

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: P220404 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220404 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29421)
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-LED5080-S-BK-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH 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:	499.1 lumens	Max Intensity:	6601.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	49.9 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	14°H x 14°V	Field Angle (10%):	24.9°H x 24.9°V
Beam Lumens:	205.7 lumens	Field Lumens:	383.4 lumens
Beam Efficiency:	41.2%	Field Efficiency:	76.8%

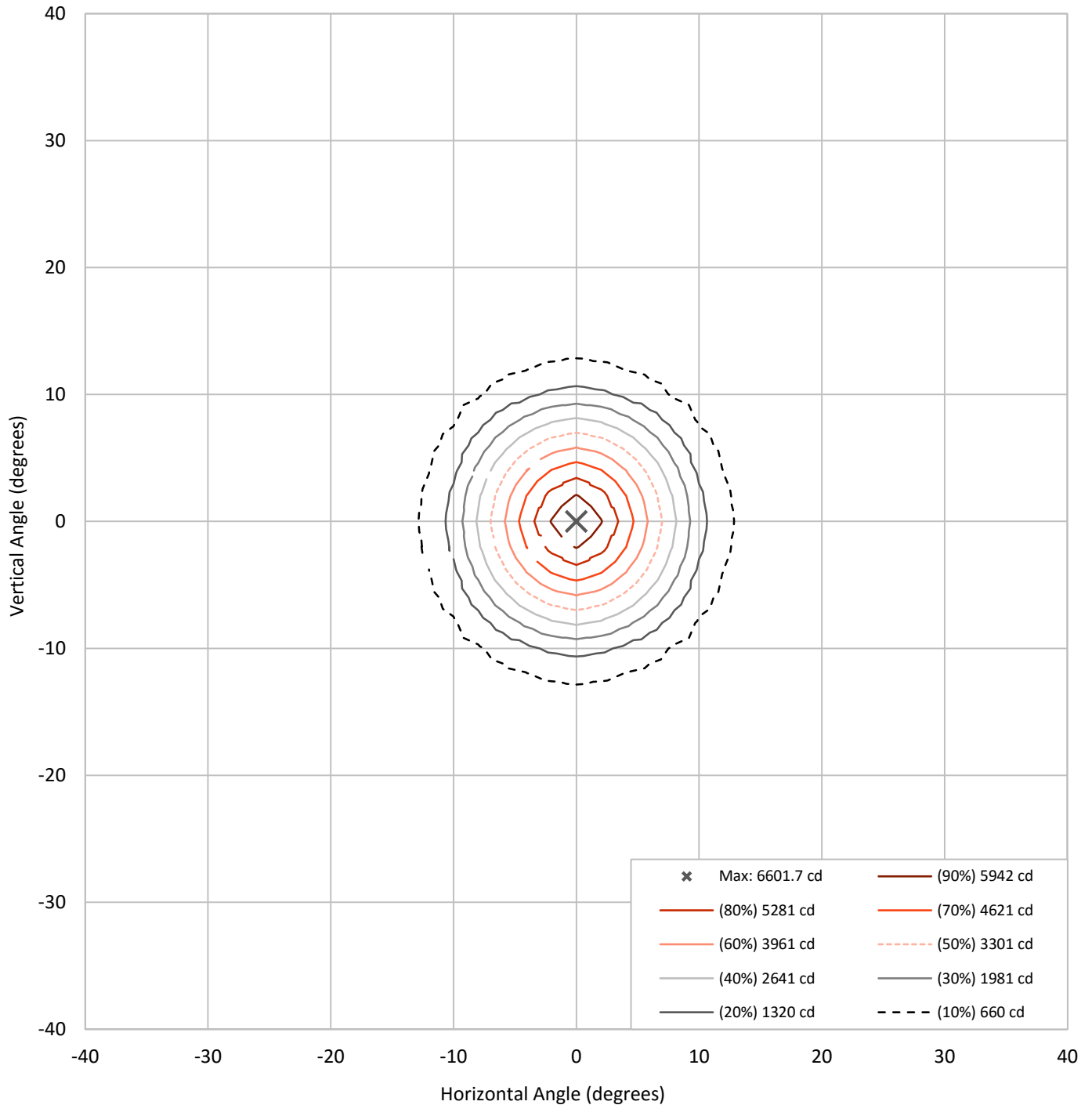
Input Watts (W): 10
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P220404 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED5080-S-BK-L1-UNV

Iso-Candela Plot





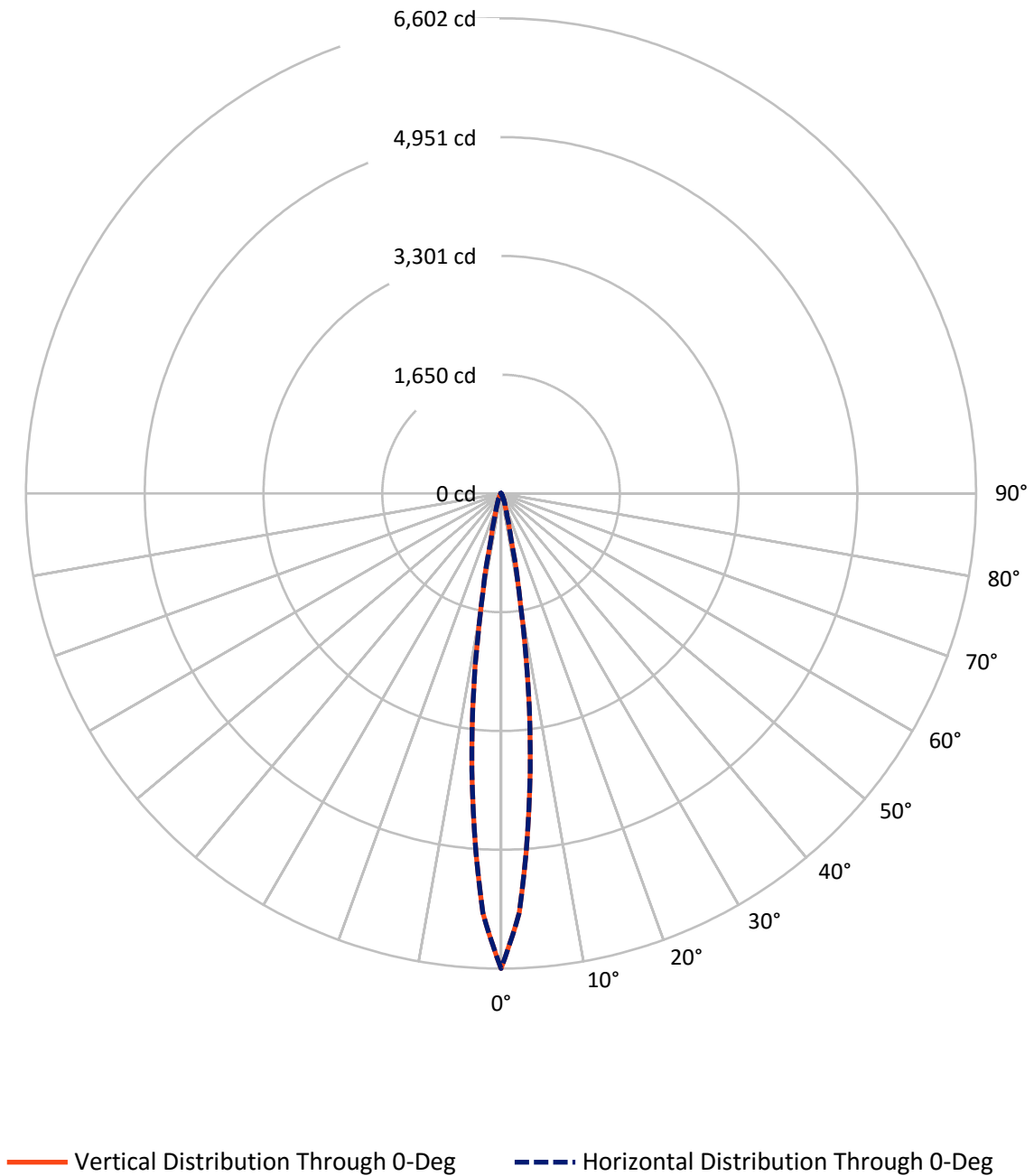
REPORT NUMBER: P220404 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED5080-S-BK-L1-UNV

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	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0		
50	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	
40		0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.4	0.3	0.2	0.1	0.1	0.0	0.0		
30	0.0	0.0	0.0	0.1	0.2	0.4	1.1	2.1	2.1	1.1	0.4	0.2	0.1	0.0	0.0	0.0	
20		0.0	0.0	0.1	0.2	1.0	4.1	11.4	11.4	4.1	1.0	0.2	0.1	0.0	0.0		
10	0.0	0.0	0.0	0.1	0.3	1.9	11.1	88.6	88.6	11.1	1.9	0.3	0.1	0.0	0.0	0.0	
0		0.0	0.0	0.1	0.3	1.9	11.1	88.6	88.6	11.1	1.9	0.3	0.1	0.0	0.0		
-10	0.0	0.0	0.0	0.1	0.2	1.0	4.1	11.4	11.4	4.1	1.0	0.2	0.1	0.0	0.0	0.0	
-20		0.0	0.0	0.1	0.2	0.4	1.1	2.1	2.1	1.1	0.4	0.2	0.1	0.0	0.0		
-30	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.4	0.3	0.2	0.1	0.1	0.0	0.0	0.0	
-40		0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0		
-50	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	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	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		
-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	

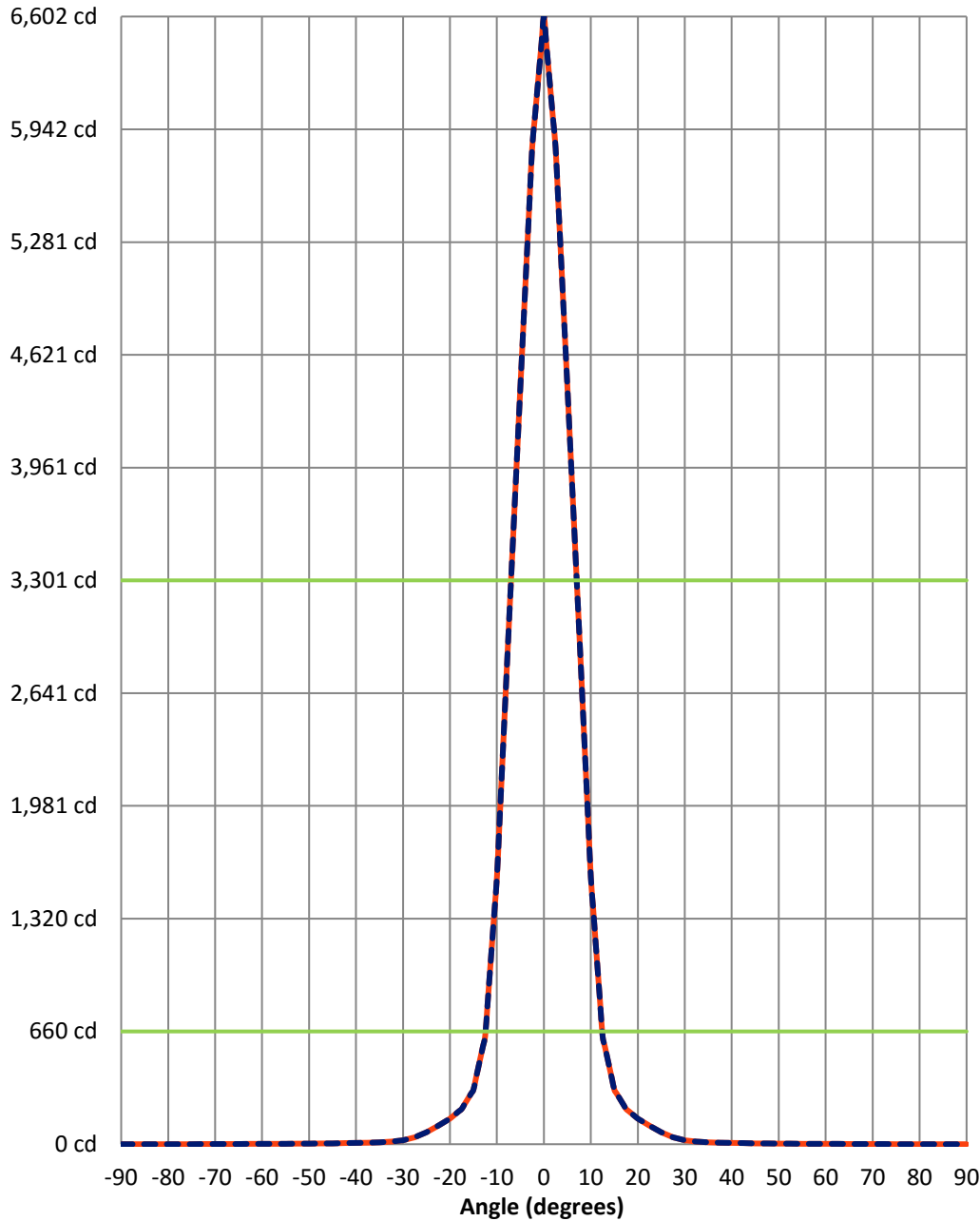
REPORT NUMBER: P220404 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED5080-S-BK-L1-UNV

Luminous Intensity Polar Plot



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CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED5080-S-BK-L1-UNV

Luminous Intensity Plot



Beam:
H Angle: 14°
V Angle: 14°
Lumens: 205.7
Efficiency: 41.2%

Field:
H Angle: 24.9°
V Angle: 24.9°
Lumens: 383.4
Efficiency: 76.8%

Spill:
Lumens: 115.7
Efficiency: 23.2%

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



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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	1
45°	0	0	0	0	0	0	0	0	0	0	1
42.5°	0	0	0	0	0	0	0	0	0	1	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	1	1	1
32.5°	0	0	0	0	0	0	0	0	1	1	1
30°	0	0	0	0	0	0	0	0	1	1	1
27.5°	0	0	0	0	0	0	0	0	1	1	1
25°	0	0	0	0	0	0	0	0	1	1	1
22.5°	0	0	0	0	0	0	0	0	1	1	1
20°	0	0	0	0	0	0	0	1	1	1	1
17.5°	0	0	0	0	0	0	0	1	1	1	1
15°	0	0	0	0	0	0	0	1	1	1	1
12.5°	0	0	0	0	0	0	0	1	1	1	1
10°	0	0	0	0	0	0	0	1	1	1	1
7.5°	0	0	0	0	0	0	0	1	1	1	1
5°	0	0	0	0	0	0	0	1	1	1	1
2.5°	0	0	0	0	0	0	0	1	1	1	1
0°	0	0	0	0	0	0	0	1	1	1	1
-2.5°	0	0	0	0	0	0	0	1	1	1	1
-5°	0	0	0	0	0	0	0	1	1	1	1
-7.5°	0	0	0	0	0	0	0	1	1	1	1
-10°	0	0	0	0	0	0	0	1	1	1	1
-12.5°	0	0	0	0	0	0	0	1	1	1	1
-15°	0	0	0	0	0	0	0	1	1	1	1
-17.5°	0	0	0	0	0	0	0	1	1	1	1
-20°	0	0	0	0	0	0	0	1	1	1	1



REPORT NUMBER: P220404 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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	1	1	1
-25°	0	0	0	0	0	0	0	0	1	1	1
-27.5°	0	0	0	0	0	0	0	0	1	1	1
-30°	0	0	0	0	0	0	0	0	1	1	1
-32.5°	0	0	0	0	0	0	0	0	1	1	1
-35°	0	0	0	0	0	0	0	0	1	1	1
-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	1	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: P220404 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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	1	1	1
65°	0	0	0	0	0	0	1	1	1	1	1
62.5°	0	0	0	0	1	1	1	1	1	1	1
60°	0	0	0	1	1	1	1	1	1	1	1
57.5°	0	0	1	1	1	1	1	1	1	1	1
55°	0	1	1	1	1	1	1	1	1	2	2
52.5°	1	1	1	1	1	1	1	1	2	2	2
50°	1	1	1	1	1	1	1	2	2	2	2
47.5°	1	1	1	1	1	1	2	2	2	2	2
45°	1	1	1	1	1	2	2	2	2	2	2
42.5°	1	1	1	1	2	2	2	2	2	2	3
40°	1	1	1	2	2	2	2	2	2	3	3
37.5°	1	1	1	2	2	2	2	2	3	3	3
35°	1	1	2	2	2	2	2	2	3	3	4
32.5°	1	1	2	2	2	2	2	3	3	3	4
30°	1	1	2	2	2	2	3	3	3	4	4
27.5°	1	2	2	2	2	2	3	3	4	4	4
25°	1	2	2	2	2	2	3	3	4	4	5
22.5°	1	2	2	2	2	3	3	4	4	4	6
20°	1	2	2	2	2	3	3	4	4	5	7
17.5°	2	2	2	2	2	3	3	4	4	6	7
15°	2	2	2	2	3	3	4	4	5	7	8
12.5°	2	2	2	2	3	3	4	4	5	7	8
10°	2	2	2	2	3	3	4	4	6	7	8
7.5°	2	2	2	2	3	3	4	4	6	7	8
5°	2	2	2	2	3	3	4	4	6	7	9
2.5°	2	2	2	2	3	3	4	4	7	8	9
0°	2	2	2	2	3	3	4	4	7	8	9
-2.5°	2	2	2	2	3	3	4	4	7	8	9
-5°	2	2	2	2	3	3	4	4	6	7	9
-7.5°	2	2	2	2	3	3	4	4	6	7	8
-10°	2	2	2	2	3	3	4	4	6	7	8
-12.5°	2	2	2	2	3	3	4	4	5	7	8
-15°	2	2	2	2	3	3	4	4	5	7	8
-17.5°	2	2	2	2	2	3	3	4	4	6	7
-20°	1	2	2	2	2	3	3	4	4	5	7



REPORT NUMBER: P220404 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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°	1	2	2	2	2	3	3	4	4	4	6
-25°	1	2	2	2	2	2	3	3	4	4	5
-27.5°	1	2	2	2	2	2	3	3	4	4	4
-30°	1	1	2	2	2	2	3	3	3	4	4
-32.5°	1	1	2	2	2	2	2	3	3	3	4
-35°	1	1	2	2	2	2	2	2	3	3	4
-37.5°	1	1	1	2	2	2	2	2	3	3	3
-40°	1	1	1	2	2	2	2	2	2	3	3
-42.5°	1	1	1	1	2	2	2	2	2	2	3
-45°	1	1	1	1	1	2	2	2	2	2	2
-47.5°	1	1	1	1	1	1	2	2	2	2	2
-50°	1	1	1	1	1	1	1	2	2	2	2
-52.5°	1	1	1	1	1	1	1	1	2	2	2
-55°	0	1	1	1	1	1	1	1	1	2	2
-57.5°	0	0	1	1	1	1	1	1	1	1	1
-60°	0	0	0	1	1	1	1	1	1	1	1
-62.5°	0	0	0	0	1	1	1	1	1	1	1
-65°	0	0	0	0	0	0	1	1	1	1	1
-67.5°	0	0	0	0	0	0	0	0	1	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: P220404 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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	1	1	1	1	1
70°	1	1	1	1	1	1	1	1	1	1	1
67.5°	1	1	1	1	1	1	1	1	1	1	1
65°	1	1	1	1	1	1	1	1	1	1	1
62.5°	1	1	1	1	1	1	1	2	2	2	2
60°	1	1	1	2	2	2	2	2	2	2	2
57.5°	2	2	2	2	2	2	2	2	2	2	2
55°	2	2	2	2	2	2	2	2	2	2	2
52.5°	2	2	2	2	2	2	2	2	3	3	3
50°	2	2	2	2	2	3	3	3	3	3	3
47.5°	2	2	3	3	3	3	3	3	4	4	4
45°	2	3	3	3	3	4	4	4	4	4	4
42.5°	3	3	3	4	4	4	4	4	5	5	6
40°	3	3	4	4	4	4	5	6	7	7	7
37.5°	4	4	4	4	5	6	7	7	8	8	8
35°	4	4	5	6	7	7	8	8	9	9	10
32.5°	4	5	6	7	8	8	9	10	11	12	13
30°	5	6	7	8	8	9	10	12	14	16	18
27.5°	6	7	8	8	10	11	13	16	20	23	29
25°	7	8	8	10	11	14	18	22	31	39	49
22.5°	7	8	9	11	14	19	25	35	48	63	77
20°	8	9	10	13	18	25	37	54	73	94	112
17.5°	8	10	12	16	22	35	54	77	102	127	148
15°	9	11	14	20	31	48	73	102	131	162	196
12.5°	9	12	16	23	39	63	94	127	162	204	276
10°	10	13	18	29	49	77	112	148	196	276	391
7.5°	10	14	20	34	58	90	128	172	241	355	638
5°	11	15	22	37	64	100	140	191	283	469	1030
2.5°	11	15	23	40	69	106	147	202	310	580	1417
0°	11	15	23	40	70	108	150	206	319	633	1561
-2.5°	11	15	23	40	69	106	147	202	310	580	1417
-5°	11	15	22	37	64	100	140	191	283	469	1030
-7.5°	10	14	20	34	58	90	128	172	241	355	638
-10°	10	13	18	29	49	77	112	148	196	276	391
-12.5°	9	12	16	23	39	63	94	127	162	204	276
-15°	9	11	14	20	31	48	73	102	131	162	196
-17.5°	8	10	12	16	22	35	54	77	102	127	148
-20°	8	9	10	13	18	25	37	54	73	94	112



REPORT NUMBER: P220404 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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°	7	8	9	11	14	19	25	35	48	63	77
-25°	7	8	8	10	11	14	18	22	31	39	49
-27.5°	6	7	8	8	10	11	13	16	20	23	29
-30°	5	6	7	8	8	9	10	12	14	16	18
-32.5°	4	5	6	7	8	8	9	10	11	12	13
-35°	4	4	5	6	7	7	8	8	9	9	10
-37.5°	4	4	4	4	5	6	7	7	8	8	8
-40°	3	3	4	4	4	4	5	6	7	7	7
-42.5°	3	3	3	4	4	4	4	4	5	5	6
-45°	2	3	3	3	3	4	4	4	4	4	4
-47.5°	2	2	3	3	3	3	3	3	4	4	4
-50°	2	2	2	2	2	3	3	3	3	3	3
-52.5°	2	2	2	2	2	2	2	2	3	3	3
-55°	2	2	2	2	2	2	2	2	2	2	2
-57.5°	2	2	2	2	2	2	2	2	2	2	2
-60°	1	1	1	2	2	2	2	2	2	2	2
-62.5°	1	1	1	1	1	1	1	2	2	2	2
-65°	1	1	1	1	1	1	1	1	1	1	1
-67.5°	1	1	1	1	1	1	1	1	1	1	1
-70°	1	1	1	1	1	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	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: P220404 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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°	1	1	1	1	1	1	1	1	1	1	1
70°	1	1	1	1	1	1	1	1	1	1	1
67.5°	1	1	1	1	1	1	1	1	1	1	1
65°	1	1	1	1	1	1	1	1	1	1	1
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	2	2	2	2
55°	2	2	2	2	2	2	2	2	2	2	2
52.5°	3	3	3	3	3	3	3	3	3	3	2
50°	3	3	3	3	3	3	3	3	3	3	3
47.5°	4	4	4	4	4	4	4	4	4	4	3
45°	4	4	4	4	4	4	4	4	4	4	4
42.5°	6	6	7	7	7	6	6	6	5	5	4
40°	7	7	8	8	8	7	7	7	7	7	6
37.5°	8	9	9	9	9	9	8	8	8	8	7
35°	10	11	11	11	11	11	10	10	9	9	8
32.5°	14	15	15	15	15	15	14	13	12	11	10
30°	20	22	23	23	23	22	20	18	16	14	12
27.5°	34	37	40	40	40	37	34	29	23	20	16
25°	58	64	69	70	69	64	58	49	39	31	22
22.5°	90	100	106	108	106	100	90	77	63	48	35
20°	128	140	147	150	147	140	128	112	94	73	54
17.5°	172	191	202	206	202	191	172	148	127	102	77
15°	241	283	310	319	310	283	241	196	162	131	102
12.5°	355	469	580	633	580	469	355	276	204	162	127
10°	638	1030	1417	1561	1417	1030	638	391	276	196	148
7.5°	1282	2115	2773	3013	2773	2115	1282	638	355	241	172
5°	2115	3270	4107	4437	4107	3270	2115	1030	469	283	191
2.5°	2773	4107	5271	5832	5271	4107	2773	1417	580	310	202
0°	3013	4437	5832	6602	5832	4437	3013	1561	633	319	206
-2.5°	2773	4107	5271	5832	5271	4107	2773	1417	580	310	202
-5°	2115	3270	4107	4437	4107	3270	2115	1030	469	283	191
-7.5°	1282	2115	2773	3013	2773	2115	1282	638	355	241	172
-10°	638	1030	1417	1561	1417	1030	638	391	276	196	148
-12.5°	355	469	580	633	580	469	355	276	204	162	127
-15°	241	283	310	319	310	283	241	196	162	131	102
-17.5°	172	191	202	206	202	191	172	148	127	102	77
-20°	128	140	147	150	147	140	128	112	94	73	54



REPORT NUMBER: P220404 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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°	90	100	106	108	106	100	90	77	63	48	35
-25°	58	64	69	70	69	64	58	49	39	31	22
-27.5°	34	37	40	40	40	37	34	29	23	20	16
-30°	20	22	23	23	23	22	20	18	16	14	12
-32.5°	14	15	15	15	15	15	14	13	12	11	10
-35°	10	11	11	11	11	11	10	10	9	9	8
-37.5°	8	9	9	9	9	9	8	8	8	8	7
-40°	7	7	8	8	8	7	7	7	7	7	6
-42.5°	6	6	7	7	7	6	6	6	5	5	4
-45°	4	4	4	4	4	4	4	4	4	4	4
-47.5°	4	4	4	4	4	4	4	4	4	4	3
-50°	3	3	3	3	3	3	3	3	3	3	3
-52.5°	3	3	3	3	3	3	3	3	3	3	2
-55°	2	2	2	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	2	2
-65°	1	1	1	1	1	1	1	1	1	1	1
-67.5°	1	1	1	1	1	1	1	1	1	1	1
-70°	1	1	1	1	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: P220404 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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°	1	0	0	0	0	0	0	0	0	0	0
70°	1	1	1	1	1	1	1	0	0	0	0
67.5°	1	1	1	1	1	1	1	1	1	1	0
65°	1	1	1	1	1	1	1	1	1	1	1
62.5°	1	1	1	1	1	1	1	1	1	1	1
60°	2	2	2	2	1	1	1	1	1	1	1
57.5°	2	2	2	2	2	2	2	1	1	1	1
55°	2	2	2	2	2	2	2	2	2	1	1
52.5°	2	2	2	2	2	2	2	2	2	2	1
50°	3	3	2	2	2	2	2	2	2	2	2
47.5°	3	3	3	3	3	2	2	2	2	2	2
45°	4	4	3	3	3	3	2	2	2	2	2
42.5°	4	4	4	4	3	3	3	3	2	2	2
40°	5	4	4	4	4	3	3	3	3	2	2
37.5°	7	6	5	4	4	4	4	3	3	3	2
35°	8	7	7	6	5	4	4	4	3	3	2
32.5°	9	8	8	7	6	5	4	4	3	3	3
30°	10	9	8	8	7	6	5	4	4	3	3
27.5°	13	11	10	8	8	7	6	4	4	4	3
25°	18	14	11	10	8	8	7	5	4	4	3
22.5°	25	19	14	11	9	8	7	6	4	4	4
20°	37	25	18	13	10	9	8	7	5	4	4
17.5°	54	35	22	16	12	10	8	7	6	4	4
15°	73	48	31	20	14	11	9	8	7	5	4
12.5°	94	63	39	23	16	12	9	8	7	5	4
10°	112	77	49	29	18	13	10	8	7	6	4
7.5°	128	90	58	34	20	14	10	8	7	6	4
5°	140	100	64	37	22	15	11	9	7	6	4
2.5°	147	106	69	40	23	15	11	9	8	7	4
0°	150	108	70	40	23	15	11	9	8	7	4
-2.5°	147	106	69	40	23	15	11	9	8	7	4
-5°	140	100	64	37	22	15	11	9	7	6	4
-7.5°	128	90	58	34	20	14	10	8	7	6	4
-10°	112	77	49	29	18	13	10	8	7	6	4
-12.5°	94	63	39	23	16	12	9	8	7	5	4
-15°	73	48	31	20	14	11	9	8	7	5	4
-17.5°	54	35	22	16	12	10	8	7	6	4	4
-20°	37	25	18	13	10	9	8	7	5	4	4



REPORT NUMBER: P220404 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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	19	14	11	9	8	7	6	4	4	4
-25°	18	14	11	10	8	8	7	5	4	4	3
-27.5°	13	11	10	8	8	7	6	4	4	4	3
-30°	10	9	8	8	7	6	5	4	4	3	3
-32.5°	9	8	8	7	6	5	4	4	3	3	3
-35°	8	7	7	6	5	4	4	4	3	3	2
-37.5°	7	6	5	4	4	4	4	3	3	3	2
-40°	5	4	4	4	4	3	3	3	3	2	2
-42.5°	4	4	4	4	3	3	3	3	2	2	2
-45°	4	4	3	3	3	3	2	2	2	2	2
-47.5°	3	3	3	3	3	2	2	2	2	2	2
-50°	3	3	2	2	2	2	2	2	2	2	2
-52.5°	2	2	2	2	2	2	2	2	2	2	1
-55°	2	2	2	2	2	2	2	2	2	1	1
-57.5°	2	2	2	2	2	2	2	1	1	1	1
-60°	2	2	2	2	1	1	1	1	1	1	1
-62.5°	1	1	1	1	1	1	1	1	1	1	1
-65°	1	1	1	1	1	1	1	1	1	1	1
-67.5°	1	1	1	1	1	1	1	1	1	1	0
-70°	1	1	1	1	1	1	1	0	0	0	0
-72.5°	1	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: P220404 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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°	1	0	0	0	0	0	0	0	0	0	0
62.5°	1	1	1	0	0	0	0	0	0	0	0
60°	1	1	1	1	0	0	0	0	0	0	0
57.5°	1	1	1	1	1	0	0	0	0	0	0
55°	1	1	1	1	1	1	0	0	0	0	0
52.5°	1	1	1	1	1	1	1	0	0	0	0
50°	1	1	1	1	1	1	1	0	0	0	0
47.5°	2	1	1	1	1	1	1	1	0	0	0
45°	2	2	1	1	1	1	1	1	0	0	0
42.5°	2	2	2	1	1	1	1	1	1	0	0
40°	2	2	2	2	1	1	1	1	1	0	0
37.5°	2	2	2	2	1	1	1	1	1	0	0
35°	2	2	2	2	2	1	1	1	1	1	0
32.5°	2	2	2	2	2	1	1	1	1	1	0
30°	3	2	2	2	2	1	1	1	1	1	0
27.5°	3	2	2	2	2	2	1	1	1	1	0
25°	3	2	2	2	2	2	1	1	1	1	0
22.5°	3	3	2	2	2	2	1	1	1	1	0
20°	3	3	2	2	2	2	1	1	1	1	1
17.5°	3	3	2	2	2	2	2	1	1	1	1
15°	4	3	3	2	2	2	2	1	1	1	1
12.5°	4	3	3	2	2	2	2	1	1	1	1
10°	4	3	3	2	2	2	2	1	1	1	1
7.5°	4	3	3	2	2	2	2	1	1	1	1
5°	4	3	3	2	2	2	2	1	1	1	1
2.5°	4	3	3	2	2	2	2	1	1	1	1
0°	4	3	3	2	2	2	2	1	1	1	1
-2.5°	4	3	3	2	2	2	2	1	1	1	1
-5°	4	3	3	2	2	2	2	1	1	1	1
-7.5°	4	3	3	2	2	2	2	1	1	1	1
-10°	4	3	3	2	2	2	2	1	1	1	1
-12.5°	4	3	3	2	2	2	2	1	1	1	1
-15°	4	3	3	2	2	2	2	1	1	1	1
-17.5°	3	3	2	2	2	2	2	1	1	1	1
-20°	3	3	2	2	2	2	1	1	1	1	1



REPORT NUMBER: P220404 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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°	3	3	2	2	2	2	1	1	1	1	0
-25°	3	2	2	2	2	2	1	1	1	1	0
-27.5°	3	2	2	2	2	2	1	1	1	1	0
-30°	3	2	2	2	2	1	1	1	1	1	0
-32.5°	2	2	2	2	2	1	1	1	1	1	0
-35°	2	2	2	2	2	1	1	1	1	1	0
-37.5°	2	2	2	2	1	1	1	1	1	0	0
-40°	2	2	2	2	1	1	1	1	1	0	0
-42.5°	2	2	2	1	1	1	1	1	1	0	0
-45°	2	2	1	1	1	1	1	1	0	0	0
-47.5°	2	1	1	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	1	1	0	0	0	0
-55°	1	1	1	1	1	1	0	0	0	0	0
-57.5°	1	1	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	1	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: P220404 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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: P220404 (CONVERTED FROM TYPE C PHOTOMETRY)

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