

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: P220340 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-S-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220340 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29413)
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]-LED5080-S-BK-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, RECESSED LENS, SPOT OPTIC, BLACK HOUSING.
Light Source: (1) 5000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

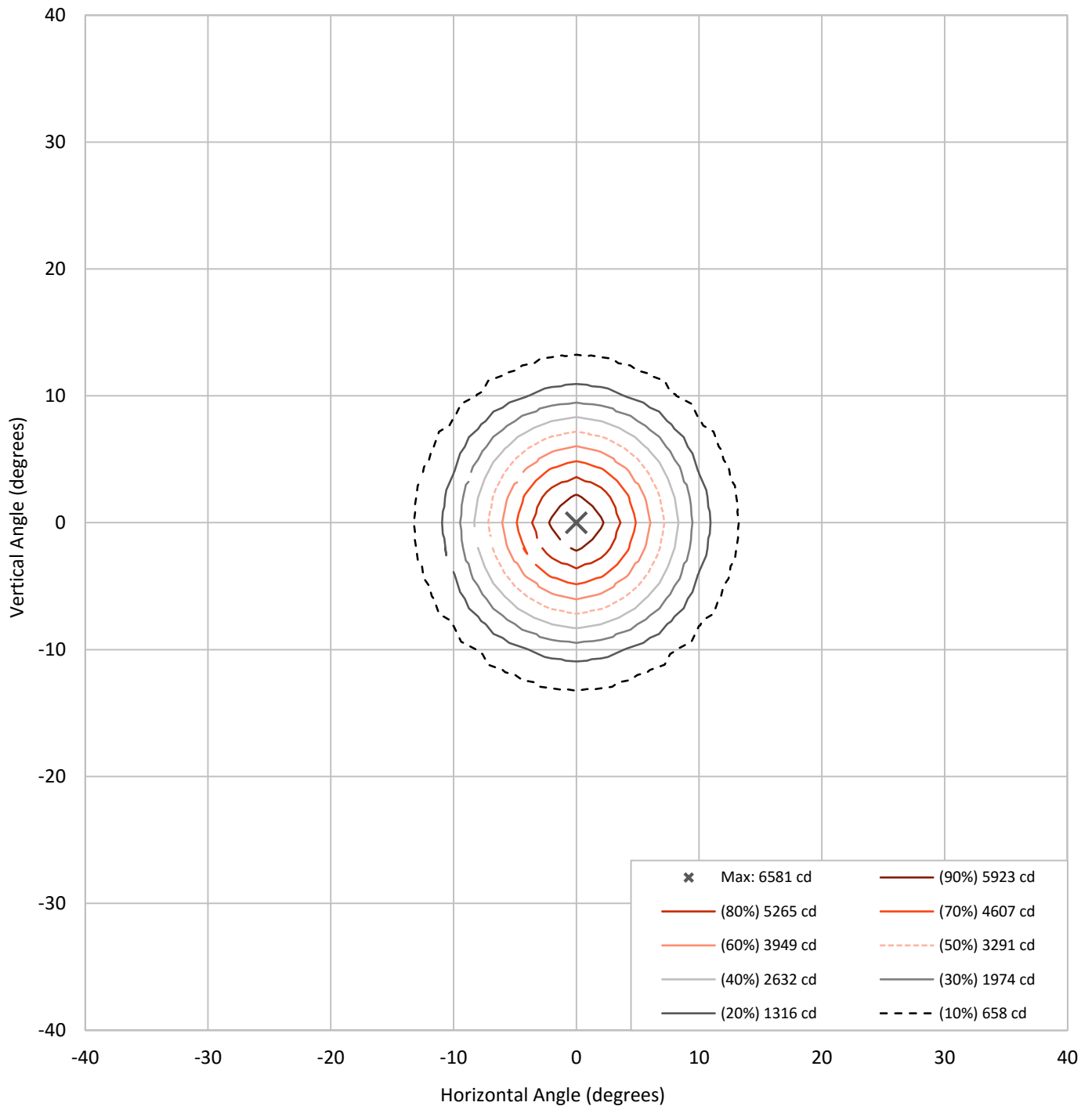
Summary

Lumens per Lamp:	N/A	NEMA Type:	2H x 2V
Luminaire Lumens:	514.7 lumens	Max Intensity:	6581 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	51.5 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	14.3°H x 14.3°V	Field Angle (10%):	25.9°H x 25.9°V
Beam Lumens:	209.8 lumens	Field Lumens:	408.5 lumens
Beam Efficiency:	40.8%	Field Efficiency:	79.4%
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: P220340 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-S-BK-L1-UNV

Iso-Candela Plot





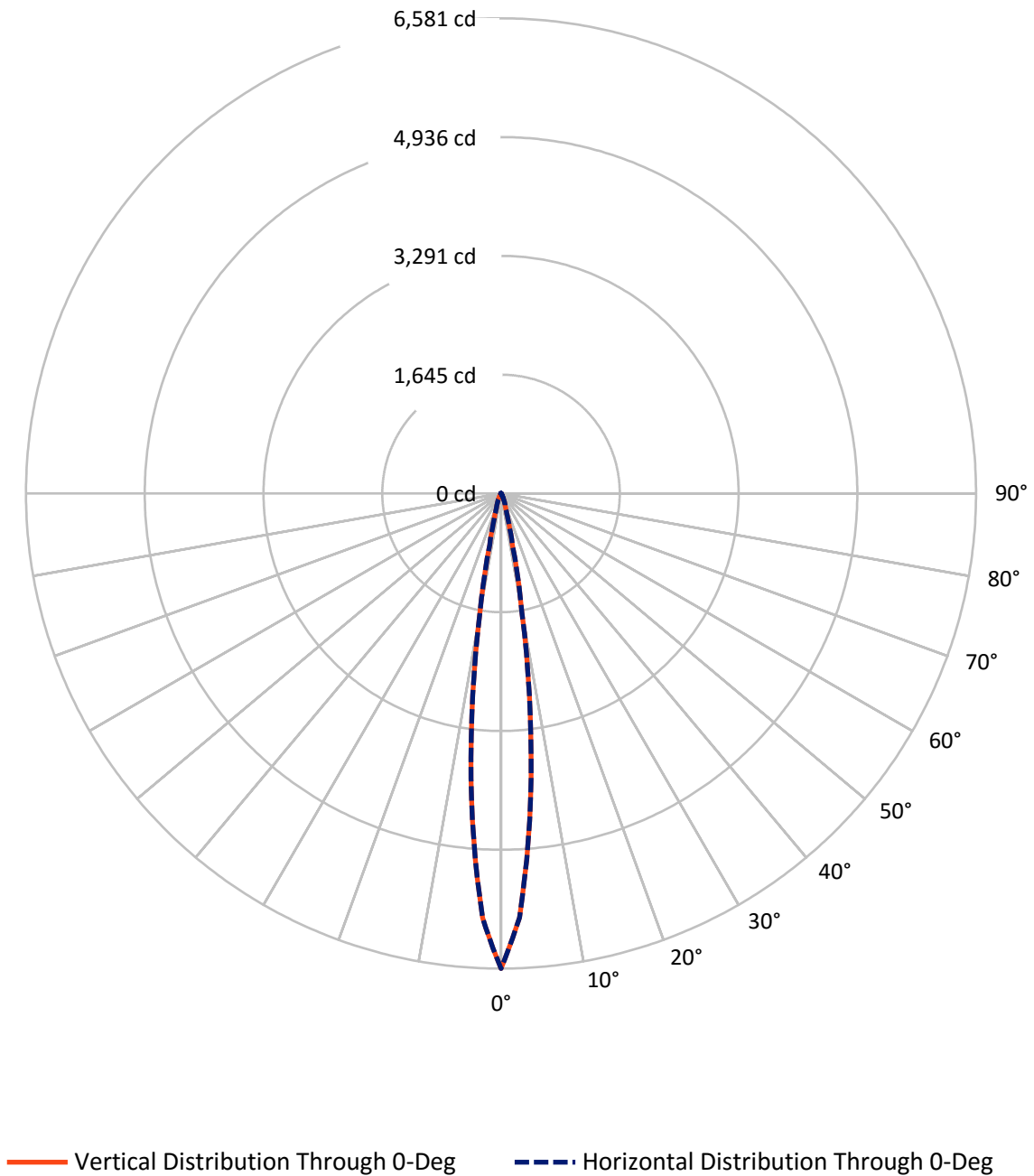
REPORT NUMBER: P220340 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-S-BK-L1-UNV

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	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
40		0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.2	0.1	0.1	0.0	0.0	0.0		
30	0.0	0.0	0.0	0.0	0.1	0.3	1.1	2.1	2.1	1.1	0.3	0.1	0.0	0.0	0.0	0.0	
20		0.0	0.0	0.1	0.2	1.0	4.2	12.5	12.5	4.2	1.0	0.2	0.1	0.0	0.0		
10	0.0	0.0	0.0	0.1	0.3	2.0	12.2	91.5	91.5	12.2	2.0	0.3	0.1	0.0	0.0	0.0	
0		0.0	0.0	0.1	0.3	2.0	12.2	91.5	91.5	12.2	2.0	0.3	0.1	0.0	0.0		
-10	0.0	0.0	0.0	0.1	0.2	1.0	4.2	12.5	12.5	4.2	1.0	0.2	0.1	0.0	0.0	0.0	
-20		0.0	0.0	0.0	0.1	0.3	1.1	2.1	2.1	1.1	0.3	0.1	0.0	0.0	0.0		
-30	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0	
-40		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	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		
-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	

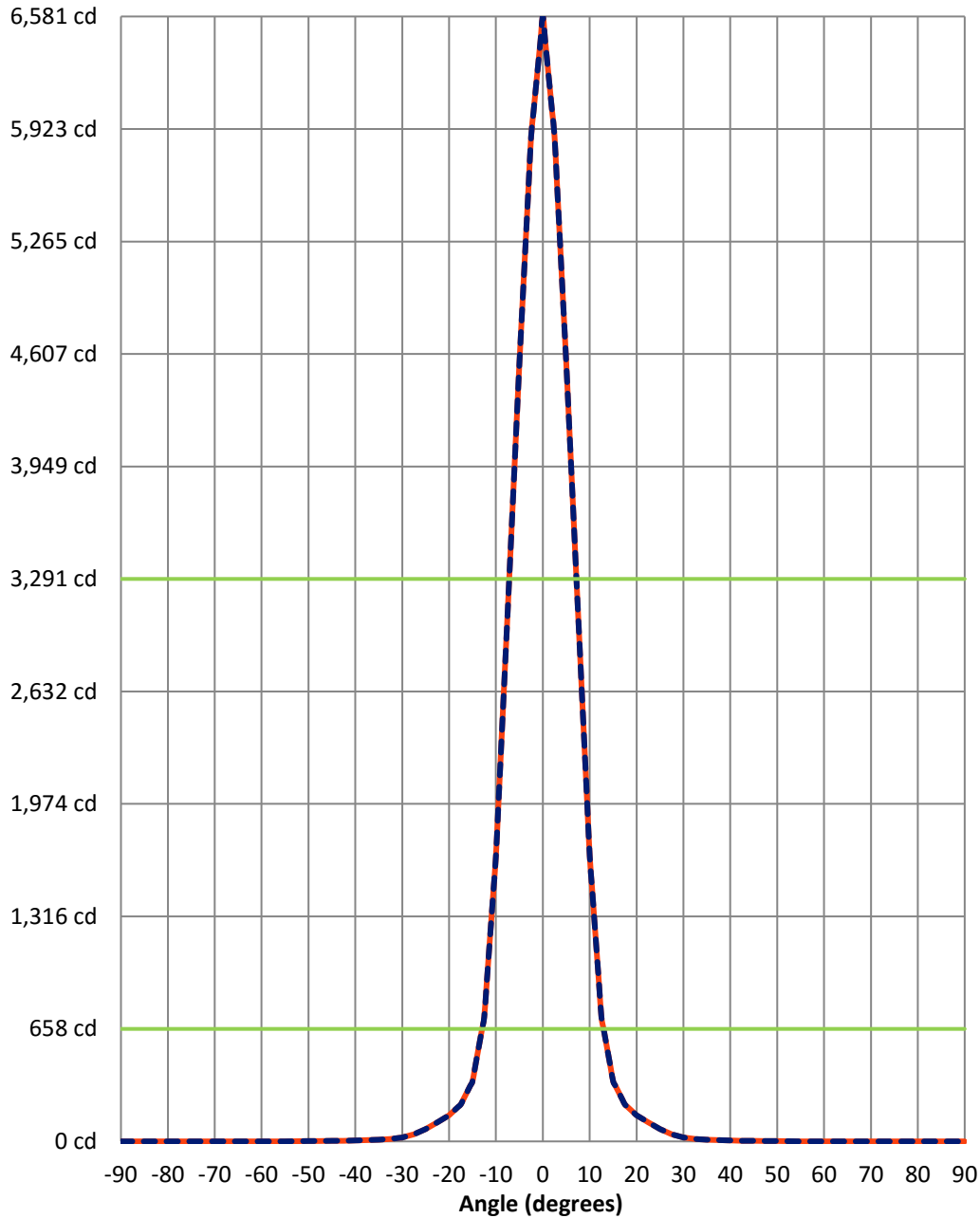
REPORT NUMBER: P220340 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-S-BK-L1-UNV

Luminous Intensity Polar Plot



REPORT NUMBER: P220340 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-S-BK-L1-UNV

Luminous Intensity Plot



Beam:
 H Angle: 14.3°
 V Angle: 14.3°
 Lumens: 209.8
 Efficiency: 40.8%

Field:
 H Angle: 25.9°
 V Angle: 25.9°
 Lumens: 408.5
 Efficiency: 79.4%

Spill:
 Lumens: 106.2
 Efficiency: 20.6%

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



REPORT NUMBER: P220340 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-S-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: P220340 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-S-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: P220340 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-S-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	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	1
37.5°	0	0	0	0	0	0	0	0	0	1	2
35°	0	0	0	0	0	0	0	0	1	2	2
32.5°	0	0	0	0	0	0	0	1	2	2	2
30°	0	0	0	0	0	0	0	1	2	2	3
27.5°	0	0	0	0	0	0	1	2	2	2	3
25°	0	0	0	0	0	0	1	2	2	3	3
22.5°	0	0	0	0	0	1	2	2	2	3	3
20°	0	0	0	0	0	1	2	2	3	3	4
17.5°	0	0	0	0	0	1	2	2	3	3	5
15°	0	0	0	0	0	1	2	2	3	3	6
12.5°	0	0	0	0	1	2	2	3	3	4	6
10°	0	0	0	0	1	2	2	3	3	5	7
7.5°	0	0	0	0	1	2	2	3	3	5	7
5°	0	0	0	0	1	2	2	3	3	5	7
2.5°	0	0	0	0	1	2	2	3	3	5	8
0°	0	0	0	0	1	2	2	3	3	6	8
-2.5°	0	0	0	0	1	2	2	3	3	5	8
-5°	0	0	0	0	1	2	2	3	3	5	7
-7.5°	0	0	0	0	1	2	2	3	3	5	7
-10°	0	0	0	0	1	2	2	3	3	5	7
-12.5°	0	0	0	0	1	2	2	3	3	4	6
-15°	0	0	0	0	0	1	2	2	3	3	6
-17.5°	0	0	0	0	0	1	2	2	3	3	5
-20°	0	0	0	0	0	1	2	2	3	3	4



REPORT NUMBER: P220340 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-S-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	0	0	1	2	2	2	3	3
-25°	0	0	0	0	0	0	1	2	2	3	3
-27.5°	0	0	0	0	0	0	1	2	2	2	3
-30°	0	0	0	0	0	0	0	1	2	2	3
-32.5°	0	0	0	0	0	0	0	1	2	2	2
-35°	0	0	0	0	0	0	0	0	1	2	2
-37.5°	0	0	0	0	0	0	0	0	0	1	2
-40°	0	0	0	0	0	0	0	0	0	0	1
-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: P220340 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-S-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	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	1	1
50°	0	0	0	0	0	1	1	1	1	2	2
47.5°	0	0	0	1	1	2	2	2	2	2	2
45°	0	1	1	2	2	2	2	2	2	3	3
42.5°	1	2	2	2	2	2	3	3	3	3	3
40°	2	2	2	2	3	3	3	3	3	4	5
37.5°	2	2	3	3	3	3	4	5	6	6	7
35°	2	3	3	3	4	5	6	7	7	8	9
32.5°	3	3	3	4	5	6	8	9	9	11	12
30°	3	3	4	6	7	8	9	11	13	15	18
27.5°	3	4	6	7	8	10	12	15	19	23	29
25°	4	5	7	8	10	13	17	22	31	39	50
22.5°	5	6	8	10	13	18	25	36	50	65	80
20°	6	8	9	12	17	25	38	56	75	96	115
17.5°	7	9	11	15	22	36	56	79	105	130	152
15°	7	9	13	19	31	50	75	105	135	167	204
12.5°	8	11	15	23	39	65	96	130	167	213	300
10°	9	12	18	29	50	80	115	152	204	300	439
7.5°	9	13	20	35	59	93	131	178	258	396	733
5°	10	14	22	38	66	103	143	199	309	535	1147
2.5°	10	14	23	41	71	109	150	212	341	668	1530
0°	10	14	23	42	72	111	153	216	352	728	1672
-2.5°	10	14	23	41	71	109	150	212	341	668	1530
-5°	10	14	22	38	66	103	143	199	309	535	1147
-7.5°	9	13	20	35	59	93	131	178	258	396	733
-10°	9	12	18	29	50	80	115	152	204	300	439
-12.5°	8	11	15	23	39	65	96	130	167	213	300
-15°	7	9	13	19	31	50	75	105	135	167	204
-17.5°	7	9	11	15	22	36	56	79	105	130	152
-20°	6	8	9	12	17	25	38	56	75	96	115



REPORT NUMBER: P220340 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-S-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	5	6	8	10	13	18	25	36	50	65	80
-25°	4	5	7	8	10	13	17	22	31	39	50
-27.5°	3	4	6	7	8	10	12	15	19	23	29
-30°	3	3	4	6	7	8	9	11	13	15	18
-32.5°	3	3	3	4	5	6	8	9	9	11	12
-35°	2	3	3	3	4	5	6	7	7	8	9
-37.5°	2	2	3	3	3	3	4	5	6	6	7
-40°	2	2	2	2	3	3	3	3	3	4	5
-42.5°	1	2	2	2	2	2	3	3	3	3	3
-45°	0	1	1	2	2	2	2	2	2	3	3
-47.5°	0	0	0	1	1	2	2	2	2	2	2
-50°	0	0	0	0	0	1	1	1	1	2	2
-52.5°	0	0	0	0	0	0	0	0	0	1	1
-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: P220340 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-S-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°	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°	1	1	1	1	1	1	1	1	1	0	0
50°	2	2	2	2	2	2	2	2	2	1	1
47.5°	2	2	2	2	2	2	2	2	2	2	2
45°	3	3	3	3	3	3	3	3	3	2	2
42.5°	3	3	3	3	3	3	3	3	3	3	3
40°	5	5	5	6	5	5	5	5	4	3	3
37.5°	7	7	8	8	8	7	7	7	6	6	5
35°	9	10	10	10	10	10	9	9	8	7	7
32.5°	13	14	14	14	14	14	13	12	11	9	9
30°	20	22	23	23	23	22	20	18	15	13	11
27.5°	35	38	41	42	41	38	35	29	23	19	15
25°	59	66	71	72	71	66	59	50	39	31	22
22.5°	93	103	109	111	109	103	93	80	65	50	36
20°	131	143	150	153	150	143	131	115	96	75	56
17.5°	178	199	212	216	212	199	178	152	130	105	79
15°	258	309	341	352	341	309	258	204	167	135	105
12.5°	396	535	668	728	668	535	396	300	213	167	130
10°	733	1147	1530	1672	1530	1147	733	439	300	204	152
7.5°	1397	2211	2858	3099	2858	2211	1397	733	396	258	178
5°	2211	3359	4218	4553	4218	3359	2211	1147	535	309	199
2.5°	2858	4218	5368	5880	5368	4218	2858	1530	668	341	212
0°	3099	4553	5880	6581	5880	4553	3099	1672	728	352	216
-2.5°	2858	4218	5368	5880	5368	4218	2858	1530	668	341	212
-5°	2211	3359	4218	4553	4218	3359	2211	1147	535	309	199
-7.5°	1397	2211	2858	3099	2858	2211	1397	733	396	258	178
-10°	733	1147	1530	1672	1530	1147	733	439	300	204	152
-12.5°	396	535	668	728	668	535	396	300	213	167	130
-15°	258	309	341	352	341	309	258	204	167	135	105
-17.5°	178	199	212	216	212	199	178	152	130	105	79
-20°	131	143	150	153	150	143	131	115	96	75	56



REPORT NUMBER: P220340 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-S-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°	93	103	109	111	109	103	93	80	65	50	36
-25°	59	66	71	72	71	66	59	50	39	31	22
-27.5°	35	38	41	42	41	38	35	29	23	19	15
-30°	20	22	23	23	23	22	20	18	15	13	11
-32.5°	13	14	14	14	14	14	13	12	11	9	9
-35°	9	10	10	10	10	10	9	9	8	7	7
-37.5°	7	7	8	8	8	7	7	7	6	6	5
-40°	5	5	5	6	5	5	5	5	4	3	3
-42.5°	3	3	3	3	3	3	3	3	3	3	3
-45°	3	3	3	3	3	3	3	3	3	2	2
-47.5°	2	2	2	2	2	2	2	2	2	2	2
-50°	2	2	2	2	2	2	2	2	2	1	1
-52.5°	1	1	1	1	1	1	1	1	1	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: P220340 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-S-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°	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°	1	1	0	0	0	0	0	0	0	0	0
47.5°	2	2	1	1	0	0	0	0	0	0	0
45°	2	2	2	2	1	1	0	0	0	0	0
42.5°	3	2	2	2	2	2	1	0	0	0	0
40°	3	3	3	2	2	2	2	1	0	0	0
37.5°	4	3	3	3	3	2	2	2	1	0	0
35°	6	5	4	3	3	3	2	2	2	1	0
32.5°	8	6	5	4	3	3	3	2	2	2	1
30°	9	8	7	6	4	3	3	3	2	2	1
27.5°	12	10	8	7	6	4	3	3	2	2	2
25°	17	13	10	8	7	5	4	3	3	2	2
22.5°	25	18	13	10	8	6	5	3	3	2	2
20°	38	25	17	12	9	8	6	4	3	3	2
17.5°	56	36	22	15	11	9	7	5	3	3	2
15°	75	50	31	19	13	9	7	6	3	3	2
12.5°	96	65	39	23	15	11	8	6	4	3	3
10°	115	80	50	29	18	12	9	7	5	3	3
7.5°	131	93	59	35	20	13	9	7	5	3	3
5°	143	103	66	38	22	14	10	7	5	3	3
2.5°	150	109	71	41	23	14	10	8	5	3	3
0°	153	111	72	42	23	14	10	8	6	3	3
-2.5°	150	109	71	41	23	14	10	8	5	3	3
-5°	143	103	66	38	22	14	10	7	5	3	3
-7.5°	131	93	59	35	20	13	9	7	5	3	3
-10°	115	80	50	29	18	12	9	7	5	3	3
-12.5°	96	65	39	23	15	11	8	6	4	3	3
-15°	75	50	31	19	13	9	7	6	3	3	2
-17.5°	56	36	22	15	11	9	7	5	3	3	2
-20°	38	25	17	12	9	8	6	4	3	3	2



REPORT NUMBER: P220340 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-S-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	25	18	13	10	8	6	5	3	3	2	2
-25°	17	13	10	8	7	5	4	3	3	2	2
-27.5°	12	10	8	7	6	4	3	3	2	2	2
-30°	9	8	7	6	4	3	3	3	2	2	1
-32.5°	8	6	5	4	3	3	3	2	2	2	1
-35°	6	5	4	3	3	3	2	2	2	1	0
-37.5°	4	3	3	3	3	2	2	2	1	0	0
-40°	3	3	3	2	2	2	2	1	0	0	0
-42.5°	3	2	2	2	2	2	1	0	0	0	0
-45°	2	2	2	2	1	1	0	0	0	0	0
-47.5°	2	2	1	1	0	0	0	0	0	0	0
-50°	1	1	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: P220340 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-S-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°	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°	1	0	0	0	0	0	0	0	0	0	0
25°	1	0	0	0	0	0	0	0	0	0	0
22.5°	2	1	0	0	0	0	0	0	0	0	0
20°	2	1	0	0	0	0	0	0	0	0	0
17.5°	2	1	0	0	0	0	0	0	0	0	0
15°	2	1	0	0	0	0	0	0	0	0	0
12.5°	2	2	1	0	0	0	0	0	0	0	0
10°	2	2	1	0	0	0	0	0	0	0	0
7.5°	2	2	1	0	0	0	0	0	0	0	0
5°	2	2	1	0	0	0	0	0	0	0	0
2.5°	2	2	1	0	0	0	0	0	0	0	0
0°	2	2	1	0	0	0	0	0	0	0	0
-2.5°	2	2	1	0	0	0	0	0	0	0	0
-5°	2	2	1	0	0	0	0	0	0	0	0
-7.5°	2	2	1	0	0	0	0	0	0	0	0
-10°	2	2	1	0	0	0	0	0	0	0	0
-12.5°	2	2	1	0	0	0	0	0	0	0	0
-15°	2	1	0	0	0	0	0	0	0	0	0
-17.5°	2	1	0	0	0	0	0	0	0	0	0
-20°	2	1	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220340 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-S-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	0	0	0	0	0	0	0	0	0
-25°	1	0	0	0	0	0	0	0	0	0	0
-27.5°	1	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: P220340 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-S-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: P220340 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-S-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)