

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: P220420 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220420 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29423)
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-F-BK-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS,
FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 5000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

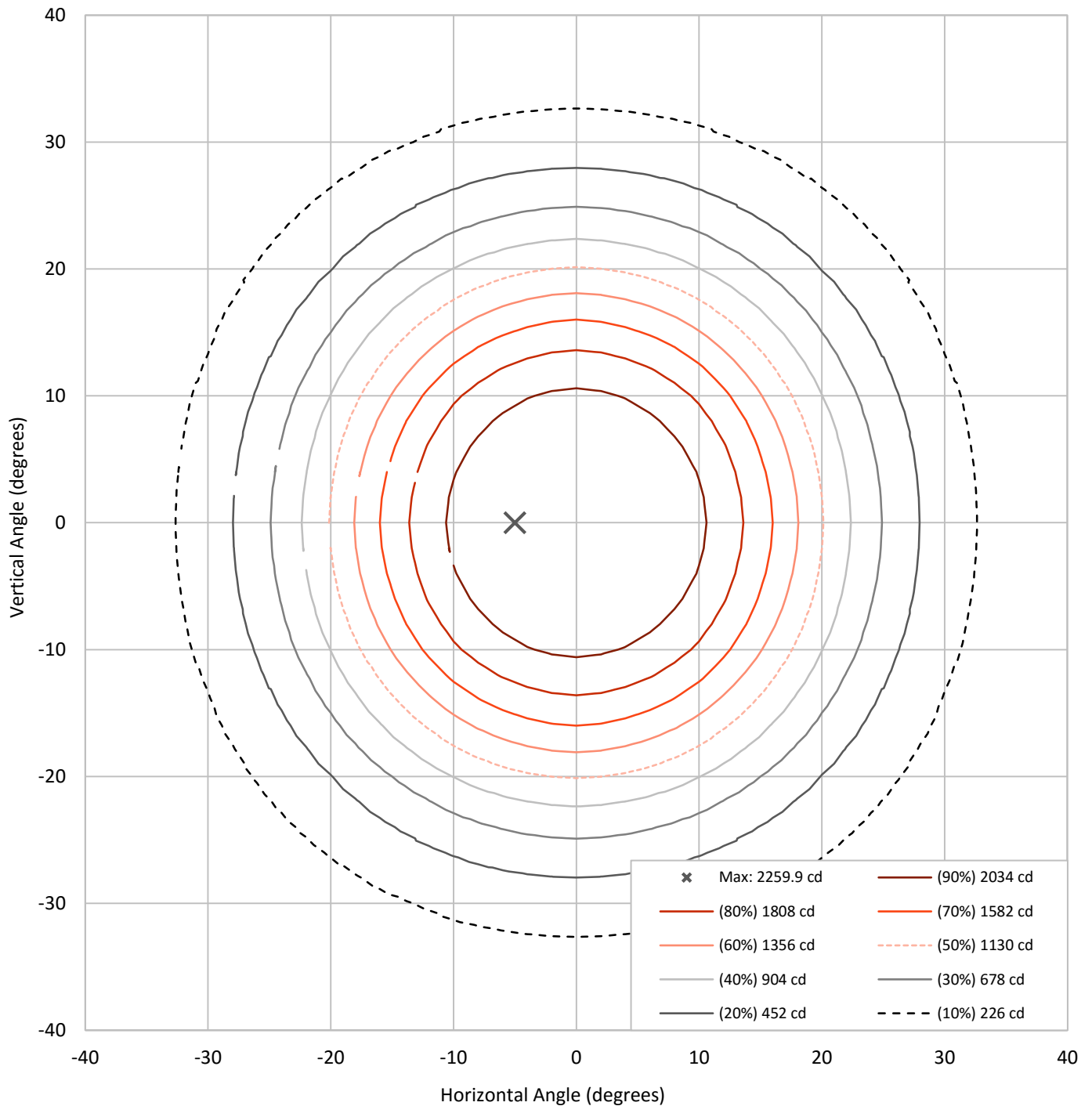
Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	1106.9 lumens	Max Intensity:	2259.9 candela
Efficiency:	N/A	Max Intensity Angle:	-5°H x 0°V
Efficacy:	110.7 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	40.3°H x 39.1°V	Field Angle (10%):	65°H x 64.5°V
Beam Lumens:	675 lumens	Field Lumens:	1011 lumens
Beam Efficiency:	61.0%	Field Efficiency:	91.3%
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: P220420 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Iso-Candela Plot





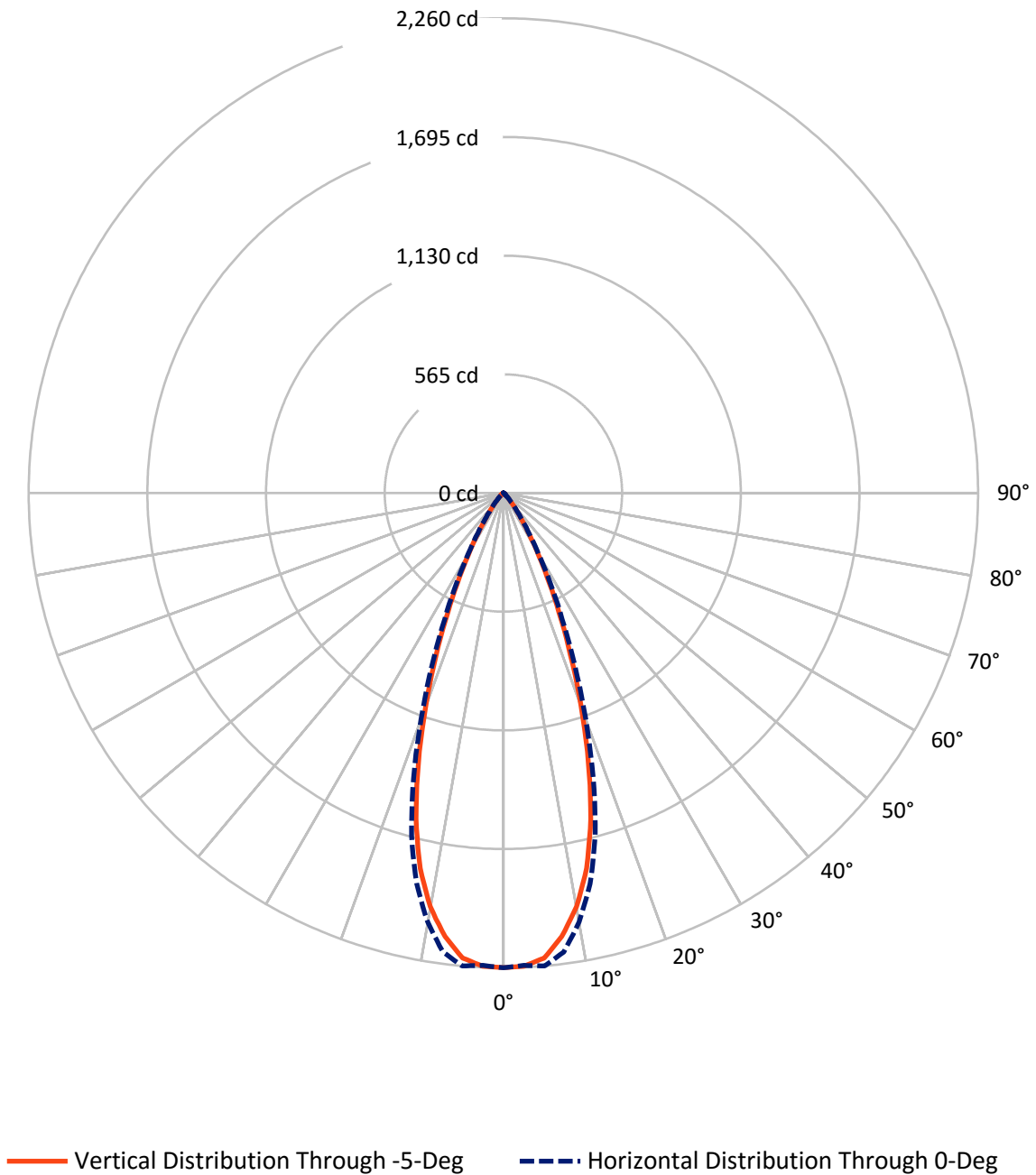
REPORT NUMBER: P220420 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED5080-F-BK-L1-UNV

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	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60		0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0			
50	0.0	0.0	0.0	0.1	0.2	0.4	0.6	0.9	0.9	0.6	0.4	0.2	0.1	0.0	0.0	0.0	0.0
40		0.0	0.1	0.1	0.5	1.4	3.2	4.8	4.8	3.2	1.4	0.5	0.1	0.1			
30	0.0	0.0	0.1	0.3	1.3	4.8	12.1	19.4	19.4	12.1	4.8	1.3	0.3	0.1	0.0	0.0	0.0
20		0.0	0.1	0.5	2.7	11.4	30.2	47.1	47.1	30.2	11.4	2.7	0.5	0.1			
10	0.0	0.0	0.1	0.6	4.0	17.8	45.7	65.1	65.1	45.7	17.8	4.0	0.6	0.1	0.0	0.0	0.0
0		0.0	0.1	0.6	4.0	17.8	45.7	65.1	65.1	45.7	17.8	4.0	0.6	0.1			
-10	0.0	0.0	0.1	0.6	4.0	17.8	45.7	65.1	65.1	45.7	17.8	4.0	0.6	0.1	0.0	0.0	0.0
-20		0.0	0.1	0.5	2.7	11.4	30.2	47.1	47.1	30.2	11.4	2.7	0.5	0.1			
-30	0.0	0.0	0.1	0.3	1.3	4.8	12.1	19.4	19.4	12.1	4.8	1.3	0.3	0.1	0.0	0.0	0.0
-40		0.0	0.1	0.1	0.5	1.4	3.2	4.8	4.8	3.2	1.4	0.5	0.1	0.1			
-50	0.0	0.0	0.0	0.1	0.2	0.4	0.6	0.9	0.9	0.6	0.4	0.2	0.1	0.0	0.0	0.0	0.0
-60		0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0			
-70	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	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	0.0

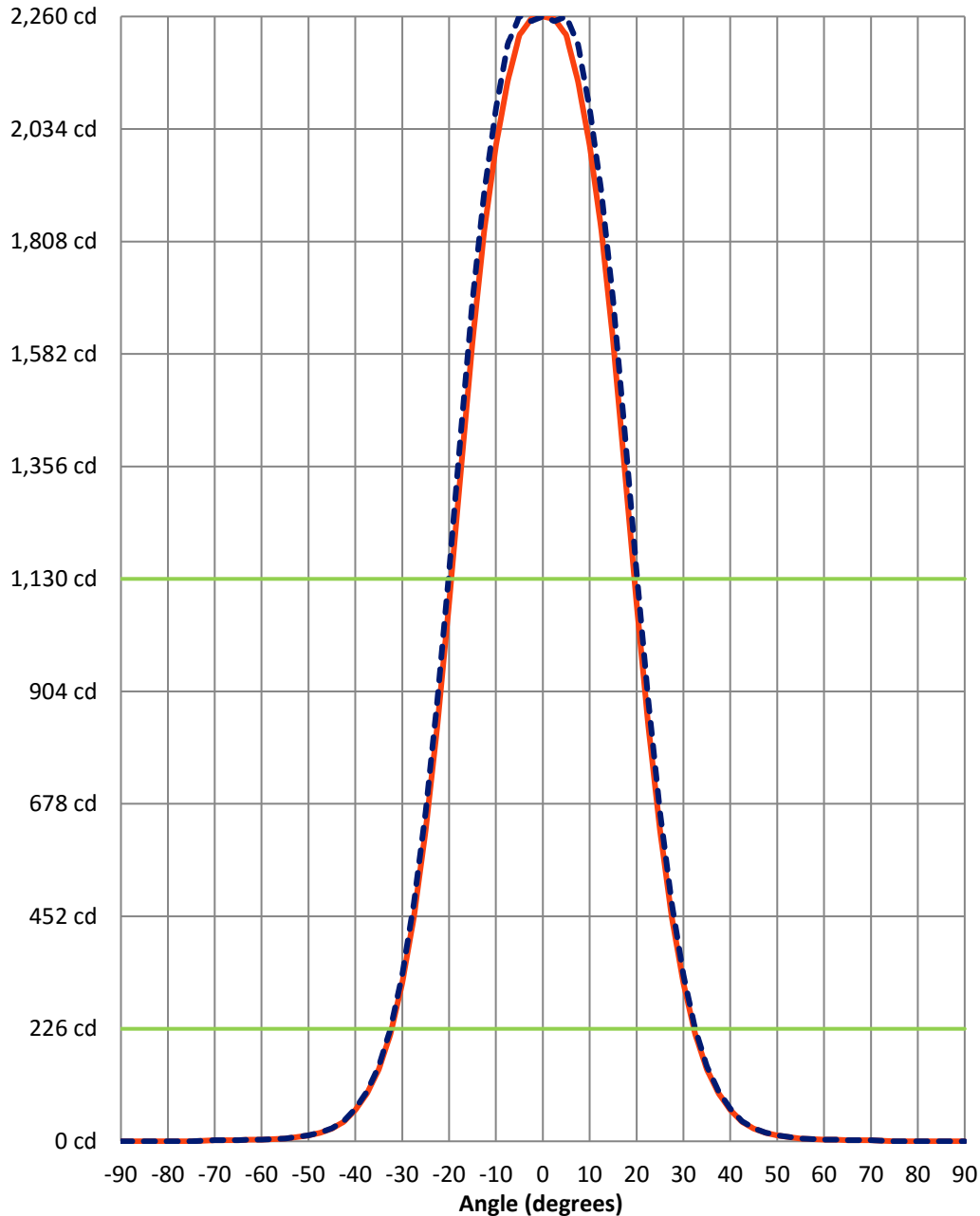
REPORT NUMBER: P220420 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED5080-F-BK-L1-UNV

Luminous Intensity Polar Plot



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

Luminous Intensity Plot



Beam:
 H Angle: 40.3°
 V Angle: 39.1°
 Lumens: 675
 Efficiency: 61.0%

Field:
 H Angle: 65°
 V Angle: 64.5°
 Lumens: 1011
 Efficiency: 91.3%

Spill:
 Lumens: 96
 Efficiency: 8.7%

— Vertical Distribution through -5-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	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	2
37.5°	0	0	0	0	0	0	0	0	0	1	2
35°	0	0	0	0	0	0	0	0	1	1	2
32.5°	0	0	0	0	0	0	0	0	1	2	2
30°	0	0	0	0	0	0	0	0	1	2	2
27.5°	0	0	0	0	0	0	0	0	1	2	2
25°	0	0	0	0	0	0	0	0	1	2	2
22.5°	0	0	0	0	0	0	0	0	2	2	2
20°	0	0	0	0	0	0	0	1	2	2	2
17.5°	0	0	0	0	0	0	0	1	2	2	2
15°	0	0	0	0	0	0	0	1	2	2	2
12.5°	0	0	0	0	0	0	0	1	2	2	2
10°	0	0	0	0	0	0	0	1	2	2	2
7.5°	0	0	0	0	0	0	0	1	2	2	2
5°	0	0	0	0	0	0	0	1	2	2	2
2.5°	0	0	0	0	0	0	0	1	2	2	2
0°	0	0	0	0	0	0	0	1	2	2	2
-2.5°	0	0	0	0	0	0	0	1	2	2	2
-5°	0	0	0	0	0	0	0	1	2	2	2
-7.5°	0	0	0	0	0	0	0	1	2	2	2
-10°	0	0	0	0	0	0	0	1	2	2	2
-12.5°	0	0	0	0	0	0	0	1	2	2	2
-15°	0	0	0	0	0	0	0	1	2	2	2
-17.5°	0	0	0	0	0	0	0	1	2	2	2
-20°	0	0	0	0	0	0	0	1	2	2	2



REPORT NUMBER: P220420 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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	2	2	2
-25°	0	0	0	0	0	0	0	0	1	2	2
-27.5°	0	0	0	0	0	0	0	0	1	2	2
-30°	0	0	0	0	0	0	0	0	1	2	2
-32.5°	0	0	0	0	0	0	0	0	1	2	2
-35°	0	0	0	0	0	0	0	0	1	1	2
-37.5°	0	0	0	0	0	0	0	0	0	1	2
-40°	0	0	0	0	0	0	0	0	0	1	2
-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: P220420 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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	1	1	1
65°	0	0	0	0	0	0	1	1	1	2	2
62.5°	0	0	0	0	1	1	1	2	2	2	2
60°	0	0	0	1	1	2	2	2	2	2	2
57.5°	0	0	1	1	2	2	2	2	2	2	2
55°	0	1	1	2	2	2	2	2	2	3	3
52.5°	1	1	2	2	2	2	2	2	3	3	3
50°	1	2	2	2	2	2	3	3	3	3	4
47.5°	1	2	2	2	2	3	3	3	3	4	4
45°	2	2	2	2	2	3	3	3	4	5	5
42.5°	2	2	2	2	3	3	3	4	5	5	7
40°	2	2	2	3	3	3	4	5	5	7	9
37.5°	2	2	2	3	3	4	4	5	7	9	11
35°	2	2	3	3	3	4	5	6	8	11	13
32.5°	2	2	3	3	4	5	5	8	10	13	16
30°	2	2	3	3	4	5	7	9	12	15	21
27.5°	2	3	3	4	4	5	8	10	14	19	25
25°	2	3	3	4	5	6	9	12	16	23	32
22.5°	2	3	3	4	5	7	10	14	19	26	38
20°	3	3	3	4	5	8	11	16	22	32	47
17.5°	3	3	4	5	6	9	12	17	25	37	57
15°	3	3	4	5	7	10	14	20	29	43	66
12.5°	3	3	4	5	7	11	15	22	32	50	76
10°	3	3	4	5	8	11	16	23	35	55	85
7.5°	3	3	4	5	8	11	17	25	37	60	92
5°	3	3	4	5	8	12	17	25	39	63	96
2.5°	3	3	4	5	9	12	17	26	40	65	99
0°	3	3	4	6	9	12	18	26	40	66	100
-2.5°	3	3	4	5	9	12	17	26	40	65	99
-5°	3	3	4	5	8	12	17	25	39	63	96
-7.5°	3	3	4	5	8	11	17	25	37	60	92
-10°	3	3	4	5	8	11	16	23	35	55	85
-12.5°	3	3	4	5	7	11	15	22	32	50	76
-15°	3	3	4	5	7	10	14	20	29	43	66
-17.5°	3	3	4	5	6	9	12	17	25	37	57
-20°	3	3	3	4	5	8	11	16	22	32	47



REPORT NUMBER: P220420 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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°	2	3	3	4	5	7	10	14	19	26	38
-25°	2	3	3	4	5	6	9	12	16	23	32
-27.5°	2	3	3	4	4	5	8	10	14	19	25
-30°	2	2	3	3	4	5	7	9	12	15	21
-32.5°	2	2	3	3	4	5	5	8	10	13	16
-35°	2	2	3	3	3	4	5	6	8	11	13
-37.5°	2	2	2	3	3	4	4	5	7	9	11
-40°	2	2	2	3	3	3	4	5	5	7	9
-42.5°	2	2	2	2	3	3	3	4	5	5	7
-45°	2	2	2	2	2	3	3	3	4	5	5
-47.5°	1	2	2	2	2	3	3	3	3	4	4
-50°	1	2	2	2	2	2	3	3	3	3	4
-52.5°	1	1	2	2	2	2	2	2	3	3	3
-55°	0	1	1	2	2	2	2	2	2	3	3
-57.5°	0	0	1	1	2	2	2	2	2	2	2
-60°	0	0	0	1	1	2	2	2	2	2	2
-62.5°	0	0	0	0	1	1	1	2	2	2	2
-65°	0	0	0	0	0	0	1	1	1	2	2
-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: P220420 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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	1	1	1	1	1
70°	1	1	1	1	1	2	2	2	2	2	2
67.5°	1	2	2	2	2	2	2	2	2	2	2
65°	2	2	2	2	2	2	2	2	2	2	2
62.5°	2	2	2	2	2	2	3	3	3	3	3
60°	2	2	2	3	3	3	3	3	3	3	3
57.5°	3	3	3	3	3	3	3	4	4	4	4
55°	3	3	3	4	4	4	4	5	5	5	5
52.5°	3	4	4	4	5	5	5	6	7	7	8
50°	4	5	5	5	6	7	8	9	10	11	11
47.5°	5	5	7	8	9	10	11	12	14	15	16
45°	6	8	9	10	12	14	16	17	20	22	23
42.5°	8	10	12	14	16	19	22	25	29	32	35
40°	11	13	15	19	23	26	32	37	43	50	55
37.5°	13	16	21	25	32	38	47	57	66	76	85
35°	17	22	27	35	45	57	70	85	98	113	126
32.5°	22	28	37	50	64	82	99	121	142	164	186
30°	27	37	51	68	89	113	140	171	204	236	270
27.5°	35	50	68	92	121	152	195	238	289	334	380
25°	45	64	89	121	157	207	265	326	392	461	526
22.5°	57	82	113	152	207	274	347	432	525	616	703
20°	70	99	140	195	265	347	446	559	677	797	908
17.5°	85	121	171	238	326	432	559	700	848	997	1136
15°	98	142	204	289	392	525	677	848	1028	1207	1370
12.5°	113	164	236	334	461	616	797	997	1207	1410	1590
10°	126	186	270	380	526	703	908	1136	1370	1590	1773
7.5°	137	203	298	420	581	778	1006	1255	1507	1731	1908
5°	144	216	318	451	625	836	1081	1346	1607	1830	2001
2.5°	149	223	330	472	652	873	1128	1403	1668	1888	2055
0°	151	226	334	479	662	886	1144	1422	1689	1906	2074
-2.5°	149	223	330	472	652	873	1128	1403	1668	1888	2055
-5°	144	216	318	451	625	836	1081	1346	1607	1830	2001
-7.5°	137	203	298	420	581	778	1006	1255	1507	1731	1908
-10°	126	186	270	380	526	703	908	1136	1370	1590	1773
-12.5°	113	164	236	334	461	616	797	997	1207	1410	1590
-15°	98	142	204	289	392	525	677	848	1028	1207	1370
-17.5°	85	121	171	238	326	432	559	700	848	997	1136
-20°	70	99	140	195	265	347	446	559	677	797	908



REPORT NUMBER: P220420 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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°	57	82	113	152	207	274	347	432	525	616	703
-25°	45	64	89	121	157	207	265	326	392	461	526
-27.5°	35	50	68	92	121	152	195	238	289	334	380
-30°	27	37	51	68	89	113	140	171	204	236	270
-32.5°	22	28	37	50	64	82	99	121	142	164	186
-35°	17	22	27	35	45	57	70	85	98	113	126
-37.5°	13	16	21	25	32	38	47	57	66	76	85
-40°	11	13	15	19	23	26	32	37	43	50	55
-42.5°	8	10	12	14	16	19	22	25	29	32	35
-45°	6	8	9	10	12	14	16	17	20	22	23
-47.5°	5	5	7	8	9	10	11	12	14	15	16
-50°	4	5	5	5	6	7	8	9	10	11	11
-52.5°	3	4	4	4	5	5	5	6	7	7	8
-55°	3	3	3	4	4	4	4	5	5	5	5
-57.5°	3	3	3	3	3	3	3	4	4	4	4
-60°	2	2	2	3	3	3	3	3	3	3	3
-62.5°	2	2	2	2	2	2	3	3	3	3	3
-65°	2	2	2	2	2	2	2	2	2	2	2
-67.5°	1	2	2	2	2	2	2	2	2	2	2
-70°	1	1	1	1	1	2	2	2	2	2	2
-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: P220420 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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°	1	1	1	1	1	1	1	1	1	1	1
70°	2	2	2	2	2	2	2	2	2	2	2
67.5°	2	2	2	2	2	2	2	2	2	2	2
65°	2	2	2	2	2	2	2	2	2	2	2
62.5°	3	3	3	3	3	3	3	3	3	3	3
60°	3	3	3	3	3	3	3	3	3	3	3
57.5°	4	4	4	4	4	4	4	4	4	4	4
55°	5	5	5	6	5	5	5	5	5	5	5
52.5°	8	8	9	9	9	8	8	8	7	7	6
50°	11	12	12	12	12	12	11	11	11	10	9
47.5°	17	17	17	18	17	17	17	16	15	14	12
45°	25	25	26	26	26	25	25	23	22	20	17
42.5°	37	39	40	40	40	39	37	35	32	29	25
40°	60	63	65	66	65	63	60	55	50	43	37
37.5°	92	96	99	100	99	96	92	85	76	66	57
35°	137	144	149	151	149	144	137	126	113	98	85
32.5°	203	216	223	226	223	216	203	186	164	142	121
30°	298	318	330	334	330	318	298	270	236	204	171
27.5°	420	451	472	479	472	451	420	380	334	289	238
25°	581	625	652	662	652	625	581	526	461	392	326
22.5°	778	836	873	886	873	836	778	703	616	525	432
20°	1006	1081	1128	1144	1128	1081	1006	908	797	677	559
17.5°	1255	1346	1403	1422	1403	1346	1255	1136	997	848	700
15°	1507	1607	1668	1689	1668	1607	1507	1370	1207	1028	848
12.5°	1731	1830	1888	1906	1888	1830	1731	1590	1410	1207	997
10°	1908	2001	2055	2074	2055	2001	1908	1773	1590	1370	1136
7.5°	2038	2130	2187	2204	2187	2130	2038	1908	1731	1507	1255
5°	2130	2222	2255	2260	2255	2222	2130	2001	1830	1607	1346
2.5°	2187	2255	2257	2251	2257	2255	2187	2055	1888	1668	1403
0°	2204	2260	2251	2260	2251	2260	2204	2074	1906	1689	1422
-2.5°	2187	2255	2257	2251	2257	2255	2187	2055	1888	1668	1403
-5°	2130	2222	2255	2260	2255	2222	2130	2001	1830	1607	1346
-7.5°	2038	2130	2187	2204	2187	2130	2038	1908	1731	1507	1255
-10°	1908	2001	2055	2074	2055	2001	1908	1773	1590	1370	1136
-12.5°	1731	1830	1888	1906	1888	1830	1731	1590	1410	1207	997
-15°	1507	1607	1668	1689	1668	1607	1507	1370	1207	1028	848
-17.5°	1255	1346	1403	1422	1403	1346	1255	1136	997	848	700
-20°	1006	1081	1128	1144	1128	1081	1006	908	797	677	559



REPORT NUMBER: P220420 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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°	778	836	873	886	873	836	778	703	616	525	432
-25°	581	625	652	662	652	625	581	526	461	392	326
-27.5°	420	451	472	479	472	451	420	380	334	289	238
-30°	298	318	330	334	330	318	298	270	236	204	171
-32.5°	203	216	223	226	223	216	203	186	164	142	121
-35°	137	144	149	151	149	144	137	126	113	98	85
-37.5°	92	96	99	100	99	96	92	85	76	66	57
-40°	60	63	65	66	65	63	60	55	50	43	37
-42.5°	37	39	40	40	40	39	37	35	32	29	25
-45°	25	25	26	26	26	25	25	23	22	20	17
-47.5°	17	17	17	18	17	17	17	16	15	14	12
-50°	11	12	12	12	12	12	11	11	11	10	9
-52.5°	8	8	9	9	9	8	8	8	7	7	6
-55°	5	5	5	6	5	5	5	5	5	5	5
-57.5°	4	4	4	4	4	4	4	4	4	4	4
-60°	3	3	3	3	3	3	3	3	3	3	3
-62.5°	3	3	3	3	3	3	3	3	3	3	3
-65°	2	2	2	2	2	2	2	2	2	2	2
-67.5°	2	2	2	2	2	2	2	2	2	2	2
-70°	2	2	2	2	2	2	2	2	2	2	2
-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: P220420 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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°	1	0	0	0	0	0	0	0	0	0	0
70°	2	2	1	1	1	1	1	0	0	0	0
67.5°	2	2	2	2	2	2	1	1	1	1	0
65°	2	2	2	2	2	2	2	2	2	1	1
62.5°	3	2	2	2	2	2	2	2	2	2	2
60°	3	3	3	3	2	2	2	2	2	2	2
57.5°	3	3	3	3	3	3	3	2	2	2	2
55°	4	4	4	4	3	3	3	3	3	2	2
52.5°	5	5	5	4	4	4	3	3	3	3	2
50°	8	7	6	5	5	5	4	4	3	3	3
47.5°	11	10	9	8	7	5	5	4	4	3	3
45°	16	14	12	10	9	8	6	5	5	4	3
42.5°	22	19	16	14	12	10	8	7	5	5	4
40°	32	26	23	19	15	13	11	9	7	5	5
37.5°	47	38	32	25	21	16	13	11	9	7	5
35°	70	57	45	35	27	22	17	13	11	8	6
32.5°	99	82	64	50	37	28	22	16	13	10	8
30°	140	113	89	68	51	37	27	21	15	12	9
27.5°	195	152	121	92	68	50	35	25	19	14	10
25°	265	207	157	121	89	64	45	32	23	16	12
22.5°	347	274	207	152	113	82	57	38	26	19	14
20°	446	347	265	195	140	99	70	47	32	22	16
17.5°	559	432	326	238	171	121	85	57	37	25	17
15°	677	525	392	289	204	142	98	66	43	29	20
12.5°	797	616	461	334	236	164	113	76	50	32	22
10°	908	703	526	380	270	186	126	85	55	35	23
7.5°	1006	778	581	420	298	203	137	92	60	37	25
5°	1081	836	625	451	318	216	144	96	63	39	25
2.5°	1128	873	652	472	330	223	149	99	65	40	26
0°	1144	886	662	479	334	226	151	100	66	40	26
-2.5°	1128	873	652	472	330	223	149	99	65	40	26
-5°	1081	836	625	451	318	216	144	96	63	39	25
-7.5°	1006	778	581	420	298	203	137	92	60	37	25
-10°	908	703	526	380	270	186	126	85	55	35	23
-12.5°	797	616	461	334	236	164	113	76	50	32	22
-15°	677	525	392	289	204	142	98	66	43	29	20
-17.5°	559	432	326	238	171	121	85	57	37	25	17
-20°	446	347	265	195	140	99	70	47	32	22	16



REPORT NUMBER: P220420 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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°	347	274	207	152	113	82	57	38	26	19	14
-25°	265	207	157	121	89	64	45	32	23	16	12
-27.5°	195	152	121	92	68	50	35	25	19	14	10
-30°	140	113	89	68	51	37	27	21	15	12	9
-32.5°	99	82	64	50	37	28	22	16	13	10	8
-35°	70	57	45	35	27	22	17	13	11	8	6
-37.5°	47	38	32	25	21	16	13	11	9	7	5
-40°	32	26	23	19	15	13	11	9	7	5	5
-42.5°	22	19	16	14	12	10	8	7	5	5	4
-45°	16	14	12	10	9	8	6	5	5	4	3
-47.5°	11	10	9	8	7	5	5	4	4	3	3
-50°	8	7	6	5	5	5	4	4	3	3	3
-52.5°	5	5	5	4	4	4	3	3	3	3	2
-55°	4	4	4	4	3	3	3	3	3	2	2
-57.5°	3	3	3	3	3	3	3	2	2	2	2
-60°	3	3	3	3	2	2	2	2	2	2	2
-62.5°	3	2	2	2	2	2	2	2	2	2	2
-65°	2	2	2	2	2	2	2	2	2	1	1
-67.5°	2	2	2	2	2	2	1	1	1	1	0
-70°	2	2	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: P220420 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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°	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°	2	2	1	1	0	0	0	0	0	0	0
57.5°	2	2	2	1	1	0	0	0	0	0	0
55°	2	2	2	2	1	1	0	0	0	0	0
52.5°	2	2	2	2	2	1	1	0	0	0	0
50°	3	2	2	2	2	2	1	0	0	0	0
47.5°	3	3	2	2	2	2	1	1	0	0	0
45°	3	3	2	2	2	2	2	1	0	0	0
42.5°	3	3	3	2	2	2	2	1	1	0	0
40°	4	3	3	3	2	2	2	2	1	0	0
37.5°	4	4	3	3	2	2	2	2	1	0	0
35°	5	4	3	3	3	2	2	2	1	1	0
32.5°	5	5	4	3	3	2	2	2	2	1	0
30°	7	5	4	3	3	2	2	2	2	1	0
27.5°	8	5	4	4	3	3	2	2	2	1	0
25°	9	6	5	4	3	3	2	2	2	1	0
22.5°	10	7	5	4	3	3	2	2	2	2	0
20°	11	8	5	4	3	3	3	2	2	2	1
17.5°	12	9	6	5	4	3	3	2	2	2	1
15°	14	10	7	5	4	3	3	2	2	2	1
12.5°	15	11	7	5	4	3	3	2	2	2	1
10°	16	11	8	5	4	3	3	2	2	2	1
7.5°	17	11	8	5	4	3	3	2	2	2	1
5°	17	12	8	5	4	3	3	2	2	2	1
2.5°	17	12	9	5	4	3	3	2	2	2	1
0°	18	12	9	6	4	3	3	2	2	2	1
-2.5°	17	12	9	5	4	3	3	2	2	2	1
-5°	17	12	8	5	4	3	3	2	2	2	1
-7.5°	17	11	8	5	4	3	3	2	2	2	1
-10°	16	11	8	5	4	3	3	2	2	2	1
-12.5°	15	11	7	5	4	3	3	2	2	2	1
-15°	14	10	7	5	4	3	3	2	2	2	1
-17.5°	12	9	6	5	4	3	3	2	2	2	1
-20°	11	8	5	4	3	3	3	2	2	2	1



REPORT NUMBER: P220420 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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°	10	7	5	4	3	3	2	2	2	2	0
-25°	9	6	5	4	3	3	2	2	2	1	0
-27.5°	8	5	4	4	3	3	2	2	2	1	0
-30°	7	5	4	3	3	2	2	2	2	1	0
-32.5°	5	5	4	3	3	2	2	2	2	1	0
-35°	5	4	3	3	3	2	2	2	1	1	0
-37.5°	4	4	3	3	2	2	2	2	1	0	0
-40°	4	3	3	3	2	2	2	2	1	0	0
-42.5°	3	3	3	2	2	2	2	1	1	0	0
-45°	3	3	2	2	2	2	2	1	0	0	0
-47.5°	3	3	2	2	2	2	1	1	0	0	0
-50°	3	2	2	2	2	2	1	0	0	0	0
-52.5°	2	2	2	2	2	1	1	0	0	0	0
-55°	2	2	2	2	1	1	0	0	0	0	0
-57.5°	2	2	2	1	1	0	0	0	0	0	0
-60°	2	2	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: P220420 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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: P220420 (CONVERTED FROM TYPE C PHOTOMETRY)

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