

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: P220364 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220364 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29416)
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-W-BK-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, RECESSED LENS,
WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 5000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

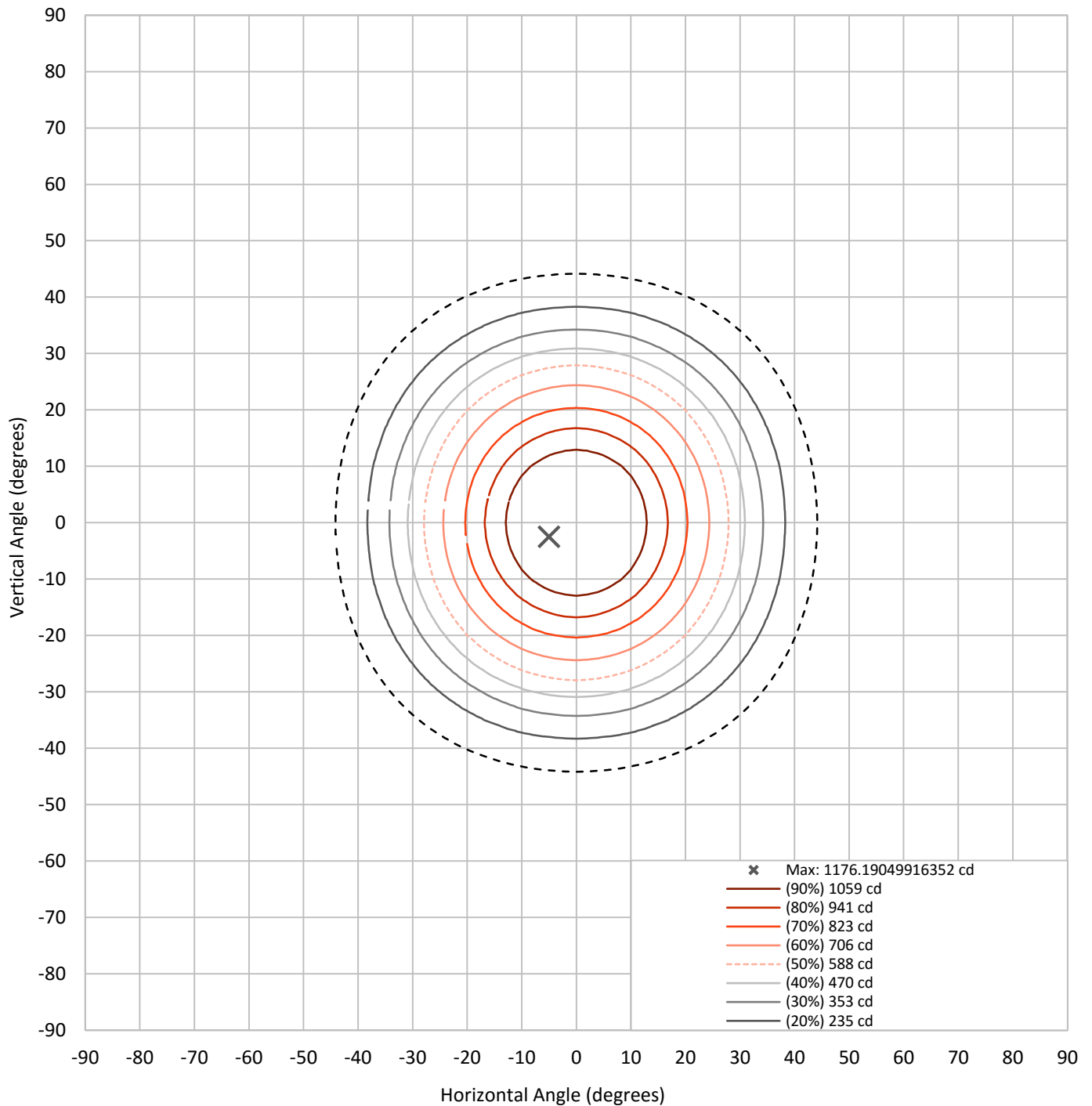
Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	986.3 lumens	Max Intensity:	1176.2 candela
Efficiency:	N/A	Max Intensity Angle:	-5°H x -2.5°V
Efficacy:	98.6 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	55.7°H x 55.1°V	Field Angle (10%):	88.2°H x 87.9°V
Beam Lumens:	632.7 lumens	Field Lumens:	951.9 lumens
Beam Efficiency:	64.2%	Field Efficiency:	96.5%

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: P220364 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-W-BK-L1-UNV

Iso-Candela Plot





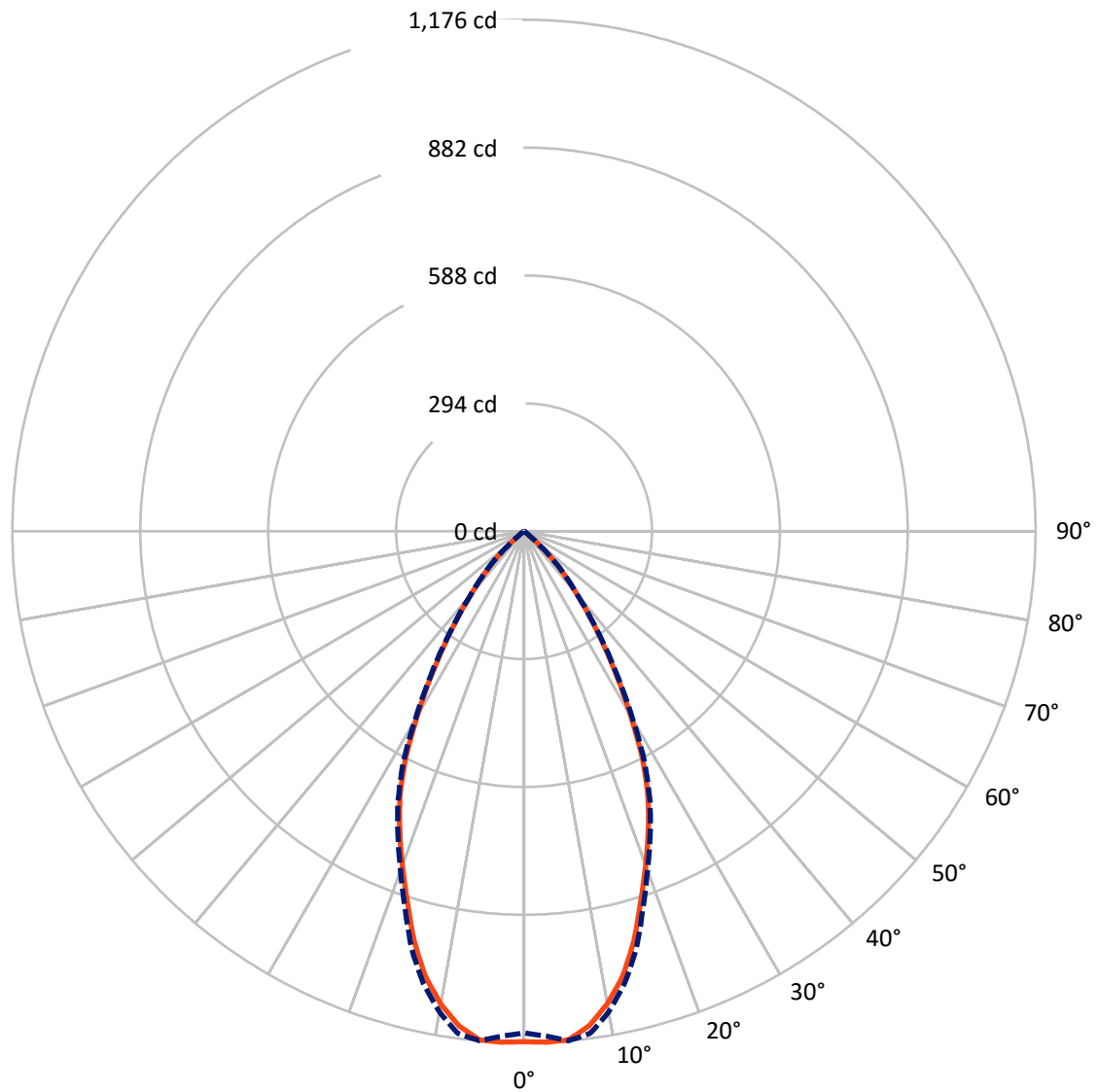
REPORT NUMBER: P220364 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-W-BK-L1-UNV

Lumen Table

90	0.0																		
80	0.0																		
70	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	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
40	0.0	0.0	0.0	0.1	0.8	2.1	3.0	3.0	2.1	0.8	0.1	0.0	0.0	0.0	0.0	0.0			
30	0.0	0.0	0.1	1.4	4.3	7.5	9.8	9.8	7.5	4.3	1.4	0.1	0.0	0.0	0.0	0.0			
20	0.0	0.0	0.7	3.9	9.4	15.9	20.0	20.0	15.9	9.4	3.9	0.7	0.0	0.0	0.0	0.0			
10	0.0	0.0	1.6	6.4	15.0	23.5	29.1	29.1	23.5	15.0	6.4	1.6	0.0	0.0	0.0	0.0			
0	0.0	0.1	2.2	8.1	18.3	28.3	34.7	34.7	28.3	18.3	8.1	2.2	0.1	0.0	0.0	0.0			
-10	0.0	0.1	2.2	8.1	18.3	28.3	34.7	34.7	28.3	18.3	8.1	2.2	0.1	0.0	0.0	0.0			
-20	0.0	0.0	1.6	6.4	15.0	23.5	29.1	29.1	23.5	15.0	6.4	1.6	0.0	0.0	0.0	0.0			
-30	0.0	0.0	0.7	3.9	9.4	15.9	20.0	20.0	15.9	9.4	3.9	0.7	0.0	0.0	0.0	0.0			
-40	0.0	0.0	0.1	1.4	4.3	7.5	9.8	9.8	7.5	4.3	1.4	0.1	0.0	0.0	0.0	0.0			
-50	0.0	0.0	0.0	0.1	0.8	2.1	3.0	3.0	2.1	0.8	0.1	0.0	0.0	0.0	0.0	0.0			
-60	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	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																		
-90	0.0																		
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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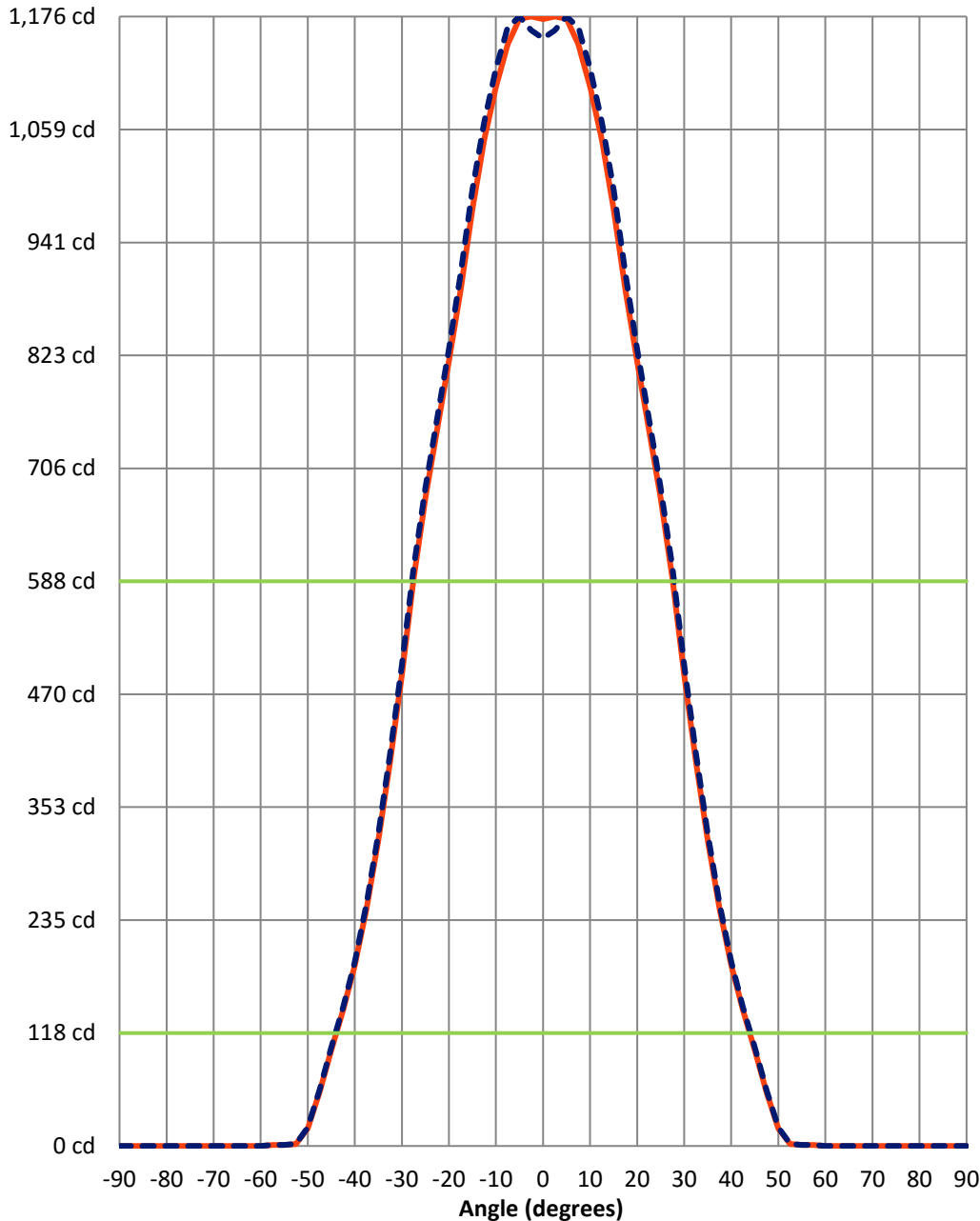
Luminous Intensity Polar Plot



— Vertical Distribution Through -5-Deg - - - Horizontal Distribution Through -2.5-Deg

REPORT NUMBER: P220364 (CONVERTED FROM TYPE C PHOTOMETRY)
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Luminous Intensity Plot



Beam:
 H Angle: 55.7°
 V Angle: 55.1°
 Lumens: 632.7
 Efficiency: 64.2%

Field:
 H Angle: 88.2°
 V Angle: 87.9°
 Lumens: 951.9
 Efficiency: 96.5%

Spill:
 Lumens: 34.4
 Efficiency: 3.5%

- Vertical Distribution through -5-Deg
- - Horizontal Distribution through -2.5-Deg



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-W-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: P220364 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-W-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: P220364 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-W-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	13
35°	0	0	0	0	0	1	1	1	2	12	28
32.5°	0	0	0	0	0	1	1	2	9	24	51
30°	0	0	0	0	1	1	1	4	17	44	75
27.5°	0	0	0	0	1	1	2	12	33	64	99
25°	0	0	0	1	1	1	4	19	50	85	120
22.5°	0	0	0	1	1	2	10	32	67	105	139
20°	0	0	0	1	1	2	16	45	83	121	159
17.5°	0	0	0	1	1	4	22	58	98	136	177
15°	0	0	1	1	2	8	31	69	111	150	194
12.5°	0	0	1	1	2	12	40	80	121	163	212
10°	0	0	1	1	2	15	47	88	130	173	227
7.5°	0	0	1	1	2	17	52	95	136	182	239
5°	0	0	1	1	2	18	56	100	141	188	247
2.5°	0	0	1	1	2	19	58	103	144	192	253
0°	0	0	1	1	2	20	59	104	145	193	254
-2.5°	0	0	1	1	2	19	58	103	144	192	253
-5°	0	0	1	1	2	18	56	100	141	188	247
-7.5°	0	0	1	1	2	17	52	95	136	182	239
-10°	0	0	1	1	2	15	47	88	130	173	227
-12.5°	0	0	1	1	2	12	40	80	121	163	212
-15°	0	0	1	1	2	8	31	69	111	150	194
-17.5°	0	0	0	1	1	4	22	58	98	136	177
-20°	0	0	0	1	1	2	16	45	83	121	159



REPORT NUMBER: P220364 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-W-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	10	32	67	105	139
-25°	0	0	0	1	1	1	4	19	50	85	120
-27.5°	0	0	0	0	1	1	2	12	33	64	99
-30°	0	0	0	0	1	1	1	4	17	44	75
-32.5°	0	0	0	0	0	1	1	2	9	24	51
-35°	0	0	0	0	0	1	1	1	2	12	28
-37.5°	0	0	0	0	0	0	1	1	1	2	13
-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: P220364 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-W-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	4	8	12	15
47.5°	1	1	1	2	4	10	16	22	31	40	47
45°	1	2	4	12	19	32	45	58	69	80	88
42.5°	2	9	17	33	50	67	83	98	111	121	130
40°	12	24	44	64	85	105	121	136	150	163	173
37.5°	28	51	75	99	120	139	159	177	194	212	227
35°	53	80	107	130	154	178	201	227	250	272	292
32.5°	80	109	136	163	190	222	253	285	314	342	366
30°	107	136	166	198	235	273	312	351	387	420	450
27.5°	130	163	198	239	284	329	377	422	466	504	540
25°	154	190	235	284	335	390	445	497	549	596	631
22.5°	178	222	273	329	390	452	514	578	630	671	703
20°	201	253	312	377	445	514	588	647	694	734	768
17.5°	227	285	351	422	497	578	647	702	750	794	832
15°	250	314	387	466	549	630	694	750	803	852	899
12.5°	272	342	420	504	596	671	734	794	852	911	970
10°	292	366	450	540	631	703	768	832	899	970	1030
7.5°	307	386	473	569	657	728	797	866	942	1017	1073
5°	318	400	490	591	675	746	817	892	976	1048	1103
2.5°	325	409	501	602	685	758	830	909	996	1066	1122
0°	328	412	504	606	689	762	834	915	1003	1072	1129
-2.5°	325	409	501	602	685	758	830	909	996	1066	1122
-5°	318	400	490	591	675	746	817	892	976	1048	1103
-7.5°	307	386	473	569	657	728	797	866	942	1017	1073
-10°	292	366	450	540	631	703	768	832	899	970	1030
-12.5°	272	342	420	504	596	671	734	794	852	911	970
-15°	250	314	387	466	549	630	694	750	803	852	899
-17.5°	227	285	351	422	497	578	647	702	750	794	832
-20°	201	253	312	377	445	514	588	647	694	734	768



REPORT NUMBER: P220364 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-W-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	178	222	273	329	390	452	514	578	630	671	703
-25°	154	190	235	284	335	390	445	497	549	596	631
-27.5°	130	163	198	239	284	329	377	422	466	504	540
-30°	107	136	166	198	235	273	312	351	387	420	450
-32.5°	80	109	136	163	190	222	253	285	314	342	366
-35°	53	80	107	130	154	178	201	227	250	272	292
-37.5°	28	51	75	99	120	139	159	177	194	212	227
-40°	12	24	44	64	85	105	121	136	150	163	173
-42.5°	2	9	17	33	50	67	83	98	111	121	130
-45°	1	2	4	12	19	32	45	58	69	80	88
-47.5°	1	1	1	2	4	10	16	22	31	40	47
-50°	1	1	1	1	1	2	2	4	8	12	15
-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: P220364 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-W-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°	17	18	19	20	19	18	17	15	12	8	4
47.5°	52	56	58	59	58	56	52	47	40	31	22
45°	95	100	103	104	103	100	95	88	80	69	58
42.5°	136	141	144	145	144	141	136	130	121	111	98
40°	182	188	192	193	192	188	182	173	163	150	136
37.5°	239	247	253	254	253	247	239	227	212	194	177
35°	307	318	325	328	325	318	307	292	272	250	227
32.5°	386	400	409	412	409	400	386	366	342	314	285
30°	473	490	501	504	501	490	473	450	420	387	351
27.5°	569	591	602	606	602	591	569	540	504	466	422
25°	657	675	685	689	685	675	657	631	596	549	497
22.5°	728	746	758	762	758	746	728	703	671	630	578
20°	797	817	830	834	830	817	797	768	734	694	647
17.5°	866	892	909	915	909	892	866	832	794	750	702
15°	942	976	996	1003	996	976	942	899	852	803	750
12.5°	1017	1048	1066	1072	1066	1048	1017	970	911	852	794
10°	1073	1103	1122	1129	1122	1103	1073	1030	970	899	832
7.5°	1116	1147	1165	1169	1165	1147	1116	1073	1017	942	866
5°	1147	1174	1176	1174	1176	1174	1147	1103	1048	976	892
2.5°	1165	1176	1162	1153	1162	1176	1165	1122	1066	996	909
0°	1169	1174	1153	1151	1153	1174	1169	1129	1072	1003	915
-2.5°	1165	1176	1162	1153	1162	1176	1165	1122	1066	996	909
-5°	1147	1174	1176	1174	1176	1174	1147	1103	1048	976	892
-7.5°	1116	1147	1165	1169	1165	1147	1116	1073	1017	942	866
-10°	1073	1103	1122	1129	1122	1103	1073	1030	970	899	832
-12.5°	1017	1048	1066	1072	1066	1048	1017	970	911	852	794
-15°	942	976	996	1003	996	976	942	899	852	803	750
-17.5°	866	892	909	915	909	892	866	832	794	750	702
-20°	797	817	830	834	830	817	797	768	734	694	647



REPORT NUMBER: P220364 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-W-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°	728	746	758	762	758	746	728	703	671	630	578
-25°	657	675	685	689	685	675	657	631	596	549	497
-27.5°	569	591	602	606	602	591	569	540	504	466	422
-30°	473	490	501	504	501	490	473	450	420	387	351
-32.5°	386	400	409	412	409	400	386	366	342	314	285
-35°	307	318	325	328	325	318	307	292	272	250	227
-37.5°	239	247	253	254	253	247	239	227	212	194	177
-40°	182	188	192	193	192	188	182	173	163	150	136
-42.5°	136	141	144	145	144	141	136	130	121	111	98
-45°	95	100	103	104	103	100	95	88	80	69	58
-47.5°	52	56	58	59	58	56	52	47	40	31	22
-50°	17	18	19	20	19	18	17	15	12	8	4
-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: P220364 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-W-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°	16	10	4	2	1	1	1	1	1	0	0
45°	45	32	19	12	4	2	1	1	1	1	0
42.5°	83	67	50	33	17	9	2	1	1	1	1
40°	121	105	85	64	44	24	12	2	2	1	1
37.5°	159	139	120	99	75	51	28	13	2	1	1
35°	201	178	154	130	107	80	53	28	12	2	1
32.5°	253	222	190	163	136	109	80	51	24	9	2
30°	312	273	235	198	166	136	107	75	44	17	4
27.5°	377	329	284	239	198	163	130	99	64	33	12
25°	445	390	335	284	235	190	154	120	85	50	19
22.5°	514	452	390	329	273	222	178	139	105	67	32
20°	588	514	445	377	312	253	201	159	121	83	45
17.5°	647	578	497	422	351	285	227	177	136	98	58
15°	694	630	549	466	387	314	250	194	150	111	69
12.5°	734	671	596	504	420	342	272	212	163	121	80
10°	768	703	631	540	450	366	292	227	173	130	88
7.5°	797	728	657	569	473	386	307	239	182	136	95
5°	817	746	675	591	490	400	318	247	188	141	100
2.5°	830	758	685	602	501	409	325	253	192	144	103
0°	834	762	689	606	504	412	328	254	193	145	104
-2.5°	830	758	685	602	501	409	325	253	192	144	103
-5°	817	746	675	591	490	400	318	247	188	141	100
-7.5°	797	728	657	569	473	386	307	239	182	136	95
-10°	768	703	631	540	450	366	292	227	173	130	88
-12.5°	734	671	596	504	420	342	272	212	163	121	80
-15°	694	630	549	466	387	314	250	194	150	111	69
-17.5°	647	578	497	422	351	285	227	177	136	98	58
-20°	588	514	445	377	312	253	201	159	121	83	45



REPORT NUMBER: P220364 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-W-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	514	452	390	329	273	222	178	139	105	67	32
-25°	445	390	335	284	235	190	154	120	85	50	19
-27.5°	377	329	284	239	198	163	130	99	64	33	12
-30°	312	273	235	198	166	136	107	75	44	17	4
-32.5°	253	222	190	163	136	109	80	51	24	9	2
-35°	201	178	154	130	107	80	53	28	12	2	1
-37.5°	159	139	120	99	75	51	28	13	2	1	1
-40°	121	105	85	64	44	24	12	2	2	1	1
-42.5°	83	67	50	33	17	9	2	1	1	1	1
-45°	45	32	19	12	4	2	1	1	1	1	0
-47.5°	16	10	4	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: P220364 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-W-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°	4	1	1	1	0	0	0	0	0	0	0
22.5°	10	2	1	1	0	0	0	0	0	0	0
20°	16	2	1	1	0	0	0	0	0	0	0
17.5°	22	4	1	1	0	0	0	0	0	0	0
15°	31	8	2	1	1	0	0	0	0	0	0
12.5°	40	12	2	1	1	0	0	0	0	0	0
10°	47	15	2	1	1	0	0	0	0	0	0
7.5°	52	17	2	1	1	0	0	0	0	0	0
5°	56	18	2	1	1	0	0	0	0	0	0
2.5°	58	19	2	1	1	0	0	0	0	0	0
0°	59	20	2	1	1	0	0	0	0	0	0
-2.5°	58	19	2	1	1	0	0	0	0	0	0
-5°	56	18	2	1	1	0	0	0	0	0	0
-7.5°	52	17	2	1	1	0	0	0	0	0	0
-10°	47	15	2	1	1	0	0	0	0	0	0
-12.5°	40	12	2	1	1	0	0	0	0	0	0
-15°	31	8	2	1	1	0	0	0	0	0	0
-17.5°	22	4	1	1	0	0	0	0	0	0	0
-20°	16	2	1	1	0	0	0	0	0	0	0



REPORT NUMBER: P220364 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-W-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	2	1	1	0	0	0	0	0	0	0
-25°	4	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: P220364 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-W-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: P220364 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED5080-W-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)