

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: P246972 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P246972 (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: 203-8LED3010-12-CS-OSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 3000K CCT, 10 DEGREE SPOT OPTIC,
REGRESSED HOOD SILVER, 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

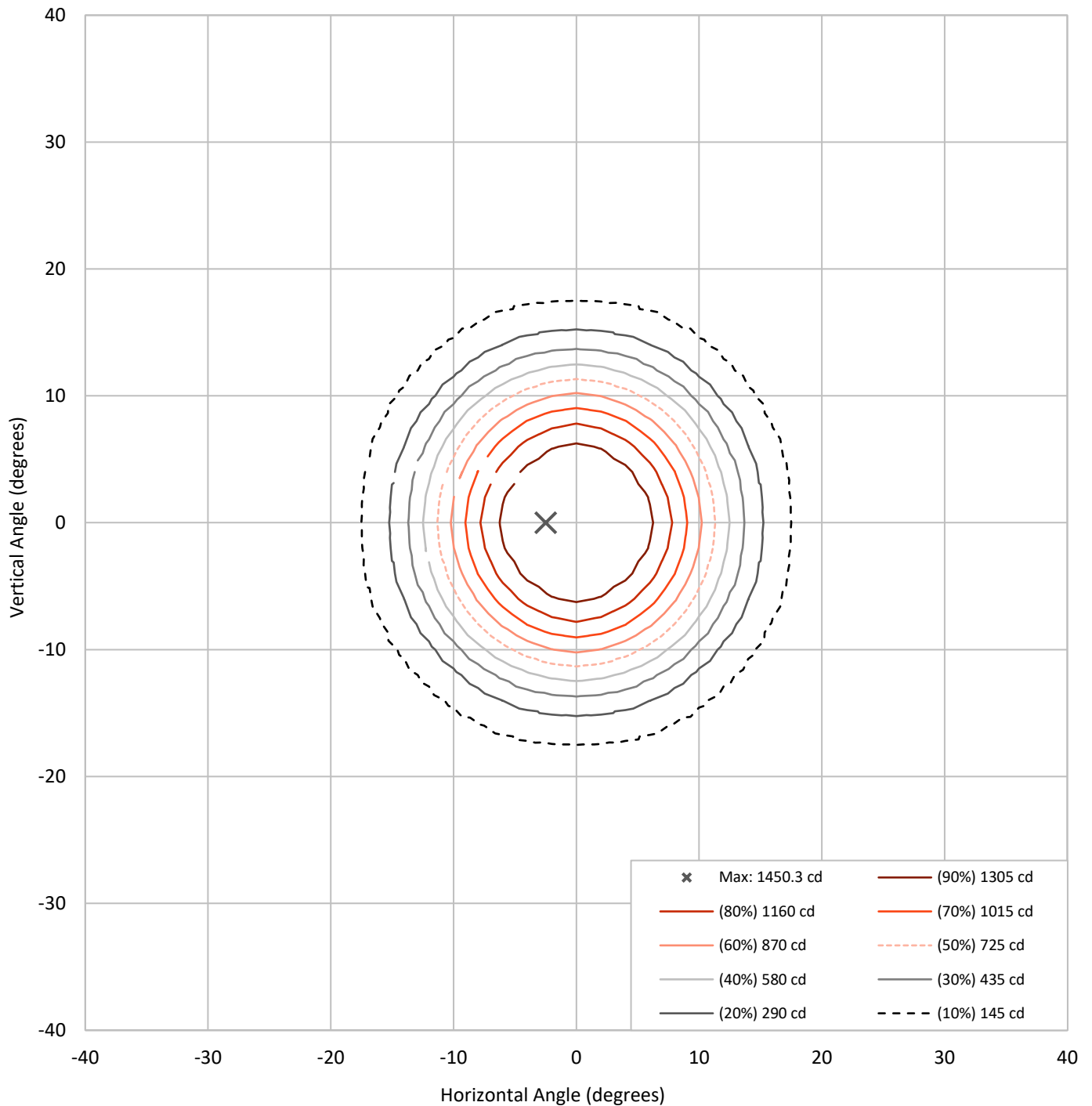
Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	256.8 lumens	Max Intensity:	1450.3 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	34.2 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	22.7°H x 22.1°V	Field Angle (10%):	34.5°H x 34.4°V
Beam Lumens:	130.4 lumens	Field Lumens:	198.8 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: P246972 (CONVERTED FROM TYPE C PHOTOMETRY)

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Iso-Candela Plot



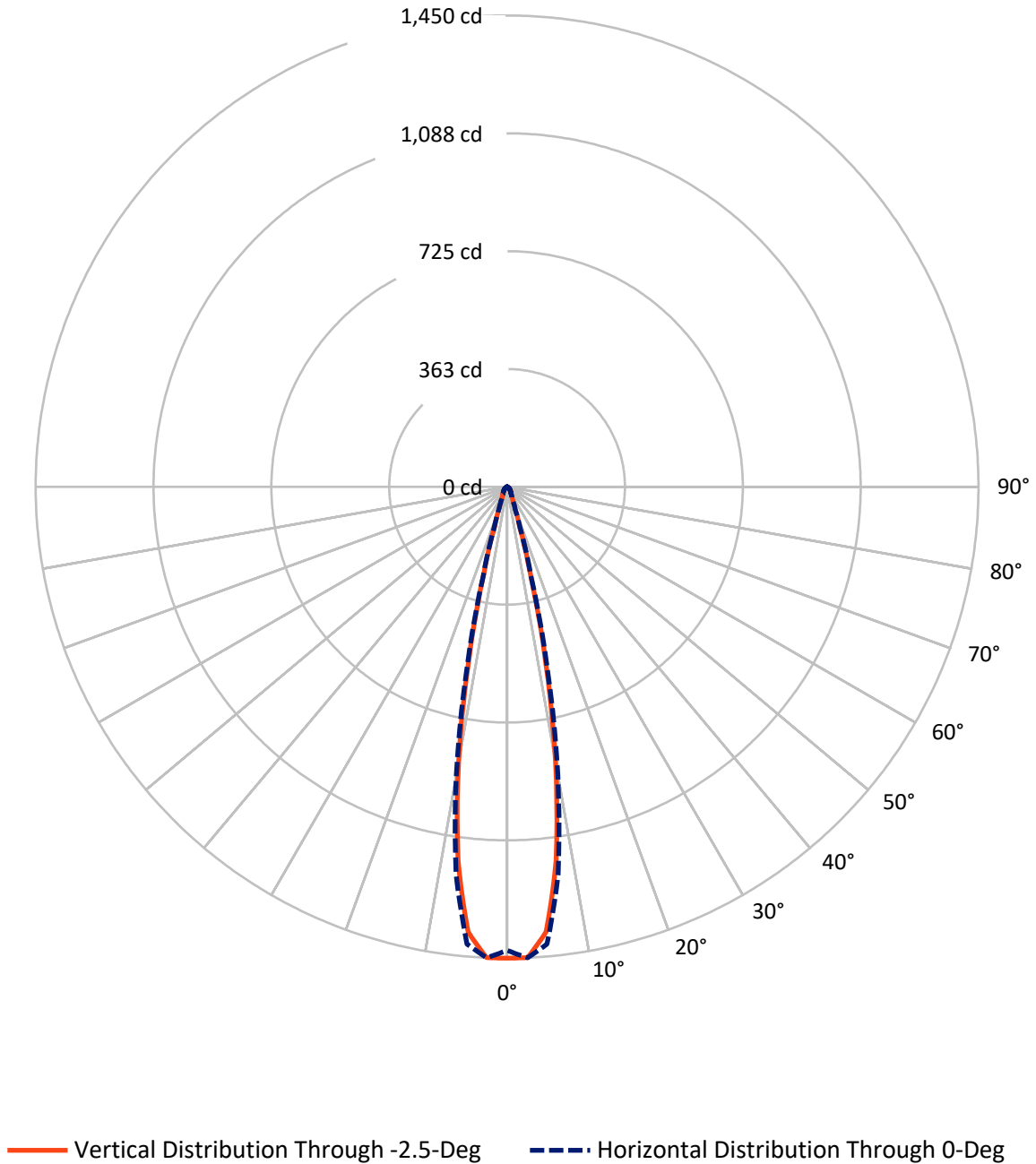
REPORT NUMBER: P246972 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3010-12-CS-OSL

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	0.0	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	0.1	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	0.2	0.4	0.8	2.4	8.7	8.7	2.4	0.8	0.4	0.2	0.1	0.0		
10	0.0	0.0	0.1	0.3	0.5	1.1	8.5	33.7	33.7	8.5	1.1	0.5	0.3	0.1	0.0	0.0	
0		0.0	0.1	0.3	0.5	1.1	8.5	33.7	33.7	8.5	1.1	0.5	0.3	0.1	0.0		
-10	0.0	0.0	0.1	0.3	0.5	1.1	8.5	33.7	33.7	8.5	1.1	0.5	0.3	0.1	0.0	0.0	
-20		0.0	0.1	0.2	0.4	0.8	2.4	8.7	8.7	2.4	0.8	0.4	0.2	0.1	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	
-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		
-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	
-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	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	

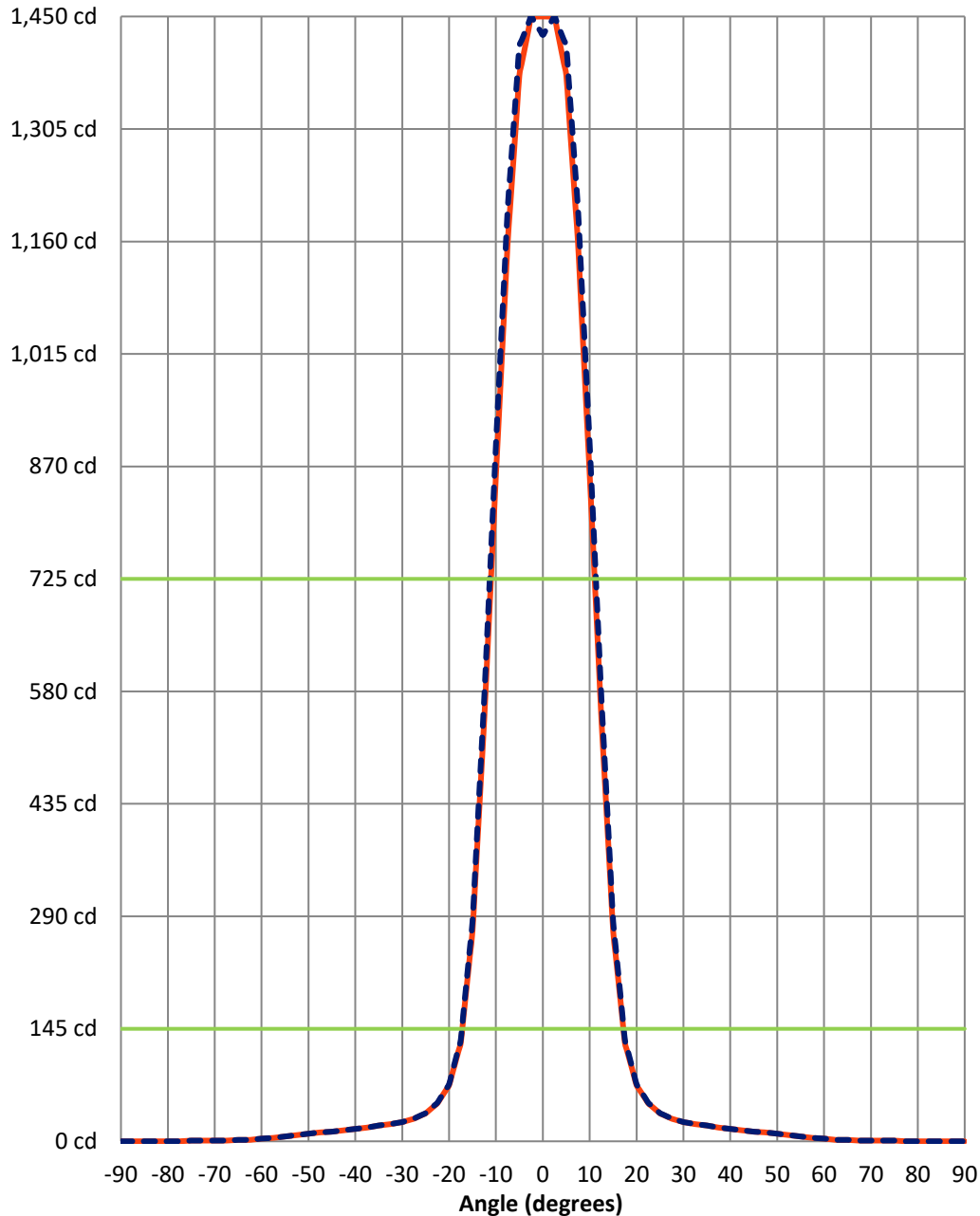
REPORT NUMBER: P246972 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 203-8LED3010-12-CS-OSL

Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
H Angle: 22.7°
V Angle: 22.1°
Lumens: 130.4
Efficiency: 50.8%

Field:
H Angle: 34.5°
V Angle: 34.4°
Lumens: 198.8
Efficiency: 77.4%

Spill:
Lumens: 58
Efficiency: 22.6%

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



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 CATALOG NUMBER: 203-8LED3010-12-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: P246972 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3010-12-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: P246972 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3010-12-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	3	4	4
45°	1	1	1	1	2	2	3	4	4	5	6
42.5°	1	1	1	2	2	2	3	4	5	6	7
40°	1	1	2	2	2	3	4	5	6	7	8
37.5°	1	1	2	2	3	4	4	6	7	8	9
35°	1	2	2	2	3	4	5	6	8	9	10
32.5°	1	2	2	3	4	5	6	7	9	10	11
30°	1	2	2	3	4	5	7	8	10	11	12
27.5°	2	2	2	4	5	6	8	9	10	12	12
25°	2	2	3	4	5	7	8	10	11	12	13
22.5°	2	2	3	4	6	7	9	10	12	12	14
20°	2	2	4	4	6	8	9	11	12	13	15
17.5°	2	2	4	5	7	8	10	11	12	14	15
15°	2	3	4	5	7	9	10	12	13	14	16
12.5°	2	3	4	6	7	9	11	12	13	15	17
10°	2	3	4	6	8	9	11	12	14	15	17
7.5°	2	3	4	6	8	10	11	12	14	16	17
5°	2	3	4	6	8	10	11	12	14	16	18
2.5°	2	3	4	6	8	10	11	12	14	16	18
0°	2	4	4	6	8	10	12	12	14	16	18
-2.5°	2	3	4	6	8	10	11	12	14	16	18
-5°	2	3	4	6	8	10	11	12	14	16	18
-7.5°	2	3	4	6	8	10	11	12	14	16	17
-10°	2	3	4	6	8	9	11	12	14	15	17
-12.5°	2	3	4	6	7	9	11	12	13	15	17
-15°	2	3	4	5	7	9	10	12	13	14	16
-17.5°	2	2	4	5	7	8	10	11	12	14	15
-20°	2	2	4	4	6	8	9	11	12	13	15



REPORT NUMBER: P246972 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3010-12-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	3	4	6	7	9	10	12	12	14
-25°	2	2	3	4	5	7	8	10	11	12	13
-27.5°	2	2	2	4	5	6	8	9	10	12	12
-30°	1	2	2	3	4	5	7	8	10	11	12
-32.5°	1	2	2	3	4	5	6	7	9	10	11
-35°	1	2	2	2	3	4	5	6	8	9	10
-37.5°	1	1	2	2	3	4	4	6	7	8	9
-40°	1	1	2	2	2	3	4	5	6	7	8
-42.5°	1	1	1	2	2	2	3	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	3	4	4
-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: P246972 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3010-12-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	2	3	3	3
57.5°	2	2	2	2	3	3	4	4	4	4	4
55°	2	3	3	4	4	4	4	5	5	6	6
52.5°	3	4	4	5	5	6	6	7	7	7	8
50°	4	5	5	6	7	7	8	8	9	9	9
47.5°	5	6	7	8	8	9	9	10	10	11	11
45°	6	7	8	9	10	10	11	11	12	12	12
42.5°	8	9	10	10	11	12	12	12	13	13	14
40°	9	10	11	12	12	12	13	14	14	15	15
37.5°	10	11	12	12	13	14	15	15	16	17	17
35°	11	12	13	14	15	15	16	17	18	18	19
32.5°	12	13	14	15	16	17	18	19	20	21	21
30°	13	14	15	16	17	18	20	21	22	22	23
27.5°	14	15	16	17	19	20	21	22	24	25	26
25°	15	16	17	19	21	22	23	25	27	29	31
22.5°	15	17	18	20	22	23	25	28	31	35	39
20°	16	18	20	21	23	25	28	33	37	45	52
17.5°	17	19	21	22	25	28	33	39	47	60	73
15°	18	20	22	24	27	31	37	47	63	87	121
12.5°	18	21	22	25	29	35	45	60	87	129	225
10°	19	21	23	26	31	39	52	73	121	225	387
7.5°	20	22	24	28	33	43	61	97	178	336	575
5°	20	22	24	29	35	47	68	116	235	463	746
2.5°	20	22	25	29	36	49	72	127	271	544	859
0°	20	22	25	29	36	50	74	131	284	572	899
-2.5°	20	22	25	29	36	49	72	127	271	544	859
-5°	20	22	24	29	35	47	68	116	235	463	746
-7.5°	20	22	24	28	33	43	61	97	178	336	575
-10°	19	21	23	26	31	39	52	73	121	225	387
-12.5°	18	21	22	25	29	35	45	60	87	129	225
-15°	18	20	22	24	27	31	37	47	63	87	121
-17.5°	17	19	21	22	25	28	33	39	47	60	73
-20°	16	18	20	21	23	25	28	33	37	45	52



REPORT NUMBER: P246972 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3010-12-CS-OSL

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	15	17	18	20	22	23	25	28	31	35	39
-25°	15	16	17	19	21	22	23	25	27	29	31
-27.5°	14	15	16	17	19	20	21	22	24	25	26
-30°	13	14	15	16	17	18	20	21	22	22	23
-32.5°	12	13	14	15	16	17	18	19	20	21	21
-35°	11	12	13	14	15	15	16	17	18	18	19
-37.5°	10	11	12	12	13	14	15	15	16	17	17
-40°	9	10	11	12	12	12	13	14	14	15	15
-42.5°	8	9	10	10	11	12	12	12	13	13	14
-45°	6	7	8	9	10	10	11	11	12	12	12
-47.5°	5	6	7	8	8	9	9	10	10	11	11
-50°	4	5	5	6	7	7	8	8	9	9	9
-52.5°	3	4	4	5	5	6	6	7	7	7	8
-55°	2	3	3	4	4	4	4	5	5	6	6
-57.5°	2	2	2	2	3	3	4	4	4	4	4
-60°	2	2	2	2	2	2	2	2	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: P246972 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3010-12-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	3	3	4	3	3	3	3	3	3	2
57.5°	4	4	4	4	4	4	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°	11	11	11	12	11	11	11	11	11	10	10
45°	12	12	12	12	12	12	12	12	12	12	11
42.5°	14	14	14	14	14	14	14	14	13	13	12
40°	16	16	16	16	16	16	16	15	15	14	14
37.5°	17	18	18	18	18	18	17	17	17	16	15
35°	20	20	20	20	20	20	20	19	18	18	17
32.5°	22	22	22	22	22	22	22	21	21	20	19
30°	24	24	25	25	25	24	24	23	22	22	21
27.5°	28	29	29	29	29	29	28	26	25	24	22
25°	33	35	36	36	36	35	33	31	29	27	25
22.5°	43	47	49	50	49	47	43	39	35	31	28
20°	61	68	72	74	72	68	61	52	45	37	33
17.5°	97	116	127	131	127	116	97	73	60	47	39
15°	178	235	271	284	271	235	178	121	87	63	47
12.5°	336	463	544	572	544	463	336	225	129	87	60
10°	575	746	859	899	859	746	575	387	225	121	73
7.5°	822	1023	1159	1203	1159	1023	822	575	336	178	97
5°	1023	1251	1375	1412	1375	1251	1023	746	463	235	116
2.5°	1159	1375	1450	1450	1450	1375	1159	859	544	271	127
0°	1203	1412	1450	1426	1450	1412	1203	899	572	284	131
-2.5°	1159	1375	1450	1450	1450	1375	1159	859	544	271	127
-5°	1023	1251	1375	1412	1375	1251	1023	746	463	235	116
-7.5°	822	1023	1159	1203	1159	1023	822	575	336	178	97
-10°	575	746	859	899	859	746	575	387	225	121	73
-12.5°	336	463	544	572	544	463	336	225	129	87	60
-15°	178	235	271	284	271	235	178	121	87	63	47
-17.5°	97	116	127	131	127	116	97	73	60	47	39
-20°	61	68	72	74	72	68	61	52	45	37	33



REPORT NUMBER: P246972 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3010-12-CS-OSL

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	43	47	49	50	49	47	43	39	35	31	28
-25°	33	35	36	36	36	35	33	31	29	27	25
-27.5°	28	29	29	29	29	29	28	26	25	24	22
-30°	24	24	25	25	25	24	24	23	22	22	21
-32.5°	22	22	22	22	22	22	22	21	21	20	19
-35°	20	20	20	20	20	20	20	19	18	18	17
-37.5°	17	18	18	18	18	18	17	17	17	16	15
-40°	16	16	16	16	16	16	16	15	15	14	14
-42.5°	14	14	14	14	14	14	14	14	13	13	12
-45°	12	12	12	12	12	12	12	12	12	12	11
-47.5°	11	11	11	12	11	11	11	11	11	10	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	4	4	4	4	4	4	4	4	4	4
-60°	3	3	3	4	3	3	3	3	3	3	2
-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: P246972 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3010-12-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	3	3	2	2	2	2	2	2	1	1
55°	4	4	4	4	3	3	2	2	2	2	1
52.5°	6	6	5	5	4	4	3	3	2	2	2
50°	8	7	7	6	5	5	4	4	3	2	2
47.5°	9	9	8	8	7	6	5	4	4	3	3
45°	11	10	10	9	8	7	6	6	5	4	4
42.5°	12	12	11	10	10	9	8	7	6	5	4
40°	13	12	12	12	11	10	9	8	7	6	5
37.5°	15	14	13	12	12	11	10	9	8	7	6
35°	16	15	15	14	13	12	11	10	9	8	6
32.5°	18	17	16	15	14	13	12	11	10	9	7
30°	20	18	17	16	15	14	13	12	11	10	8
27.5°	21	20	19	17	16	15	14	12	12	10	9
25°	23	22	21	19	17	16	15	13	12	11	10
22.5°	25	23	22	20	18	17	15	14	12	12	10
20°	28	25	23	21	20	18	16	15	13	12	11
17.5°	33	28	25	22	21	19	17	15	14	12	11
15°	37	31	27	24	22	20	18	16	14	13	12
12.5°	45	35	29	25	22	21	18	17	15	13	12
10°	52	39	31	26	23	21	19	17	15	14	12
7.5°	61	43	33	28	24	22	20	17	16	14	12
5°	68	47	35	29	24	22	20	18	16	14	12
2.5°	72	49	36	29	25	22	20	18	16	14	12
0°	74	50	36	29	25	22	20	18	16	14	12
-2.5°	72	49	36	29	25	22	20	18	16	14	12
-5°	68	47	35	29	24	22	20	18	16	14	12
-7.5°	61	43	33	28	24	22	20	17	16	14	12
-10°	52	39	31	26	23	21	19	17	15	14	12
-12.5°	45	35	29	25	22	21	18	17	15	13	12
-15°	37	31	27	24	22	20	18	16	14	13	12
-17.5°	33	28	25	22	21	19	17	15	14	12	11
-20°	28	25	23	21	20	18	16	15	13	12	11



REPORT NUMBER: P246972 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3010-12-CS-OSL

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	25	23	22	20	18	17	15	14	12	12	10
-25°	23	22	21	19	17	16	15	13	12	11	10
-27.5°	21	20	19	17	16	15	14	12	12	10	9
-30°	20	18	17	16	15	14	13	12	11	10	8
-32.5°	18	17	16	15	14	13	12	11	10	9	7
-35°	16	15	15	14	13	12	11	10	9	8	6
-37.5°	15	14	13	12	12	11	10	9	8	7	6
-40°	13	12	12	12	11	10	9	8	7	6	5
-42.5°	12	12	11	10	10	9	8	7	6	5	4
-45°	11	10	10	9	8	7	6	6	5	4	4
-47.5°	9	9	8	8	7	6	5	4	4	3	3
-50°	8	7	7	6	5	5	4	4	3	2	2
-52.5°	6	6	5	5	4	4	3	3	2	2	2
-55°	4	4	4	4	3	3	2	2	2	2	1
-57.5°	4	3	3	2	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: P246972 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3010-12-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°	3	2	2	2	1	1	1	1	1	1	0
40°	4	3	2	2	2	1	1	1	1	1	0
37.5°	4	4	3	2	2	1	1	1	1	1	0
35°	5	4	3	2	2	2	1	1	1	1	1
32.5°	6	5	4	3	2	2	1	1	1	1	1
30°	7	5	4	3	2	2	1	1	1	1	1
27.5°	8	6	5	4	2	2	2	1	1	1	1
25°	8	7	5	4	3	2	2	1	1	1	1
22.5°	9	7	6	4	3	2	2	1	1	1	1
20°	9	8	6	4	4	2	2	1	1	1	1
17.5°	10	8	7	5	4	2	2	1	1	1	1
15°	10	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°	11	10	8	6	4	3	2	2	1	1	1
5°	11	10	8	6	4	3	2	2	1	1	1
2.5°	11	10	8	6	4	3	2	2	1	1	1
0°	12	10	8	6	4	4	2	2	1	1	1
-2.5°	11	10	8	6	4	3	2	2	1	1	1
-5°	11	10	8	6	4	3	2	2	1	1	1
-7.5°	11	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°	10	9	7	5	4	3	2	1	1	1	1
-17.5°	10	8	7	5	4	2	2	1	1	1	1
-20°	9	8	6	4	4	2	2	1	1	1	1



REPORT NUMBER: P246972 (CONVERTED FROM TYPE C PHOTOMETRY)
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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	3	2	2	1	1	1	1
-25°	8	7	5	4	3	2	2	1	1	1	1
-27.5°	8	6	5	4	2	2	2	1	1	1	1
-30°	7	5	4	3	2	2	1	1	1	1	1
-32.5°	6	5	4	3	2	2	1	1	1	1	1
-35°	5	4	3	2	2	2	1	1	1	1	1
-37.5°	4	4	3	2	2	1	1	1	1	1	0
-40°	4	3	2	2	2	1	1	1	1	1	0
-42.5°	3	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: P246972 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3010-12-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: P246972 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 203-8LED3010-12-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)