

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: P220358 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220358 (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]-LED3097-F-BK-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, RECESSED LENS,
FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

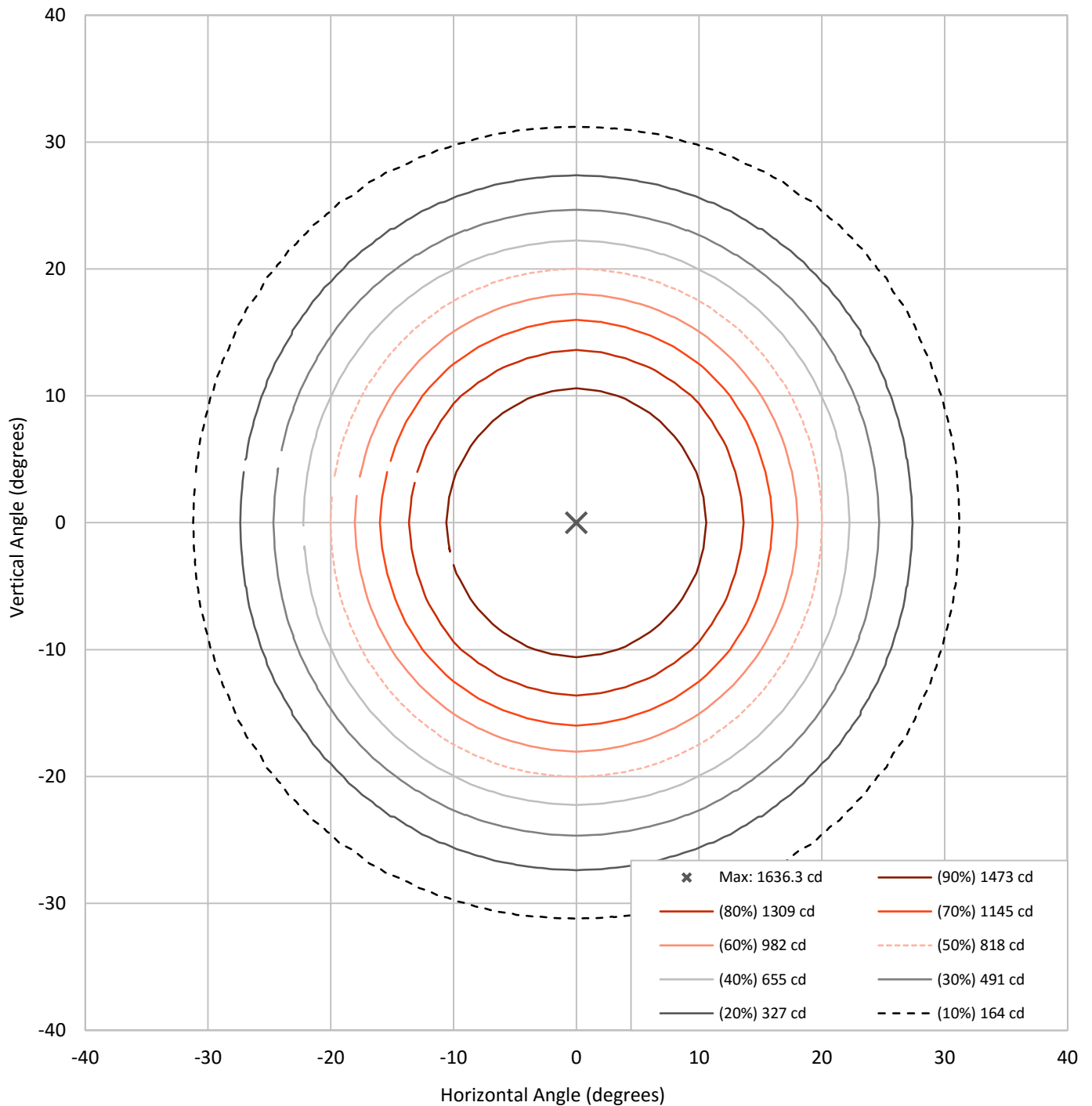
Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	760.3 lumens	Max Intensity:	1636.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	76.0 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	40.1°H x 40.1°V	Field Angle (10%):	62.4°H x 62.4°V
Beam Lumens:	488.1 lumens	Field Lumens:	701.6 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: P220358 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-F-BK-L1-UNV

Iso-Candela Plot





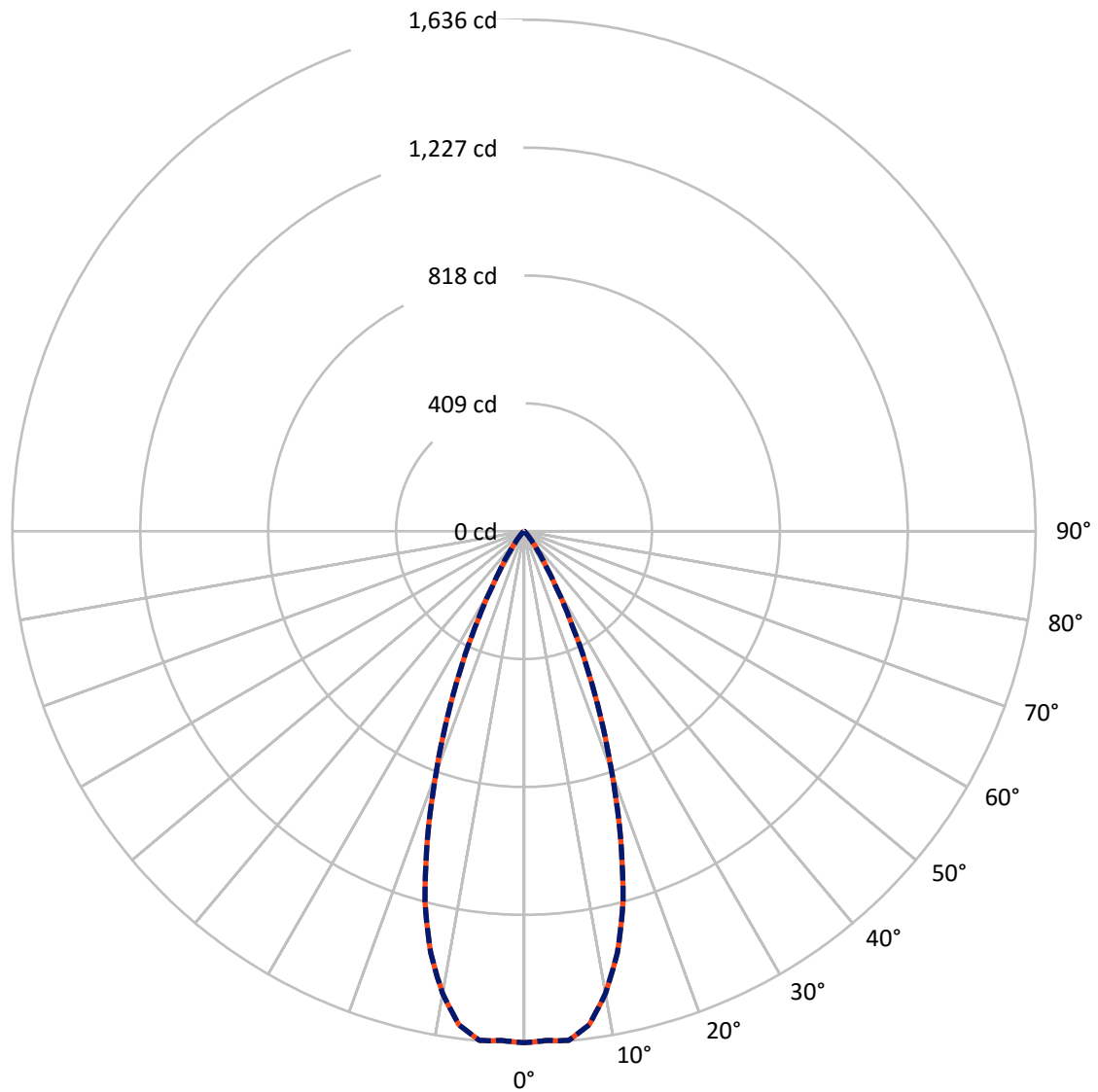
REPORT NUMBER: P220358 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-F-BK-L1-UNV

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	0.0	0.1	0.2	0.4	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	
40		0.0	0.0	0.0	0.2	0.6	1.6	2.6	2.6	1.6	0.6	0.2	0.0	0.0	0.0		
30	0.0	0.0	0.0	0.1	0.6	2.6	7.8	13.4	13.4	7.8	2.6	0.6	0.1	0.0	0.0	0.0	
20		0.0	0.0	0.2	1.4	7.4	21.6	34.0	34.0	21.6	7.4	1.4	0.2	0.0	0.0		
10	0.0	0.0	0.0	0.3	2.2	12.3	33.1	47.1	47.1	33.1	12.3	2.2	0.3	0.0	0.0	0.0	
0		0.0	0.0	0.3	2.2	12.3	33.1	47.1	47.1	33.1	12.3	2.2	0.3	0.0	0.0		
-10	0.0	0.0	0.0	0.3	2.2	12.3	33.1	47.1	47.1	33.1	12.3	2.2	0.3	0.0	0.0	0.0	
-20		0.0	0.0	0.2	1.4	7.4	21.6	34.0	34.0	21.6	7.4	1.4	0.2	0.0	0.0		
-30	0.0	0.0	0.0	0.1	0.6	2.6	7.8	13.4	13.4	7.8	2.6	0.6	0.1	0.0	0.0	0.0	
-40		0.0	0.0	0.0	0.2	0.6	1.6	2.6	2.6	1.6	0.6	0.2	0.0	0.0	0.0		
-50	0.0	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	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	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: P220358 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-F-BK-L1-UNV

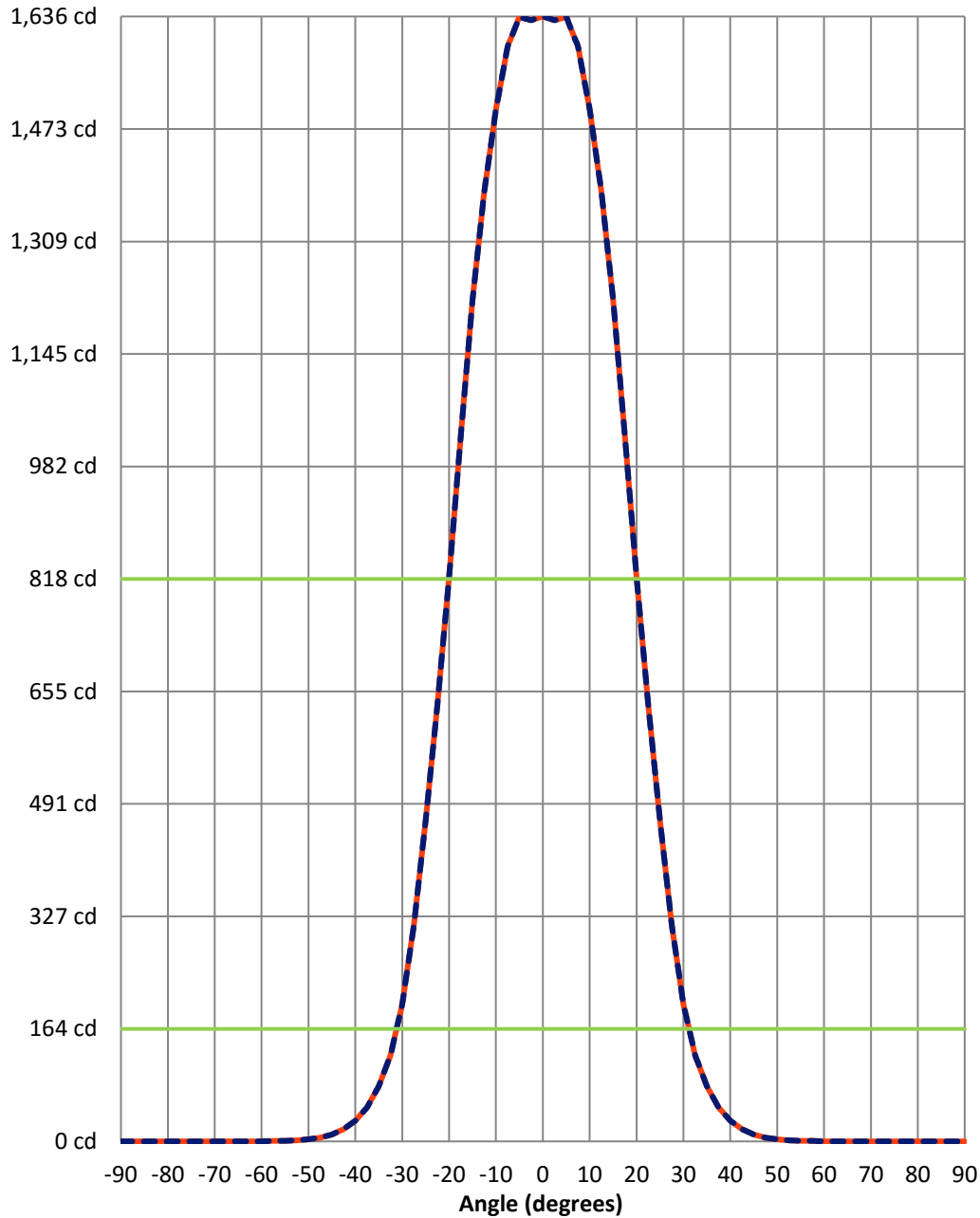
Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

REPORT NUMBER: P220358 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-F-BK-L1-UNV

Luminous Intensity Plot



Beam:
 H Angle: 40.1°
 V Angle: 40.1°
 Lumens: 488.1
 Efficiency: 64.2%

Field:
 H Angle: 62.4°
 V Angle: 62.4°
 Lumens: 701.6
 Efficiency: 92.3%

Spill:
 Lumens: 58.7
 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]-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	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: P220358 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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	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: P220358 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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	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	1
37.5°	0	0	0	0	0	0	1	1	1	1	2
35°	0	0	0	0	0	1	1	1	1	2	4
32.5°	0	0	0	0	0	1	1	1	2	3	5
30°	0	0	0	0	1	1	1	2	3	5	7
27.5°	0	0	0	0	1	1	1	2	4	6	9
25°	0	0	0	0	1	1	2	3	5	8	13
22.5°	0	0	0	1	1	1	2	4	6	10	17
20°	0	0	0	1	1	1	3	5	8	13	21
17.5°	0	0	0	1	1	2	3	5	9	16	26
15°	0	0	0	1	1	2	4	6	11	19	30
12.5°	0	0	1	1	1	2	4	8	13	22	36
10°	0	0	1	1	1	3	5	8	15	25	41
7.5°	0	0	1	1	1	3	5	9	16	27	45
5°	0	0	1	1	1	3	5	10	17	29	47
2.5°	0	0	1	1	1	3	5	10	18	30	49
0°	0	0	1	1	2	3	5	10	18	30	49
-2.5°	0	0	1	1	1	3	5	10	18	30	49
-5°	0	0	1	1	1	3	5	10	17	29	47
-7.5°	0	0	1	1	1	3	5	9	16	27	45
-10°	0	0	1	1	1	3	5	8	15	25	41
-12.5°	0	0	1	1	1	2	4	8	13	22	36
-15°	0	0	0	1	1	2	4	6	11	19	30
-17.5°	0	0	0	1	1	2	3	5	9	16	26
-20°	0	0	0	1	1	1	3	5	8	13	21



REPORT NUMBER: P220358 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	0	0	0	1	1	1	2	4	6	10	17
-25°	0	0	0	0	1	1	2	3	5	8	13
-27.5°	0	0	0	0	1	1	1	2	4	6	9
-30°	0	0	0	0	1	1	1	2	3	5	7
-32.5°	0	0	0	0	0	1	1	1	2	3	5
-35°	0	0	0	0	0	1	1	1	1	2	4
-37.5°	0	0	0	0	0	0	1	1	1	1	2
-40°	0	0	0	0	0	0	0	1	1	1	1
-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: P220358 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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	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	2	3
47.5°	1	1	1	1	2	2	3	3	4	4	5
45°	1	1	2	2	3	4	5	5	6	8	8
42.5°	1	2	3	4	5	6	8	9	11	13	15
40°	2	3	5	6	8	10	13	16	19	22	25
37.5°	4	5	7	9	13	17	21	26	30	36	41
35°	5	8	11	15	20	26	33	41	48	57	65
32.5°	8	11	16	22	29	39	49	62	75	88	101
30°	11	16	23	32	43	57	74	93	112	132	156
27.5°	15	22	32	45	62	81	107	133	168	199	234
25°	20	29	43	62	84	114	152	194	244	300	355
22.5°	26	39	57	81	114	158	209	277	354	431	499
20°	33	49	74	107	152	209	288	384	479	571	652
17.5°	41	62	93	133	194	277	384	497	608	717	815
15°	48	75	112	168	244	354	479	608	739	866	988
12.5°	57	88	132	199	300	431	571	717	866	1018	1151
10°	65	101	156	234	355	499	652	815	988	1151	1285
7.5°	72	112	174	267	403	557	723	901	1089	1255	1382
5°	76	119	188	292	438	599	777	970	1164	1327	1448
2.5°	79	124	197	309	459	625	809	1012	1208	1368	1487
0°	80	125	199	315	467	634	821	1026	1224	1381	1501
-2.5°	79	124	197	309	459	625	809	1012	1208	1368	1487
-5°	76	119	188	292	438	599	777	970	1164	1327	1448
-7.5°	72	112	174	267	403	557	723	901	1089	1255	1382
-10°	65	101	156	234	355	499	652	815	988	1151	1285
-12.5°	57	88	132	199	300	431	571	717	866	1018	1151
-15°	48	75	112	168	244	354	479	608	739	866	988
-17.5°	41	62	93	133	194	277	384	497	608	717	815
-20°	33	49	74	107	152	209	288	384	479	571	652



REPORT NUMBER: P220358 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	26	39	57	81	114	158	209	277	354	431	499
-25°	20	29	43	62	84	114	152	194	244	300	355
-27.5°	15	22	32	45	62	81	107	133	168	199	234
-30°	11	16	23	32	43	57	74	93	112	132	156
-32.5°	8	11	16	22	29	39	49	62	75	88	101
-35°	5	8	11	15	20	26	33	41	48	57	65
-37.5°	4	5	7	9	13	17	21	26	30	36	41
-40°	2	3	5	6	8	10	13	16	19	22	25
-42.5°	1	2	3	4	5	6	8	9	11	13	15
-45°	1	1	2	2	3	4	5	5	6	8	8
-47.5°	1	1	1	1	2	2	3	3	4	4	5
-50°	1	1	1	1	1	1	1	2	2	2	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: P220358 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	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	1	1	2	1	1	1	1	1	1	1
50°	3	3	3	3	3	3	3	3	2	2	2
47.5°	5	5	5	5	5	5	5	5	4	4	3
45°	9	10	10	10	10	10	9	8	8	6	5
42.5°	16	17	18	18	18	17	16	15	13	11	9
40°	27	29	30	30	30	29	27	25	22	19	16
37.5°	45	47	49	49	49	47	45	41	36	30	26
35°	72	76	79	80	79	76	72	65	57	48	41
32.5°	112	119	124	125	124	119	112	101	88	75	62
30°	174	188	197	199	197	188	174	156	132	112	93
27.5°	267	292	309	315	309	292	267	234	199	168	133
25°	403	438	459	467	459	438	403	355	300	244	194
22.5°	557	599	625	634	625	599	557	499	431	354	277
20°	723	777	809	821	809	777	723	652	571	479	384
17.5°	901	970	1012	1026	1012	970	901	815	717	608	497
15°	1089	1164	1208	1224	1208	1164	1089	988	866	739	608
12.5°	1255	1327	1368	1381	1368	1327	1255	1151	1018	866	717
10°	1382	1448	1487	1501	1487	1448	1382	1285	1151	988	815
7.5°	1475	1542	1581	1593	1581	1542	1475	1382	1255	1089	901
5°	1542	1606	1630	1636	1630	1606	1542	1448	1327	1164	970
2.5°	1581	1630	1635	1631	1635	1630	1581	1487	1368	1208	1012
0°	1593	1636	1631	1636	1631	1636	1593	1501	1381	1224	1026
-2.5°	1581	1630	1635	1631	1635	1630	1581	1487	1368	1208	1012
-5°	1542	1606	1630	1636	1630	1606	1542	1448	1327	1164	970
-7.5°	1475	1542	1581	1593	1581	1542	1475	1382	1255	1089	901
-10°	1382	1448	1487	1501	1487	1448	1382	1285	1151	988	815
-12.5°	1255	1327	1368	1381	1368	1327	1255	1151	1018	866	717
-15°	1089	1164	1208	1224	1208	1164	1089	988	866	739	608
-17.5°	901	970	1012	1026	1012	970	901	815	717	608	497
-20°	723	777	809	821	809	777	723	652	571	479	384



REPORT NUMBER: P220358 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	557	599	625	634	625	599	557	499	431	354	277
-25°	403	438	459	467	459	438	403	355	300	244	194
-27.5°	267	292	309	315	309	292	267	234	199	168	133
-30°	174	188	197	199	197	188	174	156	132	112	93
-32.5°	112	119	124	125	124	119	112	101	88	75	62
-35°	72	76	79	80	79	76	72	65	57	48	41
-37.5°	45	47	49	49	49	47	45	41	36	30	26
-40°	27	29	30	30	30	29	27	25	22	19	16
-42.5°	16	17	18	18	18	17	16	15	13	11	9
-45°	9	10	10	10	10	10	9	8	8	6	5
-47.5°	5	5	5	5	5	5	5	5	4	4	3
-50°	3	3	3	3	3	3	3	3	2	2	2
-52.5°	1	1	1	2	1	1	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: P220358 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	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	2	2	1	1	1	1	0	0
42.5°	8	6	5	4	3	2	1	1	1	1	0
40°	13	10	8	6	5	3	2	1	1	1	1
37.5°	21	17	13	9	7	5	4	2	1	1	1
35°	33	26	20	15	11	8	5	4	2	1	1
32.5°	49	39	29	22	16	11	8	5	3	2	1
30°	74	57	43	32	23	16	11	7	5	3	2
27.5°	107	81	62	45	32	22	15	9	6	4	2
25°	152	114	84	62	43	29	20	13	8	5	3
22.5°	209	158	114	81	57	39	26	17	10	6	4
20°	288	209	152	107	74	49	33	21	13	8	5
17.5°	384	277	194	133	93	62	41	26	16	9	5
15°	479	354	244	168	112	75	48	30	19	11	6
12.5°	571	431	300	199	132	88	57	36	22	13	8
10°	652	499	355	234	156	101	65	41	25	15	8
7.5°	723	557	403	267	174	112	72	45	27	16	9
5°	777	599	438	292	188	119	76	47	29	17	10
2.5°	809	625	459	309	197	124	79	49	30	18	10
0°	821	634	467	315	199	125	80	49	30	18	10
-2.5°	809	625	459	309	197	124	79	49	30	18	10
-5°	777	599	438	292	188	119	76	47	29	17	10
-7.5°	723	557	403	267	174	112	72	45	27	16	9
-10°	652	499	355	234	156	101	65	41	25	15	8
-12.5°	571	431	300	199	132	88	57	36	22	13	8
-15°	479	354	244	168	112	75	48	30	19	11	6
-17.5°	384	277	194	133	93	62	41	26	16	9	5
-20°	288	209	152	107	74	49	33	21	13	8	5



REPORT NUMBER: P220358 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	209	158	114	81	57	39	26	17	10	6	4
-25°	152	114	84	62	43	29	20	13	8	5	3
-27.5°	107	81	62	45	32	22	15	9	6	4	2
-30°	74	57	43	32	23	16	11	7	5	3	2
-32.5°	49	39	29	22	16	11	8	5	3	2	1
-35°	33	26	20	15	11	8	5	4	2	1	1
-37.5°	21	17	13	9	7	5	4	2	1	1	1
-40°	13	10	8	6	5	3	2	1	1	1	1
-42.5°	8	6	5	4	3	2	1	1	1	1	0
-45°	5	4	3	2	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: P220358 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	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°	4	2	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°	5	3	1	1	1	0	0	0	0	0	0
2.5°	5	3	1	1	1	0	0	0	0	0	0
0°	5	3	2	1	1	0	0	0	0	0	0
-2.5°	5	3	1	1	1	0	0	0	0	0	0
-5°	5	3	1	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°	4	2	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: P220358 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	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: P220358 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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: P220358 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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)