

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: P220361 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1002-[A1, P1, S1, SU1]-[RW, RI]-LED2790-W-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220361 (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]-LED2790-W-BK-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, RECESSED LENS,
WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 2700K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

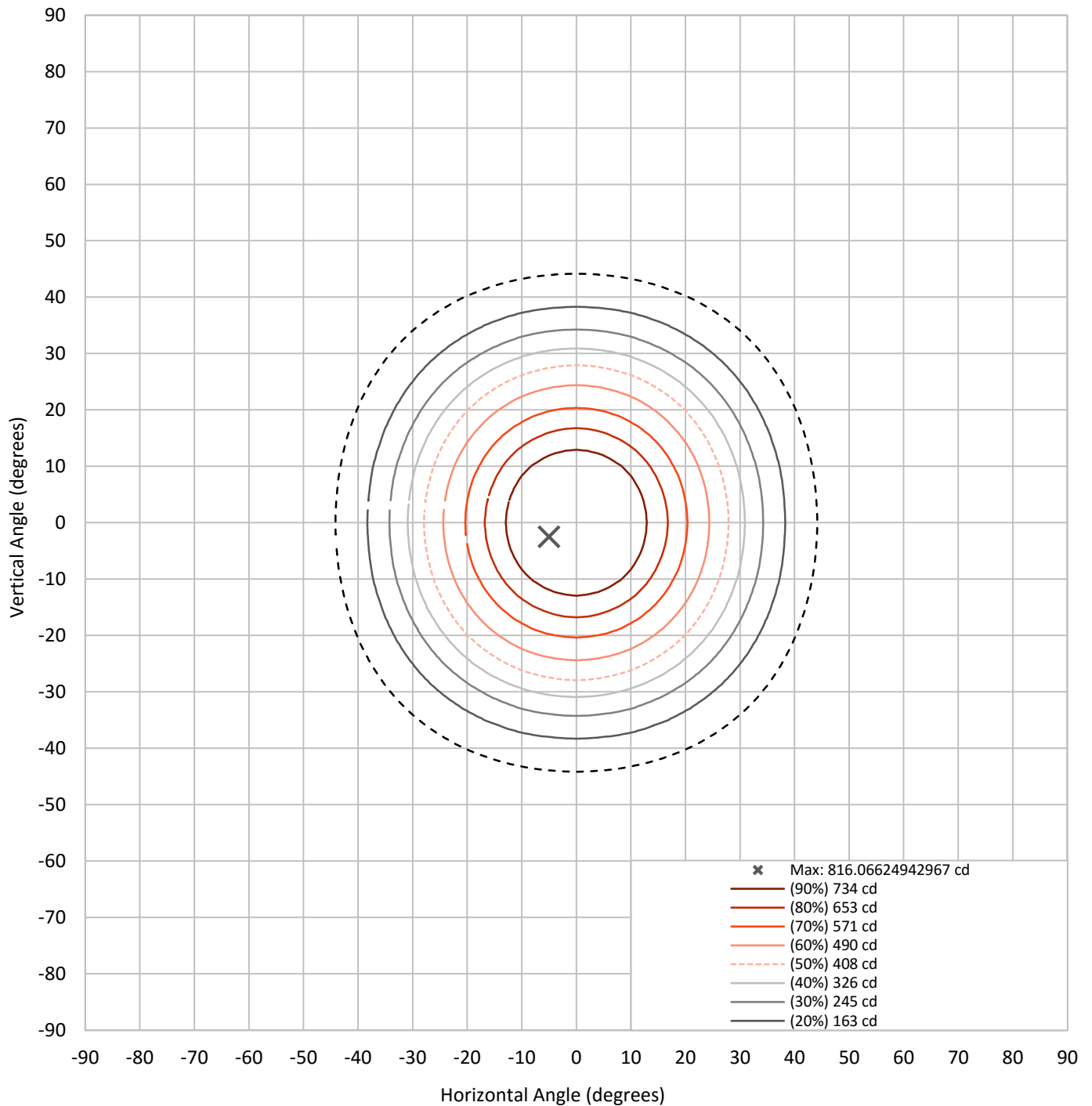
Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	684.3 lumens	Max Intensity:	816.1 candela
Efficiency:	N/A	Max Intensity Angle:	-5°H x -2.5°V
Efficacy:	68.4 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:	439 lumens	Field Lumens:	660.4 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: P220361 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED2790-W-BK-L1-UNV

Iso-Candela Plot





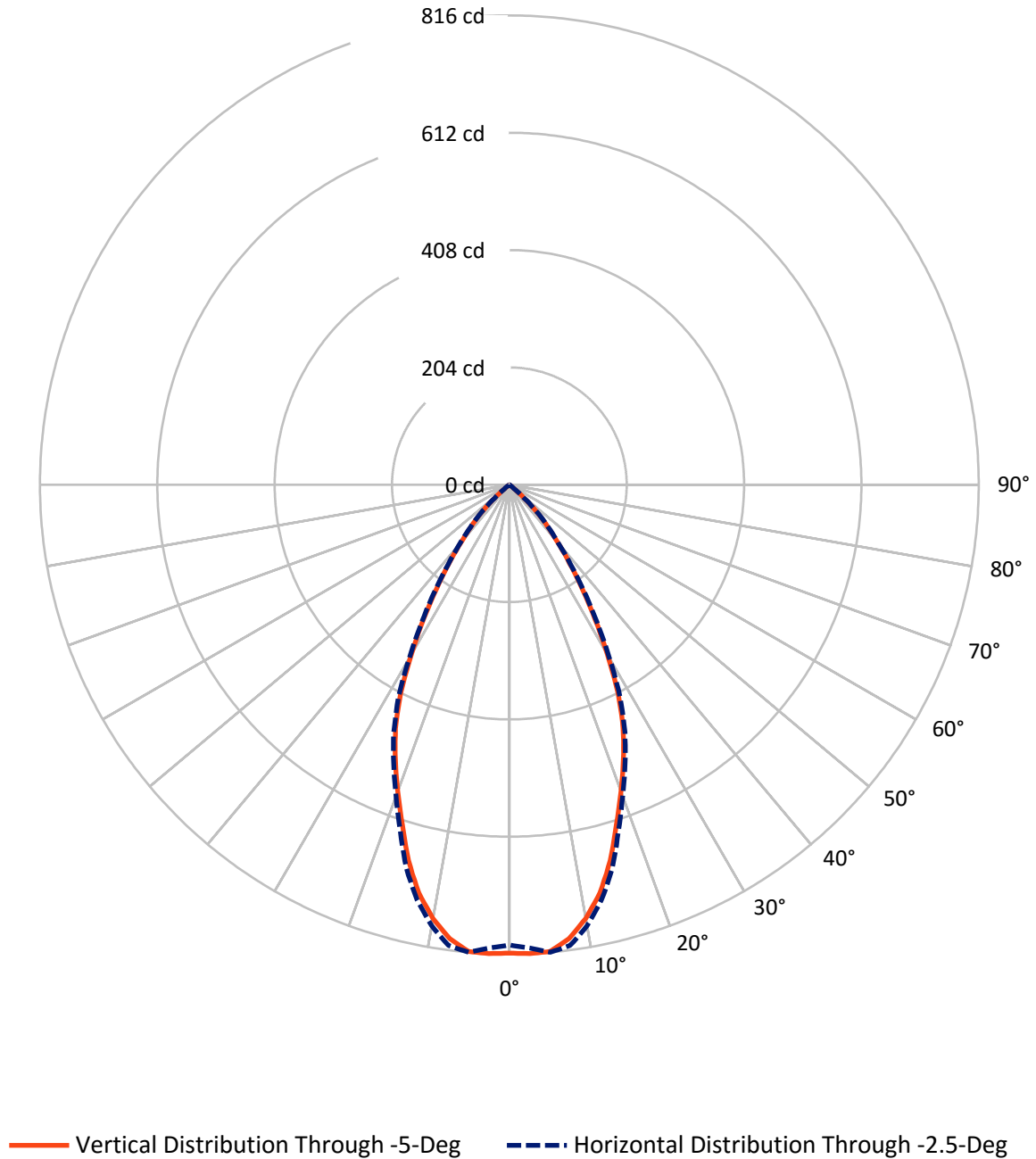
REPORT NUMBER: P220361 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED2790-W-BK-L1-UNV

Lumen Table

90																			
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				
70																			
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				
50		0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0					
40	0.0	0.0	0.0	0.0	0.1	0.6	1.5	2.1	2.1	1.5	0.6	0.1	0.0	0.0	0.0				
30		0.0	0.0	0.1	1.0	3.0	5.2	6.8	6.8	5.2	3.0	1.0	0.1	0.0					
20	0.0	0.0	0.0	0.5	2.7	6.5	11.1	13.9	13.9	11.1	6.5	2.7	0.5	0.0	0.0				
10		0.0	0.0	1.1	4.5	10.4	16.3	20.2	20.2	16.3	10.4	4.5	1.1	0.0					
0	0.0	0.0	0.0	1.5	5.6	12.7	19.6	24.1	24.1	19.6	12.7	5.6	1.5	0.0	0.0				
-10		0.0	0.0	1.5	5.6	12.7	19.6	24.1	24.1	19.6	12.7	5.6	1.5	0.0					
-20	0.0	0.0	0.0	1.1	4.5	10.4	16.3	20.2	20.2	16.3	10.4	4.5	1.1	0.0	0.0				
-30		0.0	0.0	0.5	2.7	6.5	11.1	13.9	13.9	11.1	6.5	2.7	0.5	0.0					
-40	0.0	0.0	0.0	0.1	1.0	3.0	5.2	6.8	6.8	5.2	3.0	1.0	0.1	0.0	0.0				
-50		0.0	0.0	0.0	0.1	0.6	1.5	2.1	2.1	1.5	0.6	0.1	0.0	0.0					
-60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	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					
-80																			
-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				
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

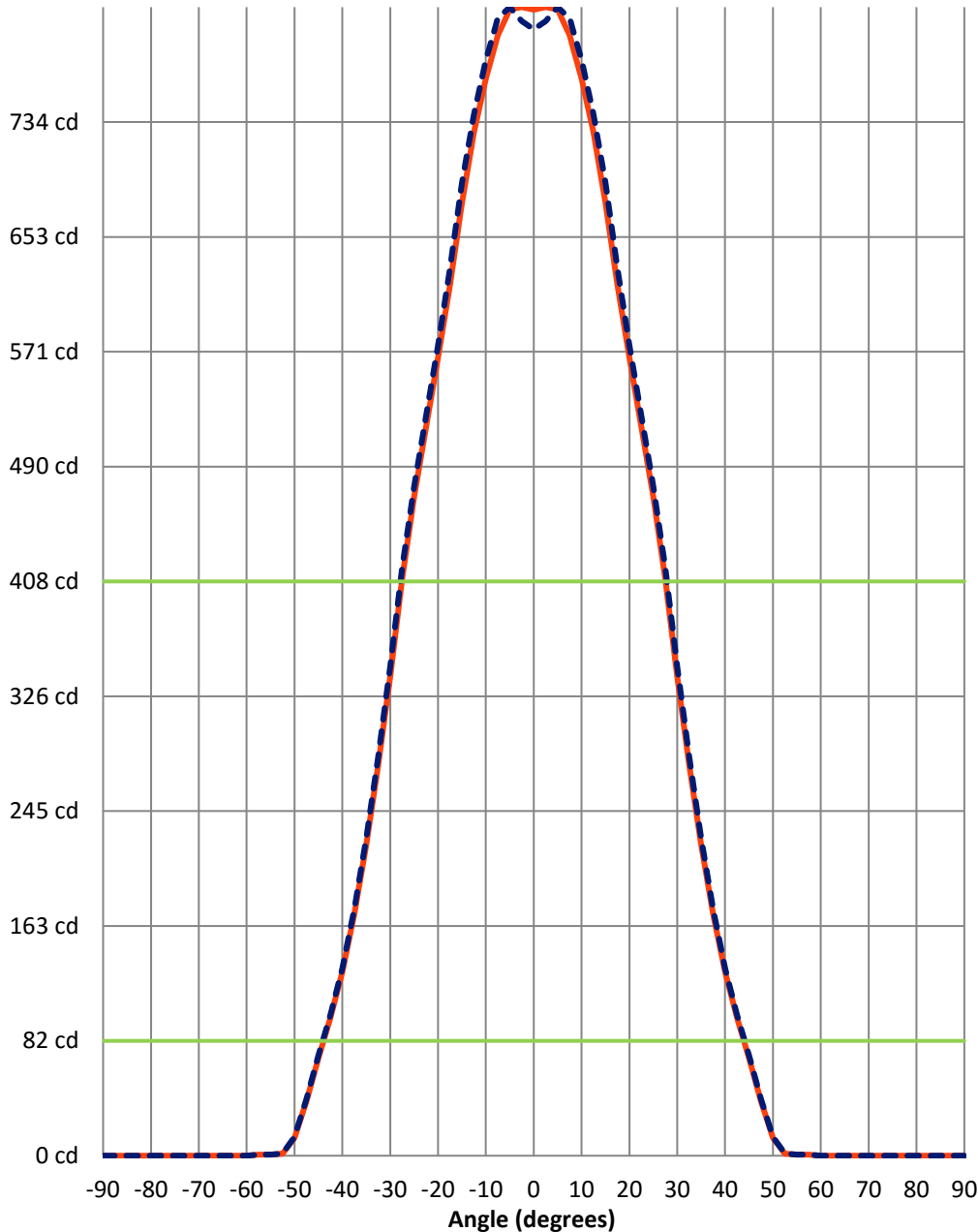
REPORT NUMBER: P220361 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED2790-W-BK-L1-UNV

Luminous Intensity Polar Plot



REPORT NUMBER: P220361 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED2790-W-BK-L1-UNV

Luminous Intensity Plot



Beam:
 H Angle: 55.7°
 V Angle: 55.1°
 Lumens: 439
 Efficiency: 64.2%

Field:
 H Angle: 88.2°
 V Angle: 87.9°
 Lumens: 660.4
 Efficiency: 96.5%

Spill:
 Lumens: 23.9
 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]-LED2790-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: P220361 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED2790-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: P220361 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED2790-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	0	1
45°	0	0	0	0	0	0	0	0	0	1	1
42.5°	0	0	0	0	0	0	0	0	1	1	1
40°	0	0	0	0	0	0	0	1	1	1	1
37.5°	0	0	0	0	0	0	1	1	1	1	9
35°	0	0	0	0	0	1	1	1	1	8	19
32.5°	0	0	0	0	0	1	1	1	6	16	35
30°	0	0	0	0	1	1	1	3	12	31	52
27.5°	0	0	0	0	1	1	1	8	23	45	69
25°	0	0	0	0	1	1	3	13	35	59	83
22.5°	0	0	0	1	1	1	7	22	46	73	97
20°	0	0	0	1	1	1	11	32	58	84	110
17.5°	0	0	0	1	1	3	15	40	68	94	123
15°	0	0	0	1	1	6	22	48	77	104	135
12.5°	0	0	1	1	1	8	27	55	84	113	147
10°	0	0	1	1	1	10	32	61	90	120	158
7.5°	0	0	1	1	1	12	36	66	95	126	166
5°	0	0	1	1	1	13	39	69	98	131	172
2.5°	0	0	1	1	1	13	40	71	100	133	175
0°	0	0	1	1	2	14	41	72	101	134	177
-2.5°	0	0	1	1	1	13	40	71	100	133	175
-5°	0	0	1	1	1	13	39	69	98	131	172
-7.5°	0	0	1	1	1	12	36	66	95	126	166
-10°	0	0	1	1	1	10	32	61	90	120	158
-12.5°	0	0	1	1	1	8	27	55	84	113	147
-15°	0	0	0	1	1	6	22	48	77	104	135
-17.5°	0	0	0	1	1	3	15	40	68	94	123
-20°	0	0	0	1	1	1	11	32	58	84	110



REPORT NUMBER: P220361 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED2790-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	1	7	22	46	73	97
-25°	0	0	0	0	1	1	3	13	35	59	83
-27.5°	0	0	0	0	1	1	1	8	23	45	69
-30°	0	0	0	0	1	1	1	3	12	31	52
-32.5°	0	0	0	0	0	1	1	1	6	16	35
-35°	0	0	0	0	0	1	1	1	1	8	19
-37.5°	0	0	0	0	0	0	1	1	1	1	9
-40°	0	0	0	0	0	0	0	1	1	1	1
-42.5°	0	0	0	0	0	0	0	0	1	1	1
-45°	0	0	0	0	0	0	0	0	0	1	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: P220361 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED2790-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	0	1	1
55°	0	0	0	0	0	1	1	1	1	1	1
52.5°	0	0	1	1	1	1	1	1	1	1	1
50°	1	1	1	1	1	1	1	3	6	8	10
47.5°	1	1	1	1	3	7	11	15	22	27	32
45°	1	1	3	8	13	22	32	40	48	55	61
42.5°	1	6	12	23	35	46	58	68	77	84	90
40°	8	16	31	45	59	73	84	94	104	113	120
37.5°	19	35	52	69	83	97	110	123	135	147	158
35°	37	56	74	90	107	123	140	157	173	189	202
32.5°	56	76	94	113	132	154	175	198	218	237	254
30°	74	94	115	137	163	189	216	243	269	291	312
27.5°	90	113	137	166	197	228	261	293	323	350	374
25°	107	132	163	197	232	271	309	345	381	413	438
22.5°	123	154	189	228	271	314	357	401	437	466	488
20°	140	175	216	261	309	357	408	449	482	509	533
17.5°	157	198	243	293	345	401	449	487	520	551	577
15°	173	218	269	323	381	437	482	520	557	591	623
12.5°	189	237	291	350	413	466	509	551	591	632	673
10°	202	254	312	374	438	488	533	577	623	673	714
7.5°	213	268	328	395	456	505	553	601	654	705	744
5°	221	278	340	410	468	518	567	619	677	727	765
2.5°	226	284	347	418	475	526	576	631	691	740	779
0°	227	286	350	420	478	528	579	635	696	744	783
-2.5°	226	284	347	418	475	526	576	631	691	740	779
-5°	221	278	340	410	468	518	567	619	677	727	765
-7.5°	213	268	328	395	456	505	553	601	654	705	744
-10°	202	254	312	374	438	488	533	577	623	673	714
-12.5°	189	237	291	350	413	466	509	551	591	632	673
-15°	173	218	269	323	381	437	482	520	557	591	623
-17.5°	157	198	243	293	345	401	449	487	520	551	577
-20°	140	175	216	261	309	357	408	449	482	509	533



REPORT NUMBER: P220361 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED2790-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°	123	154	189	228	271	314	357	401	437	466	488
-25°	107	132	163	197	232	271	309	345	381	413	438
-27.5°	90	113	137	166	197	228	261	293	323	350	374
-30°	74	94	115	137	163	189	216	243	269	291	312
-32.5°	56	76	94	113	132	154	175	198	218	237	254
-35°	37	56	74	90	107	123	140	157	173	189	202
-37.5°	19	35	52	69	83	97	110	123	135	147	158
-40°	8	16	31	45	59	73	84	94	104	113	120
-42.5°	1	6	12	23	35	46	58	68	77	84	90
-45°	1	1	3	8	13	22	32	40	48	55	61
-47.5°	1	1	1	1	3	7	11	15	22	27	32
-50°	1	1	1	1	1	1	1	3	6	8	10
-52.5°	0	0	1	1	1	1	1	1	1	1	1
-55°	0	0	0	0	0	1	1	1	1	1	1
-57.5°	0	0	0	0	0	0	0	0	0	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: P220361 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED2790-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	0	0
55°	1	1	1	1	1	1	1	1	1	1	1
52.5°	1	1	1	2	1	1	1	1	1	1	1
50°	12	13	13	14	13	13	12	10	8	6	3
47.5°	36	39	40	41	40	39	36	32	27	22	15
45°	66	69	71	72	71	69	66	61	55	48	40
42.5°	95	98	100	101	100	98	95	90	84	77	68
40°	126	131	133	134	133	131	126	120	113	104	94
37.5°	166	172	175	177	175	172	166	158	147	135	123
35°	213	221	226	227	226	221	213	202	189	173	157
32.5°	268	278	284	286	284	278	268	254	237	218	198
30°	328	340	347	350	347	340	328	312	291	269	243
27.5°	395	410	418	420	418	410	395	374	350	323	293
25°	456	468	475	478	475	468	456	438	413	381	345
22.5°	505	518	526	528	526	518	505	488	466	437	401
20°	553	567	576	579	576	567	553	533	509	482	449
17.5°	601	619	631	635	631	619	601	577	551	520	487
15°	654	677	691	696	691	677	654	623	591	557	520
12.5°	705	727	740	744	740	727	705	673	632	591	551
10°	744	765	779	783	779	765	744	714	673	623	577
7.5°	774	796	808	811	808	796	774	744	705	654	601
5°	796	814	816	814	816	814	796	765	727	677	619
2.5°	808	816	806	800	806	816	808	779	740	691	631
0°	811	814	800	798	800	814	811	783	744	696	635
-2.5°	808	816	806	800	806	816	808	779	740	691	631
-5°	796	814	816	814	816	814	796	765	727	677	619
-7.5°	774	796	808	811	808	796	774	744	705	654	601
-10°	744	765	779	783	779	765	744	714	673	623	577
-12.5°	705	727	740	744	740	727	705	673	632	591	551
-15°	654	677	691	696	691	677	654	623	591	557	520
-17.5°	601	619	631	635	631	619	601	577	551	520	487
-20°	553	567	576	579	576	567	553	533	509	482	449



REPORT NUMBER: P220361 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED2790-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°	505	518	526	528	526	518	505	488	466	437	401
-25°	456	468	475	478	475	468	456	438	413	381	345
-27.5°	395	410	418	420	418	410	395	374	350	323	293
-30°	328	340	347	350	347	340	328	312	291	269	243
-32.5°	268	278	284	286	284	278	268	254	237	218	198
-35°	213	221	226	227	226	221	213	202	189	173	157
-37.5°	166	172	175	177	175	172	166	158	147	135	123
-40°	126	131	133	134	133	131	126	120	113	104	94
-42.5°	95	98	100	101	100	98	95	90	84	77	68
-45°	66	69	71	72	71	69	66	61	55	48	40
-47.5°	36	39	40	41	40	39	36	32	27	22	15
-50°	12	13	13	14	13	13	12	10	8	6	3
-52.5°	1	1	1	2	1	1	1	1	1	1	1
-55°	1	1	1	1	1	1	1	1	1	1	1
-57.5°	1	1	1	1	1	1	1	1	1	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: P220361 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED2790-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	0	0	0	0	0	0	0	0	0
52.5°	1	1	1	1	1	0	0	0	0	0	0
50°	1	1	1	1	1	1	1	0	0	0	0
47.5°	11	7	3	1	1	1	1	1	0	0	0
45°	32	22	13	8	3	1	1	1	1	0	0
42.5°	58	46	35	23	12	6	1	1	1	1	0
40°	84	73	59	45	31	16	8	1	1	1	1
37.5°	110	97	83	69	52	35	19	9	1	1	1
35°	140	123	107	90	74	56	37	19	8	1	1
32.5°	175	154	132	113	94	76	56	35	16	6	1
30°	216	189	163	137	115	94	74	52	31	12	3
27.5°	261	228	197	166	137	113	90	69	45	23	8
25°	309	271	232	197	163	132	107	83	59	35	13
22.5°	357	314	271	228	189	154	123	97	73	46	22
20°	408	357	309	261	216	175	140	110	84	58	32
17.5°	449	401	345	293	243	198	157	123	94	68	40
15°	482	437	381	323	269	218	173	135	104	77	48
12.5°	509	466	413	350	291	237	189	147	113	84	55
10°	533	488	438	374	312	254	202	158	120	90	61
7.5°	553	505	456	395	328	268	213	166	126	95	66
5°	567	518	468	410	340	278	221	172	131	98	69
2.5°	576	526	475	418	347	284	226	175	133	100	71
0°	579	528	478	420	350	286	227	177	134	101	72
-2.5°	576	526	475	418	347	284	226	175	133	100	71
-5°	567	518	468	410	340	278	221	172	131	98	69
-7.5°	553	505	456	395	328	268	213	166	126	95	66
-10°	533	488	438	374	312	254	202	158	120	90	61
-12.5°	509	466	413	350	291	237	189	147	113	84	55
-15°	482	437	381	323	269	218	173	135	104	77	48
-17.5°	449	401	345	293	243	198	157	123	94	68	40
-20°	408	357	309	261	216	175	140	110	84	58	32



REPORT NUMBER: P220361 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED2790-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°	357	314	271	228	189	154	123	97	73	46	22
-25°	309	271	232	197	163	132	107	83	59	35	13
-27.5°	261	228	197	166	137	113	90	69	45	23	8
-30°	216	189	163	137	115	94	74	52	31	12	3
-32.5°	175	154	132	113	94	76	56	35	16	6	1
-35°	140	123	107	90	74	56	37	19	8	1	1
-37.5°	110	97	83	69	52	35	19	9	1	1	1
-40°	84	73	59	45	31	16	8	1	1	1	1
-42.5°	58	46	35	23	12	6	1	1	1	1	0
-45°	32	22	13	8	3	1	1	1	1	0	0
-47.5°	11	7	3	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	0	0	0	0	0	0
-55°	1	1	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: P220361 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED2790-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°	0	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°	1	1	1	0	0	0	0	0	0	0	0
25°	3	1	1	0	0	0	0	0	0	0	0
22.5°	7	1	1	1	0	0	0	0	0	0	0
20°	11	1	1	1	0	0	0	0	0	0	0
17.5°	15	3	1	1	0	0	0	0	0	0	0
15°	22	6	1	1	0	0	0	0	0	0	0
12.5°	27	8	1	1	1	0	0	0	0	0	0
10°	32	10	1	1	1	0	0	0	0	0	0
7.5°	36	12	1	1	1	0	0	0	0	0	0
5°	39	13	1	1	1	0	0	0	0	0	0
2.5°	40	13	1	1	1	0	0	0	0	0	0
0°	41	14	2	1	1	0	0	0	0	0	0
-2.5°	40	13	1	1	1	0	0	0	0	0	0
-5°	39	13	1	1	1	0	0	0	0	0	0
-7.5°	36	12	1	1	1	0	0	0	0	0	0
-10°	32	10	1	1	1	0	0	0	0	0	0
-12.5°	27	8	1	1	1	0	0	0	0	0	0
-15°	22	6	1	1	0	0	0	0	0	0	0
-17.5°	15	3	1	1	0	0	0	0	0	0	0
-20°	11	1	1	1	0	0	0	0	0	0	0



REPORT NUMBER: P220361 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED2790-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°	7	1	1	1	0	0	0	0	0	0	0
-25°	3	1	1	0	0	0	0	0	0	0	0
-27.5°	1	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°	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: P220361 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED2790-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: P220361 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED2790-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)