

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: P247015 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **203-8LED2710-12-CS-OSL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P247015 (CONVERTED FROM TYPE C PHOTOMETRY)
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-39)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 203-8LED2710-12-CS-OSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 2700K CCT, 10 DEGREE SPOT OPTIC,
REGRESSED HOOD SILVER, OVERALL SPREAD LENS
Light Source: (1) SORAA 2700K 95 CRI 10° NSP LED
SM16-07-10D-927-03
Ballast/Driver: CHROMA POWER SUPPLY IN0004

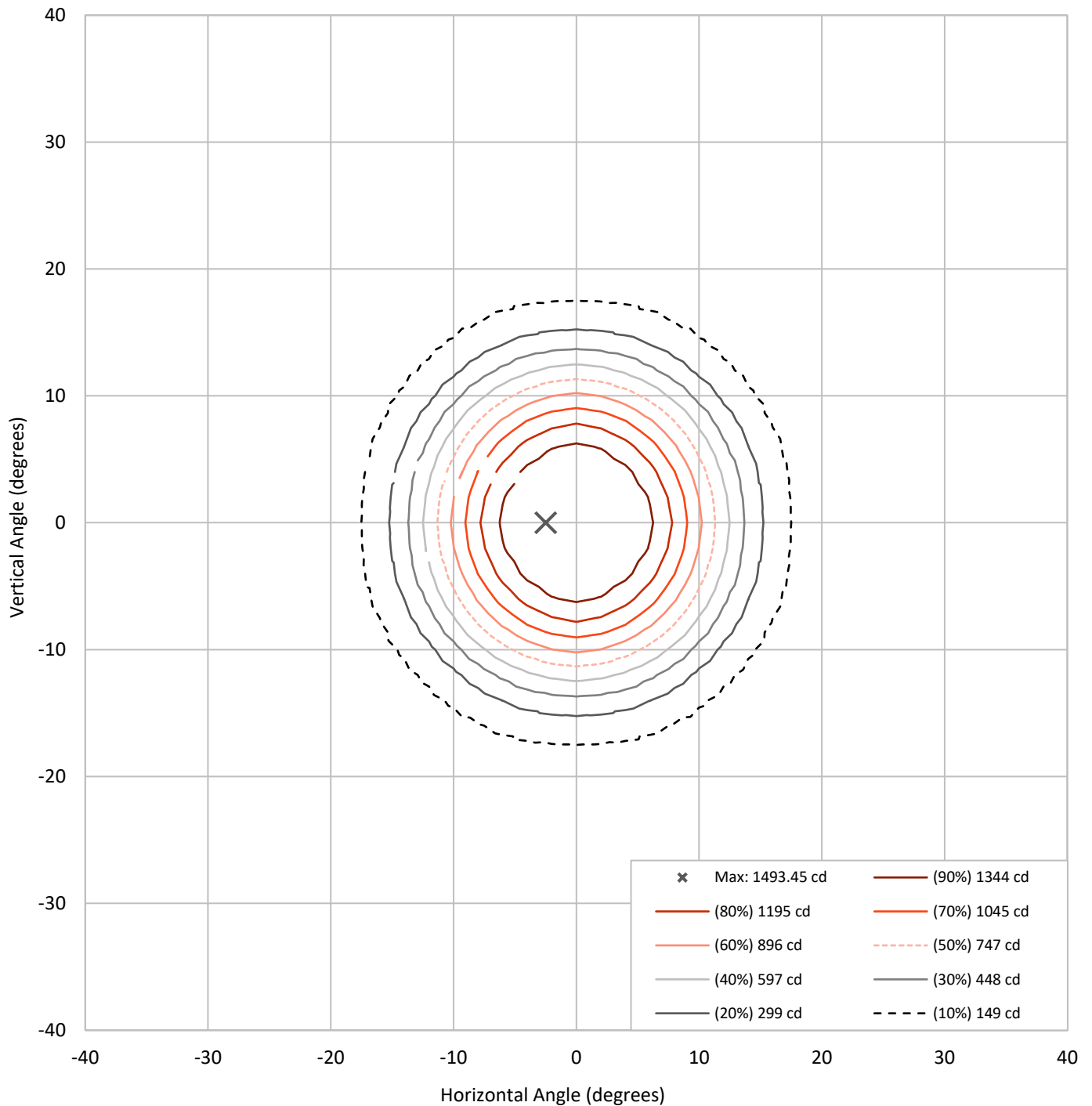
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	264.4 lumens	Max Intensity:	1493.4 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	35.3 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	22.7°H x 22.1°V	Field Angle (10%):	34.5°H x 34.4°V
Beam Lumens:	134.3 lumens	Field Lumens:	204.7 lumens
Beam Efficiency:	50.8%	Field Efficiency:	77.4%
Input Watts (W):	7.5		
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: P247015 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 203-8LED2710-12-CS-OSL

Iso-Candela Plot





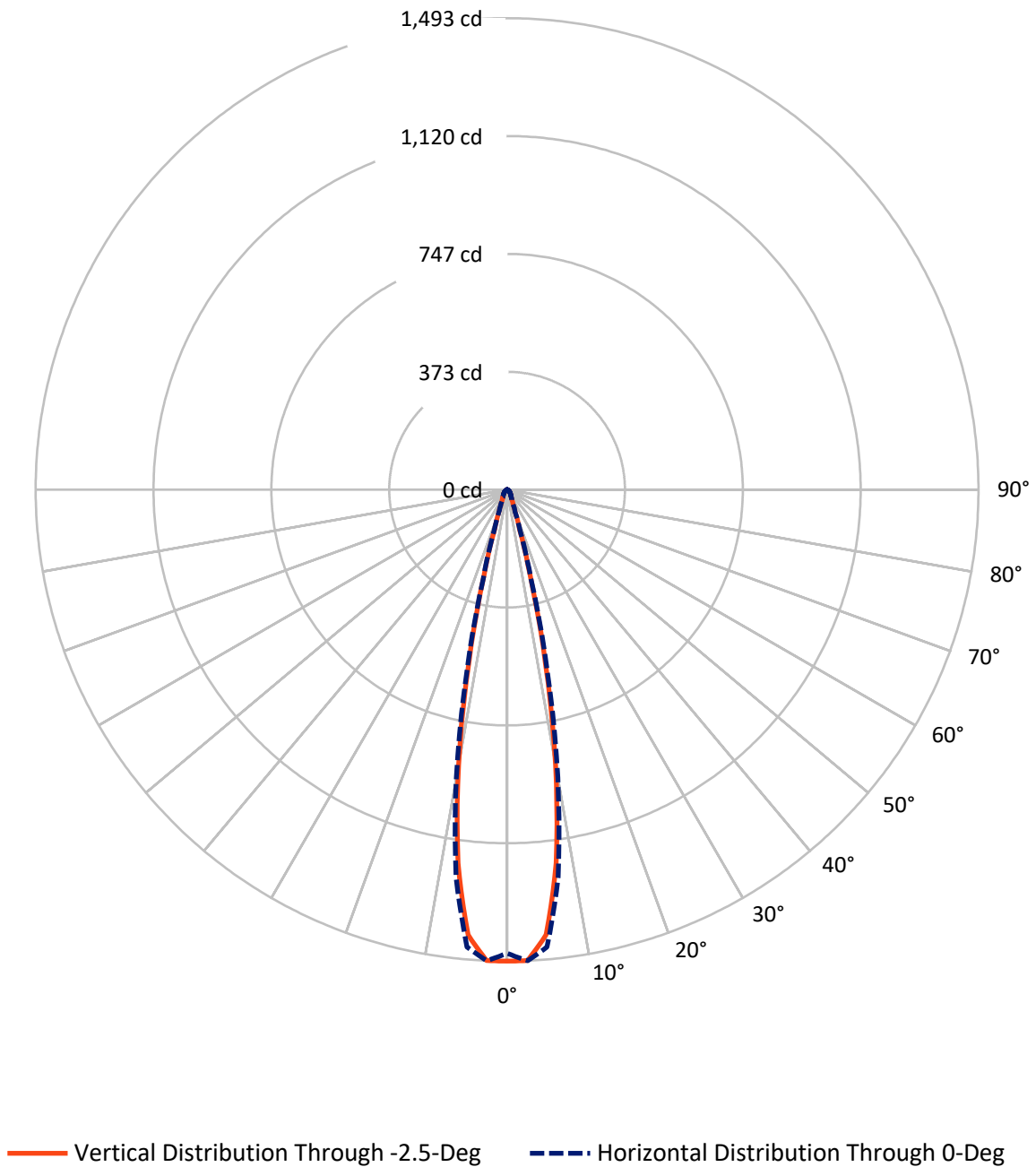
REPORT NUMBER: P247015 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED2710-12-CS-OSL

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	0.1	0.1	0.0	0.0	0.0	0.0	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		
50	0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.4	0.4	0.3	0.3	0.2	0.1	0.0	0.0	0.0	
40		0.0	0.0	0.1	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.1	0.0	0.0		
30	0.0	0.0	0.1	0.2	0.4	0.6	0.8	1.2	1.2	0.8	0.6	0.4	0.2	0.1	0.0	0.0	
20		0.0	0.1	0.3	0.5	0.8	2.4	9.0	9.0	2.4	0.8	0.5	0.3	0.1	0.0		
10	0.0	0.0	0.1	0.3	0.5	1.1	8.8	34.7	34.7	8.8	1.1	0.5	0.3	0.1	0.0	0.0	
0		0.0	0.1	0.3	0.5	1.1	8.8	34.7	34.7	8.8	1.1	0.5	0.3	0.1	0.0		
-10	0.0	0.0	0.1	0.3	0.5	0.8	2.4	9.0	9.0	2.4	0.8	0.5	0.3	0.1	0.0	0.0	
-20		0.0	0.1	0.2	0.4	0.6	0.8	1.2	1.2	0.8	0.6	0.4	0.2	0.1	0.0		
-30	0.0	0.0	0.0	0.1	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.1	0.0	0.0	0.0	
-40		0.0	0.0	0.1	0.2	0.3	0.3	0.4	0.4	0.3	0.3	0.2	0.1	0.0	0.0		
-50	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	0.0	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	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	

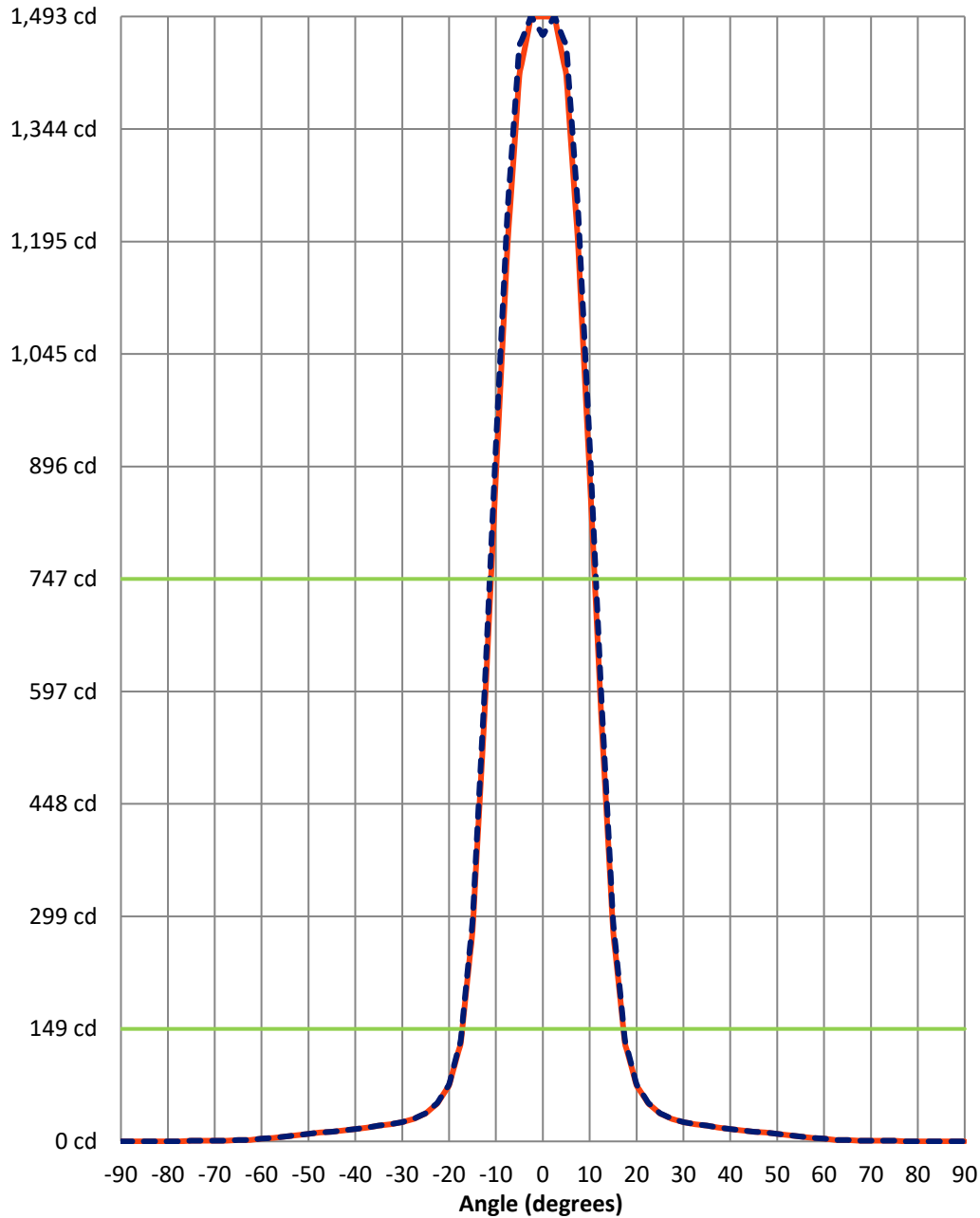
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 22.7°
 V Angle: 22.1°
 Lumens: 134.3
 Efficiency: 50.8%

Field:
 H Angle: 34.5°
 V Angle: 34.4°
 Lumens: 204.7
 Efficiency: 77.4%

Spill:
 Lumens: 59.7
 Efficiency: 22.6%

— Vertical Distribution through -2.5-Deg
 - - Horizontal Distribution through 0-Deg



REPORT NUMBER: P247015 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED2710-12-CS-OSL

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	1
52.5°	0	0	0	0	0	0	0	0	0	0	1
50°	0	0	0	0	0	0	0	0	0	1	1
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	0	1	1	1
40°	0	0	0	0	0	0	0	0	1	1	1
37.5°	0	0	0	0	0	0	0	0	1	1	1
35°	0	0	0	0	0	0	0	1	1	1	1
32.5°	0	0	0	0	0	0	0	1	1	1	1
30°	0	0	0	0	0	0	0	1	1	1	1
27.5°	0	0	0	0	0	0	0	1	1	1	1
25°	0	0	0	0	0	0	0	1	1	1	1
22.5°	0	0	0	0	0	0	0	1	1	1	1
20°	0	0	0	0	0	0	1	1	1	1	1
17.5°	0	0	0	0	0	0	1	1	1	1	1
15°	0	0	0	0	0	0	1	1	1	1	1
12.5°	0	0	0	0	0	0	1	1	1	1	2
10°	0	0	0	0	0	0	1	1	1	1	2
7.5°	0	0	0	0	0	0	1	1	1	1	2
5°	0	0	0	0	0	0	1	1	1	1	2
2.5°	0	0	0	0	0	0	1	1	1	1	2
0°	0	0	0	0	0	0	1	1	1	1	2
-2.5°	0	0	0	0	0	0	1	1	1	1	2
-5°	0	0	0	0	0	0	1	1	1	1	2
-7.5°	0	0	0	0	0	0	1	1	1	1	2
-10°	0	0	0	0	0	0	1	1	1	1	2
-12.5°	0	0	0	0	0	0	1	1	1	1	2
-15°	0	0	0	0	0	0	1	1	1	1	1
-17.5°	0	0	0	0	0	0	1	1	1	1	1
-20°	0	0	0	0	0	0	1	1	1	1	1



REPORT NUMBER: P247015 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED2710-12-CS-OSL

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	1	1	1	1
-25°	0	0	0	0	0	0	0	1	1	1	1
-27.5°	0	0	0	0	0	0	0	1	1	1	1
-30°	0	0	0	0	0	0	0	1	1	1	1
-32.5°	0	0	0	0	0	0	0	1	1	1	1
-35°	0	0	0	0	0	0	0	1	1	1	1
-37.5°	0	0	0	0	0	0	0	0	1	1	1
-40°	0	0	0	0	0	0	0	0	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	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	1	1
-52.5°	0	0	0	0	0	0	0	0	0	0	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: P247015 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED2710-12-CS-OSL

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	1	1	1	1
67.5°	0	0	0	0	0	1	1	1	1	1	1
65°	0	0	0	1	1	1	1	1	1	1	1
62.5°	0	0	1	1	1	1	1	1	1	1	1
60°	0	1	1	1	1	1	1	1	1	1	1
57.5°	1	1	1	1	1	1	1	1	1	2	2
55°	1	1	1	1	1	1	1	1	2	2	2
52.5°	1	1	1	1	1	1	2	2	2	2	3
50°	1	1	1	1	1	2	2	2	2	3	4
47.5°	1	1	1	1	2	2	2	3	4	4	5
45°	1	1	1	1	2	2	3	4	4	5	6
42.5°	1	1	1	2	2	2	4	4	5	6	7
40°	1	1	2	2	2	3	4	5	6	7	8
37.5°	1	1	2	2	3	4	5	6	7	8	9
35°	1	2	2	2	4	4	5	7	8	9	10
32.5°	1	2	2	3	4	5	6	8	9	10	12
30°	1	2	2	4	4	6	7	8	10	11	12
27.5°	2	2	3	4	5	6	8	9	11	12	13
25°	2	2	3	4	5	7	8	10	11	12	14
22.5°	2	2	4	4	6	7	9	11	12	13	14
20°	2	2	4	5	6	8	10	11	12	14	15
17.5°	2	3	4	5	7	8	10	12	13	14	16
15°	2	3	4	5	7	9	11	12	13	15	16
12.5°	2	3	4	6	7	9	11	12	14	15	17
10°	2	3	4	6	8	9	11	12	14	16	17
7.5°	2	3	4	6	8	10	12	13	14	16	18
5°	2	4	5	6	8	10	12	13	14	16	18
2.5°	2	4	5	6	8	10	12	13	15	16	18
0°	2	4	5	6	8	10	12	13	15	16	18
-2.5°	2	4	5	6	8	10	12	13	15	16	18
-5°	2	4	5	6	8	10	12	13	14	16	18
-7.5°	2	3	4	6	8	10	12	13	14	16	18
-10°	2	3	4	6	8	9	11	12	14	16	17
-12.5°	2	3	4	6	7	9	11	12	14	15	17
-15°	2	3	4	5	7	9	11	12	13	15	16
-17.5°	2	3	4	5	7	8	10	12	13	14	16
-20°	2	2	4	5	6	8	10	11	12	14	15



REPORT NUMBER: P247015 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED2710-12-CS-OSL

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	2	2	4	4	6	7	9	11	12	13	14
-25°	2	2	3	4	5	7	8	10	11	12	14
-27.5°	2	2	3	4	5	6	8	9	11	12	13
-30°	1	2	2	4	4	6	7	8	10	11	12
-32.5°	1	2	2	3	4	5	6	8	9	10	12
-35°	1	2	2	2	4	4	5	7	8	9	10
-37.5°	1	1	2	2	3	4	5	6	7	8	9
-40°	1	1	2	2	2	3	4	5	6	7	8
-42.5°	1	1	1	2	2	2	4	4	5	6	7
-45°	1	1	1	1	2	2	3	4	4	5	6
-47.5°	1	1	1	1	2	2	2	3	4	4	5
-50°	1	1	1	1	1	2	2	2	2	3	4
-52.5°	1	1	1	1	1	1	2	2	2	2	3
-55°	1	1	1	1	1	1	1	1	2	2	2
-57.5°	1	1	1	1	1	1	1	1	1	2	2
-60°	0	1	1	1	1	1	1	1	1	1	1
-62.5°	0	0	1	1	1	1	1	1	1	1	1
-65°	0	0	0	1	1	1	1	1	1	1	1
-67.5°	0	0	0	0	0	1	1	1	1	1	1
-70°	0	0	0	0	0	0	0	1	1	1	1
-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: P247015 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED2710-12-CS-OSL

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	1	1	1	1	1
72.5°	1	1	1	1	1	1	1	1	1	1	1
70°	1	1	1	1	1	1	1	1	1	1	1
67.5°	1	1	1	1	1	1	1	1	1	1	1
65°	1	1	1	1	1	1	1	1	1	2	2
62.5°	1	1	1	2	2	2	2	2	2	2	2
60°	2	2	2	2	2	2	2	3	3	3	3
57.5°	2	2	2	3	3	4	4	4	4	4	4
55°	2	3	4	4	4	4	5	5	5	6	6
52.5°	4	4	4	5	5	6	6	7	7	7	8
50°	4	5	6	6	7	7	8	8	9	9	9
47.5°	5	6	7	8	8	9	10	10	11	11	11
45°	7	8	8	9	10	11	11	12	12	12	12
42.5°	8	9	10	11	11	12	12	13	13	14	14
40°	9	10	11	12	12	13	14	14	15	15	16
37.5°	10	12	12	13	14	14	15	16	16	17	17
35°	12	12	13	14	15	16	17	17	18	19	20
32.5°	12	13	14	15	16	17	18	19	21	21	22
30°	13	14	15	17	18	19	20	21	22	23	24
27.5°	14	15	17	18	19	21	22	23	24	26	27
25°	15	16	18	19	21	22	24	25	28	30	32
22.5°	16	17	19	21	22	24	26	29	32	36	40
20°	17	18	20	22	24	26	29	33	38	46	53
17.5°	17	19	21	23	25	29	33	40	49	62	75
15°	18	21	22	24	28	32	38	49	65	89	124
12.5°	19	21	23	26	30	36	46	62	89	133	232
10°	20	22	24	27	32	40	53	75	124	232	398
7.5°	20	22	25	28	34	45	63	100	183	346	592
5°	21	23	25	29	36	48	70	119	242	476	768
2.5°	21	23	25	30	37	50	74	131	279	560	885
0°	21	23	26	30	37	51	76	135	292	589	926
-2.5°	21	23	25	30	37	50	74	131	279	560	885
-5°	21	23	25	29	36	48	70	119	242	476	768
-7.5°	20	22	25	28	34	45	63	100	183	346	592
-10°	20	22	24	27	32	40	53	75	124	232	398
-12.5°	19	21	23	26	30	36	46	62	89	133	232
-15°	18	21	22	24	28	32	38	49	65	89	124
-17.5°	17	19	21	23	25	29	33	40	49	62	75
-20°	17	18	20	22	24	26	29	33	38	46	53



REPORT NUMBER: P247015 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED2710-12-CS-OSL

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	16	17	19	21	22	24	26	29	32	36	40
-25°	15	16	18	19	21	22	24	25	28	30	32
-27.5°	14	15	17	18	19	21	22	23	24	26	27
-30°	13	14	15	17	18	19	20	21	22	23	24
-32.5°	12	13	14	15	16	17	18	19	21	21	22
-35°	12	12	13	14	15	16	17	17	18	19	20
-37.5°	10	12	12	13	14	14	15	16	16	17	17
-40°	9	10	11	12	12	13	14	14	15	15	16
-42.5°	8	9	10	11	11	12	12	13	13	14	14
-45°	7	8	8	9	10	11	11	12	12	12	12
-47.5°	5	6	7	8	8	9	10	10	11	11	11
-50°	4	5	6	6	7	7	8	8	9	9	9
-52.5°	4	4	4	5	5	6	6	7	7	7	8
-55°	2	3	4	4	4	4	5	5	5	6	6
-57.5°	2	2	2	3	3	4	4	4	4	4	4
-60°	2	2	2	2	2	2	2	3	3	3	3
-62.5°	1	1	1	2	2	2	2	2	2	2	2
-65°	1	1	1	1	1	1	1	1	1	2	2
-67.5°	1	1	1	1	1	1	1	1	1	1	1
-70°	1	1	1	1	1	1	1	1	1	1	1
-72.5°	1	1	1	1	1	1	1	1	1	1	1
-75°	0	0	0	0	0	0	1	1	1	1	1
-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: P247015 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED2710-12-CS-OSL

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°	1	1	1	1	1	1	1	1	1	1	1
72.5°	1	1	1	1	1	1	1	1	1	1	1
70°	1	1	1	1	1	1	1	1	1	1	1
67.5°	1	1	1	1	1	1	1	1	1	1	1
65°	2	2	2	2	2	2	2	2	2	1	1
62.5°	2	2	2	2	2	2	2	2	2	2	2
60°	3	4	4	4	4	4	3	3	3	3	3
57.5°	4	5	5	5	5	5	4	4	4	4	4
55°	6	6	6	6	6	6	6	6	6	5	5
52.5°	8	8	8	8	8	8	8	8	7	7	7
50°	10	10	10	10	10	10	10	9	9	9	8
47.5°	12	12	12	12	12	12	12	11	11	11	10
45°	13	13	13	13	13	13	13	12	12	12	12
42.5°	14	14	15	15	15	14	14	14	14	13	13
40°	16	16	16	16	16	16	16	16	15	15	14
37.5°	18	18	18	18	18	18	18	17	17	16	16
35°	20	21	21	21	21	21	20	20	19	18	17
32.5°	22	23	23	23	23	23	22	22	21	21	19
30°	25	25	25	26	25	25	25	24	23	22	21
27.5°	28	29	30	30	30	29	28	27	26	24	23
25°	34	36	37	37	37	36	34	32	30	28	25
22.5°	45	48	50	51	50	48	45	40	36	32	29
20°	63	70	74	76	74	70	63	53	46	38	33
17.5°	100	119	131	135	131	119	100	75	62	49	40
15°	183	242	279	292	279	242	183	124	89	65	49
12.5°	346	476	560	589	560	476	346	232	133	89	62
10°	592	768	885	926	885	768	592	398	232	124	75
7.5°	846	1054	1193	1239	1193	1054	846	592	346	183	100
5°	1054	1288	1416	1454	1416	1288	1054	768	476	242	119
2.5°	1193	1416	1493	1493	1493	1416	1193	885	560	279	131
0°	1239	1454	1493	1469	1493	1454	1239	926	589	292	135
-2.5°	1193	1416	1493	1493	1493	1416	1193	885	560	279	131
-5°	1054	1288	1416	1454	1416	1288	1054	768	476	242	119
-7.5°	846	1054	1193	1239	1193	1054	846	592	346	183	100
-10°	592	768	885	926	885	768	592	398	232	124	75
-12.5°	346	476	560	589	560	476	346	232	133	89	62
-15°	183	242	279	292	279	242	183	124	89	65	49
-17.5°	100	119	131	135	131	119	100	75	62	49	40
-20°	63	70	74	76	74	70	63	53	46	38	33



REPORT NUMBER: P247015 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED2710-12-CS-OSL

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	45	48	50	51	50	48	45	40	36	32	29
-25°	34	36	37	37	37	36	34	32	30	28	25
-27.5°	28	29	30	30	30	29	28	27	26	24	23
-30°	25	25	25	26	25	25	25	24	23	22	21
-32.5°	22	23	23	23	23	23	22	22	21	21	19
-35°	20	21	21	21	21	21	20	20	19	18	17
-37.5°	18	18	18	18	18	18	18	17	17	16	16
-40°	16	16	16	16	16	16	16	16	15	15	14
-42.5°	14	14	15	15	15	14	14	14	14	13	13
-45°	13	13	13	13	13	13	13	12	12	12	12
-47.5°	12	12	12	12	12	12	12	11	11	11	10
-50°	10	10	10	10	10	10	10	9	9	9	8
-52.5°	8	8	8	8	8	8	8	8	7	7	7
-55°	6	6	6	6	6	6	6	6	6	5	5
-57.5°	4	5	5	5	5	5	4	4	4	4	4
-60°	3	4	4	4	4	4	3	3	3	3	3
-62.5°	2	2	2	2	2	2	2	2	2	2	2
-65°	2	2	2	2	2	2	2	2	2	1	1
-67.5°	1	1	1	1	1	1	1	1	1	1	1
-70°	1	1	1	1	1	1	1	1	1	1	1
-72.5°	1	1	1	1	1	1	1	1	1	1	1
-75°	1	1	1	1	1	1	1	1	1	1	1
-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: P247015 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED2710-12-CS-OSL

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°	1	0	0	0	0	0	0	0	0	0	0
72.5°	1	1	1	1	1	1	1	0	0	0	0
70°	1	1	1	1	1	1	1	1	1	1	1
67.5°	1	1	1	1	1	1	1	1	1	1	1
65°	1	1	1	1	1	1	1	1	1	1	1
62.5°	2	2	2	2	1	1	1	1	1	1	1
60°	2	2	2	2	2	2	2	1	1	1	1
57.5°	4	4	3	3	2	2	2	2	2	1	1
55°	5	4	4	4	4	3	2	2	2	2	1
52.5°	6	6	5	5	4	4	4	3	2	2	2
50°	8	7	7	6	6	5	4	4	3	2	2
47.5°	10	9	8	8	7	6	5	5	4	4	3
45°	11	11	10	9	8	8	7	6	5	4	4
42.5°	12	12	11	11	10	9	8	7	6	5	4
40°	14	13	12	12	11	10	9	8	7	6	5
37.5°	15	14	14	13	12	12	10	9	8	7	6
35°	17	16	15	14	13	12	12	10	9	8	7
32.5°	18	17	16	15	14	13	12	12	10	9	8
30°	20	19	18	17	15	14	13	12	11	10	8
27.5°	22	21	19	18	17	15	14	13	12	11	9
25°	24	22	21	19	18	16	15	14	12	11	10
22.5°	26	24	22	21	19	17	16	14	13	12	11
20°	29	26	24	22	20	18	17	15	14	12	11
17.5°	33	29	25	23	21	19	17	16	14	13	12
15°	38	32	28	24	22	21	18	16	15	13	12
12.5°	46	36	30	26	23	21	19	17	15	14	12
10°	53	40	32	27	24	22	20	17	16	14	12
7.5°	63	45	34	28	25	22	20	18	16	14	13
5°	70	48	36	29	25	23	21	18	16	14	13
2.5°	74	50	37	30	25	23	21	18	16	15	13
0°	76	51	37	30	26	23	21	18	16	15	13
-2.5°	74	50	37	30	25	23	21	18	16	15	13
-5°	70	48	36	29	25	23	21	18	16	14	13
-7.5°	63	45	34	28	25	22	20	18	16	14	13
-10°	53	40	32	27	24	22	20	17	16	14	12
-12.5°	46	36	30	26	23	21	19	17	15	14	12
-15°	38	32	28	24	22	21	18	16	15	13	12
-17.5°	33	29	25	23	21	19	17	16	14	13	12
-20°	29	26	24	22	20	18	17	15	14	12	11



REPORT NUMBER: P247015 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED2710-12-CS-OSL

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	26	24	22	21	19	17	16	14	13	12	11
-25°	24	22	21	19	18	16	15	14	12	11	10
-27.5°	22	21	19	18	17	15	14	13	12	11	9
-30°	20	19	18	17	15	14	13	12	11	10	8
-32.5°	18	17	16	15	14	13	12	12	10	9	8
-35°	17	16	15	14	13	12	12	10	9	8	7
-37.5°	15	14	14	13	12	12	10	9	8	7	6
-40°	14	13	12	12	11	10	9	8	7	6	5
-42.5°	12	12	11	11	10	9	8	7	6	5	4
-45°	11	11	10	9	8	8	7	6	5	4	4
-47.5°	10	9	8	8	7	6	5	5	4	4	3
-50°	8	7	7	6	6	5	4	4	3	2	2
-52.5°	6	6	5	5	4	4	4	3	2	2	2
-55°	5	4	4	4	4	3	2	2	2	2	1
-57.5°	4	4	3	3	2	2	2	2	2	1	1
-60°	2	2	2	2	2	2	2	1	1	1	1
-62.5°	2	2	2	2	1	1	1	1	1	1	1
-65°	1	1	1	1	1	1	1	1	1	1	1
-67.5°	1	1	1	1	1	1	1	1	1	1	1
-70°	1	1	1	1	1	1	1	1	1	1	1
-72.5°	1	1	1	1	1	1	1	0	0	0	0
-75°	1	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: P247015 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED2710-12-CS-OSL

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°	1	1	0	0	0	0	0	0	0	0	0
65°	1	1	1	1	0	0	0	0	0	0	0
62.5°	1	1	1	1	1	0	0	0	0	0	0
60°	1	1	1	1	1	1	0	0	0	0	0
57.5°	1	1	1	1	1	1	1	0	0	0	0
55°	1	1	1	1	1	1	1	1	0	0	0
52.5°	2	1	1	1	1	1	1	1	0	0	0
50°	2	2	1	1	1	1	1	1	1	0	0
47.5°	2	2	2	1	1	1	1	1	1	0	0
45°	3	2	2	1	1	1	1	1	1	1	0
42.5°	4	2	2	2	1	1	1	1	1	1	0
40°	4	3	2	2	2	1	1	1	1	1	0
37.5°	5	4	3	2	2	1	1	1	1	1	0
35°	5	4	4	2	2	2	1	1	1	1	1
32.5°	6	5	4	3	2	2	1	1	1	1	1
30°	7	6	4	4	2	2	1	1	1	1	1
27.5°	8	6	5	4	3	2	2	1	1	1	1
25°	8	7	5	4	3	2	2	1	1	1	1
22.5°	9	7	6	4	4	2	2	1	1	1	1
20°	10	8	6	5	4	2	2	1	1	1	1
17.5°	10	8	7	5	4	3	2	1	1	1	1
15°	11	9	7	5	4	3	2	1	1	1	1
12.5°	11	9	7	6	4	3	2	2	1	1	1
10°	11	9	8	6	4	3	2	2	1	1	1
7.5°	12	10	8	6	4	3	2	2	1	1	1
5°	12	10	8	6	5	4	2	2	1	1	1
2.5°	12	10	8	6	5	4	2	2	1	1	1
0°	12	10	8	6	5	4	2	2	1	1	1
-2.5°	12	10	8	6	5	4	2	2	1	1	1
-5°	12	10	8	6	5	4	2	2	1	1	1
-7.5°	12	10	8	6	4	3	2	2	1	1	1
-10°	11	9	8	6	4	3	2	2	1	1	1
-12.5°	11	9	7	6	4	3	2	2	1	1	1
-15°	11	9	7	5	4	3	2	1	1	1	1
-17.5°	10	8	7	5	4	3	2	1	1	1	1
-20°	10	8	6	5	4	2	2	1	1	1	1



REPORT NUMBER: P247015 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED2710-12-CS-OSL

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	9	7	6	4	4	2	2	1	1	1	1
-25°	8	7	5	4	3	2	2	1	1	1	1
-27.5°	8	6	5	4	3	2	2	1	1	1	1
-30°	7	6	4	4	2	2	1	1	1	1	1
-32.5°	6	5	4	3	2	2	1	1	1	1	1
-35°	5	4	4	2	2	2	1	1	1	1	1
-37.5°	5	4	3	2	2	1	1	1	1	1	0
-40°	4	3	2	2	2	1	1	1	1	1	0
-42.5°	4	2	2	2	1	1	1	1	1	1	0
-45°	3	2	2	1	1	1	1	1	1	1	0
-47.5°	2	2	2	1	1	1	1	1	1	0	0
-50°	2	2	1	1	1	1	1	1	1	0	0
-52.5°	2	1	1	1	1	1	1	1	0	0	0
-55°	1	1	1	1	1	1	1	1	0	0	0
-57.5°	1	1	1	1	1	1	1	0	0	0	0
-60°	1	1	1	1	1	1	0	0	0	0	0
-62.5°	1	1	1	1	1	0	0	0	0	0	0
-65°	1	1	1	1	0	0	0	0	0	0	0
-67.5°	1	1	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: P247015 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED2710-12-CS-OSL

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°	1	0	0	0	0	0	0
17.5°	1	0	0	0	0	0	0
15°	1	0	0	0	0	0	0
12.5°	1	0	0	0	0	0	0
10°	1	0	0	0	0	0	0
7.5°	1	0	0	0	0	0	0
5°	1	0	0	0	0	0	0
2.5°	1	0	0	0	0	0	0
0°	1	0	0	0	0	0	0
-2.5°	1	0	0	0	0	0	0
-5°	1	0	0	0	0	0	0
-7.5°	1	0	0	0	0	0	0
-10°	1	0	0	0	0	0	0
-12.5°	1	0	0	0	0	0	0
-15°	1	0	0	0	0	0	0
-17.5°	1	0	0	0	0	0	0
-20°	1	0	0	0	0	0	0



REPORT NUMBER: P247015 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 203-8LED2710-12-CS-OSL

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)