

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: G2-1802-569-27 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **203-8LED4010-12-BK-OSL**

Test Date: 04/06/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-27 (CONVERTED FROM TYPE C PHOTOMETRY)
Test Lab: INNOVATION CENTER(G2)
Test Date: 04/06/18
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 203-8LED4010-12-BK-OSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 10 DEGREE SPOT OPTIC, REGRESSED HOOD BLACK, OVERALL SPREAD LENS
Light Source: (1) SORAA 4000K 95 CRI 10°NSP LED SM16-07-10D-940-03
Ballast/Driver: CHROMA POWER SUPPLY IN0004

Summary

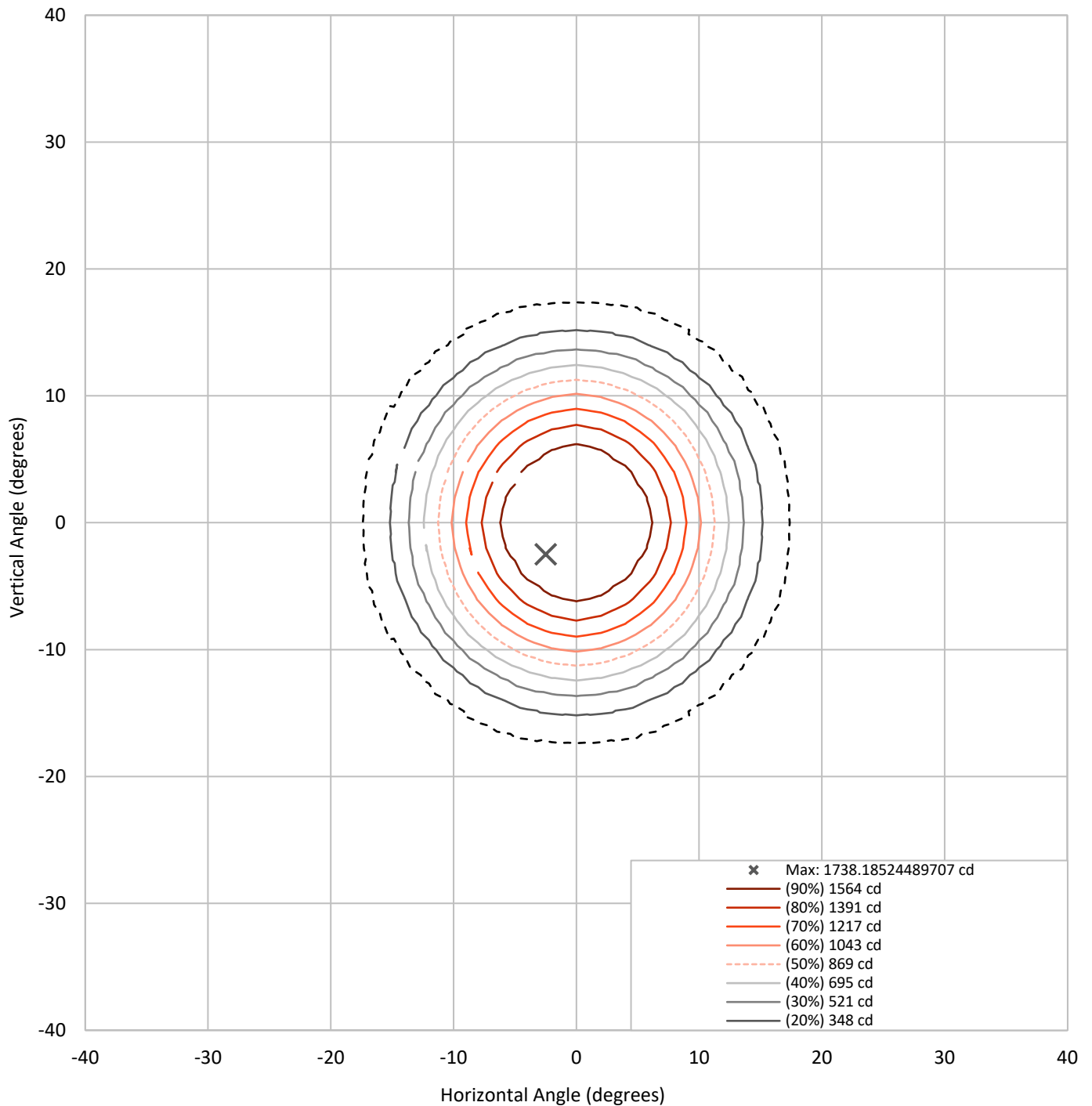
Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	284.1 lumens	Max Intensity:	1738.2 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x -2.5°V
Efficacy:	35.5 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	22°H x 22°V	Field Angle (10%):	34.1°H x 34.1°V
Beam Lumens:	155.4 lumens	Field Lumens:	236.2 lumens
Beam Efficiency:	54.7%	Field Efficiency:	83.1%

Input Watts (W): 8
Input Voltage (V): 12.0
Input Current (Ain): 0.709
Voltage Rise (V): NR
Power Factor: 0.9468
Total Harmonic Distortion (THDi): 27.5
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 9 HR
Ambient Temperature (°C): 25.1
Test Distance: 25 FT



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Iso-Candela Plot



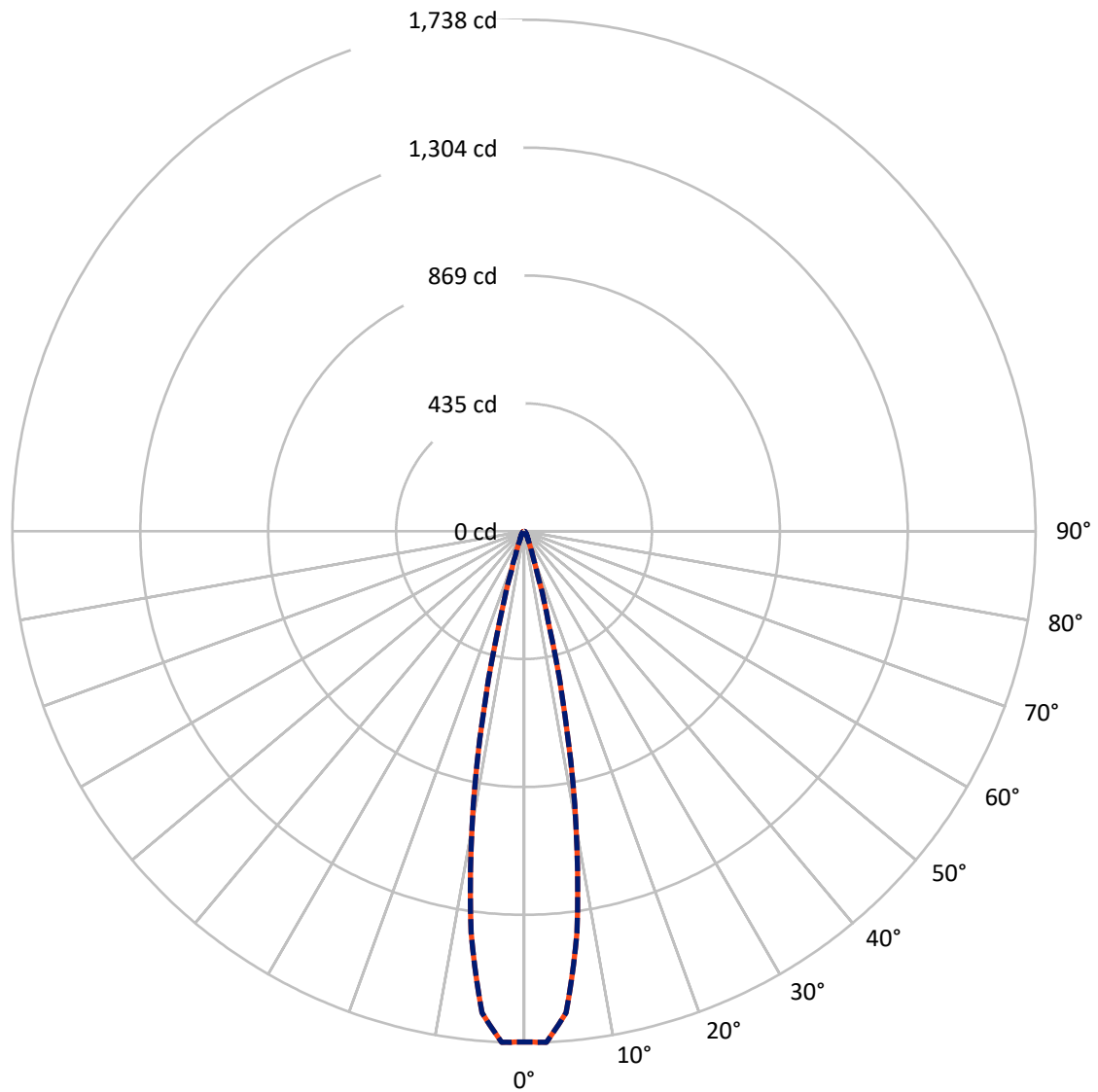
REPORT NUMBER: G2-1802-569-27 (CONVERTED FROM TYPE C PHOTOMETRY)
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Lumen Table

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
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
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
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	0.2	0.3	0.4	0.5	0.5	0.4	0.3	0.2	0.1	0.0	0.0	
30	0.0	0.0	0.0	0.1	0.2	0.4	0.8	1.2	1.2	0.8	0.4	0.2	0.1	0.0	0.0	0.0
20		0.0	0.0	0.2	0.3	0.7	2.6	10.3	10.3	2.6	0.7	0.3	0.2	0.0	0.0	
10	0.0	0.0	0.1	0.2	0.4	1.1	10.0	40.2	40.2	10.0	1.1	0.4	0.2	0.1	0.0	0.0
0		0.0	0.1	0.2	0.4	1.1	10.0	40.2	40.2	10.0	1.1	0.4	0.2	0.1	0.0	
-10	0.0	0.0	0.0	0.2	0.3	0.7	2.6	10.3	10.3	2.6	0.7	0.3	0.2	0.0	0.0	0.0
-20		0.0	0.0	0.1	0.2	0.4	0.8	1.2	1.2	0.8	0.4	0.2	0.1	0.0	0.0	
-30	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.5	0.4	0.3	0.2	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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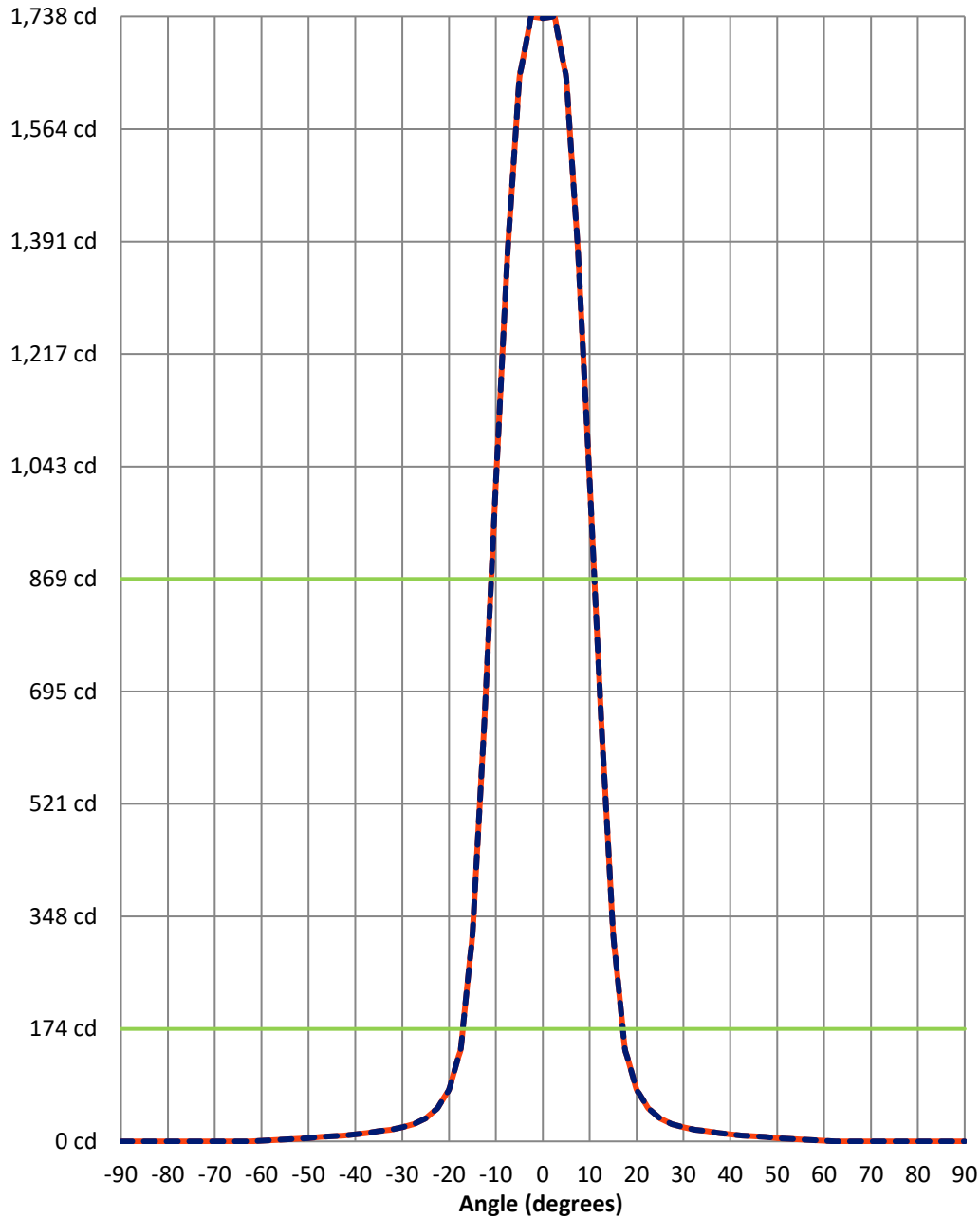
Luminous Intensity Polar Plot



— 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: 155.4
Efficiency: 54.7%

Field:
H Angle: 34.1°
V Angle: 34.1°
Lumens: 236.2
Efficiency: 83.1%

Spill:
Lumens: 47.9
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: G2-1802-569-27 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4010-12-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: G2-1802-569-27 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4010-12-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	1
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	2	2	3
42.5°	0	0	0	0	0	0	1	2	2	3	3
40°	0	0	0	0	0	1	1	2	3	3	4
37.5°	0	0	0	0	1	1	2	3	3	4	5
35°	0	0	0	0	1	2	2	3	4	5	5
32.5°	0	0	0	1	1	2	3	4	4	5	7
30°	0	0	0	1	2	3	3	4	5	6	7
27.5°	0	0	0	1	2	3	4	5	6	7	8
25°	0	0	1	2	2	3	4	5	7	8	8
22.5°	0	0	1	2	3	4	4	6	7	8	9
20°	0	0	1	2	3	4	5	6	8	8	10
17.5°	0	0	1	2	3	4	5	7	8	9	10
15°	0	1	2	2	3	4	6	7	8	9	11
12.5°	0	1	2	3	4	5	6	7	8	10	12
10°	0	1	2	3	4	5	6	8	9	10	12
7.5°	0	1	2	3	4	5	7	8	9	11	12
5°	0	1	2	3	4	5	7	8	9	11	13
2.5°	0	1	2	3	4	5	7	8	9	11	13
0°	0	1	2	3	4	5	7	8	9	11	13
-2.5°	0	1	2	3	4	5	7	8	9	11	13
-5°	0	1	2	3	4	5	7	8	9	11	13
-7.5°	0	1	2	3	4	5	7	8	9	11	12
-10°	0	1	2	3	4	5	6	8	9	10	12
-12.5°	0	1	2	3	4	5	6	7	8	10	12
-15°	0	1	2	2	3	4	6	7	8	9	11
-17.5°	0	0	1	2	3	4	5	7	8	9	10
-20°	0	0	1	2	3	4	5	6	8	8	10



REPORT NUMBER: G2-1802-569-27 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4010-12-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	3	4	4	6	7	8	9
-25°	0	0	1	2	2	3	4	5	7	8	8
-27.5°	0	0	0	1	2	3	4	5	6	7	8
-30°	0	0	0	1	2	3	3	4	5	6	7
-32.5°	0	0	0	1	1	2	3	4	4	5	7
-35°	0	0	0	0	1	2	2	3	4	5	5
-37.5°	0	0	0	0	1	1	2	3	3	4	5
-40°	0	0	0	0	0	1	1	2	3	3	4
-42.5°	0	0	0	0	0	0	1	2	2	3	3
-45°	0	0	0	0	0	0	0	1	2	2	3
-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	1
-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: G2-1802-569-27 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4010-12-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	1	1	1
57.5°	0	0	0	0	1	1	1	1	2	2	2
55°	0	1	1	1	2	2	2	2	2	3	3
52.5°	1	1	2	2	2	3	3	3	3	4	4
50°	2	2	3	3	3	4	4	4	4	5	5
47.5°	2	3	3	4	4	4	5	5	6	6	6
45°	3	4	4	5	5	6	6	7	7	7	8
42.5°	4	4	5	6	7	7	8	8	8	8	9
40°	5	5	6	7	8	8	8	9	9	10	10
37.5°	5	7	7	8	8	9	10	10	11	12	12
35°	7	7	8	9	9	10	11	12	13	14	15
32.5°	7	8	9	10	11	12	13	14	15	16	17
30°	8	9	10	11	12	14	15	17	17	18	20
27.5°	9	10	11	13	14	16	17	18	20	22	24
25°	9	11	12	14	16	17	19	22	24	26	29
22.5°	10	12	14	16	17	20	22	26	29	34	39
20°	11	13	15	17	19	22	26	31	37	46	55
17.5°	12	14	17	18	22	26	31	39	49	65	81
15°	13	15	17	20	24	29	37	49	69	97	136
12.5°	14	16	18	22	26	34	46	65	97	145	264
10°	15	17	20	24	29	39	55	81	136	264	458
7.5°	15	17	21	25	32	45	66	109	206	398	682
5°	16	18	21	26	34	49	75	130	276	548	885
2.5°	16	18	22	27	36	51	80	143	321	645	1020
0°	16	18	22	27	36	52	82	148	336	678	1067
-2.5°	16	18	22	27	36	51	80	143	321	645	1020
-5°	16	18	21	26	34	49	75	130	276	548	885
-7.5°	15	17	21	25	32	45	66	109	206	398	682
-10°	15	17	20	24	29	39	55	81	136	264	458
-12.5°	14	16	18	22	26	34	46	65	97	145	264
-15°	13	15	17	20	24	29	37	49	69	97	136
-17.5°	12	14	17	18	22	26	31	39	49	65	81
-20°	11	13	15	17	19	22	26	31	37	46	55



REPORT NUMBER: G2-1802-569-27 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4010-12-BK-OSL

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	10	12	14	16	17	20	22	26	29	34	39
-25°	9	11	12	14	16	17	19	22	24	26	29
-27.5°	9	10	11	13	14	16	17	18	20	22	24
-30°	8	9	10	11	12	14	15	17	17	18	20
-32.5°	7	8	9	10	11	12	13	14	15	16	17
-35°	7	7	8	9	9	10	11	12	13	14	15
-37.5°	5	7	7	8	8	9	10	10	11	12	12
-40°	5	5	6	7	8	8	8	9	9	10	10
-42.5°	4	4	5	6	7	7	8	8	8	8	9
-45°	3	4	4	5	5	6	6	7	7	7	8
-47.5°	2	3	3	4	4	4	5	5	6	6	6
-50°	2	2	3	3	3	4	4	4	4	5	5
-52.5°	1	1	2	2	2	3	3	3	3	4	4
-55°	0	1	1	1	2	2	2	2	2	3	3
-57.5°	0	0	0	0	1	1	1	1	2	2	2
-60°	0	0	0	0	0	0	0	0	1	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: G2-1802-569-27 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4010-12-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	1	0
57.5°	2	2	2	2	2	2	2	2	2	2	1
55°	3	3	3	3	3	3	3	3	3	2	2
52.5°	4	4	4	4	4	4	4	4	4	3	3
50°	5	5	5	5	5	5	5	5	5	4	4
47.5°	7	7	7	7	7	7	7	6	6	6	5
45°	8	8	8	8	8	8	8	8	7	7	7
42.5°	9	9	9	9	9	9	9	9	8	8	8
40°	11	11	11	11	11	11	11	10	10	9	9
37.5°	12	13	13	13	13	13	12	12	12	11	10
35°	15	16	16	16	16	16	15	15	14	13	12
32.5°	17	18	18	18	18	18	17	17	16	15	14
30°	21	21	22	22	22	21	21	20	18	17	17
27.5°	25	26	27	27	27	26	25	24	22	20	18
25°	32	34	36	36	36	34	32	29	26	24	22
22.5°	45	49	51	52	51	49	45	39	34	29	26
20°	66	75	80	82	80	75	66	55	46	37	31
17.5°	109	130	143	148	143	130	109	81	65	49	39
15°	206	276	321	336	321	276	206	136	97	69	49
12.5°	398	548	645	678	645	548	398	264	145	97	65
10°	682	885	1020	1067	1020	885	682	458	264	136	81
7.5°	975	1218	1376	1431	1376	1218	975	682	398	206	109
5°	1218	1490	1643	1690	1643	1490	1218	885	548	276	130
2.5°	1376	1643	1738	1736	1738	1643	1376	1020	645	321	143
0°	1431	1690	1736	1700	1736	1690	1431	1067	678	336	148
-2.5°	1376	1643	1738	1736	1738	1643	1376	1020	645	321	143
-5°	1218	1490	1643	1690	1643	1490	1218	885	548	276	130
-7.5°	975	1218	1376	1431	1376	1218	975	682	398	206	109
-10°	682	885	1020	1067	1020	885	682	458	264	136	81
-12.5°	398	548	645	678	645	548	398	264	145	97	65
-15°	206	276	321	336	321	276	206	136	97	69	49
-17.5°	109	130	143	148	143	130	109	81	65	49	39
-20°	66	75	80	82	80	75	66	55	46	37	31



REPORT NUMBER: G2-1802-569-27 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4010-12-BK-OSL

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	45	49	51	52	51	49	45	39	34	29	26
-25°	32	34	36	36	36	34	32	29	26	24	22
-27.5°	25	26	27	27	27	26	25	24	22	20	18
-30°	21	21	22	22	22	21	21	20	18	17	17
-32.5°	17	18	18	18	18	18	17	17	16	15	14
-35°	15	16	16	16	16	16	15	15	14	13	12
-37.5°	12	13	13	13	13	13	12	12	12	11	10
-40°	11	11	11	11	11	11	11	10	10	9	9
-42.5°	9	9	9	9	9	9	9	9	8	8	8
-45°	8	8	8	8	8	8	8	8	7	7	7
-47.5°	7	7	7	7	7	7	7	6	6	6	5
-50°	5	5	5	5	5	5	5	5	5	4	4
-52.5°	4	4	4	4	4	4	4	4	4	3	3
-55°	3	3	3	3	3	3	3	3	3	2	2
-57.5°	2	2	2	2	2	2	2	2	2	2	1
-60°	1	1	1	1	1	1	1	1	1	1	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: G2-1802-569-27 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4010-12-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	2	1	1	1	0	0	0	0	0
52.5°	3	3	2	2	2	1	1	1	0	0	0
50°	4	4	3	3	3	2	2	1	1	0	0
47.5°	5	4	4	4	3	3	2	2	1	1	0
45°	6	6	5	5	4	4	3	3	2	2	1
42.5°	8	7	7	6	5	4	4	3	3	2	2
40°	8	8	8	7	6	5	5	4	3	3	2
37.5°	10	9	8	8	7	7	5	5	4	3	3
35°	11	10	9	9	8	7	7	5	5	4	3
32.5°	13	12	11	10	9	8	7	7	5	4	4
30°	15	14	12	11	10	9	8	7	6	5	4
27.5°	17	16	14	13	11	10	9	8	7	6	5
25°	19	17	16	14	12	11	9	8	8	7	5
22.5°	22	20	17	16	14	12	10	9	8	7	6
20°	26	22	19	17	15	13	11	10	8	8	6
17.5°	31	26	22	18	17	14	12	10	9	8	7
15°	37	29	24	20	17	15	13	11	9	8	7
12.5°	46	34	26	22	18	16	14	12	10	8	7
10°	55	39	29	24	20	17	15	12	10	9	8
7.5°	66	45	32	25	21	17	15	12	11	9	8
5°	75	49	34	26	21	18	16	13	11	9	8
2.5°	80	51	36	27	22	18	16	13	11	9	8
0°	82	52	36	27	22	18	16	13	11	9	8
-2.5°	80	51	36	27	22	18	16	13	11	9	8
-5°	75	49	34	26	21	18	16	13	11	9	8
-7.5°	66	45	32	25	21	17	15	12	11	9	8
-10°	55	39	29	24	20	17	15	12	10	9	8
-12.5°	46	34	26	22	18	16	14	12	10	8	7
-15°	37	29	24	20	17	15	13	11	9	8	7
-17.5°	31	26	22	18	17	14	12	10	9	8	7
-20°	26	22	19	17	15	13	11	10	8	8	6



REPORT NUMBER: G2-1802-569-27 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4010-12-BK-OSL

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	22	20	17	16	14	12	10	9	8	7	6
-25°	19	17	16	14	12	11	9	8	8	7	5
-27.5°	17	16	14	13	11	10	9	8	7	6	5
-30°	15	14	12	11	10	9	8	7	6	5	4
-32.5°	13	12	11	10	9	8	7	7	5	4	4
-35°	11	10	9	9	8	7	7	5	5	4	3
-37.5°	10	9	8	8	7	7	5	5	4	3	3
-40°	8	8	8	7	6	5	5	4	3	3	2
-42.5°	8	7	7	6	5	4	4	3	3	2	2
-45°	6	6	5	5	4	4	3	3	2	2	1
-47.5°	5	4	4	4	3	3	2	2	1	1	0
-50°	4	4	3	3	3	2	2	1	1	0	0
-52.5°	3	3	2	2	2	1	1	1	0	0	0
-55°	2	2	2	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: G2-1802-569-27 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4010-12-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	1	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	3	2	1	0	0	0	0	0	0	0
27.5°	4	3	2	1	0	0	0	0	0	0	0
25°	4	3	2	2	1	0	0	0	0	0	0
22.5°	4	4	3	2	1	0	0	0	0	0	0
20°	5	4	3	2	1	0	0	0	0	0	0
17.5°	5	4	3	2	1	0	0	0	0	0	0
15°	6	4	3	2	2	1	0	0	0	0	0
12.5°	6	5	4	3	2	1	0	0	0	0	0
10°	6	5	4	3	2	1	0	0	0	0	0
7.5°	7	5	4	3	2	1	0	0	0	0	0
5°	7	5	4	3	2	1	0	0	0	0	0
2.5°	7	5	4	3	2	1	0	0	0	0	0
0°	7	5	4	3	2	1	0	0	0	0	0
-2.5°	7	5	4	3	2	1	0	0	0	0	0
-5°	7	5	4	3	2	1	0	0	0	0	0
-7.5°	7	5	4	3	2	1	0	0	0	0	0
-10°	6	5	4	3	2	1	0	0	0	0	0
-12.5°	6	5	4	3	2	1	0	0	0	0	0
-15°	6	4	3	2	2	1	0	0	0	0	0
-17.5°	5	4	3	2	1	0	0	0	0	0	0
-20°	5	4	3	2	1	0	0	0	0	0	0



REPORT NUMBER: G2-1802-569-27 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4010-12-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	4	3	2	1	0	0	0	0	0	0
-25°	4	3	2	2	1	0	0	0	0	0	0
-27.5°	4	3	2	1	0	0	0	0	0	0	0
-30°	3	3	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	1	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: G2-1802-569-27 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4010-12-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: G2-1802-569-27 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 203-8LED4010-12-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)