

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: P247008 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **203-8LED2710-12-BK-DIFF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P247008 (CONVERTED FROM TYPE C PHOTOMETRY)
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-24)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 203-8LED2710-12-BK-DIFF
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 2700K CCT, 10 DEGREE SPOT OPTIC,
REGRESSED HOOD BLACK, DIFFUSED LENS
Light Source: (1) SORAA 2700K 95 CRI 10°NSP LED
SM16-07-10D-927-03
Ballast/Driver: CHROMA POWER SUPPLY IN0004

Summary

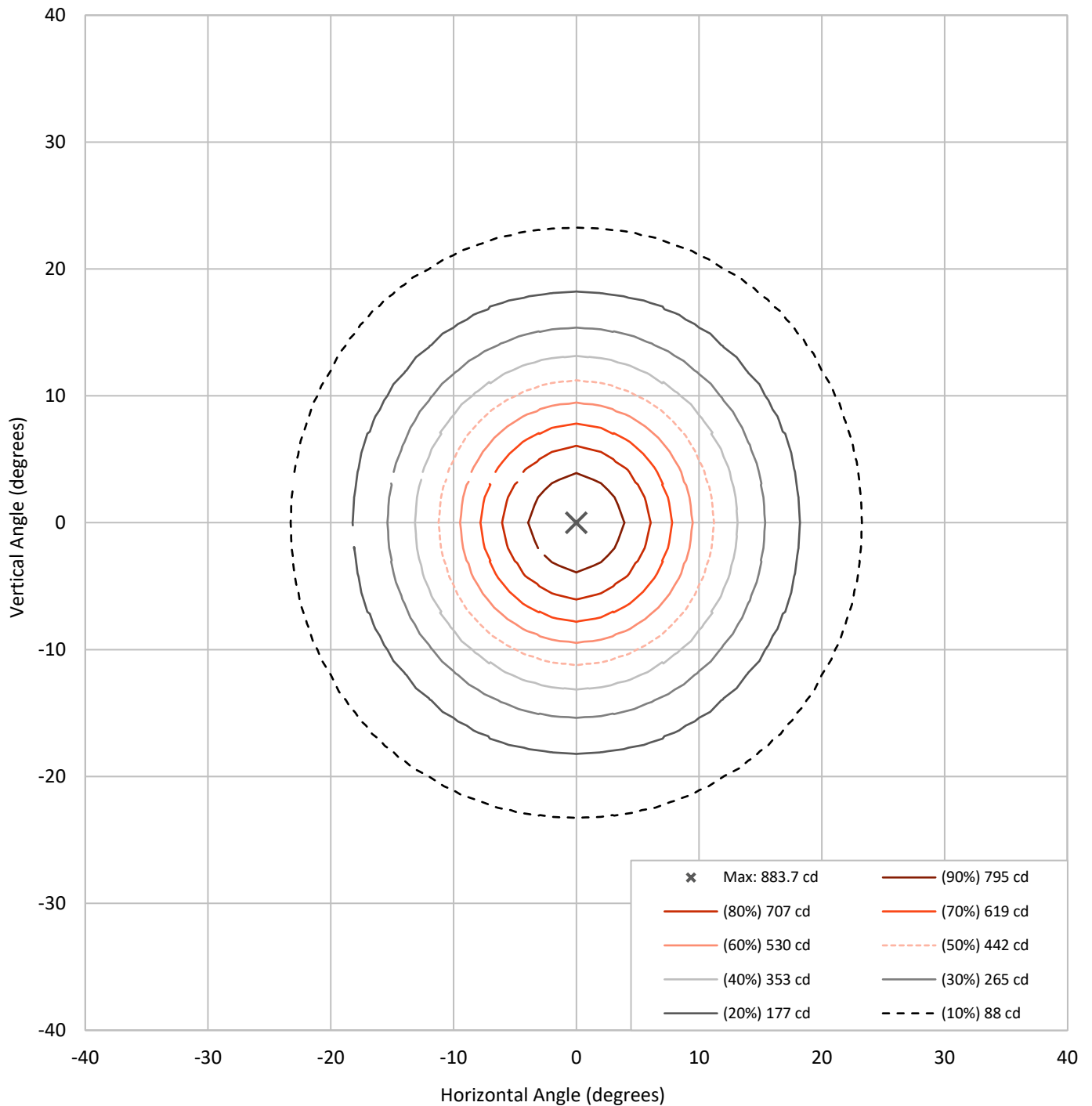
Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	200.4 lumens	Max Intensity:	883.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	25.1 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	22.4°H x 22.4°V	Field Angle (10%):	46.4°H x 46.4°V
Beam Lumens:	71.8 lumens	Field Lumens:	155 lumens
Beam Efficiency:	35.8%	Field Efficiency:	77.4%
Input Watts (W):	8		
Input Voltage (V):	NR		
Input Current (A _{in}):	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: P247008 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 203-8LED2710-12-BK-DIFF

Iso-Candela Plot



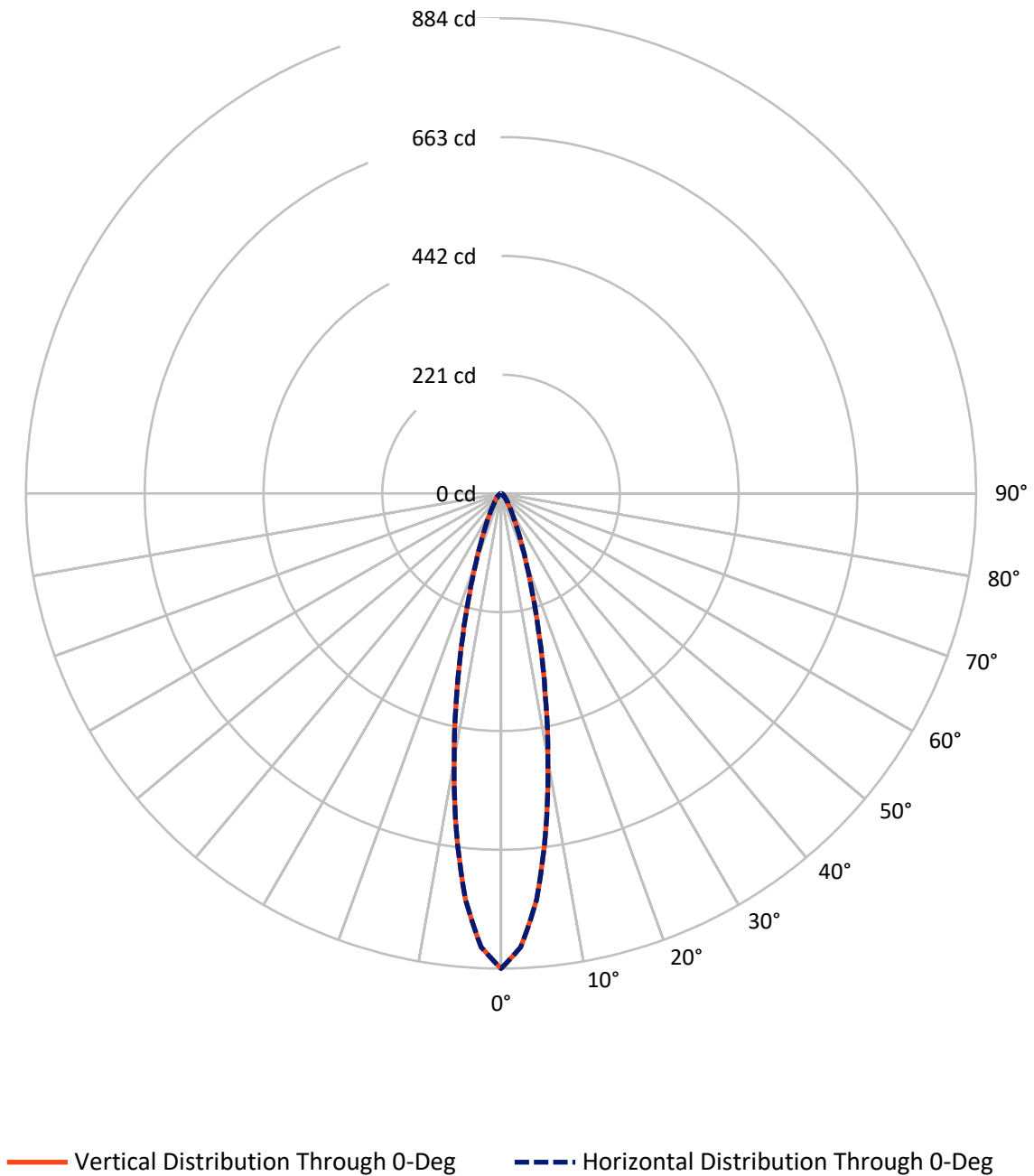
REPORT NUMBER: P247008 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED2710-12-BK-DIFF

Lumen Table

90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60		0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0		
50	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.3	0.3	0.2	0.1	0.0	0.0	0.0	0.0	
40		0.0	0.0	0.1	0.2	0.4	0.6	0.7	0.7	0.6	0.4	0.2	0.1	0.0	0.0		
30	0.0	0.0	0.0	0.1	0.3	0.7	1.3	2.1	2.1	1.3	0.7	0.3	0.1	0.0	0.0	0.0	
20		0.0	0.0	0.2	0.5	1.3	3.7	7.7	7.7	3.7	1.3	0.5	0.2	0.0	0.0		
10	0.0	0.0	0.1	0.2	0.6	1.9	7.5	18.7	18.7	7.5	1.9	0.6	0.2	0.1	0.0	0.0	
0		0.0	0.1	0.2	0.6	1.9	7.5	18.7	18.7	7.5	1.9	0.6	0.2	0.1	0.0		
-10	0.0	0.0	0.1	0.2	0.6	1.9	7.5	18.7	18.7	7.5	1.9	0.6	0.2	0.1	0.0	0.0	
-20		0.0	0.0	0.2	0.5	1.3	3.7	7.7	7.7	3.7	1.3	0.5	0.2	0.0	0.0		
-30	0.0	0.0	0.0	0.1	0.3	0.7	1.3	2.1	2.1	1.3	0.7	0.3	0.1	0.0	0.0	0.0	
-40		0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.3	0.3	0.2	0.1	0.0	0.0	0.0		
-50	0.0	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	
-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		
-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	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	

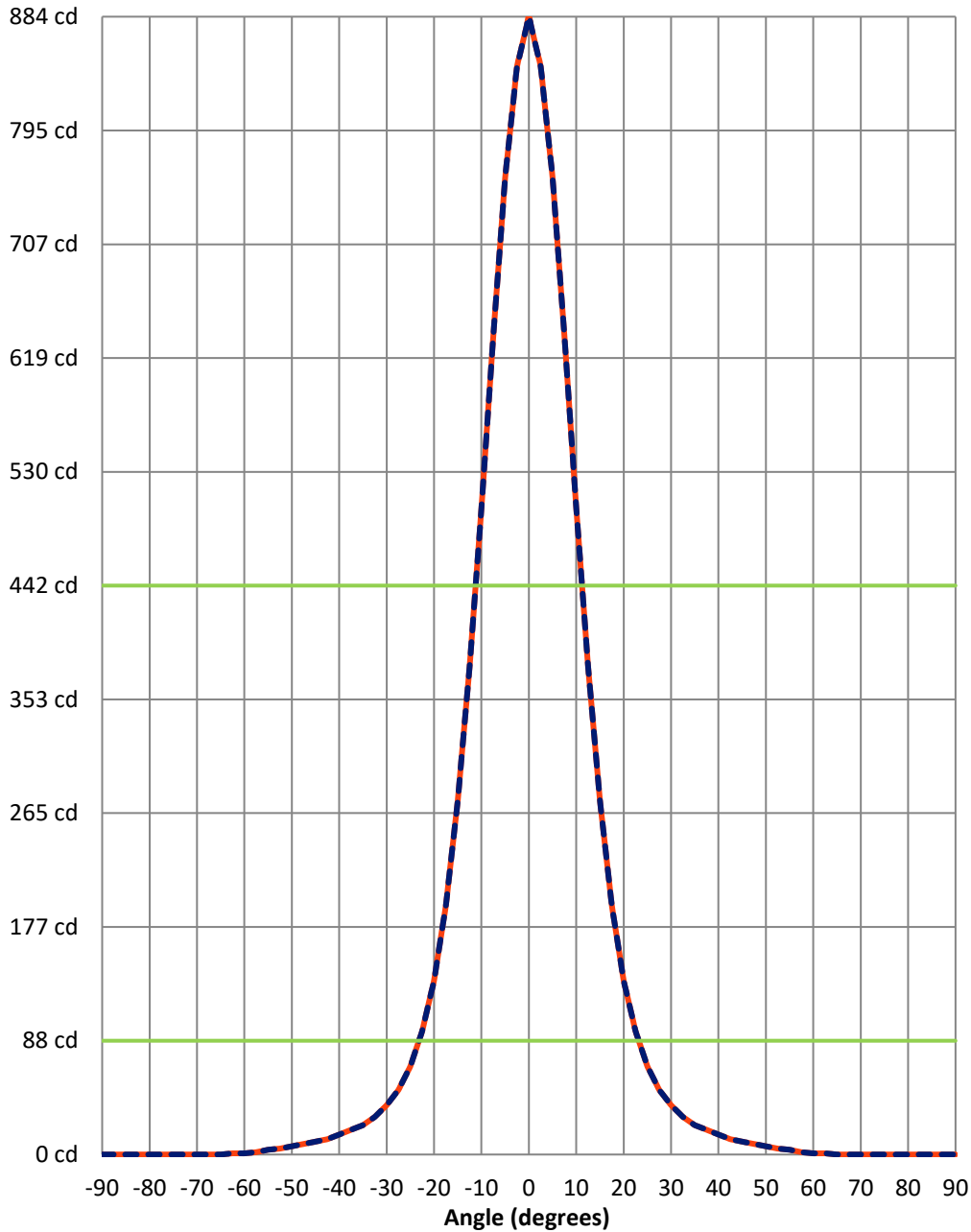
REPORT NUMBER: P247008 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 203-8LED2710-12-BK-DIFF

Luminous Intensity Polar Plot



REPORT NUMBER: P247008 (CONVERTED FROM TYPE C PHOTOMETRY)
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Luminous Intensity Plot



Beam:
 H Angle: 22.4°
 V Angle: 22.4°
 Lumens: 71.8
 Efficiency: 35.8%

Field:
 H Angle: 46.4°
 V Angle: 46.4°
 Lumens: 155
 Efficiency: 77.4%

Spill:
 Lumens: 45.4
 Efficiency: 22.6%

— Vertical Distribution through 0-Deg
 - - Horizontal Distribution through 0-Deg



REPORT NUMBER: P247008 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED2710-12-BK-DIFF

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: P247008 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 203-8LED2710-12-BK-DIFF

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: P247008 (CONVERTED FROM TYPE C PHOTOMETRY)
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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	1
52.5°	0	0	0	0	0	0	0	0	1	1	1
50°	0	0	0	0	0	0	0	1	1	1	1
47.5°	0	0	0	0	0	0	1	1	1	1	2
45°	0	0	0	0	0	1	1	1	1	2	3
42.5°	0	0	0	0	1	1	1	1	2	3	4
40°	0	0	0	0	1	1	1	2	3	4	5
37.5°	0	0	0	1	1	1	2	3	4	5	6
35°	0	0	0	1	1	2	3	4	4	6	7
32.5°	0	0	1	1	1	2	3	4	5	7	8
30°	0	0	1	1	2	3	4	5	6	8	9
27.5°	0	0	1	1	2	4	4	6	7	8	10
25°	0	1	1	1	3	4	5	6	8	9	11
22.5°	0	1	1	2	3	4	5	7	9	10	12
20°	0	1	1	2	4	4	6	8	9	11	13
17.5°	0	1	1	2	4	5	6	8	10	11	14
15°	1	1	1	3	4	5	7	9	10	12	16
12.5°	1	1	1	3	4	6	7	9	11	13	17
10°	1	1	2	3	4	6	8	9	11	14	18
7.5°	1	1	2	3	4	6	8	10	11	15	18
5°	1	1	2	4	5	6	8	10	12	15	19
2.5°	1	1	2	4	5	6	8	10	12	15	19
0°	1	1	2	4	5	6	8	10	12	16	19
-2.5°	1	1	2	4	5	6	8	10	12	15	19
-5°	1	1	2	4	5	6	8	10	12	15	19
-7.5°	1	1	2	3	4	6	8	10	11	15	18
-10°	1	1	2	3	4	6	8	9	11	14	18
-12.5°	1	1	1	3	4	6	7	9	11	13	17
-15°	1	1	1	3	4	5	7	9	10	12	16
-17.5°	0	1	1	2	4	5	6	8	10	11	14
-20°	0	1	1	2	4	4	6	8	9	11	13



REPORT NUMBER: P247008 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED2710-12-BK-DIFF

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	0	1	1	2	3	4	5	7	9	10	12
-25°	0	1	1	1	3	4	5	6	8	9	11
-27.5°	0	0	1	1	2	4	4	6	7	8	10
-30°	0	0	1	1	2	3	4	5	6	8	9
-32.5°	0	0	1	1	1	2	3	4	5	7	8
-35°	0	0	0	1	1	2	3	4	4	6	7
-37.5°	0	0	0	1	1	1	2	3	4	5	6
-40°	0	0	0	0	1	1	1	2	3	4	5
-42.5°	0	0	0	0	1	1	1	1	2	3	4
-45°	0	0	0	0	0	1	1	1	1	2	3
-47.5°	0	0	0	0	0	0	1	1	1	1	2
-50°	0	0	0	0	0	0	0	1	1	1	1
-52.5°	0	0	0	0	0	0	0	0	1	1	1
-55°	0	0	0	0	0	0	0	0	0	0	1
-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: P247008 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED2710-12-BK-DIFF

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	1	1	1
60°	0	0	0	0	1	1	1	1	1	1	1
57.5°	0	1	1	1	1	1	1	1	1	1	2
55°	1	1	1	1	1	2	2	2	3	3	3
52.5°	1	1	2	2	3	3	4	4	4	4	4
50°	2	2	3	4	4	4	4	5	5	6	6
47.5°	3	3	4	4	5	5	6	6	7	7	8
45°	4	4	5	6	6	7	8	8	9	9	9
42.5°	4	5	6	7	8	9	9	10	10	11	11
40°	6	7	8	8	9	10	11	11	12	13	14
37.5°	7	8	9	10	11	12	13	14	16	17	18
35°	8	9	10	11	13	14	16	18	19	20	21
32.5°	9	10	11	13	15	17	19	21	22	24	26
30°	10	11	13	16	18	20	22	25	27	30	33
27.5°	11	13	16	18	21	23	27	30	35	38	42
25°	13	15	18	21	23	28	32	38	44	49	55
22.5°	14	17	20	23	28	33	39	47	55	64	74
20°	16	19	22	27	32	39	48	59	71	86	100
17.5°	18	21	25	30	38	47	59	73	92	113	134
15°	19	22	27	35	44	55	71	92	118	148	183
12.5°	20	24	30	38	49	64	86	113	148	191	244
10°	21	26	33	42	55	74	100	134	183	244	312
7.5°	22	27	35	46	61	83	115	159	218	294	380
5°	22	28	37	48	65	90	126	178	249	339	444
2.5°	23	29	38	50	68	94	133	189	268	369	487
0°	23	29	38	50	69	96	135	194	275	379	502
-2.5°	23	29	38	50	68	94	133	189	268	369	487
-5°	22	28	37	48	65	90	126	178	249	339	444
-7.5°	22	27	35	46	61	83	115	159	218	294	380
-10°	21	26	33	42	55	74	100	134	183	244	312
-12.5°	20	24	30	38	49	64	86	113	148	191	244
-15°	19	22	27	35	44	55	71	92	118	148	183
-17.5°	18	21	25	30	38	47	59	73	92	113	134
-20°	16	19	22	27	32	39	48	59	71	86	100



REPORT NUMBER: P247008 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED2710-12-BK-DIFF

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	14	17	20	23	28	33	39	47	55	64	74
-25°	13	15	18	21	23	28	32	38	44	49	55
-27.5°	11	13	16	18	21	23	27	30	35	38	42
-30°	10	11	13	16	18	20	22	25	27	30	33
-32.5°	9	10	11	13	15	17	19	21	22	24	26
-35°	8	9	10	11	13	14	16	18	19	20	21
-37.5°	7	8	9	10	11	12	13	14	16	17	18
-40°	6	7	8	8	9	10	11	11	12	13	14
-42.5°	4	5	6	7	8	9	9	10	10	11	11
-45°	4	4	5	6	6	7	8	8	9	9	9
-47.5°	3	3	4	4	5	5	6	6	7	7	8
-50°	2	2	3	4	4	4	4	5	5	6	6
-52.5°	1	1	2	2	3	3	4	4	4	4	4
-55°	1	1	1	1	1	2	2	2	3	3	3
-57.5°	0	1	1	1	1	1	1	1	1	1	2
-60°	0	0	0	0	1	1	1	1	1	1	1
-62.5°	0	0	0	0	0	0	0	0	1	1	1
-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: P247008 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED2710-12-BK-DIFF

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°	1	1	1	1	1	1	1	1	1	1	0
60°	1	1	1	1	1	1	1	1	1	1	1
57.5°	2	2	2	2	2	2	2	2	1	1	1
55°	3	4	4	4	4	4	3	3	3	3	2
52.5°	4	5	5	5	5	5	4	4	4	4	4
50°	6	6	6	6	6	6	6	6	6	5	5
47.5°	8	8	8	8	8	8	8	8	7	7	6
45°	10	10	10	10	10	10	10	9	9	9	8
42.5°	11	12	12	12	12	12	11	11	11	10	10
40°	15	15	15	16	15	15	15	14	13	12	11
37.5°	18	19	19	19	19	19	18	18	17	16	14
35°	22	22	23	23	23	22	22	21	20	19	18
32.5°	27	28	29	29	29	28	27	26	24	22	21
30°	35	37	38	38	38	37	35	33	30	27	25
27.5°	46	48	50	50	50	48	46	42	38	35	30
25°	61	65	68	69	68	65	61	55	49	44	38
22.5°	83	90	94	96	94	90	83	74	64	55	47
20°	115	126	133	135	133	126	115	100	86	71	59
17.5°	159	178	189	194	189	178	159	134	113	92	73
15°	218	249	268	275	268	249	218	183	148	118	92
12.5°	294	339	369	379	369	339	294	244	191	148	113
10°	380	444	487	502	487	444	380	312	244	183	134
7.5°	473	556	614	636	614	556	473	380	294	218	159
5°	556	659	732	759	732	659	556	444	339	249	178
2.5°	614	732	814	845	814	732	614	487	369	268	189
0°	636	759	845	884	845	759	636	502	379	275	194
-2.5°	614	732	814	845	814	732	614	487	369	268	189
-5°	556	659	732	759	732	659	556	444	339	249	178
-7.5°	473	556	614	636	614	556	473	380	294	218	159
-10°	380	444	487	502	487	444	380	312	244	183	134
-12.5°	294	339	369	379	369	339	294	244	191	148	113
-15°	218	249	268	275	268	249	218	183	148	118	92
-17.5°	159	178	189	194	189	178	159	134	113	92	73
-20°	115	126	133	135	133	126	115	100	86	71	59



REPORT NUMBER: P247008 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED2710-12-BK-DIFF

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	83	90	94	96	94	90	83	74	64	55	47
-25°	61	65	68	69	68	65	61	55	49	44	38
-27.5°	46	48	50	50	50	48	46	42	38	35	30
-30°	35	37	38	38	38	37	35	33	30	27	25
-32.5°	27	28	29	29	29	28	27	26	24	22	21
-35°	22	22	23	23	23	22	22	21	20	19	18
-37.5°	18	19	19	19	19	19	18	18	17	16	14
-40°	15	15	15	16	15	15	15	14	13	12	11
-42.5°	11	12	12	12	12	12	11	11	11	10	10
-45°	10	10	10	10	10	10	10	9	9	9	8
-47.5°	8	8	8	8	8	8	8	8	7	7	6
-50°	6	6	6	6	6	6	6	6	6	5	5
-52.5°	4	5	5	5	5	5	4	4	4	4	4
-55°	3	4	4	4	4	4	3	3	3	3	2
-57.5°	2	2	2	2	2	2	2	2	1	1	1
-60°	1	1	1	1	1	1	1	1	1	1	1
-62.5°	1	1	1	1	1	1	1	1	1	1	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: P247008 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED2710-12-BK-DIFF

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°	1	1	1	0	0	0	0	0	0	0	0
57.5°	1	1	1	1	1	1	0	0	0	0	0
55°	2	2	1	1	1	1	1	1	0	0	0
52.5°	4	3	3	2	2	1	1	1	1	1	0
50°	4	4	4	4	3	2	2	1	1	1	1
47.5°	6	5	5	4	4	3	3	2	1	1	1
45°	8	7	6	6	5	4	4	3	2	1	1
42.5°	9	9	8	7	6	5	4	4	3	2	1
40°	11	10	9	8	8	7	6	5	4	3	2
37.5°	13	12	11	10	9	8	7	6	5	4	3
35°	16	14	13	11	10	9	8	7	6	4	4
32.5°	19	17	15	13	11	10	9	8	7	5	4
30°	22	20	18	16	13	11	10	9	8	6	5
27.5°	27	23	21	18	16	13	11	10	8	7	6
25°	32	28	23	21	18	15	13	11	9	8	6
22.5°	39	33	28	23	20	17	14	12	10	9	7
20°	48	39	32	27	22	19	16	13	11	9	8
17.5°	59	47	38	30	25	21	18	14	11	10	8
15°	71	55	44	35	27	22	19	16	12	10	9
12.5°	86	64	49	38	30	24	20	17	13	11	9
10°	100	74	55	42	33	26	21	18	14	11	9
7.5°	115	83	61	46	35	27	22	18	15	11	10
5°	126	90	65	48	37	28	22	19	15	12	10
2.5°	133	94	68	50	38	29	23	19	15	12	10
0°	135	96	69	50	38	29	23	19	16	12	10
-2.5°	133	94	68	50	38	29	23	19	15	12	10
-5°	126	90	65	48	37	28	22	19	15	12	10
-7.5°	115	83	61	46	35	27	22	18	15	11	10
-10°	100	74	55	42	33	26	21	18	14	11	9
-12.5°	86	64	49	38	30	24	20	17	13	11	9
-15°	71	55	44	35	27	22	19	16	12	10	9
-17.5°	59	47	38	30	25	21	18	14	11	10	8
-20°	48	39	32	27	22	19	16	13	11	9	8



REPORT NUMBER: P247008 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED2710-12-BK-DIFF

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	39	33	28	23	20	17	14	12	10	9	7
-25°	32	28	23	21	18	15	13	11	9	8	6
-27.5°	27	23	21	18	16	13	11	10	8	7	6
-30°	22	20	18	16	13	11	10	9	8	6	5
-32.5°	19	17	15	13	11	10	9	8	7	5	4
-35°	16	14	13	11	10	9	8	7	6	4	4
-37.5°	13	12	11	10	9	8	7	6	5	4	3
-40°	11	10	9	8	8	7	6	5	4	3	2
-42.5°	9	9	8	7	6	5	4	4	3	2	1
-45°	8	7	6	6	5	4	4	3	2	1	1
-47.5°	6	5	5	4	4	3	3	2	1	1	1
-50°	4	4	4	4	3	2	2	1	1	1	1
-52.5°	4	3	3	2	2	1	1	1	1	1	0
-55°	2	2	1	1	1	1	1	1	0	0	0
-57.5°	1	1	1	1	1	1	0	0	0	0	0
-60°	1	1	1	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: P247008 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED2710-12-BK-DIFF

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°	1	0	0	0	0	0	0	0	0	0	0
45°	1	1	0	0	0	0	0	0	0	0	0
42.5°	1	1	1	0	0	0	0	0	0	0	0
40°	1	1	1	0	0	0	0	0	0	0	0
37.5°	2	1	1	1	0	0	0	0	0	0	0
35°	3	2	1	1	0	0	0	0	0	0	0
32.5°	3	2	1	1	1	0	0	0	0	0	0
30°	4	3	2	1	1	0	0	0	0	0	0
27.5°	4	4	2	1	1	0	0	0	0	0	0
25°	5	4	3	1	1	1	0	0	0	0	0
22.5°	5	4	3	2	1	1	0	0	0	0	0
20°	6	4	4	2	1	1	0	0	0	0	0
17.5°	6	5	4	2	1	1	0	0	0	0	0
15°	7	5	4	3	1	1	1	0	0	0	0
12.5°	7	6	4	3	1	1	1	0	0	0	0
10°	8	6	4	3	2	1	1	0	0	0	0
7.5°	8	6	4	3	2	1	1	0	0	0	0
5°	8	6	5	4	2	1	1	0	0	0	0
2.5°	8	6	5	4	2	1	1	0	0	0	0
0°	8	6	5	4	2	1	1	0	0	0	0
-2.5°	8	6	5	4	2	1	1	0	0	0	0
-5°	8	6	5	4	2	1	1	0	0	0	0
-7.5°	8	6	4	3	2	1	1	0	0	0	0
-10°	8	6	4	3	2	1	1	0	0	0	0
-12.5°	7	6	4	3	1	1	1	0	0	0	0
-15°	7	5	4	3	1	1	1	0	0	0	0
-17.5°	6	5	4	2	1	1	0	0	0	0	0
-20°	6	4	4	2	1	1	0	0	0	0	0



REPORT NUMBER: P247008 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED2710-12-BK-DIFF

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	5	4	3	2	1	1	0	0	0	0	0
-25°	5	4	3	1	1	1	0	0	0	0	0
-27.5°	4	4	2	1	1	0	0	0	0	0	0
-30°	4	3	2	1	1	0	0	0	0	0	0
-32.5°	3	2	1	1	1	0	0	0	0	0	0
-35°	3	2	1	1	0	0	0	0	0	0	0
-37.5°	2	1	1	1	0	0	0	0	0	0	0
-40°	1	1	1	0	0	0	0	0	0	0	0
-42.5°	1	1	1	0	0	0	0	0	0	0	0
-45°	1	1	0	0	0	0	0	0	0	0	0
-47.5°	1	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: P247008 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED2710-12-BK-DIFF

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: P247008 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 203-8LED2710-12-BK-DIFF

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)