

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: P246982 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **203-8LED3025-12-CS-OSL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P246982 (CONVERTED FROM TYPE C PHOTOMETRY)
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-43)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 203-8LED3025-12-CS-OSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 3000K CCT, 25 DEGREE NARROW OPTIC, REGRESSED HOOD SILVER, OVERALL SPREAD LENS
Light Source: (1) SORAA 3000K 90 CRI LED
SM16-07-25D-930-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	302.2 lumens	Max Intensity:	1177.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	39.8 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	26.5°H x 26.5°V	Field Angle (10%):	50.5°H x 50.5°V
Beam Lumens:	142.5 lumens	Field Lumens:	266 lumens
Beam Efficiency:	47.2%	Field Efficiency:	88.0%

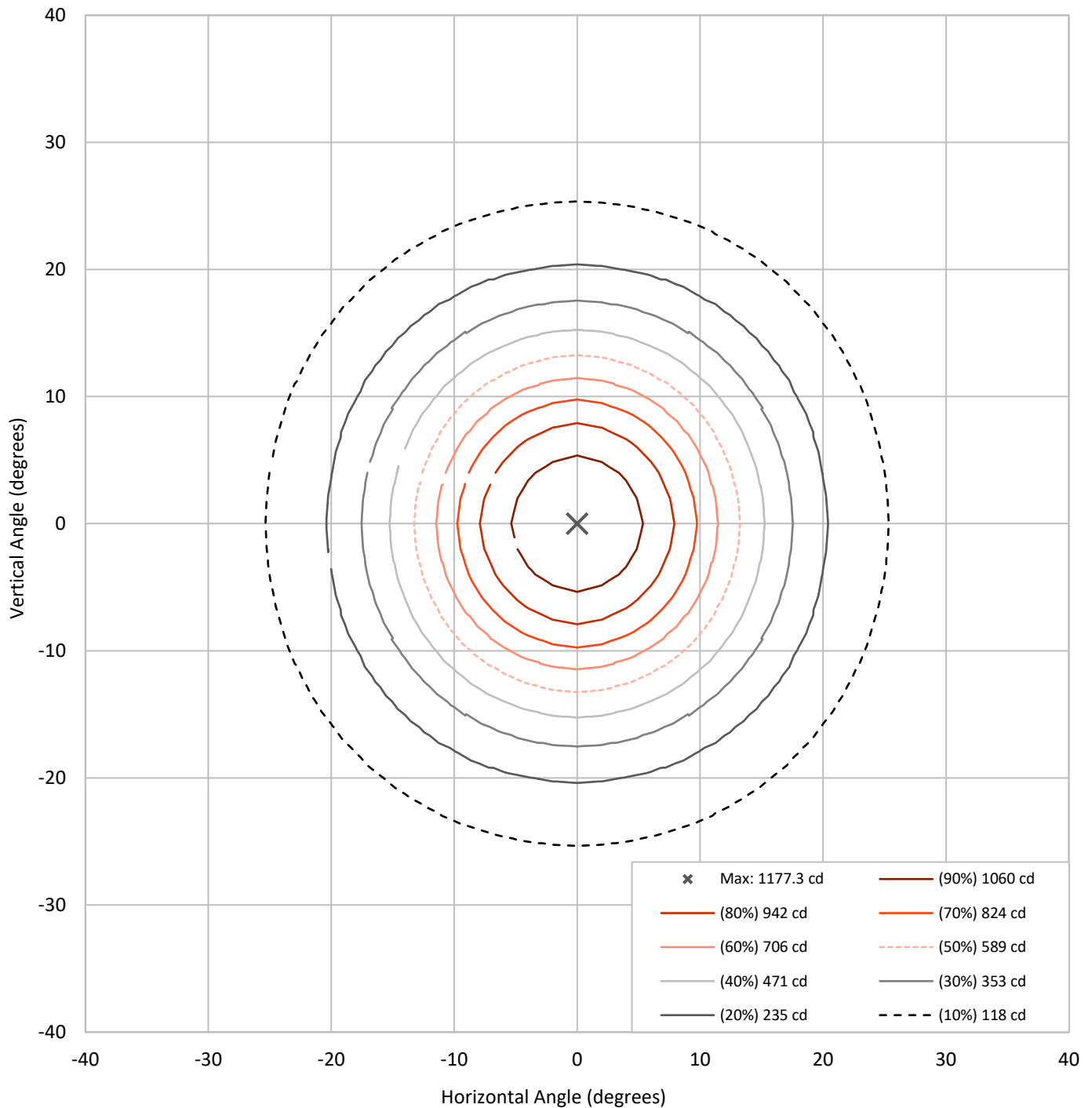
Input Watts (W): 7.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P246982 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 203-8LED3025-12-CS-OSL

Iso-Candela Plot



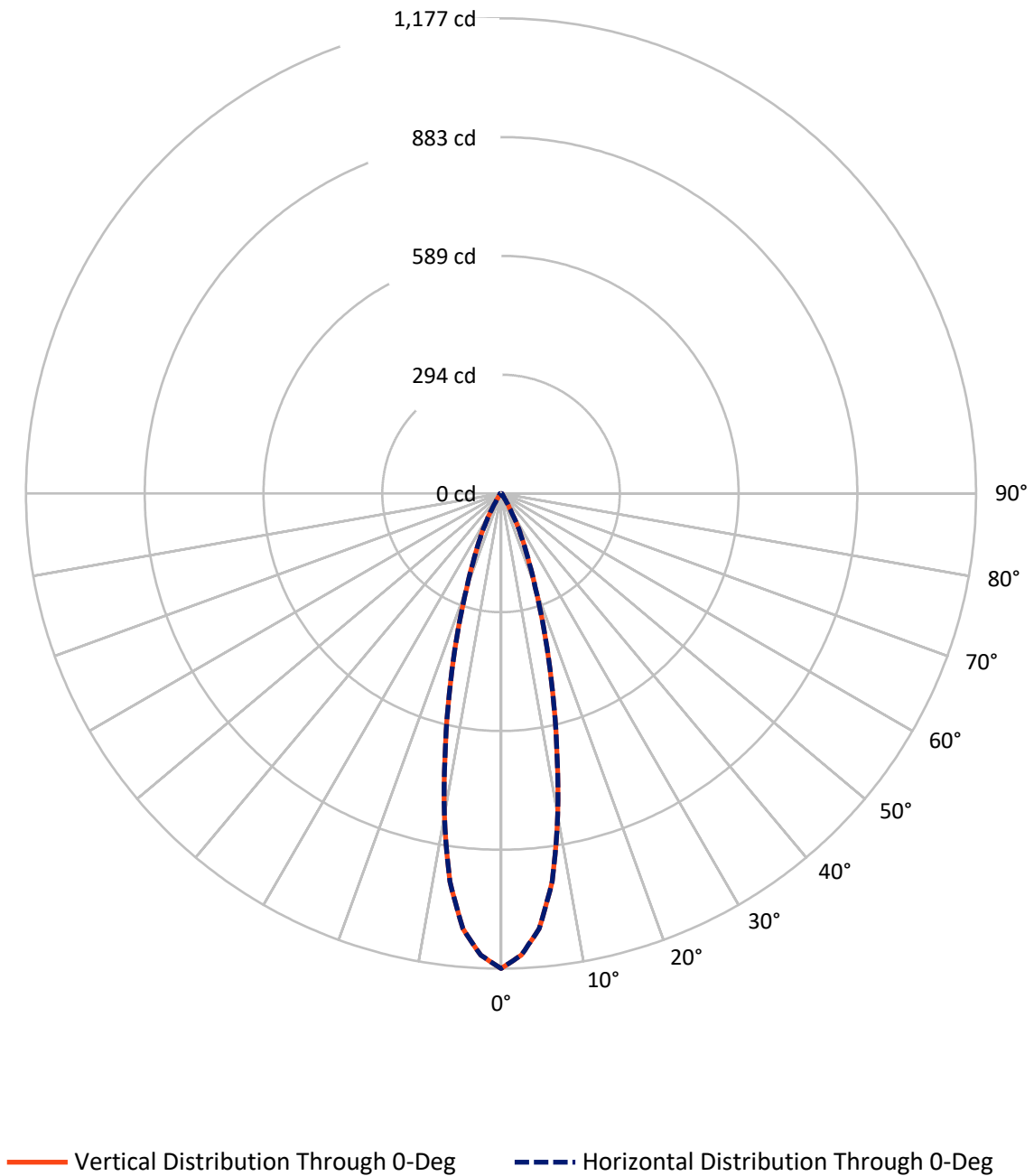
REPORT NUMBER: P246982 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3025-12-CS-OSL

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	0.0	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	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	
40		0.0	0.0	0.1	0.1	0.2	0.3	0.5	0.5	0.3	0.2	0.1	0.1	0.0	0.0		
30	0.0	0.0	0.0	0.1	0.2	0.5	1.9	3.6	3.6	1.9	0.5	0.2	0.1	0.0	0.0	0.0	
20		0.0	0.0	0.1	0.3	1.8	6.6	13.3	13.3	6.6	1.8	0.3	0.1	0.0	0.0		
10	0.0	0.0	0.0	0.1	0.4	3.3	13.0	28.1	28.1	13.0	3.3	0.4	0.1	0.0	0.0	0.0	
0		0.0	0.0	0.1	0.4	3.3	13.0	28.1	28.1	13.0	3.3	0.4	0.1	0.0	0.0		
-10	0.0	0.0	0.0	0.1	0.3	1.8	6.6	13.3	13.3	6.6	1.8	0.3	0.1	0.0	0.0	0.0	
-20		0.0	0.0	0.1	0.2	0.5	1.9	3.6	3.6	1.9	0.5	0.2	0.1	0.0	0.0		
-30	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.5	0.5	0.3	0.2	0.1	0.1	0.0	0.0	0.0	
-40		0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	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		
-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			
-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		
-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			
-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	

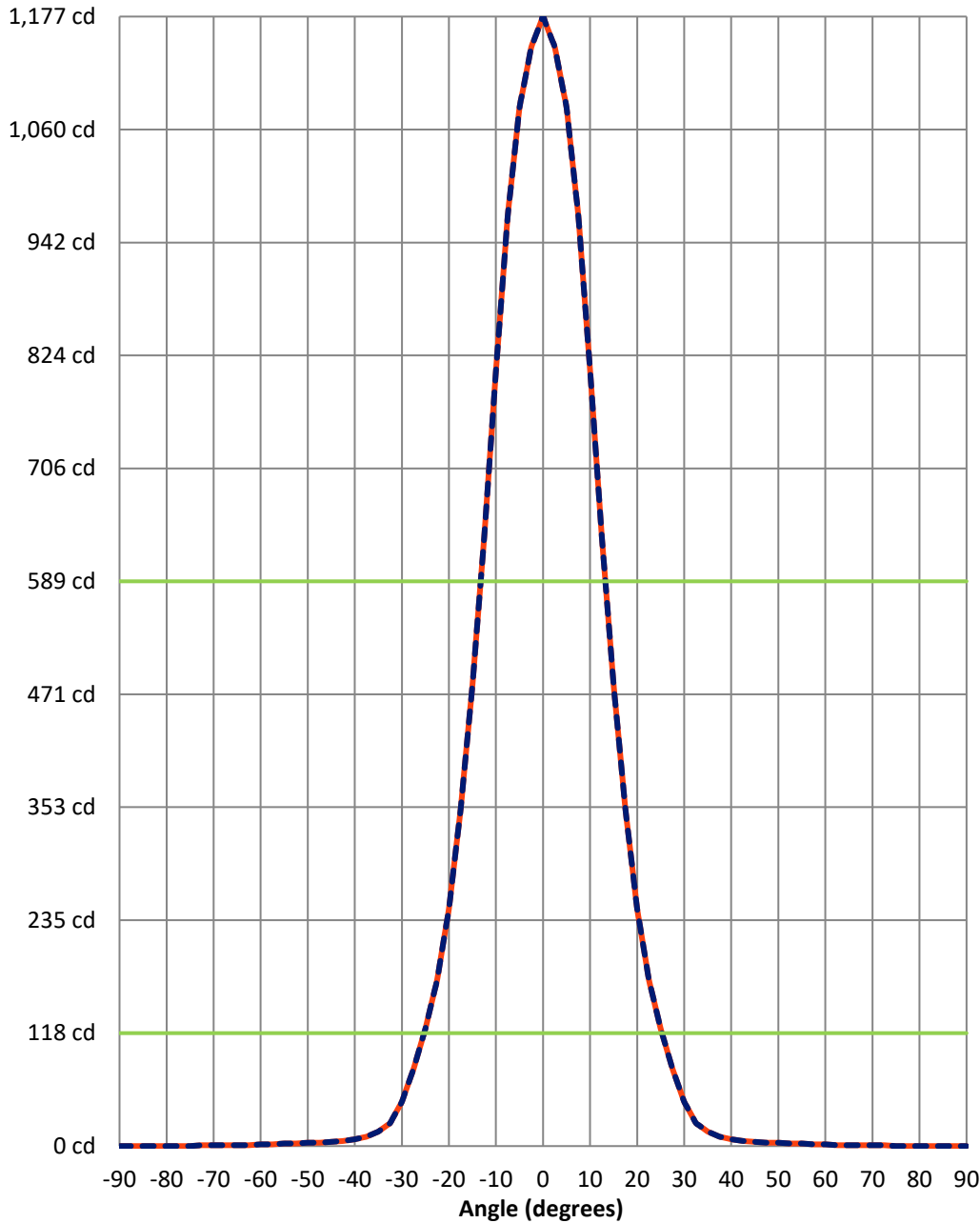
REPORT NUMBER: P246982 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 203-8LED3025-12-CS-OSL

Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 26.5°
 V Angle: 26.5°
 Lumens: 142.5
 Efficiency: 47.2%

Field:
 H Angle: 50.5°
 V Angle: 50.5°
 Lumens: 266
 Efficiency: 88.0%

Spill:
 Lumens: 36.1
 Efficiency: 12.0%

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



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 CATALOG NUMBER: 203-8LED3025-12-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	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	1
45°	0	0	0	0	0	0	0	0	0	0	1
42.5°	0	0	0	0	0	0	0	0	0	0	1
40°	0	0	0	0	0	0	0	0	0	1	1
37.5°	0	0	0	0	0	0	0	0	0	1	1
35°	0	0	0	0	0	0	0	0	0	1	1
32.5°	0	0	0	0	0	0	0	0	1	1	1
30°	0	0	0	0	0	0	0	0	1	1	1
27.5°	0	0	0	0	0	0	0	0	1	1	1
25°	0	0	0	0	0	0	0	0	1	1	1
22.5°	0	0	0	0	0	0	0	0	1	1	1
20°	0	0	0	0	0	0	0	1	1	1	1
17.5°	0	0	0	0	0	0	0	1	1	1	1
15°	0	0	0	0	0	0	0	1	1	1	1
12.5°	0	0	0	0	0	0	0	1	1	1	1
10°	0	0	0	0	0	0	0	1	1	1	1
7.5°	0	0	0	0	0	0	0	1	1	1	1
5°	0	0	0	0	0	0	0	1	1	1	1
2.5°	0	0	0	0	0	0	0	1	1	1	1
0°	0	0	0	0	0	0	0	1	1	1	1
-2.5°	0	0	0	0	0	0	0	1	1	1	1
-5°	0	0	0	0	0	0	0	1	1	1	1
-7.5°	0	0	0	0	0	0	0	1	1	1	1
-10°	0	0	0	0	0	0	0	1	1	1	1
-12.5°	0	0	0	0	0	0	0	1	1	1	1
-15°	0	0	0	0	0	0	0	1	1	1	1
-17.5°	0	0	0	0	0	0	0	1	1	1	1
-20°	0	0	0	0	0	0	0	1	1	1	1



REPORT NUMBER: P246982 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3025-12-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	0	1	1	1
-25°	0	0	0	0	0	0	0	0	1	1	1
-27.5°	0	0	0	0	0	0	0	0	1	1	1
-30°	0	0	0	0	0	0	0	0	1	1	1
-32.5°	0	0	0	0	0	0	0	0	1	1	1
-35°	0	0	0	0	0	0	0	0	0	1	1
-37.5°	0	0	0	0	0	0	0	0	0	1	1
-40°	0	0	0	0	0	0	0	0	0	1	1
-42.5°	0	0	0	0	0	0	0	0	0	0	1
-45°	0	0	0	0	0	0	0	0	0	0	1
-47.5°	0	0	0	0	0	0	0	0	0	0	1
-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: P246982 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3025-12-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	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	1	1
65°	0	0	0	0	0	0	1	1	1	1	1
62.5°	0	0	0	0	0	1	1	1	1	1	1
60°	0	0	0	1	1	1	1	1	1	1	1
57.5°	0	0	1	1	1	1	1	1	1	1	1
55°	0	1	1	1	1	1	1	1	1	1	1
52.5°	0	1	1	1	1	1	1	1	1	1	1
50°	1	1	1	1	1	1	1	1	1	2	2
47.5°	1	1	1	1	1	1	1	1	2	2	2
45°	1	1	1	1	1	1	1	2	2	2	2
42.5°	1	1	1	1	1	1	2	2	2	2	3
40°	1	1	1	1	1	2	2	2	2	3	3
37.5°	1	1	1	1	1	2	2	2	3	3	3
35°	1	1	1	1	2	2	2	3	3	3	4
32.5°	1	1	1	1	2	2	3	3	3	4	4
30°	1	1	1	2	2	2	3	3	3	4	4
27.5°	1	1	1	2	2	3	3	3	4	4	4
25°	1	1	1	2	2	3	3	3	4	4	5
22.5°	1	1	2	2	2	3	3	4	4	4	5
20°	1	1	2	2	3	3	3	4	4	5	6
17.5°	1	1	2	2	3	3	4	4	4	5	7
15°	1	1	2	2	3	3	4	4	5	5	7
12.5°	1	2	2	2	3	3	4	4	5	6	8
10°	1	2	2	2	3	3	4	4	5	6	9
7.5°	1	2	2	3	3	3	4	4	5	7	9
5°	1	2	2	3	3	3	4	4	5	7	9
2.5°	1	2	2	3	3	3	4	4	5	7	10
0°	1	2	2	3	3	4	4	4	5	7	10
-2.5°	1	2	2	3	3	3	4	4	5	7	10
-5°	1	2	2	3	3	3	4	4	5	7	9
-7.5°	1	2	2	3	3	3	4	4	5	7	9
-10°	1	2	2	2	3	3	4	4	5	6	9
-12.5°	1	2	2	2	3	3	4	4	5	6	8
-15°	1	1	2	2	3	3	4	4	5	5	7
-17.5°	1	1	2	2	3	3	4	4	4	5	7
-20°	1	1	2	2	3	3	3	4	4	5	6



REPORT NUMBER: P246982 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3025-12-CS-OSL

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1	1	2	2	2	3	3	4	4	4	5
-25°	1	1	1	2	2	3	3	3	4	4	5
-27.5°	1	1	1	2	2	3	3	3	4	4	4
-30°	1	1	1	2	2	2	3	3	3	4	4
-32.5°	1	1	1	1	2	2	3	3	3	4	4
-35°	1	1	1	1	2	2	2	3	3	3	4
-37.5°	1	1	1	1	1	2	2	2	3	3	3
-40°	1	1	1	1	1	2	2	2	2	3	3
-42.5°	1	1	1	1	1	1	2	2	2	2	3
-45°	1	1	1	1	1	1	1	2	2	2	2
-47.5°	1	1	1	1	1	1	1	1	2	2	2
-50°	1	1	1	1	1	1	1	1	1	2	2
-52.5°	0	1	1	1	1	1	1	1	1	1	1
-55°	0	1	1	1	1	1	1	1	1	1	1
-57.5°	0	0	1	1	1	1	1	1	1	1	1
-60°	0	0	0	1	1	1	1	1	1	1	1
-62.5°	0	0	0	0	0	1	1	1	1	1	1
-65°	0	0	0	0	0	0	1	1	1	1	1
-67.5°	0	0	0	0	0	0	0	0	0	1	1
-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: P246982 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3025-12-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	0	0	0	0	0
72.5°	0	0	0	0	0	0	1	1	1	1	1
70°	0	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°	1	1	1	1	1	1	1	1	1	1	1
60°	1	1	1	1	1	1	1	1	1	2	2
57.5°	1	1	1	1	1	2	2	2	2	2	2
55°	1	1	2	2	2	2	2	2	2	2	2
52.5°	2	2	2	2	2	2	3	3	3	3	3
50°	2	2	2	3	3	3	3	3	3	3	3
47.5°	2	3	3	3	3	3	3	4	4	4	4
45°	3	3	3	3	3	4	4	4	4	4	4
42.5°	3	3	3	4	4	4	4	4	5	5	5
40°	3	4	4	4	4	4	5	5	5	6	6
37.5°	4	4	4	4	5	5	6	7	7	8	9
35°	4	4	4	5	6	7	7	9	10	11	13
32.5°	4	5	5	6	7	8	10	12	14	17	19
30°	4	5	6	7	9	11	14	18	21	26	33
27.5°	5	6	7	9	12	15	20	26	37	46	57
25°	6	7	9	12	16	22	32	44	60	76	92
22.5°	7	8	11	15	22	34	49	70	91	112	131
20°	7	10	14	20	32	49	73	99	126	152	179
17.5°	9	12	18	26	44	70	99	131	164	203	245
15°	10	14	21	37	60	91	126	164	211	269	331
12.5°	11	17	26	46	76	112	152	203	269	347	427
10°	13	19	33	57	92	131	179	245	331	427	533
7.5°	14	21	39	67	104	148	205	286	388	507	636
5°	14	23	43	74	114	161	227	321	436	574	725
2.5°	15	24	45	79	120	170	242	344	469	619	787
0°	15	24	46	81	122	173	247	352	481	635	809
-2.5°	15	24	45	79	120	170	242	344	469	619	787
-5°	14	23	43	74	114	161	227	321	436	574	725
-7.5°	14	21	39	67	104	148	205	286	388	507	636
-10°	13	19	33	57	92	131	179	245	331	427	533
-12.5°	11	17	26	46	76	112	152	203	269	347	427
-15°	10	14	21	37	60	91	126	164	211	269	331
-17.5°	9	12	18	26	44	70	99	131	164	203	245
-20°	7	10	14	20	32	49	73	99	126	152	179



REPORT NUMBER: P246982 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 203-8LED3025-12-CS-OSL

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	7	8	11	15	22	34	49	70	91	112	131
-25°	6	7	9	12	16	22	32	44	60	76	92
-27.5°	5	6	7	9	12	15	20	26	37	46	57
-30°	4	5	6	7	9	11	14	18	21	26	33
-32.5°	4	5	5	6	7	8	10	12	14	17	19
-35°	4	4	4	5	6	7	7	9	10	11	13
-37.5°	4	4	4	4	5	5	6	7	7	8	9
-40°	3	4	4	4	4	4	5	5	5	6	6
-42.5°	3	3	3	4	4	4	4	4	5	5	5
-45°	3	3	3	3	3	4	4	4	4	4	4
-47.5°	2	3	3	3	3	3	3	4	4	4	4
-50°	2	2	2	3	3	3	3	3	3	3	3
-52.5°	2	2	2	2	2	2	3	3	3	3	3
-55°	1	1	2	2	2	2	2	2	2	2	2
-57.5°	1	1	1	1	1	2	2	2	2	2	2
-60°	1	1	1	1	1	1	1	1	1	2	2
-62.5°	1	1	1	1	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°	0	1	1	1	1	1	1	1	1	1	1
-72.5°	0	0	0	0	0	0	1	1	1	1	1
-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: P246982 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3025-12-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°	0	0	0	0	0	0	0	0	0	0	0
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	1	1
62.5°	1	1	1	1	1	1	1	1	1	1	1
60°	2	2	2	2	2	2	2	2	2	1	1
57.5°	2	2	2	2	2	2	2	2	2	2	2
55°	3	3	3	3	3	3	3	2	2	2	2
52.5°	3	3	3	3	3	3	3	3	3	3	3
50°	3	3	3	4	3	3	3	3	3	3	3
47.5°	4	4	4	4	4	4	4	4	4	4	4
45°	4	4	4	4	4	4	4	4	4	4	4
42.5°	5	5	5	5	5	5	5	5	5	5	4
40°	7	7	7	7	7	7	7	6	6	5	5
37.5°	9	9	10	10	10	9	9	9	8	7	7
35°	14	14	15	15	15	14	14	13	11	10	9
32.5°	21	23	24	24	24	23	21	19	17	14	12
30°	39	43	45	46	45	43	39	33	26	21	18
27.5°	67	74	79	81	79	74	67	57	46	37	26
25°	104	114	120	122	120	114	104	92	76	60	44
22.5°	148	161	170	173	170	161	148	131	112	91	70
20°	205	227	242	247	242	227	205	179	152	126	99
17.5°	286	321	344	352	344	321	286	245	203	164	131
15°	388	436	469	481	469	436	388	331	269	211	164
12.5°	507	574	619	635	619	574	507	427	347	269	203
10°	636	725	787	809	787	725	636	533	427	331	245
7.5°	766	877	947	970	947	877	766	636	507	388	286
5°	877	994	1060	1082	1060	994	877	725	574	436	321
2.5°	947	1060	1123	1145	1123	1060	947	787	619	469	344
0°	970	1082	1145	1177	1145	1082	970	809	635	481	352
-2.5°	947	1060	1123	1145	1123	1060	947	787	619	469	344
-5°	877	994	1060	1082	1060	994	877	725	574	436	321
-7.5°	766	877	947	970	947	877	766	636	507	388	286
-10°	636	725	787	809	787	725	636	533	427	331	245
-12.5°	507	574	619	635	619	574	507	427	347	269	203
-15°	388	436	469	481	469	436	388	331	269	211	164
-17.5°	286	321	344	352	344	321	286	245	203	164	131
-20°	205	227	242	247	242	227	205	179	152	126	99



REPORT NUMBER: P246982 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3025-12-CS-OSL

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	148	161	170	173	170	161	148	131	112	91	70
-25°	104	114	120	122	120	114	104	92	76	60	44
-27.5°	67	74	79	81	79	74	67	57	46	37	26
-30°	39	43	45	46	45	43	39	33	26	21	18
-32.5°	21	23	24	24	24	23	21	19	17	14	12
-35°	14	14	15	15	15	14	14	13	11	10	9
-37.5°	9	9	10	10	10	9	9	9	8	7	7
-40°	7	7	7	7	7	7	7	6	6	5	5
-42.5°	5	5	5	5	5	5	5	5	5	5	4
-45°	4	4	4	4	4	4	4	4	4	4	4
-47.5°	4	4	4	4	4	4	4	4	4	4	4
-50°	3	3	3	4	3	3	3	3	3	3	3
-52.5°	3	3	3	3	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	2	2	2
-60°	2	2	2	2	2	2	2	2	2	1	1
-62.5°	1	1	1	1	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	1	1	1	1
-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: P246982 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3025-12-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°	0	0	0	0	0	0	0	0	0	0	0
72.5°	1	0	0	0	0	0	0	0	0	0	0
70°	1	1	1	1	1	1	0	0	0	0	0
67.5°	1	1	1	1	1	1	1	1	1	0	0
65°	1	1	1	1	1	1	1	1	1	1	1
62.5°	1	1	1	1	1	1	1	1	1	1	1
60°	1	1	1	1	1	1	1	1	1	1	1
57.5°	2	2	1	1	1	1	1	1	1	1	1
55°	2	2	2	2	2	1	1	1	1	1	1
52.5°	3	2	2	2	2	2	2	1	1	1	1
50°	3	3	3	3	2	2	2	2	2	1	1
47.5°	3	3	3	3	3	3	2	2	2	2	1
45°	4	4	3	3	3	3	3	2	2	2	2
42.5°	4	4	4	4	3	3	3	3	2	2	2
40°	5	4	4	4	4	4	3	3	3	2	2
37.5°	6	5	5	4	4	4	4	3	3	3	2
35°	7	7	6	5	4	4	4	4	3	3	3
32.5°	10	8	7	6	5	5	4	4	4	3	3
30°	14	11	9	7	6	5	4	4	4	3	3
27.5°	20	15	12	9	7	6	5	4	4	4	3
25°	32	22	16	12	9	7	6	5	4	4	3
22.5°	49	34	22	15	11	8	7	5	4	4	4
20°	73	49	32	20	14	10	7	6	5	4	4
17.5°	99	70	44	26	18	12	9	7	5	4	4
15°	126	91	60	37	21	14	10	7	5	5	4
12.5°	152	112	76	46	26	17	11	8	6	5	4
10°	179	131	92	57	33	19	13	9	6	5	4
7.5°	205	148	104	67	39	21	14	9	7	5	4
5°	227	161	114	74	43	23	14	9	7	5	4
2.5°	242	170	120	79	45	24	15	10	7	5	4
0°	247	173	122	81	46	24	15	10	7	5	4
-2.5°	242	170	120	79	45	24	15	10	7	5	4
-5°	227	161	114	74	43	23	14	9	7	5	4
-7.5°	205	148	104	67	39	21	14	9	7	5	4
-10°	179	131	92	57	33	19	13	9	6	5	4
-12.5°	152	112	76	46	26	17	11	8	6	5	4
-15°	126	91	60	37	21	14	10	7	5	5	4
-17.5°	99	70	44	26	18	12	9	7	5	4	4
-20°	73	49	32	20	14	10	7	6	5	4	4



REPORT NUMBER: P246982 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3025-12-CS-OSL

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	49	34	22	15	11	8	7	5	4	4	4
-25°	32	22	16	12	9	7	6	5	4	4	3
-27.5°	20	15	12	9	7	6	5	4	4	4	3
-30°	14	11	9	7	6	5	4	4	4	3	3
-32.5°	10	8	7	6	5	5	4	4	4	3	3
-35°	7	7	6	5	4	4	4	4	3	3	3
-37.5°	6	5	5	4	4	4	4	3	3	3	2
-40°	5	4	4	4	4	4	3	3	3	2	2
-42.5°	4	4	4	4	3	3	3	3	2	2	2
-45°	4	4	3	3	3	3	3	2	2	2	2
-47.5°	3	3	3	3	3	3	2	2	2	2	1
-50°	3	3	3	3	2	2	2	2	2	1	1
-52.5°	3	2	2	2	2	2	2	1	1	1	1
-55°	2	2	2	2	2	1	1	1	1	1	1
-57.5°	2	2	1	1	1	1	1	1	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	1
-65°	1	1	1	1	1	1	1	1	1	1	1
-67.5°	1	1	1	1	1	1	1	1	1	0	0
-70°	1	1	1	1	1	1	0	0	0	0	0
-72.5°	1	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: P246982 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3025-12-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°	0	0	0	0	0	0	0	0	0	0	0
65°	1	0	0	0	0	0	0	0	0	0	0
62.5°	1	1	0	0	0	0	0	0	0	0	0
60°	1	1	1	1	0	0	0	0	0	0	0
57.5°	1	1	1	1	1	0	0	0	0	0	0
55°	1	1	1	1	1	1	0	0	0	0	0
52.5°	1	1	1	1	1	1	0	0	0	0	0
50°	1	1	1	1	1	1	1	0	0	0	0
47.5°	1	1	1	1	1	1	1	1	0	0	0
45°	1	1	1	1	1	1	1	1	0	0	0
42.5°	2	1	1	1	1	1	1	1	0	0	0
40°	2	2	1	1	1	1	1	1	1	0	0
37.5°	2	2	1	1	1	1	1	1	1	0	0
35°	2	2	2	1	1	1	1	1	1	0	0
32.5°	3	2	2	1	1	1	1	1	1	1	0
30°	3	2	2	2	1	1	1	1	1	1	0
27.5°	3	3	2	2	1	1	1	1	1	1	0
25°	3	3	2	2	1	1	1	1	1	1	0
22.5°	3	3	2	2	2	1	1	1	1	1	0
20°	3	3	3	2	2	1	1	1	1	1	1
17.5°	4	3	3	2	2	1	1	1	1	1	1
15°	4	3	3	2	2	1	1	1	1	1	1
12.5°	4	3	3	2	2	2	1	1	1	1	1
10°	4	3	3	2	2	2	1	1	1	1	1
7.5°	4	3	3	3	2	2	1	1	1	1	1
5°	4	3	3	3	2	2	1	1	1	1	1
2.5°	4	3	3	3	2	2	1	1	1	1	1
0°	4	4	3	3	2	2	1	1	1	1	1
-2.5°	4	3	3	3	2	2	1	1	1	1	1
-5°	4	3	3	3	2	2	1	1	1	1	1
-7.5°	4	3	3	3	2	2	1	1	1	1	1
-10°	4	3	3	2	2	2	1	1	1	1	1
-12.5°	4	3	3	2	2	2	1	1	1	1	1
-15°	4	3	3	2	2	1	1	1	1	1	1
-17.5°	4	3	3	2	2	1	1	1	1	1	1
-20°	3	3	3	2	2	1	1	1	1	1	1



REPORT NUMBER: P246982 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3025-12-CS-OSL

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	3	3	2	2	2	1	1	1	1	1	0
-25°	3	3	2	2	1	1	1	1	1	1	0
-27.5°	3	3	2	2	1	1	1	1	1	1	0
-30°	3	2	2	2	1	1	1	1	1	1	0
-32.5°	3	2	2	1	1	1	1	1	1	1	0
-35°	2	2	2	1	1	1	1	1	1	0	0
-37.5°	2	2	1	1	1	1	1	1	1	0	0
-40°	2	2	1	1	1	1	1	1	1	0	0
-42.5°	2	1	1	1	1	1	1	1	0	0	0
-45°	1	1	1	1	1	1	1	1	0	0	0
-47.5°	1	1	1	1	1	1	1	1	0	0	0
-50°	1	1	1	1	1	1	1	0	0	0	0
-52.5°	1	1	1	1	1	1	0	0	0	0	0
-55°	1	1	1	1	1	1	0	0	0	0	0
-57.5°	1	1	1	1	1	0	0	0	0	0	0
-60°	1	1	1	1	0	0	0	0	0	0	0
-62.5°	1	1	0	0	0	0	0	0	0	0	0
-65°	1	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: P246982 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3025-12-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°	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: P246982 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 203-8LED3025-12-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)