

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: P246968 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **203-8LED3010-12-BK-OSL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P246968 (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: 203-8LED3010-12-BK-OSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 3000K CCT, 10 DEGREE SPOT OPTIC,
REGRESSED HOOD BLACK, OVERALL SPREAD LENS
Light Source: (1) SORAA 3000K 95 CRI 10°NSP LED
SM16-07-10D-930-03
Ballast/Driver: CHROMA POWER SUPPLY IN0004

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	251.9 lumens	Max Intensity:	1540.9 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x -2.5°V
Efficacy:	31.5 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:	137.8 lumens	Field Lumens:	209.4 lumens
Beam Efficiency:	54.7%	Field Efficiency:	83.1%

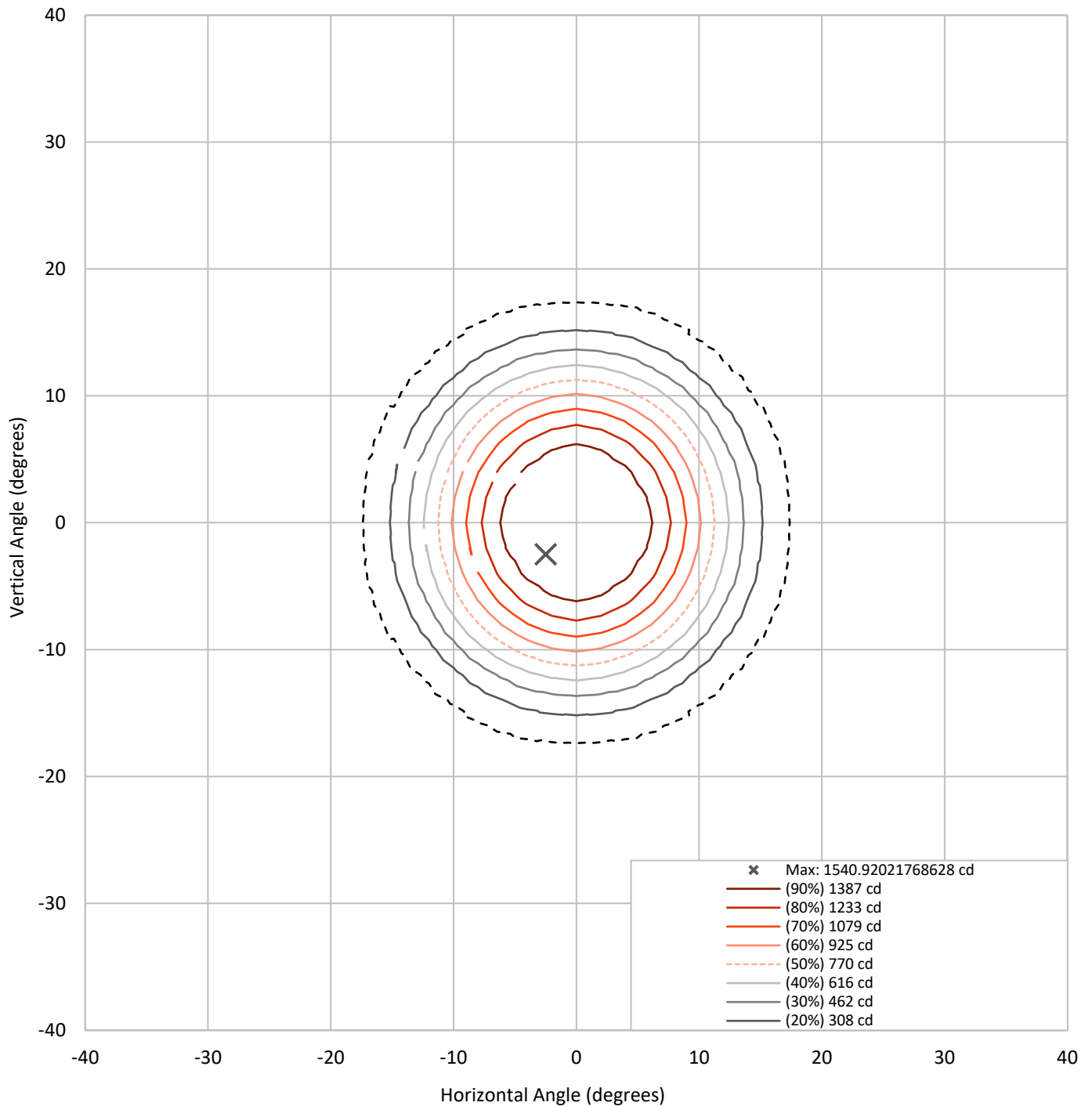
Input Watts (W): 8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: 203-8LED3010-12-BK-OSL

Iso-Candela Plot



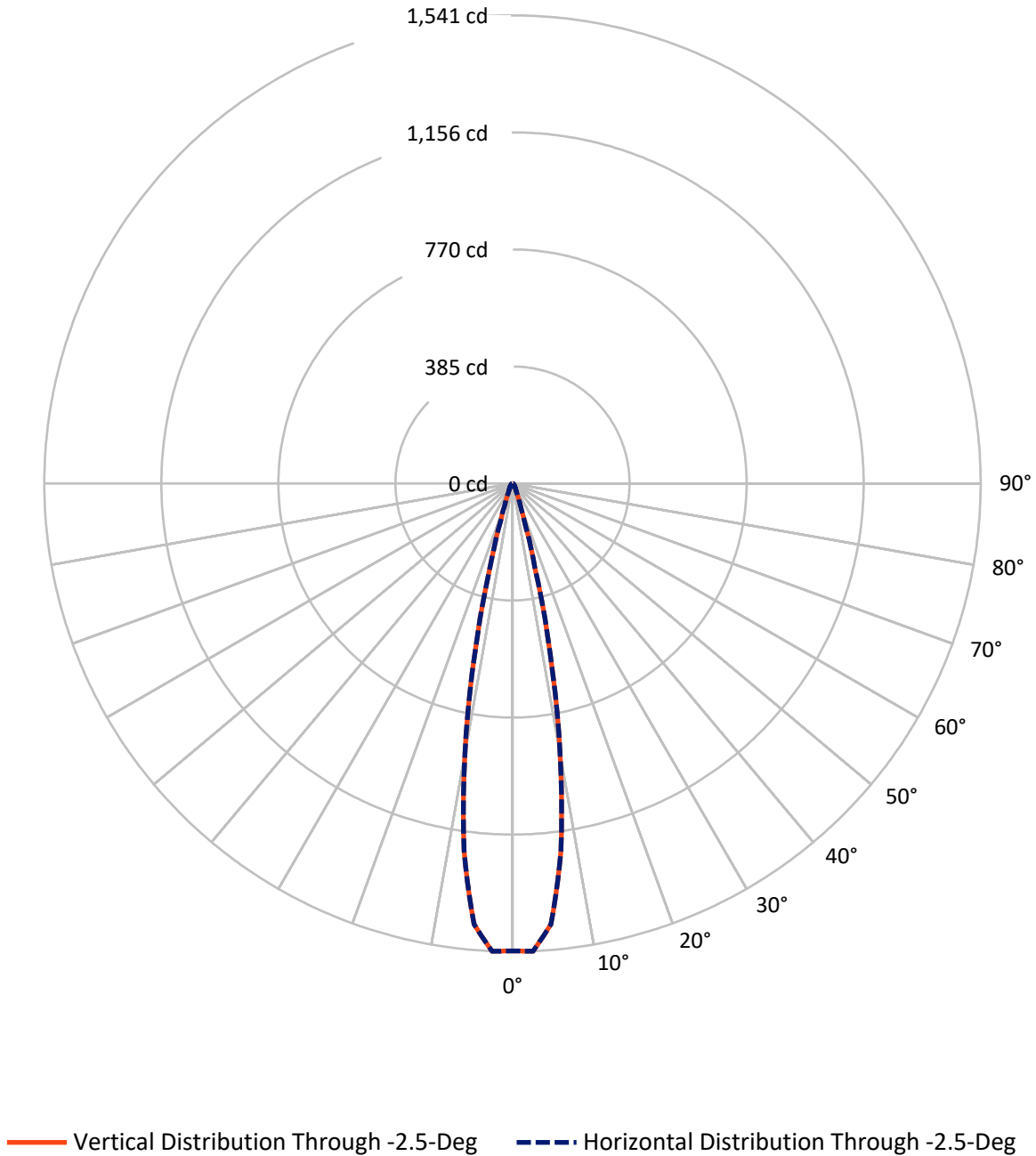
REPORT NUMBER: P246968 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3010-12-BK-OSL

Lumen Table

90	0.0														
80	0.0														
70	0.0														
60	0.0														
50	0.0														
40	0.0														
30	0.0														
20	0.0														
10	0.0														
0	0.0														
-10	0.0														
-20	0.0														
-30	0.0														
-40	0.0														
-50	0.0														
-60	0.0														
-70	0.0														
-80	0.0														
-90	0.0														

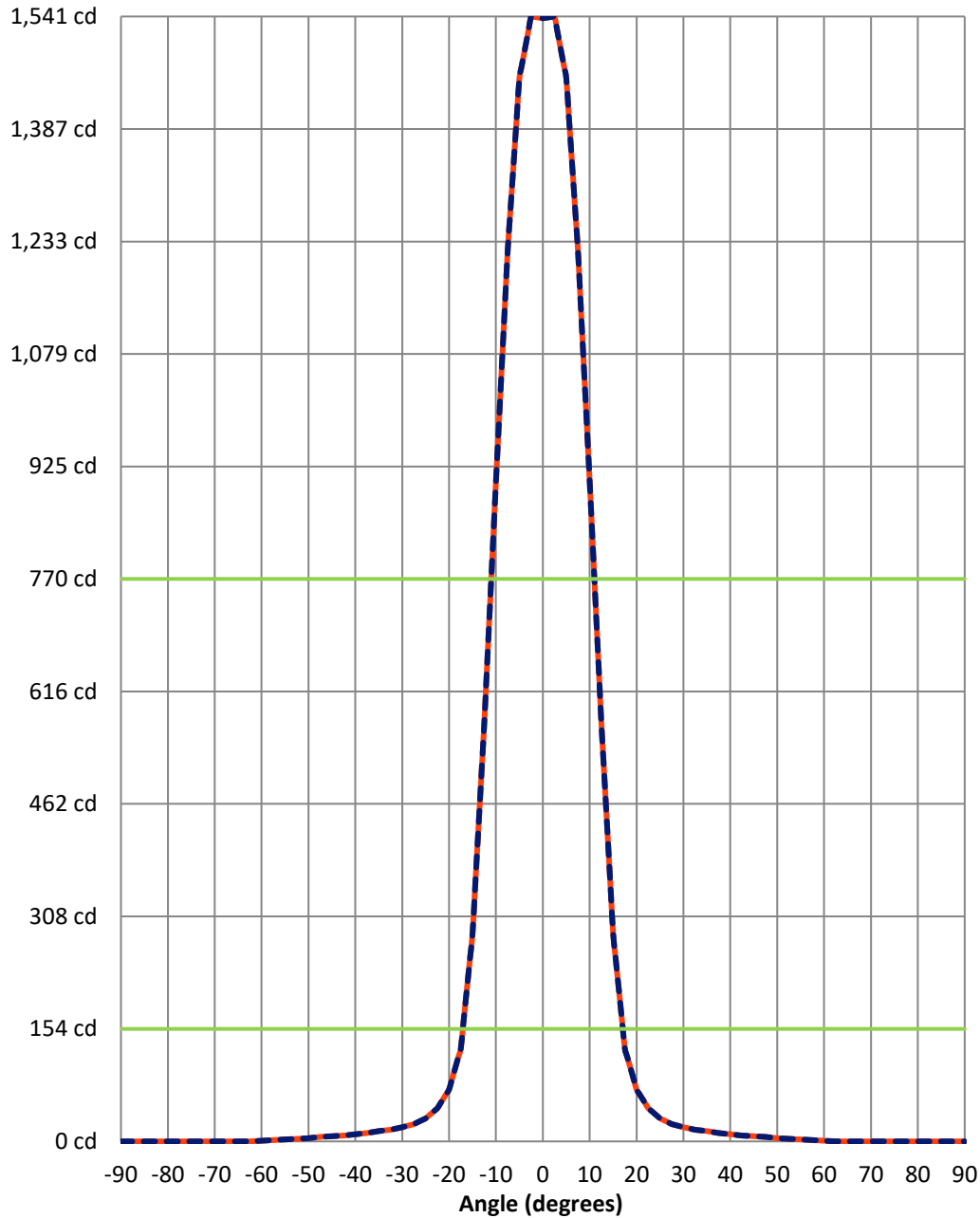
REPORT NUMBER: P246968 (CONVERTED FROM TYPE C PHOTOMETRY)
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 22°
 V Angle: 22°
 Lumens: 137.8
 Efficiency: 54.7%

Field:
 H Angle: 34.1°
 V Angle: 34.1°
 Lumens: 209.4
 Efficiency: 83.1%

Spill:
 Lumens: 42.5
 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: P246968 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 203-8LED3010-12-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: P246968 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3010-12-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	3
37.5°	0	0	0	0	0	1	2	2	3	3	4
35°	0	0	0	0	1	2	2	3	3	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	6	7
25°	0	0	1	1	2	3	4	4	6	7	7
22.5°	0	0	1	2	2	3	4	5	6	7	8
20°	0	0	1	2	3	3	4	6	7	7	9
17.5°	0	0	1	2	3	4	4	6	7	8	9
15°	0	0	1	2	3	4	5	6	7	8	10
12.5°	0	1	1	2	3	4	5	7	7	9	10
10°	0	1	2	2	3	4	6	7	8	9	11
7.5°	0	1	2	3	3	4	6	7	8	9	11
5°	0	1	2	3	3	4	6	7	8	10	11
2.5°	0	1	2	3	3	4	6	7	8	10	11
0°	0	1	2	3	4	4	6	7	8	10	12
-2.5°	0	1	2	3	3	4	6	7	8	10	11
-5°	0	1	2	3	3	4	6	7	8	10	11
-7.5°	0	1	2	3	3	4	6	7	8	9	11
-10°	0	1	2	2	3	4	6	7	8	9	11
-12.5°	0	1	1	2	3	4	5	7	7	9	10
-15°	0	0	1	2	3	4	5	6	7	8	10
-17.5°	0	0	1	2	3	4	4	6	7	8	9
-20°	0	0	1	2	3	3	4	6	7	7	9



REPORT NUMBER: P246968 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 203-8LED3010-12-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	6	7	8
-25°	0	0	1	1	2	3	4	4	6	7	7
-27.5°	0	0	0	1	2	3	3	4	5	6	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	3	4	5
-37.5°	0	0	0	0	0	1	2	2	3	3	4
-40°	0	0	0	0	0	1	1	2	2	3	3
-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: P246968 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3010-12-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	3	4	4	4	4
47.5°	2	3	3	3	4	4	4	4	5	5	6
45°	3	3	4	4	4	5	6	6	6	7	7
42.5°	3	4	4	5	6	6	7	7	7	7	8
40°	4	5	6	6	7	7	7	8	8	9	9
37.5°	5	6	7	7	7	8	9	9	10	10	11
35°	6	7	7	8	8	9	10	11	11	12	13
32.5°	7	7	8	9	10	11	11	13	14	15	15
30°	7	8	9	10	11	12	14	15	15	16	17
27.5°	8	9	10	11	13	14	15	16	18	19	21
25°	8	10	11	13	14	16	17	19	21	23	26
22.5°	9	11	12	14	16	18	20	23	26	30	35
20°	10	11	14	15	17	20	23	28	33	41	49
17.5°	11	13	15	16	19	23	28	34	44	58	72
15°	11	14	15	18	21	26	33	44	61	86	120
12.5°	12	15	16	19	23	30	41	58	86	129	234
10°	13	15	17	21	26	35	49	72	120	234	406
7.5°	13	15	18	22	29	40	59	96	182	353	604
5°	14	16	19	23	30	43	66	115	245	486	785
2.5°	14	16	19	24	32	45	71	127	284	571	904
0°	14	16	20	24	32	46	73	131	298	601	946
-2.5°	14	16	19	24	32	45	71	127	284	571	904
-5°	14	16	19	23	30	43	66	115	245	486	785
-7.5°	13	15	18	22	29	40	59	96	182	353	604
-10°	13	15	17	21	26	35	49	72	120	234	406
-12.5°	12	15	16	19	23	30	41	58	86	129	234
-15°	11	14	15	18	21	26	33	44	61	86	120
-17.5°	11	13	15	16	19	23	28	34	44	58	72
-20°	10	11	14	15	17	20	23	28	33	41	49



REPORT NUMBER: P246968 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3010-12-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	12	14	16	18	20	23	26	30	35
-25°	8	10	11	13	14	16	17	19	21	23	26
-27.5°	8	9	10	11	13	14	15	16	18	19	21
-30°	7	8	9	10	11	12	14	15	15	16	17
-32.5°	7	7	8	9	10	11	11	13	14	15	15
-35°	6	7	7	8	8	9	10	11	11	12	13
-37.5°	5	6	7	7	7	8	9	9	10	10	11
-40°	4	5	6	6	7	7	7	8	8	9	9
-42.5°	3	4	4	5	6	6	7	7	7	7	8
-45°	3	3	4	4	4	5	6	6	6	7	7
-47.5°	2	3	3	3	4	4	4	4	5	5	6
-50°	2	2	2	3	3	3	3	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: P246968 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3010-12-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°	3	3	3	4	3	3	3	3	3	3	3
50°	4	4	4	4	4	4	4	4	4	4	4
47.5°	6	6	6	6	6	6	6	6	5	5	4
45°	7	7	7	7	7	7	7	7	7	6	6
42.5°	8	8	8	8	8	8	8	8	7	7	7
40°	9	10	10	10	10	10	9	9	9	8	8
37.5°	11	11	11	12	11	11	11	11	10	10	9
35°	13	14	14	14	14	14	13	13	12	11	11
32.5°	15	16	16	16	16	16	15	15	15	14	13
30°	18	19	19	20	19	19	18	17	16	15	15
27.5°	22	23	24	24	24	23	22	21	19	18	16
25°	29	30	32	32	32	30	29	26	23	21	19
22.5°	40	43	45	46	45	43	40	35	30	26	23
20°	59	66	71	73	71	66	59	49	41	33	28
17.5°	96	115	127	131	127	115	96	72	58	44	34
15°	182	245	284	298	284	245	182	120	86	61	44
12.5°	353	486	571	601	571	486	353	234	129	86	58
10°	604	785	904	946	904	785	604	406	234	120	72
7.5°	864	1080	1220	1269	1220	1080	864	604	353	182	96
5°	1080	1321	1456	1498	1456	1321	1080	785	486	245	115
2.5°	1220	1456	1541	1539	1541	1456	1220	904	571	284	127
0°	1269	1498	1539	1507	1539	1498	1269	946	601	298	131
-2.5°	1220	1456	1541	1539	1541	1456	1220	904	571	284	127
-5°	1080	1321	1456	1498	1456	1321	1080	785	486	245	115
-7.5°	864	1080	1220	1269	1220	1080	864	604	353	182	96
-10°	604	785	904	946	904	785	604	406	234	120	72
-12.5°	353	486	571	601	571	486	353	234	129	86	58
-15°	182	245	284	298	284	245	182	120	86	61	44
-17.5°	96	115	127	131	127	115	96	72	58	44	34
-20°	59	66	71	73	71	66	59	49	41	33	28



REPORT NUMBER: P246968 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3010-12-BK-OSL

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	40	43	45	46	45	43	40	35	30	26	23
-25°	29	30	32	32	32	30	29	26	23	21	19
-27.5°	22	23	24	24	24	23	22	21	19	18	16
-30°	18	19	19	20	19	19	18	17	16	15	15
-32.5°	15	16	16	16	16	16	15	15	15	14	13
-35°	13	14	14	14	14	14	13	13	12	11	11
-37.5°	11	11	11	12	11	11	11	11	10	10	9
-40°	9	10	10	10	10	10	9	9	9	8	8
-42.5°	8	8	8	8	8	8	8	8	7	7	7
-45°	7	7	7	7	7	7	7	7	7	6	6
-47.5°	6	6	6	6	6	6	6	6	5	5	4
-50°	4	4	4	4	4	4	4	4	4	4	4
-52.5°	3	3	3	4	3	3	3	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: P246968 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3010-12-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°	3	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	4	4	4	3	3	2	2	1	1
42.5°	7	6	6	5	4	4	3	3	2	2	1
40°	7	7	7	6	6	5	4	3	3	2	2
37.5°	9	8	7	7	7	6	5	4	3	3	2
35°	10	9	8	8	7	7	6	5	4	3	3
32.5°	11	11	10	9	8	7	7	6	5	4	3
30°	14	12	11	10	9	8	7	7	6	4	4
27.5°	15	14	13	11	10	9	8	7	6	5	4
25°	17	16	14	13	11	10	8	7	7	6	4
22.5°	20	18	16	14	12	11	9	8	7	6	5
20°	23	20	17	15	14	11	10	9	7	7	6
17.5°	28	23	19	16	15	13	11	9	8	7	6
15°	33	26	21	18	15	14	11	10	8	7	6
12.5°	41	30	23	19	16	15	12	10	9	7	7
10°	49	35	26	21	17	15	13	11	9	8	7
7.5°	59	40	29	22	18	15	13	11	9	8	7
5°	66	43	30	23	19	16	14	11	10	8	7
2.5°	71	45	32	24	19	16	14	11	10	8	7
0°	73	46	32	24	20	16	14	12	10	8	7
-2.5°	71	45	32	24	19	16	14	11	10	8	7
-5°	66	43	30	23	19	16	14	11	10	8	7
-7.5°	59	40	29	22	18	15	13	11	9	8	7
-10°	49	35	26	21	17	15	13	11	9	8	7
-12.5°	41	30	23	19	16	15	12	10	9	7	7
-15°	33	26	21	18	15	14	11	10	8	7	6
-17.5°	28	23	19	16	15	13	11	9	8	7	6
-20°	23	20	17	15	14	11	10	9	7	7	6



REPORT NUMBER: P246968 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3010-12-BK-OSL

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	20	18	16	14	12	11	9	8	7	6	5
-25°	17	16	14	13	11	10	8	7	7	6	4
-27.5°	15	14	13	11	10	9	8	7	6	5	4
-30°	14	12	11	10	9	8	7	7	6	4	4
-32.5°	11	11	10	9	8	7	7	6	5	4	3
-35°	10	9	8	8	7	7	6	5	4	3	3
-37.5°	9	8	7	7	7	6	5	4	3	3	2
-40°	7	7	7	6	6	5	4	3	3	2	2
-42.5°	7	6	6	5	4	4	3	3	2	2	1
-45°	6	5	4	4	4	3	3	2	2	1	1
-47.5°	4	4	4	3	3	3	2	2	1	1	0
-50°	3	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: P246968 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3010-12-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	3	3	2	1	0	0	0	0	0	0
17.5°	4	4	3	2	1	0	0	0	0	0	0
15°	5	4	3	2	1	0	0	0	0	0	0
12.5°	5	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	3	3	2	1	0	0	0	0	0
5°	6	4	3	3	2	1	0	0	0	0	0
2.5°	6	4	3	3	2	1	0	0	0	0	0
0°	6	4	4	3	2	1	0	0	0	0	0
-2.5°	6	4	3	3	2	1	0	0	0	0	0
-5°	6	4	3	3	2	1	0	0	0	0	0
-7.5°	6	4	3	3	2	1	0	0	0	0	0
-10°	6	4	3	2	2	1	0	0	0	0	0
-12.5°	5	4	3	2	1	1	0	0	0	0	0
-15°	5	4	3	2	1	0	0	0	0	0	0
-17.5°	4	4	3	2	1	0	0	0	0	0	0
-20°	4	3	3	2	1	0	0	0	0	0	0



REPORT NUMBER: P246968 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3010-12-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: P246968 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3010-12-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: P246968 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 203-8LED3010-12-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)