

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: P220356 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220356 (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]-LED5080-F-BK-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, RECESSED LENS,
FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 5000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

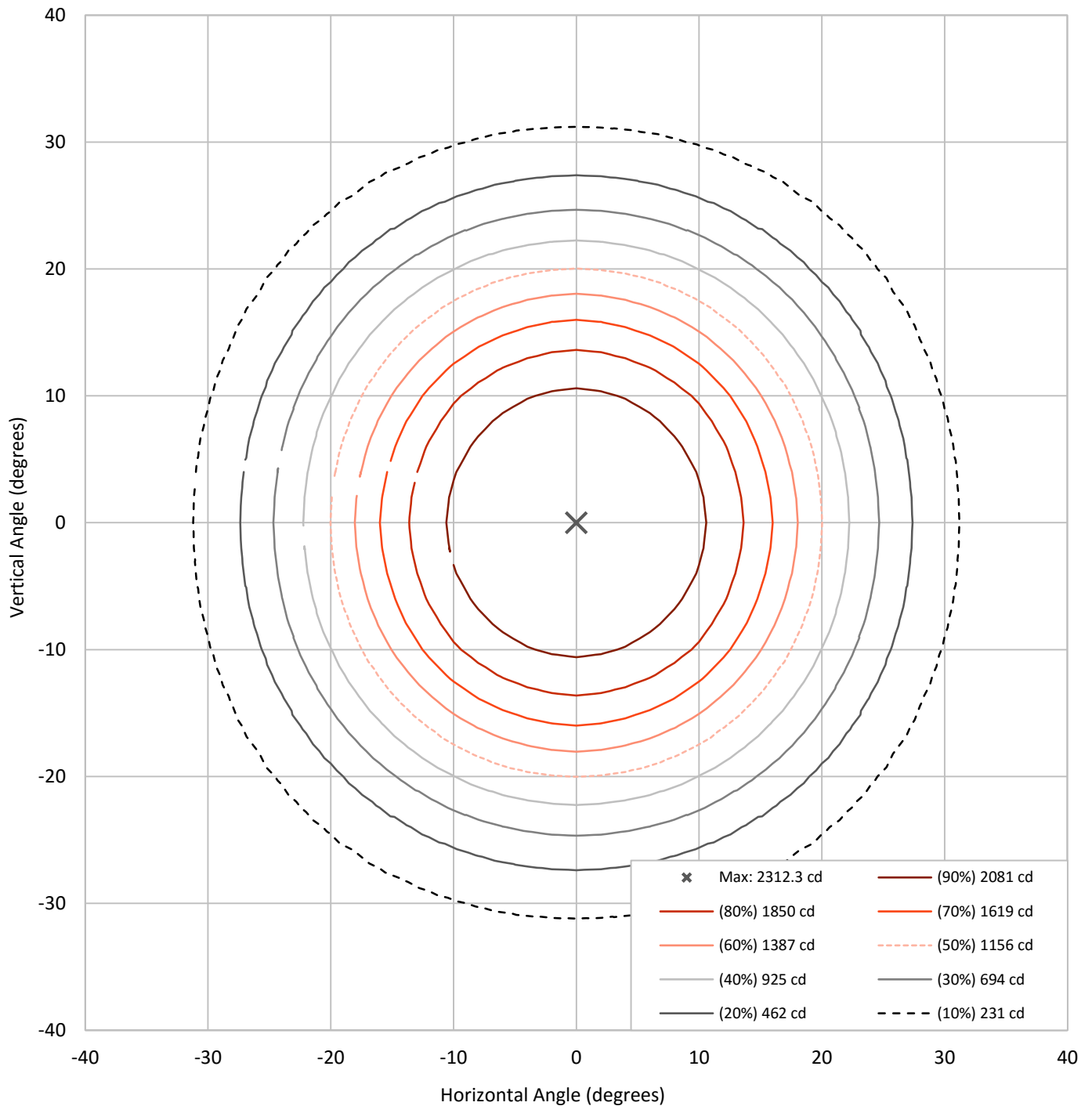
Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	1074.4 lumens	Max Intensity:	2312.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	107.4 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	40.1°H x 40.1°V	Field Angle (10%):	62.4°H x 62.4°V
Beam Lumens:	689.7 lumens	Field Lumens:	991.4 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: P220356 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-F-BK-L1-UNV

Iso-Candela Plot





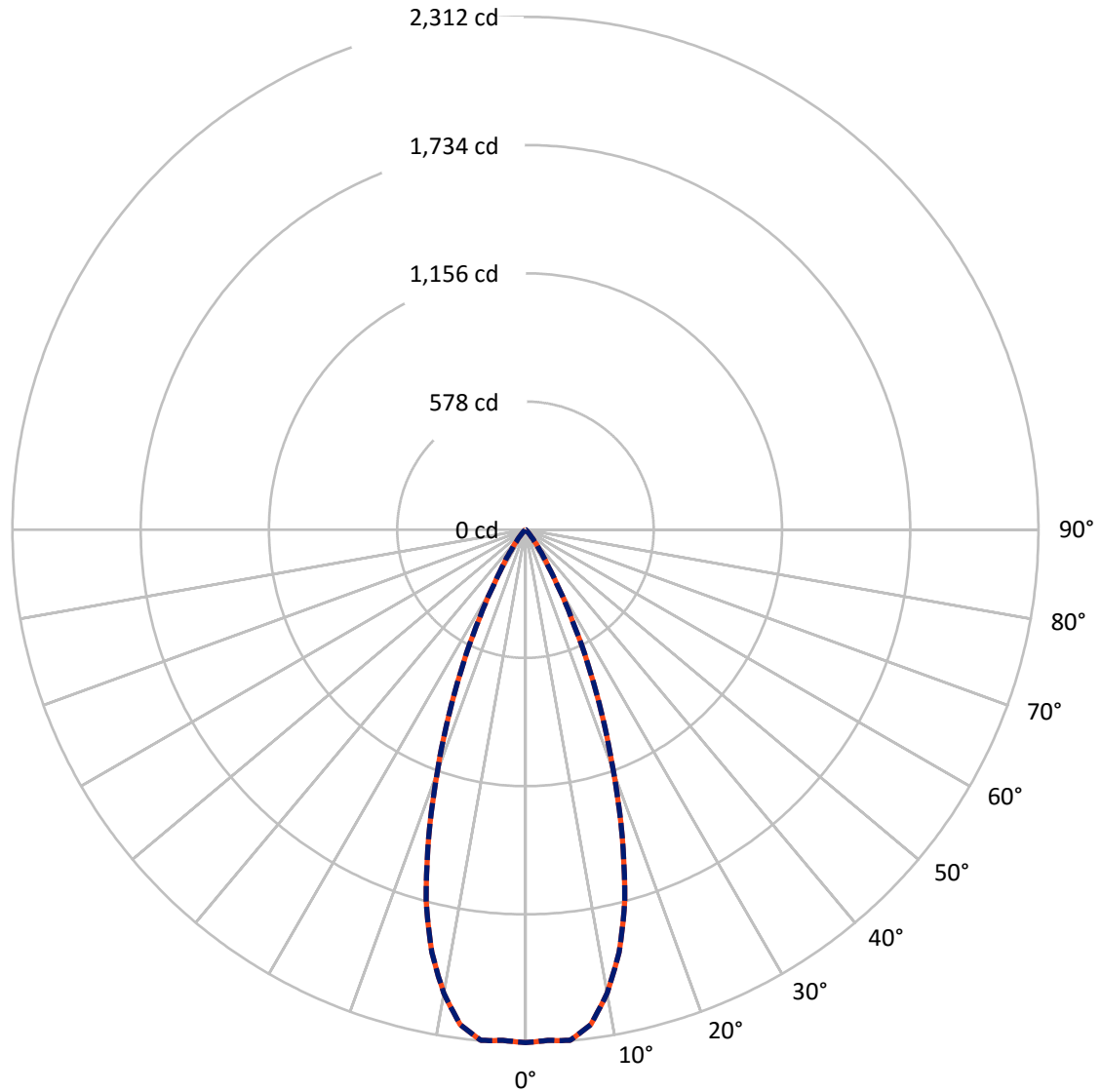
REPORT NUMBER: P220356 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-F-BK-L1-UNV

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	0.0	0.0
50	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.5	0.5	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0
40		0.0	0.0	0.0	0.2	0.9	2.3	3.7	3.7	2.3	0.9	0.2	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.1	0.8	3.7	11.1	19.0	19.0	11.1	3.7	0.8	0.1	0.0	0.0	0.0	0.0
20		0.0	0.0	0.3	2.0	10.5	30.6	48.1	48.1	30.6	10.5	2.0	0.3	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.4	3.1	17.4	46.7	66.6	66.6	46.7	17.4	3.1	0.4	0.0	0.0	0.0	0.0
0		0.0	0.0	0.4	3.1	17.4	46.7	66.6	66.6	46.7	17.4	3.1	0.4	0.0	0.0	0.0	0.0
-10	0.0	0.0	0.0	0.3	2.0	10.5	30.6	48.1	48.1	30.6	10.5	2.0	0.3	0.0	0.0	0.0	0.0
-20		0.0	0.0	0.1	0.8	3.7	11.1	19.0	19.0	11.1	3.7	0.8	0.1	0.0	0.0	0.0	0.0
-30	0.0	0.0	0.0	0.0	0.2	0.9	2.3	3.7	3.7	2.3	0.9	0.2	0.0	0.0	0.0	0.0	0.0
-40		0.0	0.0	0.0	0.0	0.1	0.3	0.5	0.5	0.3	0.1	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	0.0	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	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
-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
-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

REPORT NUMBER: P220356 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-F-BK-L1-UNV

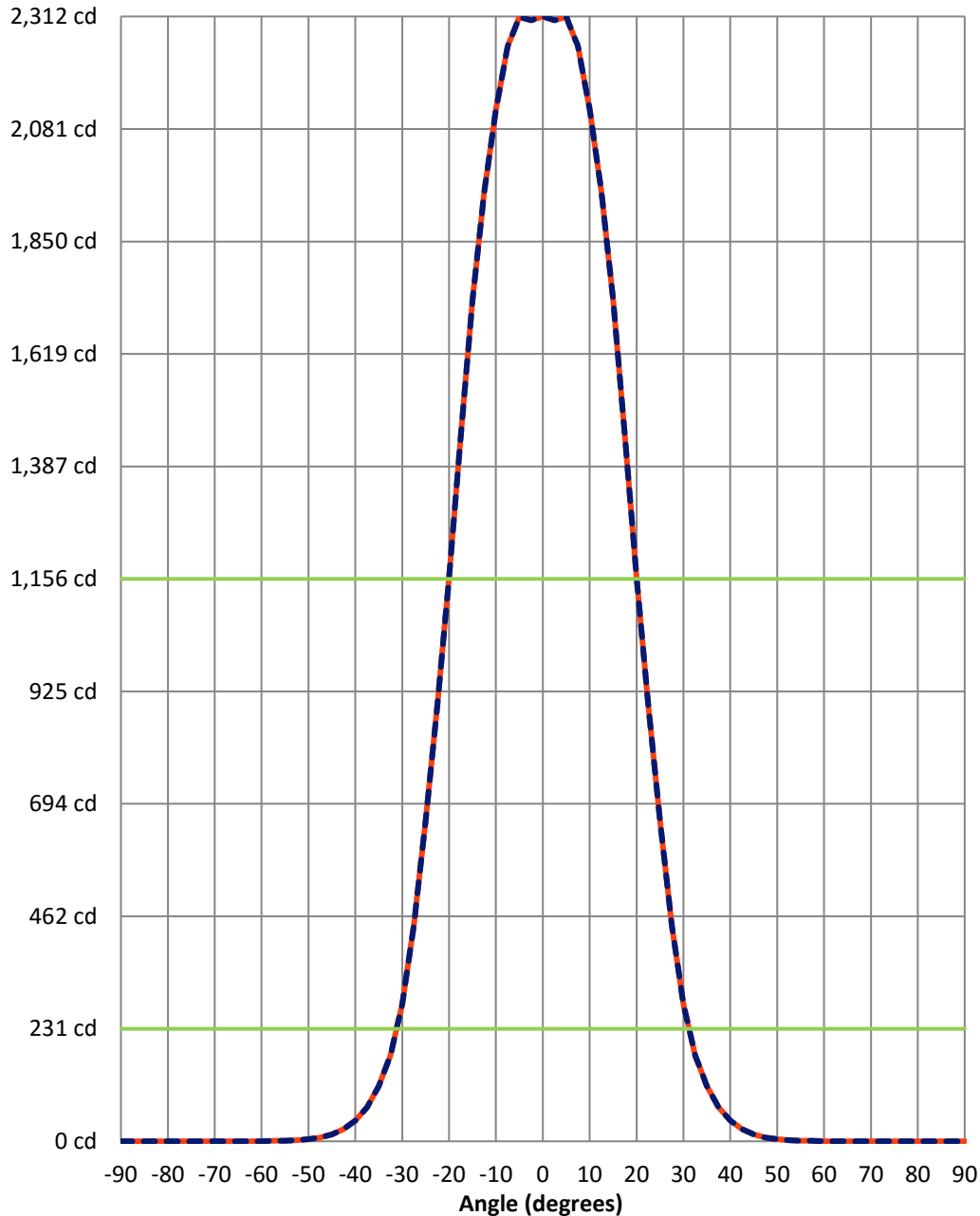
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 40.1°
 V Angle: 40.1°
 Lumens: 689.7
 Efficiency: 64.2%

Field:
 H Angle: 62.4°
 V Angle: 62.4°
 Lumens: 991.4
 Efficiency: 92.3%

Spill:
 Lumens: 83
 Efficiency: 7.7%

- Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 0-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	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: P220356 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-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: P220356 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-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	1	1
45°	0	0	0	0	0	0	0	0	1	1	1
42.5°	0	0	0	0	0	0	0	1	1	1	1
40°	0	0	0	0	0	0	1	1	1	2	2
37.5°	0	0	0	0	0	0	1	1	1	2	4
35°	0	0	0	0	0	1	1	1	2	3	5
32.5°	0	0	0	0	0	1	1	2	3	5	7
30°	0	0	0	0	1	1	1	2	4	6	10
27.5°	0	0	0	0	1	1	2	3	5	8	13
25°	0	0	0	1	1	1	2	4	7	11	18
22.5°	0	0	0	1	1	2	3	5	9	14	24
20°	0	0	0	1	1	2	4	7	11	19	30
17.5°	0	0	0	1	1	2	5	7	13	23	37
15°	0	0	1	1	2	3	5	9	16	27	43
12.5°	0	0	1	1	2	3	6	11	19	31	51
10°	0	0	1	1	2	4	7	12	21	35	58
7.5°	0	0	1	1	2	4	7	13	23	39	63
5°	0	0	1	1	2	4	7	14	24	41	67
2.5°	0	0	1	1	2	4	8	14	25	42	69
0°	0	0	1	1	2	4	8	14	25	43	70
-2.5°	0	0	1	1	2	4	8	14	25	42	69
-5°	0	0	1	1	2	4	7	14	24	41	67
-7.5°	0	0	1	1	2	4	7	13	23	39	63
-10°	0	0	1	1	2	4	7	12	21	35	58
-12.5°	0	0	1	1	2	3	6	11	19	31	51
-15°	0	0	1	1	2	3	5	9	16	27	43
-17.5°	0	0	0	1	1	2	5	7	13	23	37
-20°	0	0	0	1	1	2	4	7	11	19	30



REPORT NUMBER: P220356 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-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	2	3	5	9	14	24
-25°	0	0	0	1	1	1	2	4	7	11	18
-27.5°	0	0	0	0	1	1	2	3	5	8	13
-30°	0	0	0	0	1	1	1	2	4	6	10
-32.5°	0	0	0	0	0	1	1	2	3	5	7
-35°	0	0	0	0	0	1	1	1	2	3	5
-37.5°	0	0	0	0	0	0	1	1	1	2	4
-40°	0	0	0	0	0	0	1	1	1	2	2
-42.5°	0	0	0	0	0	0	0	1	1	1	1
-45°	0	0	0	0	0	0	0	0	1	1	1
-47.5°	0	0	0	0	0	0	0	0	0	1	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: P220356 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-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	1	1	1
55°	0	0	0	0	1	1	1	1	1	1	1
52.5°	0	0	1	1	1	1	1	1	2	2	2
50°	1	1	1	1	1	2	2	2	3	3	4
47.5°	1	1	1	2	2	3	4	5	5	6	7
45°	1	2	2	3	4	5	7	7	9	11	12
42.5°	2	3	4	5	7	9	11	13	16	19	21
40°	3	5	6	8	11	14	19	23	27	31	35
37.5°	5	7	10	13	18	24	30	37	43	51	58
35°	7	11	15	21	28	37	46	58	68	80	92
32.5°	11	16	23	32	42	56	69	88	106	124	143
30°	15	23	33	45	61	81	104	131	158	186	220
27.5°	21	32	45	63	87	114	151	188	238	282	331
25°	28	42	61	87	119	161	214	274	345	424	502
22.5°	37	56	81	114	161	223	296	391	500	609	705
20°	46	69	104	151	214	296	407	543	677	806	921
17.5°	58	88	131	188	274	391	543	702	859	1013	1151
15°	68	106	158	238	345	500	677	859	1045	1224	1396
12.5°	80	124	186	282	424	609	806	1013	1224	1438	1627
10°	92	143	220	331	502	705	921	1151	1396	1627	1816
7.5°	101	158	247	377	569	787	1022	1274	1539	1773	1953
5°	108	168	266	413	619	847	1097	1371	1644	1875	2046
2.5°	112	175	278	437	649	884	1144	1430	1708	1933	2102
0°	114	177	282	445	659	896	1159	1450	1729	1951	2121
-2.5°	112	175	278	437	649	884	1144	1430	1708	1933	2102
-5°	108	168	266	413	619	847	1097	1371	1644	1875	2046
-7.5°	101	158	247	377	569	787	1022	1274	1539	1773	1953
-10°	92	143	220	331	502	705	921	1151	1396	1627	1816
-12.5°	80	124	186	282	424	609	806	1013	1224	1438	1627
-15°	68	106	158	238	345	500	677	859	1045	1224	1396
-17.5°	58	88	131	188	274	391	543	702	859	1013	1151
-20°	46	69	104	151	214	296	407	543	677	806	921



REPORT NUMBER: P220356 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-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°	37	56	81	114	161	223	296	391	500	609	705
-25°	28	42	61	87	119	161	214	274	345	424	502
-27.5°	21	32	45	63	87	114	151	188	238	282	331
-30°	15	23	33	45	61	81	104	131	158	186	220
-32.5°	11	16	23	32	42	56	69	88	106	124	143
-35°	7	11	15	21	28	37	46	58	68	80	92
-37.5°	5	7	10	13	18	24	30	37	43	51	58
-40°	3	5	6	8	11	14	19	23	27	31	35
-42.5°	2	3	4	5	7	9	11	13	16	19	21
-45°	1	2	2	3	4	5	7	7	9	11	12
-47.5°	1	1	1	2	2	3	4	5	5	6	7
-50°	1	1	1	1	1	2	2	2	3	3	4
-52.5°	0	0	1	1	1	1	1	1	2	2	2
-55°	0	0	0	0	1	1	1	1	1	1	1
-57.5°	0	0	0	0	0	0	0	0	1	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: P220356 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-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	1	0
55°	1	1	1	1	1	1	1	1	1	1	1
52.5°	2	2	2	2	2	2	2	2	2	2	1
50°	4	4	4	4	4	4	4	4	3	3	2
47.5°	7	7	8	8	8	7	7	7	6	5	5
45°	13	14	14	14	14	14	13	12	11	9	7
42.5°	23	24	25	25	25	24	23	21	19	16	13
40°	39	41	42	43	42	41	39	35	31	27	23
37.5°	63	67	69	70	69	67	63	58	51	43	37
35°	101	108	112	114	112	108	101	92	80	68	58
32.5°	158	168	175	177	175	168	158	143	124	106	88
30°	247	266	278	282	278	266	247	220	186	158	131
27.5°	377	413	437	445	437	413	377	331	282	238	188
25°	569	619	649	659	649	619	569	502	424	345	274
22.5°	787	847	884	896	884	847	787	705	609	500	391
20°	1022	1097	1144	1159	1144	1097	1022	921	806	677	543
17.5°	1274	1371	1430	1450	1430	1371	1274	1151	1013	859	702
15°	1539	1644	1708	1729	1708	1644	1539	1396	1224	1045	859
12.5°	1773	1875	1933	1951	1933	1875	1773	1627	1438	1224	1013
10°	1953	2046	2102	2121	2102	2046	1953	1816	1627	1396	1151
7.5°	2084	2179	2233	2251	2233	2179	2084	1953	1773	1539	1274
5°	2179	2269	2303	2311	2303	2269	2179	2046	1875	1644	1371
2.5°	2233	2303	2310	2305	2310	2303	2233	2102	1933	1708	1430
0°	2251	2311	2305	2312	2305	2311	2251	2121	1951	1729	1450
-2.5°	2233	2303	2310	2305	2310	2303	2233	2102	1933	1708	1430
-5°	2179	2269	2303	2311	2303	2269	2179	2046	1875	1644	1371
-7.5°	2084	2179	2233	2251	2233	2179	2084	1953	1773	1539	1274
-10°	1953	2046	2102	2121	2102	2046	1953	1816	1627	1396	1151
-12.5°	1773	1875	1933	1951	1933	1875	1773	1627	1438	1224	1013
-15°	1539	1644	1708	1729	1708	1644	1539	1396	1224	1045	859
-17.5°	1274	1371	1430	1450	1430	1371	1274	1151	1013	859	702
-20°	1022	1097	1144	1159	1144	1097	1022	921	806	677	543



REPORT NUMBER: P220356 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-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°	787	847	884	896	884	847	787	705	609	500	391
-25°	569	619	649	659	649	619	569	502	424	345	274
-27.5°	377	413	437	445	437	413	377	331	282	238	188
-30°	247	266	278	282	278	266	247	220	186	158	131
-32.5°	158	168	175	177	175	168	158	143	124	106	88
-35°	101	108	112	114	112	108	101	92	80	68	58
-37.5°	63	67	69	70	69	67	63	58	51	43	37
-40°	39	41	42	43	42	41	39	35	31	27	23
-42.5°	23	24	25	25	25	24	23	21	19	16	13
-45°	13	14	14	14	14	14	13	12	11	9	7
-47.5°	7	7	8	8	8	7	7	7	6	5	5
-50°	4	4	4	4	4	4	4	4	3	3	2
-52.5°	2	2	2	2	2	2	2	2	2	2	1
-55°	1	1	1	1	1	1	1	1	1	1	1
-57.5°	1	1	1	1	1	1	1	1	1	1	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: P220356 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-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	1	0	0	0	0	0	0	0	0
52.5°	1	1	1	1	1	0	0	0	0	0	0
50°	2	2	1	1	1	1	1	0	0	0	0
47.5°	4	3	2	2	1	1	1	1	1	0	0
45°	7	5	4	3	2	2	1	1	1	1	0
42.5°	11	9	7	5	4	3	2	1	1	1	1
40°	19	14	11	8	6	5	3	2	2	1	1
37.5°	30	24	18	13	10	7	5	4	2	1	1
35°	46	37	28	21	15	11	7	5	3	2	1
32.5°	69	56	42	32	23	16	11	7	5	3	2
30°	104	81	61	45	33	23	15	10	6	4	2
27.5°	151	114	87	63	45	32	21	13	8	5	3
25°	214	161	119	87	61	42	28	18	11	7	4
22.5°	296	223	161	114	81	56	37	24	14	9	5
20°	407	296	214	151	104	69	46	30	19	11	7
17.5°	543	391	274	188	131	88	58	37	23	13	7
15°	677	500	345	238	158	106	68	43	27	16	9
12.5°	806	609	424	282	186	124	80	51	31	19	11
10°	921	705	502	331	220	143	92	58	35	21	12
7.5°	1022	787	569	377	247	158	101	63	39	23	13
5°	1097	847	619	413	266	168	108	67	41	24	14
2.5°	1144	884	649	437	278	175	112	69	42	25	14
0°	1159	896	659	445	282	177	114	70	43	25	14
-2.5°	1144	884	649	437	278	175	112	69	42	25	14
-5°	1097	847	619	413	266	168	108	67	41	24	14
-7.5°	1022	787	569	377	247	158	101	63	39	23	13
-10°	921	705	502	331	220	143	92	58	35	21	12
-12.5°	806	609	424	282	186	124	80	51	31	19	11
-15°	677	500	345	238	158	106	68	43	27	16	9
-17.5°	543	391	274	188	131	88	58	37	23	13	7
-20°	407	296	214	151	104	69	46	30	19	11	7



REPORT NUMBER: P220356 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-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°	296	223	161	114	81	56	37	24	14	9	5
-25°	214	161	119	87	61	42	28	18	11	7	4
-27.5°	151	114	87	63	45	32	21	13	8	5	3
-30°	104	81	61	45	33	23	15	10	6	4	2
-32.5°	69	56	42	32	23	16	11	7	5	3	2
-35°	46	37	28	21	15	11	7	5	3	2	1
-37.5°	30	24	18	13	10	7	5	4	2	1	1
-40°	19	14	11	8	6	5	3	2	2	1	1
-42.5°	11	9	7	5	4	3	2	1	1	1	1
-45°	7	5	4	3	2	2	1	1	1	1	0
-47.5°	4	3	2	2	1	1	1	1	1	0	0
-50°	2	2	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	1	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: P220356 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-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°	1	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°	2	1	1	0	0	0	0	0	0	0	0
25°	2	1	1	1	0	0	0	0	0	0	0
22.5°	3	2	1	1	0	0	0	0	0	0	0
20°	4	2	1	1	0	0	0	0	0	0	0
17.5°	5	2	1	1	0	0	0	0	0	0	0
15°	5	3	2	1	1	0	0	0	0	0	0
12.5°	6	3	2	1	1	0	0	0	0	0	0
10°	7	4	2	1	1	0	0	0	0	0	0
7.5°	7	4	2	1	1	0	0	0	0	0	0
5°	7	4	2	1	1	0	0	0	0	0	0
2.5°	8	4	2	1	1	0	0	0	0	0	0
0°	8	4	2	1	1	0	0	0	0	0	0
-2.5°	8	4	2	1	1	0	0	0	0	0	0
-5°	7	4	2	1	1	0	0	0	0	0	0
-7.5°	7	4	2	1	1	0	0	0	0	0	0
-10°	7	4	2	1	1	0	0	0	0	0	0
-12.5°	6	3	2	1	1	0	0	0	0	0	0
-15°	5	3	2	1	1	0	0	0	0	0	0
-17.5°	5	2	1	1	0	0	0	0	0	0	0
-20°	4	2	1	1	0	0	0	0	0	0	0



REPORT NUMBER: P220356 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-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°	3	2	1	1	0	0	0	0	0	0	0
-25°	2	1	1	1	0	0	0	0	0	0	0
-27.5°	2	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°	1	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: P220356 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-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: P220356 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-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)