

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: P29424 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1002-[A1, P1, S1, SU1]-FL-LED4080-W-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P29424 (CONVERTED FROM TYPE C PHOTOMETRY)
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-LED4080-W-BK-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	946 lumens	Max Intensity:	1044.4 candela
Efficiency:	N/A	Max Intensity Angle:	-5°H x -5°V
Efficacy:	94.6 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	56.2°H x 56.2°V	Field Angle (10%):	89.9°H x 89.9°V
Beam Lumens:	583.6 lumens	Field Lumens:	882.1 lumens
Beam Efficiency:	61.7%	Field Efficiency:	93.2%

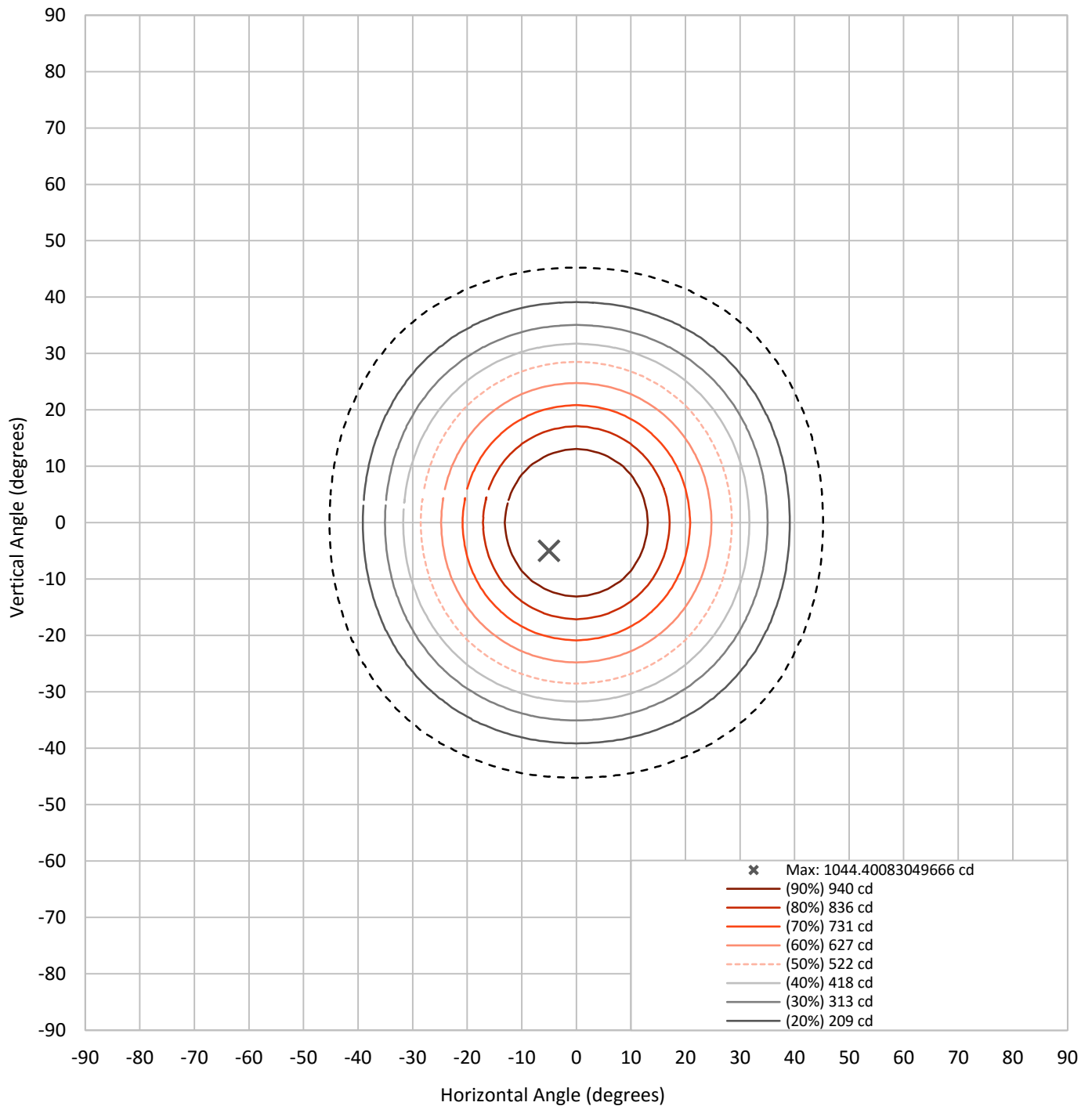
Input Watts (W): 10
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P29424 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-W-BK-L1-UNV

Iso-Candela Plot





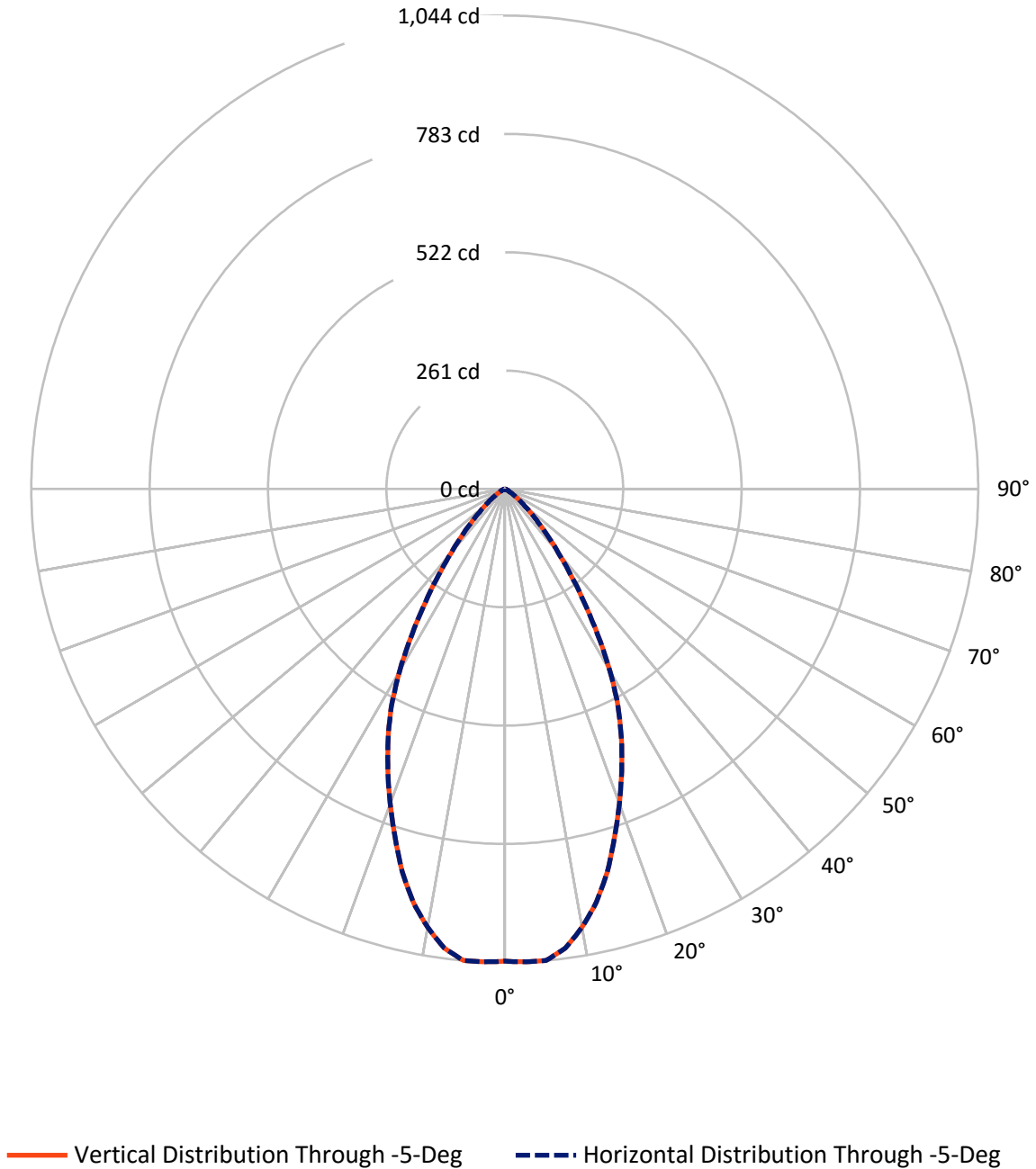
REPORT NUMBER: P29424 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-W-BK-L1-UNV

Lumen Table

90	0.0															
80	0.0															
70	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0
60		0.0	0.0	0.1	0.3	0.5	0.7	0.9	0.9	0.7	0.5	0.3	0.1	0.0	0.0	
50	0.0	0.0	0.1	0.3	0.8	1.6	2.6	3.3	3.3	2.6	1.6	0.8	0.3	0.1	0.0	0.0
40		0.0	0.2	0.7	2.0	4.3	7.3	9.4	9.4	7.3	4.3	2.0	0.7	0.2	0.0	
30	0.0	0.1	0.3	1.3	3.9	9.0	14.8	18.2	18.2	14.8	9.0	3.9	1.3	0.3	0.1	0.0
20		0.1	0.4	1.9	6.2	13.9	21.2	26.1	26.1	21.2	13.9	6.2	1.9	0.4	0.1	
10	0.0	0.1	0.5	2.4	7.8	16.6	25.3	30.9	30.9	25.3	16.6	7.8	2.4	0.5	0.1	0.0
0		0.1	0.5	2.4	7.8	16.6	25.3	30.9	30.9	25.3	16.6	7.8	2.4	0.5	0.1	
-10	0.0	0.1	0.4	1.9	6.2	13.9	21.2	26.1	26.1	21.2	13.9	6.2	1.9	0.4	0.1	0.0
-20		0.1	0.3	1.3	3.9	9.0	14.8	18.2	18.2	14.8	9.0	3.9	1.3	0.3	0.1	
-30	0.0	0.0	0.2	0.7	2.0	4.3	7.3	9.4	9.4	7.3	4.3	2.0	0.7	0.2	0.0	0.0
-40		0.0	0.1	0.3	0.8	1.6	2.6	3.3	3.3	2.6	1.6	0.8	0.3	0.1	0.0	
-50	0.0	0.0	0.0	0.1	0.3	0.5	0.7	0.9	0.9	0.7	0.5	0.3	0.1	0.0	0.0	0.0
-60		0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0	
-70	0.0															
-80	0.0															
-90	0.0															

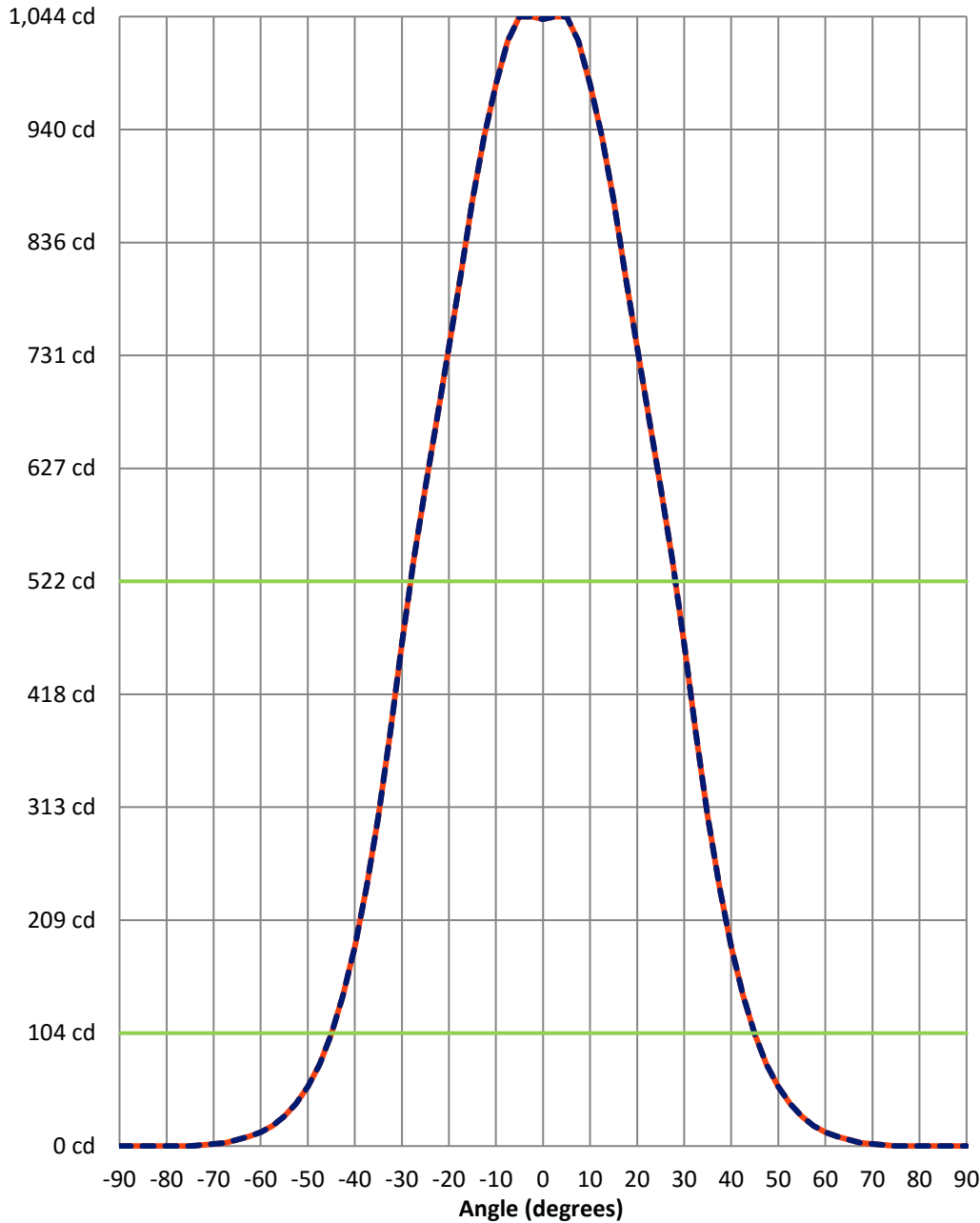
REPORT NUMBER: P29424 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-W-BK-L1-UNV

Luminous Intensity Polar Plot



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CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-W-BK-L1-UNV

Luminous Intensity Plot



Beam:
H Angle: 56.2°
V Angle: 56.2°
Lumens: 583.6
Efficiency: 61.7%

Field:
H Angle: 89.9°
V Angle: 89.9°
Lumens: 882.1
Efficiency: 93.2%

Spill:
Lumens: 63.9
Efficiency: 6.8%

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



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-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	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	3
27.5°	0	0	0	0	0	0	0	0	1	2	3
25°	0	0	0	0	0	0	0	0	1	2	3
22.5°	0	0	0	0	0	0	0	0	1	2	4
20°	0	0	0	0	0	0	0	1	1	2	4
17.5°	0	0	0	0	0	0	0	1	2	3	5
15°	0	0	0	0	0	0	0	1	2	3	5
12.5°	0	0	0	0	0	0	0	1	2	3	5
10°	0	0	0	0	0	0	0	1	2	3	6
7.5°	0	0	0	0	0	0	0	1	2	3	6
5°	0	0	0	0	0	0	0	1	2	3	6
2.5°	0	0	0	0	0	0	0	1	2	3	6
0°	0	0	0	0	0	0	0	1	2	3	6
-2.5°	0	0	0	0	0	0	0	1	2	3	6
-5°	0	0	0	0	0	0	0	1	2	3	6
-7.5°	0	0	0	0	0	0	0	1	2	3	6
-10°	0	0	0	0	0	0	0	1	2	3	6
-12.5°	0	0	0	0	0	0	0	1	2	3	5
-15°	0	0	0	0	0	0	0	1	2	3	5
-17.5°	0	0	0	0	0	0	0	1	2	3	5
-20°	0	0	0	0	0	0	0	1	1	2	4



REPORT NUMBER: P29424 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-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	1	2	4
-25°	0	0	0	0	0	0	0	0	1	2	3
-27.5°	0	0	0	0	0	0	0	0	1	2	3
-30°	0	0	0	0	0	0	0	0	1	2	3
-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: P29424 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-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	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	3
60°	0	0	0	1	1	1	2	2	3	3	4
57.5°	0	0	1	1	2	2	3	3	4	5	6
55°	0	1	1	2	2	3	3	5	6	7	8
52.5°	1	1	2	2	3	4	5	7	8	9	11
50°	1	1	2	3	4	5	7	8	10	12	15
47.5°	1	2	3	3	5	7	9	11	13	16	19
45°	2	2	3	5	7	8	11	13	16	20	25
42.5°	2	3	4	6	8	10	13	16	21	26	32
40°	2	3	5	7	9	12	16	20	26	32	40
37.5°	3	4	6	8	11	15	19	25	32	40	50
35°	3	5	7	10	13	17	23	30	38	49	60
32.5°	4	6	8	11	15	20	27	36	46	58	73
30°	4	7	9	13	17	24	32	42	54	69	87
27.5°	5	8	11	14	20	27	37	49	63	81	103
25°	6	8	12	16	23	31	42	55	72	94	120
22.5°	6	9	13	18	25	35	47	63	82	107	138
20°	7	10	14	19	28	38	52	70	93	121	156
17.5°	7	11	15	21	30	42	57	76	102	135	174
15°	8	11	16	23	33	46	62	84	112	147	190
12.5°	8	12	17	25	35	49	67	90	121	160	206
10°	8	12	18	26	37	51	70	96	129	170	220
7.5°	9	13	18	27	38	53	73	100	135	178	232
5°	9	13	19	27	39	55	75	103	139	184	240
2.5°	9	13	19	28	40	56	77	105	142	188	244
0°	9	13	19	28	40	56	77	106	143	189	246
-2.5°	9	13	19	28	40	56	77	105	142	188	244
-5°	9	13	19	27	39	55	75	103	139	184	240
-7.5°	9	13	18	27	38	53	73	100	135	178	232
-10°	8	12	18	26	37	51	70	96	129	170	220
-12.5°	8	12	17	25	35	49	67	90	121	160	206
-15°	8	11	16	23	33	46	62	84	112	147	190
-17.5°	7	11	15	21	30	42	57	76	102	135	174
-20°	7	10	14	19	28	38	52	70	93	121	156



REPORT NUMBER: P29424 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-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°	6	9	13	18	25	35	47	63	82	107	138
-25°	6	8	12	16	23	31	42	55	72	94	120
-27.5°	5	8	11	14	20	27	37	49	63	81	103
-30°	4	7	9	13	17	24	32	42	54	69	87
-32.5°	4	6	8	11	15	20	27	36	46	58	73
-35°	3	5	7	10	13	17	23	30	38	49	60
-37.5°	3	4	6	8	11	15	19	25	32	40	50
-40°	2	3	5	7	9	12	16	20	26	32	40
-42.5°	2	3	4	6	8	10	13	16	21	26	32
-45°	2	2	3	5	7	8	11	13	16	20	25
-47.5°	1	2	3	3	5	7	9	11	13	16	19
-50°	1	1	2	3	4	5	7	8	10	12	15
-52.5°	1	1	2	2	3	4	5	7	8	9	11
-55°	0	1	1	2	2	3	3	5	6	7	8
-57.5°	0	0	1	1	2	2	3	3	4	5	6
-60°	0	0	0	1	1	1	2	2	3	3	4
-62.5°	0	0	0	0	1	1	1	2	2	2	3
-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: P29424 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-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	1	1	1	1	1
70°	1	1	1	1	1	1	1	2	2	2	2
67.5°	1	2	2	2	2	2	2	3	3	3	3
65°	2	2	3	3	3	4	4	5	5	5	6
62.5°	3	4	4	5	6	6	7	7	8	8	8
60°	5	6	7	8	8	9	10	11	11	12	12
57.5°	7	8	9	11	12	13	14	15	16	17	18
55°	10	11	13	14	16	18	19	21	23	25	26
52.5°	13	15	17	20	23	25	28	30	33	35	37
50°	17	20	24	27	31	35	38	42	46	49	51
47.5°	23	27	32	37	42	47	52	57	62	67	70
45°	30	36	42	49	55	63	70	76	84	90	96
42.5°	38	46	54	63	72	82	93	102	112	121	129
40°	49	58	69	81	94	107	121	135	147	160	170
37.5°	60	73	87	103	120	138	156	174	190	206	220
35°	74	91	109	130	151	174	197	220	241	262	280
32.5°	91	111	134	160	186	216	244	274	301	326	350
30°	109	134	163	193	228	263	299	335	369	400	427
27.5°	130	160	193	232	273	314	359	401	442	477	505
25°	151	186	228	273	320	372	422	471	512	546	573
22.5°	174	216	263	314	372	429	485	532	573	606	634
20°	197	244	299	359	422	485	539	586	626	662	694
17.5°	220	274	335	401	471	532	586	633	677	717	752
15°	241	301	369	442	512	573	626	677	726	770	811
12.5°	262	326	400	477	546	606	662	717	770	821	870
10°	280	350	427	505	573	634	694	752	811	870	918
7.5°	294	368	448	526	594	657	720	782	847	907	956
5°	305	381	464	541	609	673	739	805	875	934	982
2.5°	311	389	474	550	618	684	750	820	891	950	999
0°	313	392	477	554	621	688	754	825	896	955	1005
-2.5°	311	389	474	550	618	684	750	820	891	950	999
-5°	305	381	464	541	609	673	739	805	875	934	982
-7.5°	294	368	448	526	594	657	720	782	847	907	956
-10°	280	350	427	505	573	634	694	752	811	870	918
-12.5°	262	326	400	477	546	606	662	717	770	821	870
-15°	241	301	369	442	512	573	626	677	726	770	811
-17.5°	220	274	335	401	471	532	586	633	677	717	752
-20°	197	244	299	359	422	485	539	586	626	662	694



REPORT NUMBER: P29424 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-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°	174	216	263	314	372	429	485	532	573	606	634
-25°	151	186	228	273	320	372	422	471	512	546	573
-27.5°	130	160	193	232	273	314	359	401	442	477	505
-30°	109	134	163	193	228	263	299	335	369	400	427
-32.5°	91	111	134	160	186	216	244	274	301	326	350
-35°	74	91	109	130	151	174	197	220	241	262	280
-37.5°	60	73	87	103	120	138	156	174	190	206	220
-40°	49	58	69	81	94	107	121	135	147	160	170
-42.5°	38	46	54	63	72	82	93	102	112	121	129
-45°	30	36	42	49	55	63	70	76	84	90	96
-47.5°	23	27	32	37	42	47	52	57	62	67	70
-50°	17	20	24	27	31	35	38	42	46	49	51
-52.5°	13	15	17	20	23	25	28	30	33	35	37
-55°	10	11	13	14	16	18	19	21	23	25	26
-57.5°	7	8	9	11	12	13	14	15	16	17	18
-60°	5	6	7	8	8	9	10	11	11	12	12
-62.5°	3	4	4	5	6	6	7	7	8	8	8
-65°	2	2	3	3	3	4	4	5	5	5	6
-67.5°	1	2	2	2	2	2	2	3	3	3	3
-70°	1	1	1	1	1	1	1	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: P29424 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-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°	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°	3	3	3	3	3	3	3	3	3	3	3
65°	6	6	6	6	6	6	6	6	5	5	5
62.5°	9	9	9	9	9	9	9	8	8	8	7
60°	13	13	13	13	13	13	13	12	12	11	11
57.5°	18	19	19	19	19	19	18	18	17	16	15
55°	27	27	28	28	28	27	27	26	25	23	21
52.5°	38	39	40	40	40	39	38	37	35	33	30
50°	53	55	56	56	56	55	53	51	49	46	42
47.5°	73	75	77	77	77	75	73	70	67	62	57
45°	100	103	105	106	105	103	100	96	90	84	76
42.5°	135	139	142	143	142	139	135	129	121	112	102
40°	178	184	188	189	188	184	178	170	160	147	135
37.5°	232	240	244	246	244	240	232	220	206	190	174
35°	294	305	311	313	311	305	294	280	262	241	220
32.5°	368	381	389	392	389	381	368	350	326	301	274
30°	448	464	474	477	474	464	448	427	400	369	335
27.5°	526	541	550	554	550	541	526	505	477	442	401
25°	594	609	618	621	618	609	594	573	546	512	471
22.5°	657	673	684	688	684	673	657	634	606	573	532
20°	720	739	750	754	750	739	720	694	662	626	586
17.5°	782	805	820	825	820	805	782	752	717	677	633
15°	847	875	891	896	891	875	847	811	770	726	677
12.5°	907	934	950	955	950	934	907	870	821	770	717
10°	956	982	999	1005	999	982	956	918	870	811	752
7.5°	993	1022	1037	1041	1037	1022	993	956	907	847	782
5°	1022	1044	1044	1042	1044	1044	1022	982	934	875	805
2.5°	1037	1044	1031	1022	1031	1044	1037	999	950	891	820
0°	1041	1042	1022	1018	1022	1042	1041	1005	955	896	825
-2.5°	1037	1044	1031	1022	1031	1044	1037	999	950	891	820
-5°	1022	1044	1044	1042	1044	1044	1022	982	934	875	805
-7.5°	993	1022	1037	1041	1037	1022	993	956	907	847	782
-10°	956	982	999	1005	999	982	956	918	870	811	752
-12.5°	907	934	950	955	950	934	907	870	821	770	717
-15°	847	875	891	896	891	875	847	811	770	726	677
-17.5°	782	805	820	825	820	805	782	752	717	677	633
-20°	720	739	750	754	750	739	720	694	662	626	586



REPORT NUMBER: P29424 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-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°	657	673	684	688	684	673	657	634	606	573	532
-25°	594	609	618	621	618	609	594	573	546	512	471
-27.5°	526	541	550	554	550	541	526	505	477	442	401
-30°	448	464	474	477	474	464	448	427	400	369	335
-32.5°	368	381	389	392	389	381	368	350	326	301	274
-35°	294	305	311	313	311	305	294	280	262	241	220
-37.5°	232	240	244	246	244	240	232	220	206	190	174
-40°	178	184	188	189	188	184	178	170	160	147	135
-42.5°	135	139	142	143	142	139	135	129	121	112	102
-45°	100	103	105	106	105	103	100	96	90	84	76
-47.5°	73	75	77	77	77	75	73	70	67	62	57
-50°	53	55	56	56	56	55	53	51	49	46	42
-52.5°	38	39	40	40	40	39	38	37	35	33	30
-55°	27	27	28	28	28	27	27	26	25	23	21
-57.5°	18	19	19	19	19	19	18	18	17	16	15
-60°	13	13	13	13	13	13	13	12	12	11	11
-62.5°	9	9	9	9	9	9	9	8	8	8	7
-65°	6	6	6	6	6	6	6	6	5	5	5
-67.5°	3	3	3	3	3	3	3	3	3	3	3
-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: P29424 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-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°	1	0	0	0	0	0	0	0	0	0	0
70°	1	1	1	1	1	1	1	0	0	0	0
67.5°	2	2	2	2	2	2	1	1	1	1	0
65°	4	4	3	3	3	2	2	2	2	1	1
62.5°	7	6	6	5	4	4	3	3	2	2	2
60°	10	9	8	8	7	6	5	4	3	3	2
57.5°	14	13	12	11	9	8	7	6	5	4	3
55°	19	18	16	14	13	11	10	8	7	6	5
52.5°	28	25	23	20	17	15	13	11	9	8	7
50°	38	35	31	27	24	20	17	15	12	10	8
47.5°	52	47	42	37	32	27	23	19	16	13	11
45°	70	63	55	49	42	36	30	25	20	16	13
42.5°	93	82	72	63	54	46	38	32	26	21	16
40°	121	107	94	81	69	58	49	40	32	26	20
37.5°	156	138	120	103	87	73	60	50	40	32	25
35°	197	174	151	130	109	91	74	60	49	38	30
32.5°	244	216	186	160	134	111	91	73	58	46	36
30°	299	263	228	193	163	134	109	87	69	54	42
27.5°	359	314	273	232	193	160	130	103	81	63	49
25°	422	372	320	273	228	186	151	120	94	72	55
22.5°	485	429	372	314	263	216	174	138	107	82	63
20°	539	485	422	359	299	244	197	156	121	93	70
17.5°	586	532	471	401	335	274	220	174	135	102	76
15°	626	573	512	442	369	301	241	190	147	112	84
12.5°	662	606	546	477	400	326	262	206	160	121	90
10°	694	634	573	505	427	350	280	220	170	129	96
7.5°	720	657	594	526	448	368	294	232	178	135	100
5°	739	673	609	541	464	381	305	240	184	139	103
2.5°	750	684	618	550	474	389	311	244	188	142	105
0°	754	688	621	554	477	392	313	246	189	143	106
-2.5°	750	684	618	550	474	389	311	244	188	142	105
-5°	739	673	609	541	464	381	305	240	184	139	103
-7.5°	720	657	594	526	448	368	294	232	178	135	100
-10°	694	634	573	505	427	350	280	220	170	129	96
-12.5°	662	606	546	477	400	326	262	206	160	121	90
-15°	626	573	512	442	369	301	241	190	147	112	84
-17.5°	586	532	471	401	335	274	220	174	135	102	76
-20°	539	485	422	359	299	244	197	156	121	93	70



REPORT NUMBER: P29424 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-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°	485	429	372	314	263	216	174	138	107	82	63
-25°	422	372	320	273	228	186	151	120	94	72	55
-27.5°	359	314	273	232	193	160	130	103	81	63	49
-30°	299	263	228	193	163	134	109	87	69	54	42
-32.5°	244	216	186	160	134	111	91	73	58	46	36
-35°	197	174	151	130	109	91	74	60	49	38	30
-37.5°	156	138	120	103	87	73	60	50	40	32	25
-40°	121	107	94	81	69	58	49	40	32	26	20
-42.5°	93	82	72	63	54	46	38	32	26	21	16
-45°	70	63	55	49	42	36	30	25	20	16	13
-47.5°	52	47	42	37	32	27	23	19	16	13	11
-50°	38	35	31	27	24	20	17	15	12	10	8
-52.5°	28	25	23	20	17	15	13	11	9	8	7
-55°	19	18	16	14	13	11	10	8	7	6	5
-57.5°	14	13	12	11	9	8	7	6	5	4	3
-60°	10	9	8	8	7	6	5	4	3	3	2
-62.5°	7	6	6	5	4	4	3	3	2	2	2
-65°	4	4	3	3	3	2	2	2	2	1	1
-67.5°	2	2	2	2	2	2	1	1	1	1	0
-70°	1	1	1	1	1	1	1	0	0	0	0
-72.5°	1	0	0	0	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P29424 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-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°	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	1	1	1	0	0	0	0	0	0	0
57.5°	3	2	2	1	1	0	0	0	0	0	0
55°	3	3	2	2	1	1	0	0	0	0	0
52.5°	5	4	3	2	2	1	1	0	0	0	0
50°	7	5	4	3	2	1	1	0	0	0	0
47.5°	9	7	5	3	3	2	1	1	0	0	0
45°	11	8	7	5	3	2	1	1	0	0	0
42.5°	13	10	8	6	4	3	2	1	1	0	0
40°	16	12	9	7	5	3	2	2	1	0	0
37.5°	19	15	11	8	6	4	3	2	1	0	0
35°	23	17	13	10	7	5	3	2	1	1	0
32.5°	27	20	15	11	8	6	4	2	2	1	0
30°	32	24	17	13	9	7	4	3	2	1	0
27.5°	37	27	20	14	11	8	5	3	2	1	0
25°	42	31	23	16	12	8	6	3	2	1	0
22.5°	47	35	25	18	13	9	6	4	2	1	0
20°	52	38	28	19	14	10	7	4	2	1	1
17.5°	57	42	30	21	15	11	7	5	3	2	1
15°	62	46	33	23	16	11	8	5	3	2	1
12.5°	67	49	35	25	17	12	8	5	3	2	1
10°	70	51	37	26	18	12	8	6	3	2	1
7.5°	73	53	38	27	18	13	9	6	3	2	1
5°	75	55	39	27	19	13	9	6	3	2	1
2.5°	77	56	40	28	19	13	9	6	3	2	1
0°	77	56	40	28	19	13	9	6	3	2	1
-2.5°	77	56	40	28	19	13	9	6	3	2	1
-5°	75	55	39	27	19	13	9	6	3	2	1
-7.5°	73	53	38	27	18	13	9	6	3	2	1
-10°	70	51	37	26	18	12	8	6	3	2	1
-12.5°	67	49	35	25	17	12	8	5	3	2	1
-15°	62	46	33	23	16	11	8	5	3	2	1
-17.5°	57	42	30	21	15	11	7	5	3	2	1
-20°	52	38	28	19	14	10	7	4	2	1	1



REPORT NUMBER: P29424 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-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°	47	35	25	18	13	9	6	4	2	1	0
-25°	42	31	23	16	12	8	6	3	2	1	0
-27.5°	37	27	20	14	11	8	5	3	2	1	0
-30°	32	24	17	13	9	7	4	3	2	1	0
-32.5°	27	20	15	11	8	6	4	2	2	1	0
-35°	23	17	13	10	7	5	3	2	1	1	0
-37.5°	19	15	11	8	6	4	3	2	1	0	0
-40°	16	12	9	7	5	3	2	2	1	0	0
-42.5°	13	10	8	6	4	3	2	1	1	0	0
-45°	11	8	7	5	3	2	2	1	0	0	0
-47.5°	9	7	5	3	3	2	1	1	0	0	0
-50°	7	5	4	3	2	1	1	0	0	0	0
-52.5°	5	4	3	2	2	1	1	0	0	0	0
-55°	3	3	2	2	1	1	0	0	0	0	0
-57.5°	3	2	2	1	1	0	0	0	0	0	0
-60°	2	1	1	1	0	0	0	0	0	0	0
-62.5°	1	1	1	0	0	0	0	0	0	0	0
-65°	1	0	0	0	0	0	0	0	0	0	0
-67.5°	0	0	0	0	0	0	0	0	0	0	0
-70°	0	0	0	0	0	0	0	0	0	0	0
-72.5°	0	0	0	0	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P29424 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-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: P29424 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-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)