

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: P247011 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P247011 (CONVERTED FROM TYPE C PHOTOMETRY)
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-27)
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-OSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 2700K CCT, 10 DEGREE SPOT OPTIC,
REGRESSED HOOD BLACK, 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:	259.4 lumens	Max Intensity:	1586.8 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x -2.5°V
Efficacy:	32.4 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	22°H x 22°V	Field Angle (10%):	34.1°H x 34.1°V
Beam Lumens:	141.9 lumens	Field Lumens:	215.6 lumens
Beam Efficiency:	54.7%	Field Efficiency:	83.1%

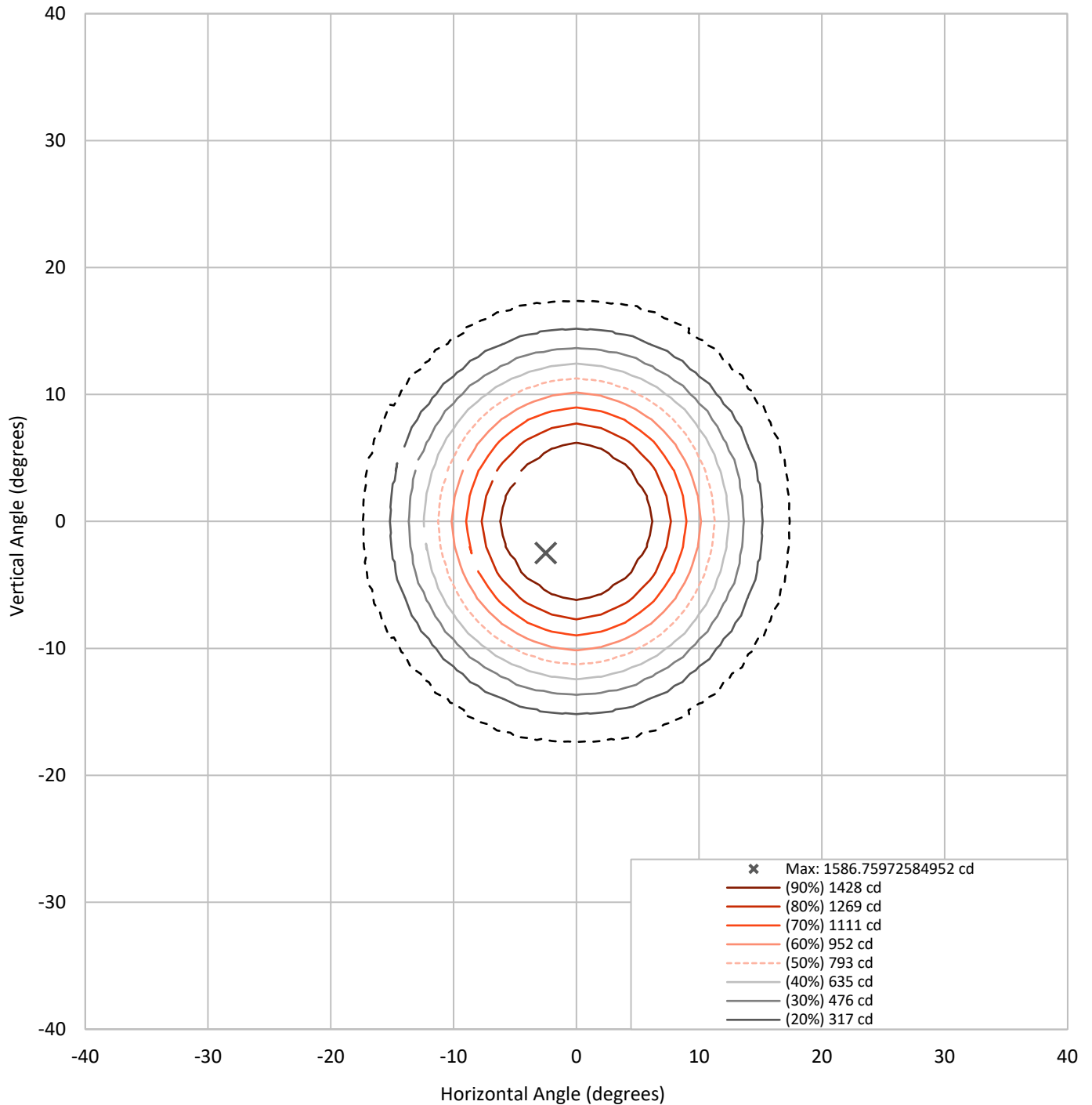
Input Watts (W): 8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Candela Plot





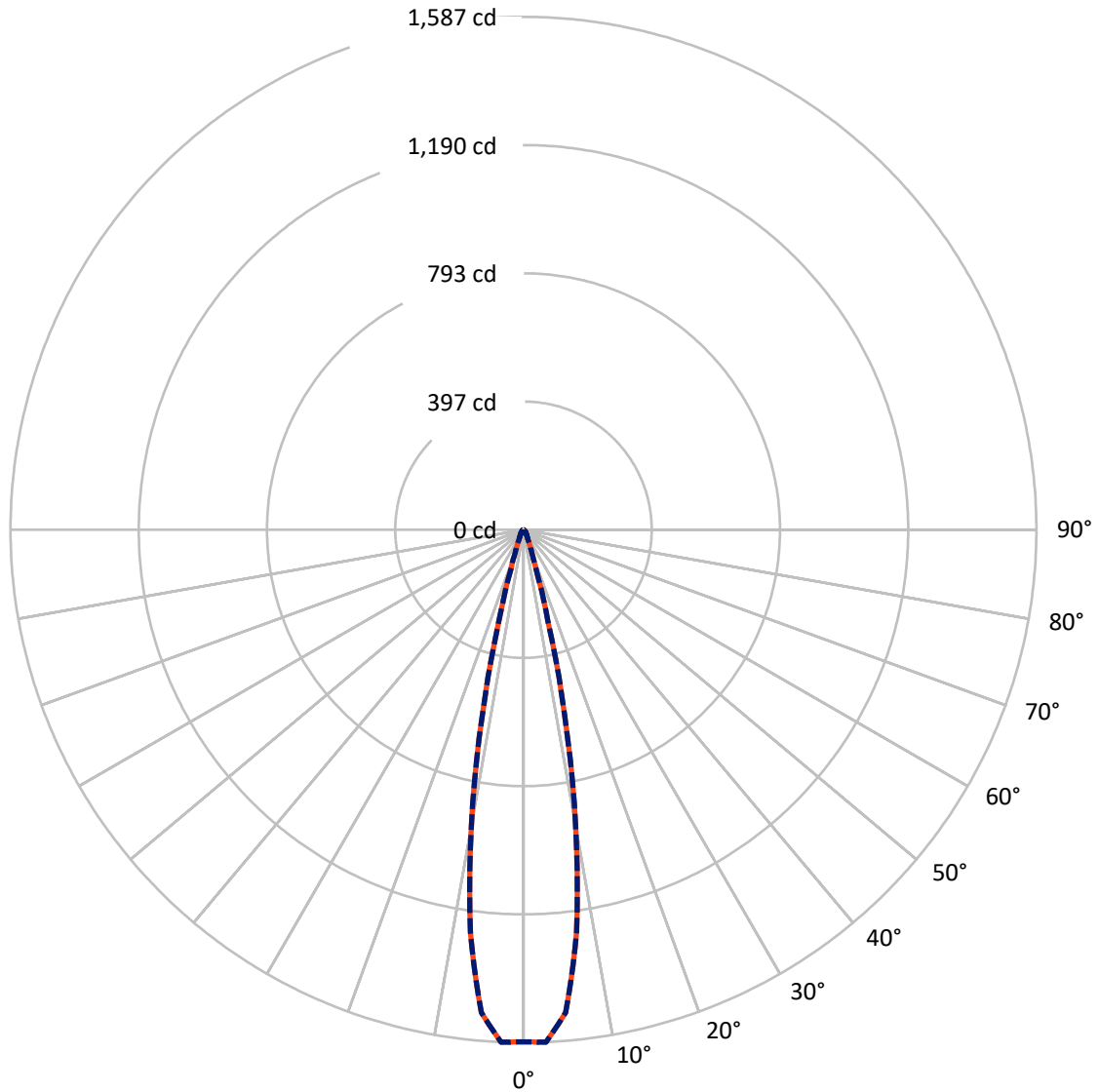
REPORT NUMBER: P247011 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED2710-12-BK-OSL

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	0.0	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	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	
40		0.0	0.0	0.1	0.1	0.2	0.4	0.4	0.4	0.4	0.2	0.1	0.1	0.0	0.0		
30	0.0	0.0	0.0	0.1	0.2	0.4	0.7	1.1	1.1	0.7	0.4	0.2	0.1	0.0	0.0	0.0	
20		0.0	0.0	0.1	0.3	0.6	2.4	9.4	9.4	2.4	0.6	0.3	0.1	0.0	0.0		
10	0.0	0.0	0.0	0.2	0.4	1.0	9.2	36.7	36.7	9.2	1.0	0.4	0.2	0.0	0.0	0.0	
0		0.0	0.0	0.2	0.4	1.0	9.2	36.7	36.7	9.2	1.0	0.4	0.2	0.0	0.0		
-10	0.0	0.0	0.0	0.1	0.3	0.6	2.4	9.4	9.4	2.4	0.6	0.3	0.1	0.0	0.0	0.0	
-20		0.0	0.0	0.1	0.2	0.4	0.7	1.1	1.1	0.7	0.4	0.2	0.1	0.0	0.0		
-30	0.0	0.0	0.0	0.1	0.1	0.2	0.4	0.4	0.4	0.4	0.2	0.1	0.1	0.0	0.0	0.0	
-40		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	0.0	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	

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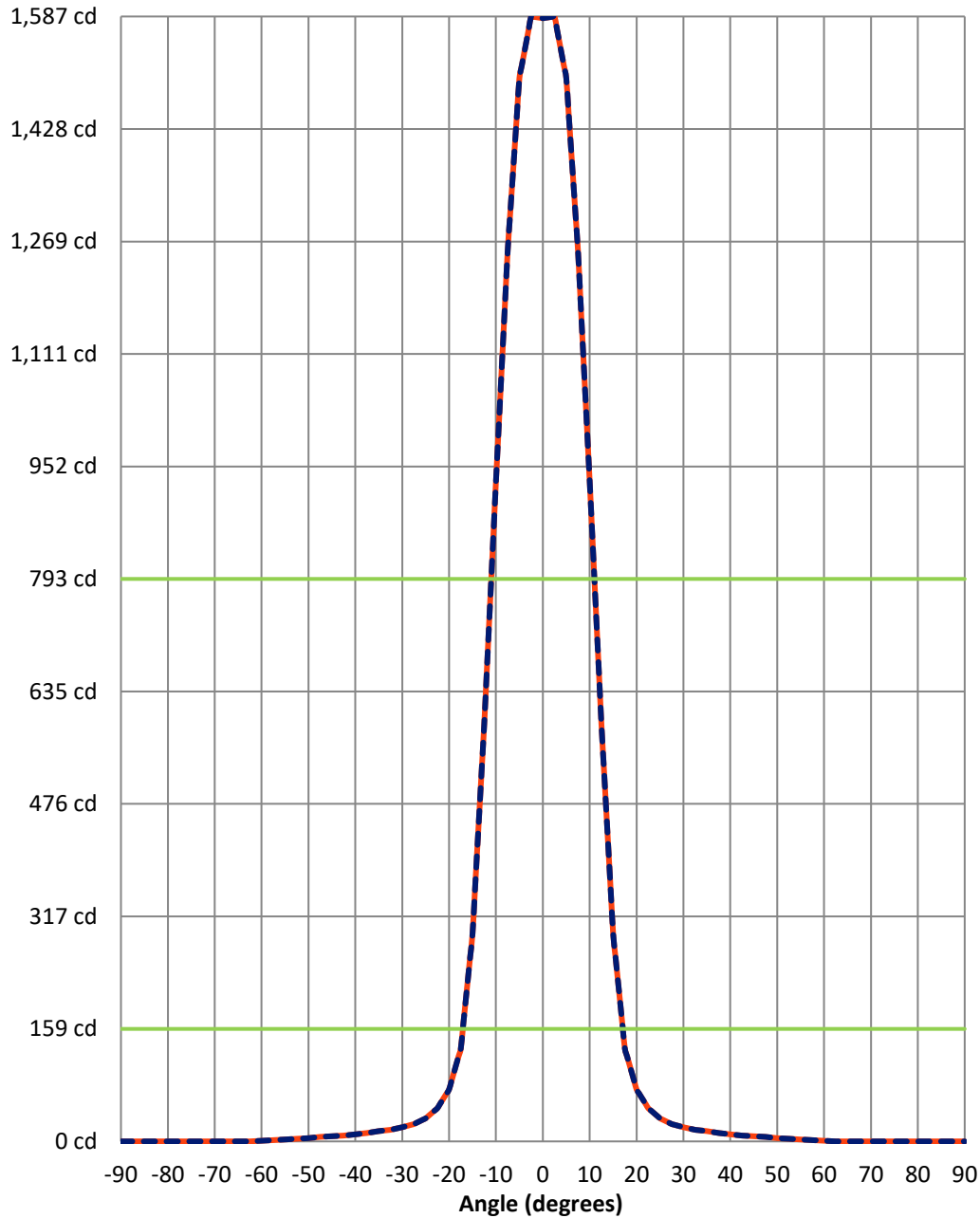
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 22°
 V Angle: 22°
 Lumens: 141.9
 Efficiency: 54.7%

Field:
 H Angle: 34.1°
 V Angle: 34.1°
 Lumens: 215.6
 Efficiency: 83.1%

Spill:
 Lumens: 43.7
 Efficiency: 16.9%

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



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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: P247011 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 203-8LED2710-12-BK-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	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: P247011 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED2710-12-BK-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	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	1	1
47.5°	0	0	0	0	0	0	0	0	1	1	2
45°	0	0	0	0	0	0	0	1	1	2	2
42.5°	0	0	0	0	0	0	1	1	2	2	3
40°	0	0	0	0	0	1	1	2	2	3	4
37.5°	0	0	0	0	0	1	2	2	3	4	4
35°	0	0	0	0	1	2	2	3	4	4	5
32.5°	0	0	0	1	1	2	3	3	4	5	6
30°	0	0	0	1	2	2	3	4	4	6	7
27.5°	0	0	0	1	2	3	3	4	5	7	7
25°	0	0	1	1	2	3	4	5	6	7	8
22.5°	0	0	1	2	2	3	4	5	7	7	8
20°	0	0	1	2	3	4	4	6	7	8	9
17.5°	0	0	1	2	3	4	5	6	7	8	9
15°	0	0	1	2	3	4	5	7	7	8	10
12.5°	0	1	1	2	3	4	6	7	8	9	11
10°	0	1	2	2	3	4	6	7	8	9	11
7.5°	0	1	2	3	4	4	6	7	8	10	11
5°	0	1	2	3	4	5	6	7	8	10	12
2.5°	0	1	2	3	4	5	6	7	8	10	12
0°	0	1	2	3	4	5	6	7	8	10	12
-2.5°	0	1	2	3	4	5	6	7	8	10	12
-5°	0	1	2	3	4	5	6	7	8	10	12
-7.5°	0	1	2	3	4	4	6	7	8	10	11
-10°	0	1	2	2	3	4	6	7	8	9	11
-12.5°	0	1	1	2	3	4	6	7	8	9	11
-15°	0	0	1	2	3	4	5	7	7	8	10
-17.5°	0	0	1	2	3	4	5	6	7	8	9
-20°	0	0	1	2	3	4	4	6	7	8	9



REPORT NUMBER: P247011 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED2710-12-BK-OSL

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	0	0	1	2	2	3	4	5	7	7	8
-25°	0	0	1	1	2	3	4	5	6	7	8
-27.5°	0	0	0	1	2	3	3	4	5	7	7
-30°	0	0	0	1	2	2	3	4	4	6	7
-32.5°	0	0	0	1	1	2	3	3	4	5	6
-35°	0	0	0	0	1	2	2	3	4	4	5
-37.5°	0	0	0	0	0	1	2	2	3	4	4
-40°	0	0	0	0	0	1	1	2	2	3	4
-42.5°	0	0	0	0	0	0	1	1	2	2	3
-45°	0	0	0	0	0	0	0	1	1	2	2
-47.5°	0	0	0	0	0	0	0	0	1	1	2
-50°	0	0	0	0	0	0	0	0	0	1	1
-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: P247011 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED2710-12-BK-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	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	1	1
57.5°	0	0	0	0	1	1	1	1	1	1	2
55°	0	1	1	1	1	2	2	2	2	2	2
52.5°	1	1	2	2	2	2	3	3	3	3	3
50°	2	2	2	3	3	3	4	4	4	4	4
47.5°	2	3	3	3	4	4	4	5	5	6	6
45°	3	3	4	4	5	5	6	6	7	7	7
42.5°	4	4	4	5	6	7	7	7	7	8	8
40°	4	5	6	7	7	7	8	8	8	9	9
37.5°	5	6	7	7	8	8	9	9	10	11	11
35°	6	7	7	8	9	9	10	11	12	13	13
32.5°	7	7	8	9	10	11	12	13	14	15	15
30°	7	8	9	10	11	13	14	15	16	17	18
27.5°	8	9	10	11	13	15	16	17	19	20	22
25°	9	10	11	13	15	16	18	20	22	24	27
22.5°	9	11	13	15	16	18	21	23	27	31	36
20°	10	12	14	16	18	21	24	28	34	42	50
17.5°	11	13	15	17	20	23	28	36	45	60	74
15°	12	14	16	19	22	27	34	45	63	89	124
12.5°	13	15	17	20	24	31	42	60	89	133	241
10°	13	15	18	22	27	36	50	74	124	241	418
7.5°	14	16	19	23	29	41	61	99	188	363	622
5°	14	16	20	24	31	44	68	119	252	500	808
2.5°	15	16	20	24	33	47	73	131	293	588	931
0°	15	16	20	25	33	48	75	135	307	619	974
-2.5°	15	16	20	24	33	47	73	131	293	588	931
-5°	14	16	20	24	31	44	68	119	252	500	808
-7.5°	14	16	19	23	29	41	61	99	188	363	622
-10°	13	15	18	22	27	36	50	74	124	241	418
-12.5°	13	15	17	20	24	31	42	60	89	133	241
-15°	12	14	16	19	22	27	34	45	63	89	124
-17.5°	11	13	15	17	20	23	28	36	45	60	74
-20°	10	12	14	16	18	21	24	28	34	42	50



REPORT NUMBER: P247011 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED2710-12-BK-OSL

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	9	11	13	15	16	18	21	23	27	31	36
-25°	9	10	11	13	15	16	18	20	22	24	27
-27.5°	8	9	10	11	13	15	16	17	19	20	22
-30°	7	8	9	10	11	13	14	15	16	17	18
-32.5°	7	7	8	9	10	11	12	13	14	15	15
-35°	6	7	7	8	9	9	10	11	12	13	13
-37.5°	5	6	7	7	8	8	9	9	10	11	11
-40°	4	5	6	7	7	7	8	8	8	9	9
-42.5°	4	4	4	5	6	7	7	7	7	8	8
-45°	3	3	4	4	5	5	6	6	7	7	7
-47.5°	2	3	3	3	4	4	4	5	5	6	6
-50°	2	2	2	3	3	3	4	4	4	4	4
-52.5°	1	1	2	2	2	2	3	3	3	3	3
-55°	0	1	1	1	1	2	2	2	2	2	2
-57.5°	0	0	0	0	1	1	1	1	1	1	2
-60°	0	0	0	0	0	0	0	0	0	1	1
-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: P247011 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED2710-12-BK-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°	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	1	1	1	1	1	1	0	0
57.5°	2	2	2	2	2	2	2	2	1	1	1
55°	3	3	3	3	3	3	3	2	2	2	2
52.5°	4	4	4	4	4	4	4	3	3	3	3
50°	4	5	5	5	5	5	4	4	4	4	4
47.5°	6	6	6	6	6	6	6	6	6	5	5
45°	7	7	7	7	7	7	7	7	7	7	6
42.5°	8	8	8	8	8	8	8	8	8	7	7
40°	10	10	10	10	10	10	10	9	9	8	8
37.5°	11	12	12	12	12	12	11	11	11	10	9
35°	14	14	15	15	15	14	14	13	13	12	11
32.5°	16	16	16	16	16	16	16	15	15	14	13
30°	19	20	20	20	20	20	19	18	17	16	15
27.5°	23	24	24	25	24	24	23	22	20	19	17
25°	29	31	33	33	33	31	29	27	24	22	20
22.5°	41	44	47	48	47	44	41	36	31	27	23
20°	61	68	73	75	73	68	61	50	42	34	28
17.5°	99	119	131	135	131	119	99	74	60	45	36
15°	188	252	293	307	293	252	188	124	89	63	45
12.5°	363	500	588	619	588	500	363	241	133	89	60
10°	622	808	931	974	931	808	622	418	241	124	74
7.5°	890	1112	1256	1306	1256	1112	890	622	363	188	99
5°	1112	1360	1500	1543	1500	1360	1112	808	500	252	119
2.5°	1256	1500	1587	1584	1587	1500	1256	931	588	293	131
0°	1306	1543	1584	1552	1584	1543	1306	974	619	307	135
-2.5°	1256	1500	1587	1584	1587	1500	1256	931	588	293	131
-5°	1112	1360	1500	1543	1500	1360	1112	808	500	252	119
-7.5°	890	1112	1256	1306	1256	1112	890	622	363	188	99
-10°	622	808	931	974	931	808	622	418	241	124	74
-12.5°	363	500	588	619	588	500	363	241	133	89	60
-15°	188	252	293	307	293	252	188	124	89	63	45
-17.5°	99	119	131	135	131	119	99	74	60	45	36
-20°	61	68	73	75	73	68	61	50	42	34	28



REPORT NUMBER: P247011 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED2710-12-BK-OSL

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	41	44	47	48	47	44	41	36	31	27	23
-25°	29	31	33	33	33	31	29	27	24	22	20
-27.5°	23	24	24	25	24	24	23	22	20	19	17
-30°	19	20	20	20	20	20	19	18	17	16	15
-32.5°	16	16	16	16	16	16	16	15	15	14	13
-35°	14	14	15	15	15	14	14	13	13	12	11
-37.5°	11	12	12	12	12	12	11	11	11	10	9
-40°	10	10	10	10	10	10	10	9	9	8	8
-42.5°	8	8	8	8	8	8	8	8	8	7	7
-45°	7	7	7	7	7	7	7	7	7	7	6
-47.5°	6	6	6	6	6	6	6	6	6	5	5
-50°	4	5	5	5	5	5	4	4	4	4	4
-52.5°	4	4	4	4	4	4	4	3	3	3	3
-55°	3	3	3	3	3	3	3	2	2	2	2
-57.5°	2	2	2	2	2	2	2	2	1	1	1
-60°	1	1	1	1	1	1	1	1	1	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: P247011 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED2710-12-BK-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°	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	0	0	0	0	0	0	0	0
55°	2	2	1	1	1	1	0	0	0	0	0
52.5°	3	2	2	2	2	1	1	0	0	0	0
50°	4	3	3	3	2	2	2	1	1	0	0
47.5°	4	4	4	3	3	3	2	2	1	1	0
45°	6	5	5	4	4	3	3	2	2	1	1
42.5°	7	7	6	5	4	4	4	3	2	2	1
40°	8	7	7	7	6	5	4	4	3	2	2
37.5°	9	8	8	7	7	6	5	4	4	3	2
35°	10	9	9	8	7	7	6	5	4	4	3
32.5°	12	11	10	9	8	7	7	6	5	4	3
30°	14	13	11	10	9	8	7	7	6	4	4
27.5°	16	15	13	11	10	9	8	7	7	5	4
25°	18	16	15	13	11	10	9	8	7	6	5
22.5°	21	18	16	15	13	11	9	8	7	7	5
20°	24	21	18	16	14	12	10	9	8	7	6
17.5°	28	23	20	17	15	13	11	9	8	7	6
15°	34	27	22	19	16	14	12	10	8	7	7
12.5°	42	31	24	20	17	15	13	11	9	8	7
10°	50	36	27	22	18	15	13	11	9	8	7
7.5°	61	41	29	23	19	16	14	11	10	8	7
5°	68	44	31	24	20	16	14	12	10	8	7
2.5°	73	47	33	24	20	16	15	12	10	8	7
0°	75	48	33	25	20	16	15	12	10	8	7
-2.5°	73	47	33	24	20	16	15	12	10	8	7
-5°	68	44	31	24	20	16	14	12	10	8	7
-7.5°	61	41	29	23	19	16	14	11	10	8	7
-10°	50	36	27	22	18	15	13	11	9	8	7
-12.5°	42	31	24	20	17	15	13	11	9	8	7
-15°	34	27	22	19	16	14	12	10	8	7	7
-17.5°	28	23	20	17	15	13	11	9	8	7	6
-20°	24	21	18	16	14	12	10	9	8	7	6



REPORT NUMBER: P247011 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED2710-12-BK-OSL

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	21	18	16	15	13	11	9	8	7	7	5
-25°	18	16	15	13	11	10	9	8	7	6	5
-27.5°	16	15	13	11	10	9	8	7	7	5	4
-30°	14	13	11	10	9	8	7	7	6	4	4
-32.5°	12	11	10	9	8	7	7	6	5	4	3
-35°	10	9	9	8	7	7	6	5	4	4	3
-37.5°	9	8	8	7	7	6	5	4	4	3	2
-40°	8	7	7	7	6	5	4	4	3	2	2
-42.5°	7	7	6	5	4	4	4	3	2	2	1
-45°	6	5	5	4	4	3	3	2	2	1	1
-47.5°	4	4	4	3	3	3	2	2	1	1	0
-50°	4	3	3	3	2	2	2	1	1	0	0
-52.5°	3	2	2	2	2	1	1	0	0	0	0
-55°	2	2	1	1	1	1	0	0	0	0	0
-57.5°	1	1	1	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: P247011 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED2710-12-BK-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°	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°	1	0	0	0	0	0	0	0	0	0	0
40°	1	1	0	0	0	0	0	0	0	0	0
37.5°	2	1	0	0	0	0	0	0	0	0	0
35°	2	2	1	0	0	0	0	0	0	0	0
32.5°	3	2	1	1	0	0	0	0	0	0	0
30°	3	2	2	1	0	0	0	0	0	0	0
27.5°	3	3	2	1	0	0	0	0	0	0	0
25°	4	3	2	1	1	0	0	0	0	0	0
22.5°	4	3	2	2	1	0	0	0	0	0	0
20°	4	4	3	2	1	0	0	0	0	0	0
17.5°	5	4	3	2	1	0	0	0	0	0	0
15°	5	4	3	2	1	0	0	0	0	0	0
12.5°	6	4	3	2	1	1	0	0	0	0	0
10°	6	4	3	2	2	1	0	0	0	0	0
7.5°	6	4	4	3	2	1	0	0	0	0	0
5°	6	5	4	3	2	1	0	0	0	0	0
2.5°	6	5	4	3	2	1	0	0	0	0	0
0°	6	5	4	3	2	1	0	0	0	0	0
-2.5°	6	5	4	3	2	1	0	0	0	0	0
-5°	6	5	4	3	2	1	0	0	0	0	0
-7.5°	6	4	4	3	2	1	0	0	0	0	0
-10°	6	4	3	2	2	1	0	0	0	0	0
-12.5°	6	4	3	2	1	1	0	0	0	0	0
-15°	5	4	3	2	1	0	0	0	0	0	0
-17.5°	5	4	3	2	1	0	0	0	0	0	0
-20°	4	4	3	2	1	0	0	0	0	0	0



REPORT NUMBER: P247011 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED2710-12-BK-OSL

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	4	3	2	2	1	0	0	0	0	0	0
-25°	4	3	2	1	1	0	0	0	0	0	0
-27.5°	3	3	2	1	0	0	0	0	0	0	0
-30°	3	2	2	1	0	0	0	0	0	0	0
-32.5°	3	2	1	1	0	0	0	0	0	0	0
-35°	2	2	1	0	0	0	0	0	0	0	0
-37.5°	2	1	0	0	0	0	0	0	0	0	0
-40°	1	1	0	0	0	0	0	0	0	0	0
-42.5°	1	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: P247011 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED2710-12-BK-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°	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: P247011 (CONVERTED FROM TYPE C PHOTOMETRY)

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