29	47
5°	0	0	1	1	2	3	6	10	18	30	50
2.5°	0	0	1	1	2	3	6	10	19	31	51
0°	0	0	1	1	2	3	6	11	19	32	52
-2.5°	0	0	1	1	2	3	6	10	19	31	51
-5°	0	0	1	1	2	3	6	10	18	30	50
-7.5°	0	0	1	1	1	3	5	10	17	29	47
-10°	0	0	1	1	1	3	5	9	16	26	43
-12.5°	0	0	1	1	1	3	5	8	14	23	38
-15°	0	0	0	1	1	2	4	7	12	20	32
-17.5°	0	0	0	1	1	2	3	6	10	17	27
-20°	0	0	0	1	1	1	3	5	8	14	22



REPORT NUMBER: P220359 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-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°	0	0	0	1	1	1	2	4	7	11	18
-25°	0	0	0	0	1	1	2	3	5	9	14
-27.5°	0	0	0	0	1	1	1	3	4	6	10
-30°	0	0	0	0	1	1	1	2	3	5	7
-32.5°	0	0	0	0	0	1	1	1	2	4	5
-35°	0	0	0	0	0	1	1	1	1	3	4
-37.5°	0	0	0	0	0	0	1	1	1	2	3
-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: P220359 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-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	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	1	2	2	3	3
47.5°	1	1	1	1	2	2	3	3	4	5	5
45°	1	1	2	3	3	4	5	6	7	8	9
42.5°	1	2	3	4	5	7	8	10	12	14	16
40°	3	4	5	6	9	11	14	17	20	23	26
37.5°	4	5	7	10	14	18	22	27	32	38	43
35°	5	8	11	16	21	27	34	43	50	60	69
32.5°	8	12	17	24	31	41	51	66	79	93	106
30°	11	17	24	33	46	60	78	97	118	139	164
27.5°	16	24	33	47	65	85	112	140	177	209	246
25°	21	31	46	65	89	120	159	204	257	316	373
22.5°	27	41	60	85	120	166	220	291	372	453	525
20°	34	51	78	112	159	220	303	404	504	600	685
17.5°	43	66	97	140	204	291	404	522	639	754	857
15°	50	79	118	177	257	372	504	639	777	911	1039
12.5°	60	93	139	209	316	453	600	754	911	1070	1211
10°	69	106	164	246	373	525	685	857	1039	1211	1352
7.5°	75	117	183	281	424	586	761	948	1146	1320	1454
5°	80	125	198	307	461	630	817	1020	1224	1395	1523
2.5°	83	130	207	325	483	658	851	1064	1271	1439	1564
0°	85	132	210	332	491	667	863	1079	1287	1452	1579
-2.5°	83	130	207	325	483	658	851	1064	1271	1439	1564
-5°	80	125	198	307	461	630	817	1020	1224	1395	1523
-7.5°	75	117	183	281	424	586	761	948	1146	1320	1454
-10°	69	106	164	246	373	525	685	857	1039	1211	1352
-12.5°	60	93	139	209	316	453	600	754	911	1070	1211
-15°	50	79	118	177	257	372	504	639	777	911	1039
-17.5°	43	66	97	140	204	291	404	522	639	754	857
-20°	34	51	78	112	159	220	303	404	504	600	685



REPORT NUMBER: P220359 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-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°	27	41	60	85	120	166	220	291	372	453	525
-25°	21	31	46	65	89	120	159	204	257	316	373
-27.5°	16	24	33	47	65	85	112	140	177	209	246
-30°	11	17	24	33	46	60	78	97	118	139	164
-32.5°	8	12	17	24	31	41	51	66	79	93	106
-35°	5	8	11	16	21	27	34	43	50	60	69
-37.5°	4	5	7	10	14	18	22	27	32	38	43
-40°	3	4	5	6	9	11	14	17	20	23	26
-42.5°	1	2	3	4	5	7	8	10	12	14	16
-45°	1	1	2	3	3	4	5	6	7	8	9
-47.5°	1	1	1	1	2	2	3	3	4	5	5
-50°	1	1	1	1	1	1	1	2	2	3	3
-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: P220359 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-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°	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°	1	2	2	2	2	2	1	1	1	1	1
50°	3	3	3	3	3	3	3	3	3	2	2
47.5°	5	6	6	6	6	6	5	5	5	4	3
45°	10	10	10	11	10	10	10	9	8	7	6
42.5°	17	18	19	19	19	18	17	16	14	12	10
40°	29	30	31	32	31	30	29	26	23	20	17
37.5°	47	50	51	52	51	50	47	43	38	32	27
35°	75	80	83	85	83	80	75	69	60	50	43
32.5°	117	125	130	132	130	125	117	106	93	79	66
30°	183	198	207	210	207	198	183	164	139	118	97
27.5°	281	307	325	332	325	307	281	246	209	177	140
25°	424	461	483	491	483	461	424	373	316	257	204
22.5°	586	630	658	667	658	630	586	525	453	372	291
20°	761	817	851	863	851	817	761	685	600	504	404
17.5°	948	1020	1064	1079	1064	1020	948	857	754	639	522
15°	1146	1224	1271	1287	1271	1224	1146	1039	911	777	639
12.5°	1320	1395	1439	1452	1439	1395	1320	1211	1070	911	754
10°	1454	1523	1564	1579	1564	1523	1454	1352	1211	1039	857
7.5°	1551	1622	1662	1675	1662	1622	1551	1454	1320	1146	948
5°	1622	1689	1714	1720	1714	1689	1622	1523	1395	1224	1020
2.5°	1662	1714	1719	1715	1719	1714	1662	1564	1439	1271	1064
0°	1675	1720	1715	1721	1715	1720	1675	1579	1452	1287	1079
-2.5°	1662	1714	1719	1715	1719	1714	1662	1564	1439	1271	1064
-5°	1622	1689	1714	1720	1714	1689	1622	1523	1395	1224	1020
-7.5°	1551	1622	1662	1675	1662	1622	1551	1454	1320	1146	948
-10°	1454	1523	1564	1579	1564	1523	1454	1352	1211	1039	857
-12.5°	1320	1395	1439	1452	1439	1395	1320	1211	1070	911	754
-15°	1146	1224	1271	1287	1271	1224	1146	1039	911	777	639
-17.5°	948	1020	1064	1079	1064	1020	948	857	754	639	522
-20°	761	817	851	863	851	817	761	685	600	504	404



REPORT NUMBER: P220359 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-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°	586	630	658	667	658	630	586	525	453	372	291
-25°	424	461	483	491	483	461	424	373	316	257	204
-27.5°	281	307	325	332	325	307	281	246	209	177	140
-30°	183	198	207	210	207	198	183	164	139	118	97
-32.5°	117	125	130	132	130	125	117	106	93	79	66
-35°	75	80	83	85	83	80	75	69	60	50	43
-37.5°	47	50	51	52	51	50	47	43	38	32	27
-40°	29	30	31	32	31	30	29	26	23	20	17
-42.5°	17	18	19	19	19	18	17	16	14	12	10
-45°	10	10	10	11	10	10	10	9	8	7	6
-47.5°	5	6	6	6	6	6	5	5	5	4	3
-50°	3	3	3	3	3	3	3	3	3	2	2
-52.5°	1	2	2	2	2	2	1	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: P220359 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-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°	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°	1	1	1	1	1	1	1	0	0	0	0
47.5°	3	2	2	1	1	1	1	1	0	0	0
45°	5	4	3	3	2	1	1	1	1	0	0
42.5°	8	7	5	4	3	2	1	1	1	1	0
40°	14	11	9	6	5	4	3	2	1	1	1
37.5°	22	18	14	10	7	5	4	3	2	1	1
35°	34	27	21	16	11	8	5	4	3	1	1
32.5°	51	41	31	24	17	12	8	5	4	2	1
30°	78	60	46	33	24	17	11	7	5	3	2
27.5°	112	85	65	47	33	24	16	10	6	4	3
25°	159	120	89	65	46	31	21	14	9	5	3
22.5°	220	166	120	85	60	41	27	18	11	7	4
20°	303	220	159	112	78	51	34	22	14	8	5
17.5°	404	291	204	140	97	66	43	27	17	10	6
15°	504	372	257	177	118	79	50	32	20	12	7
12.5°	600	453	316	209	139	93	60	38	23	14	8
10°	685	525	373	246	164	106	69	43	26	16	9
7.5°	761	586	424	281	183	117	75	47	29	17	10
5°	817	630	461	307	198	125	80	50	30	18	10
2.5°	851	658	483	325	207	130	83	51	31	19	10
0°	863	667	491	332	210	132	85	52	32	19	11
-2.5°	851	658	483	325	207	130	83	51	31	19	10
-5°	817	630	461	307	198	125	80	50	30	18	10
-7.5°	761	586	424	281	183	117	75	47	29	17	10
-10°	685	525	373	246	164	106	69	43	26	16	9
-12.5°	600	453	316	209	139	93	60	38	23	14	8
-15°	504	372	257	177	118	79	50	32	20	12	7
-17.5°	404	291	204	140	97	66	43	27	17	10	6
-20°	303	220	159	112	78	51	34	22	14	8	5



REPORT NUMBER: P220359 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-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°	220	166	120	85	60	41	27	18	11	7	4
-25°	159	120	89	65	46	31	21	14	9	5	3
-27.5°	112	85	65	47	33	24	16	10	6	4	3
-30°	78	60	46	33	24	17	11	7	5	3	2
-32.5°	51	41	31	24	17	12	8	5	4	2	1
-35°	34	27	21	16	11	8	5	4	3	1	1
-37.5°	22	18	14	10	7	5	4	3	2	1	1
-40°	14	11	9	6	5	4	3	2	1	1	1
-42.5°	8	7	5	4	3	2	1	1	1	1	0
-45°	5	4	3	3	2	1	1	1	1	0	0
-47.5°	3	2	2	1	1	1	1	1	0	0	0
-50°	1	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: P220359 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-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°	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°	2	1	1	0	0	0	0	0	0	0	0
22.5°	2	1	1	1	0	0	0	0	0	0	0
20°	3	1	1	1	0	0	0	0	0	0	0
17.5°	3	2	1	1	0	0	0	0	0	0	0
15°	4	2	1	1	0	0	0	0	0	0	0
12.5°	5	3	1	1	1	0	0	0	0	0	0
10°	5	3	1	1	1	0	0	0	0	0	0
7.5°	5	3	1	1	1	0	0	0	0	0	0
5°	6	3	2	1	1	0	0	0	0	0	0
2.5°	6	3	2	1	1	0	0	0	0	0	0
0°	6	3	2	1	1	0	0	0	0	0	0
-2.5°	6	3	2	1	1	0	0	0	0	0	0
-5°	6	3	2	1	1	0	0	0	0	0	0
-7.5°	5	3	1	1	1	0	0	0	0	0	0
-10°	5	3	1	1	1	0	0	0	0	0	0
-12.5°	5	3	1	1	1	0	0	0	0	0	0
-15°	4	2	1	1	0	0	0	0	0	0	0
-17.5°	3	2	1	1	0	0	0	0	0	0	0
-20°	3	1	1	1	0	0	0	0	0	0	0



REPORT NUMBER: P220359 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-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°	2	1	1	1	0	0	0	0	0	0	0
-25°	2	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: P220359 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-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: P220359 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-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)