

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: G2-1802-569-31 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **203-8LED4025-12-BK-OSL**

Test Date: 04/06/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-31 (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: 203-8LED4025-12-BK-OSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 25 DEGREE NARROW OPTIC, REGRESSED HOOD BLACK, OVERALL SPREAD LENS
Light Source: (1) SORAA 4000K 95 CRI LED
SM16-07-25D-940-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

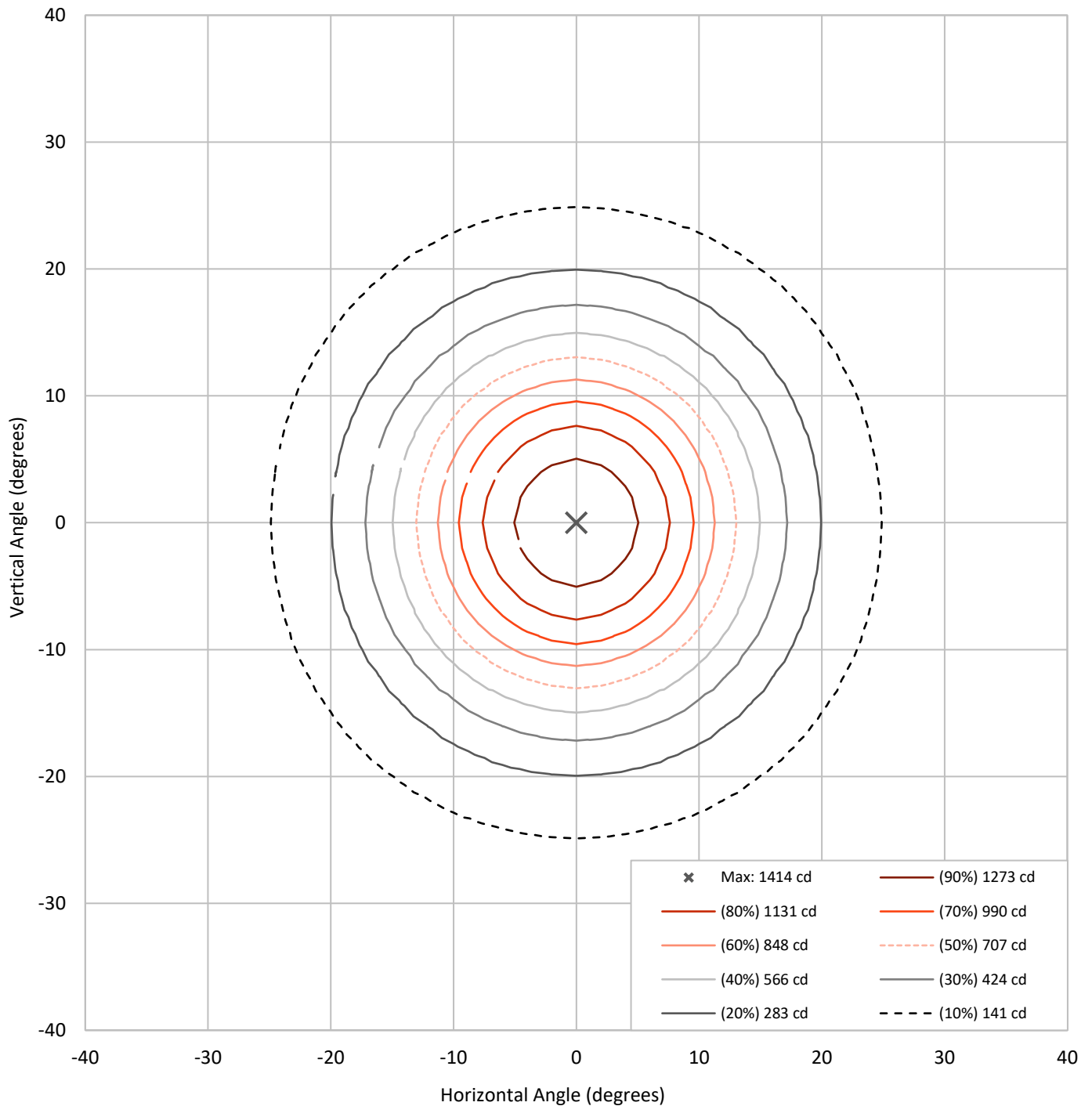
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	344.6 lumens	Max Intensity:	1414 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	43.6 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	26°H x 26°V	Field Angle (10%):	49.5°H x 49.5°V
Beam Lumens:	168.7 lumens	Field Lumens:	305.9 lumens
Beam Efficiency:	49.0%	Field Efficiency:	88.8%
Input Watts (W):	7.9		
Input Voltage (V):	12.0		
Input Current (Ain):	0.692		
Voltage Rise (V):	NR		
Power Factor:	0.991		
Total Harmonic Distortion (THDi):	27.0		
Frequency (hertz):	60		
Stabilization Time:	0.5 HR		
Operation Time:	3 HR		
Ambient Temperature (°C):	25.0		
Test Distance:	25 FT		



REPORT NUMBER: G2-1802-569-31 (CONVERTED FROM TYPE C PHOTOMETRY)
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Iso-Candela Plot





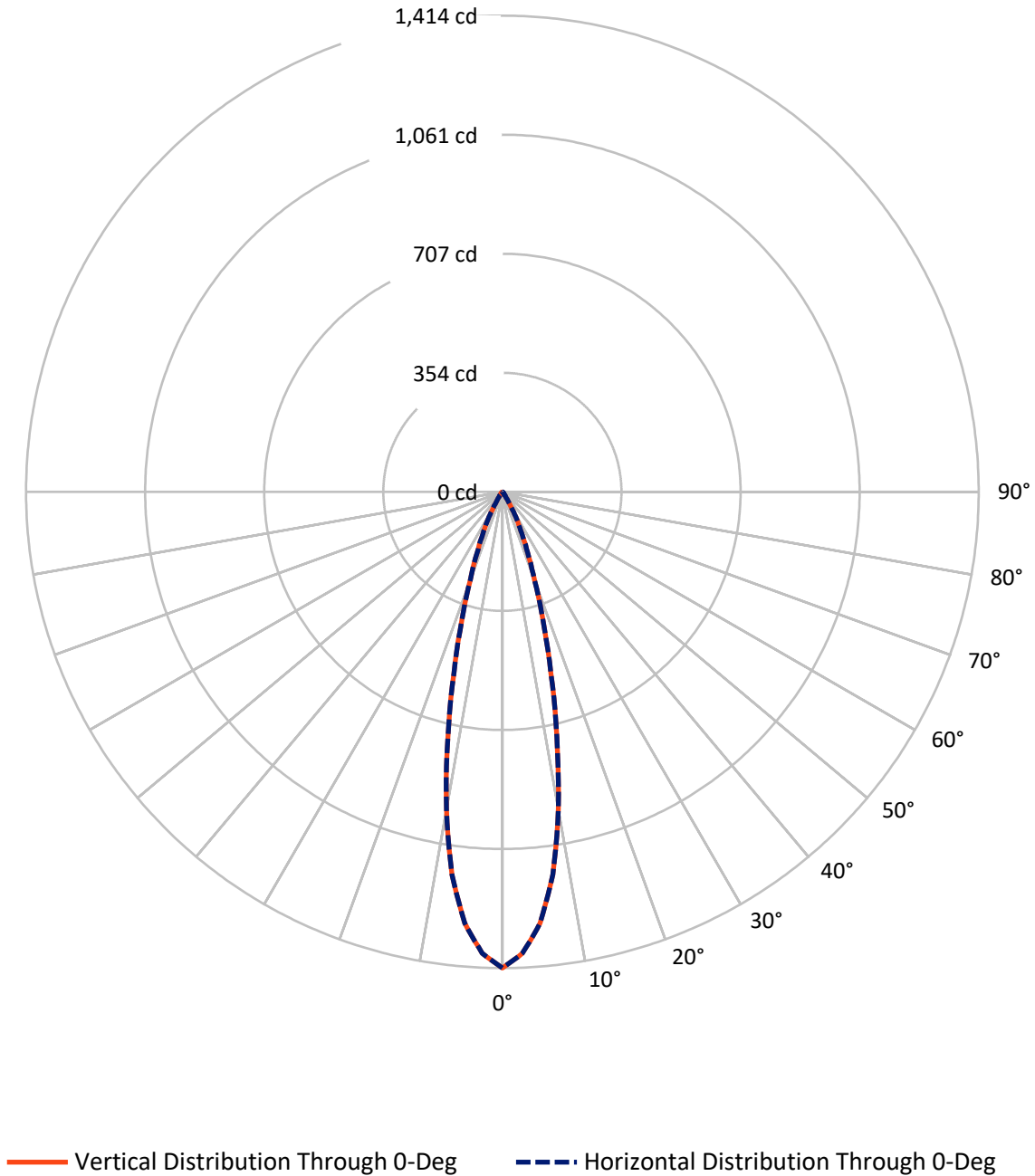
REPORT NUMBER: G2-1802-569-31 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4025-12-BK-OSL

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	0.0	0.0	0.0	0.0	0.0	0.0	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	
40		0.0	0.0	0.0	0.0	0.1	0.3	0.5	0.5	0.3	0.1	0.0	0.0	0.0	0.0		
30	0.0	0.0	0.0	0.0	0.1	0.6	2.2	4.0	4.0	2.2	0.6	0.1	0.0	0.0	0.0	0.0	
20		0.0	0.0	0.1	0.3	2.1	7.5	15.4	15.4	7.5	2.1	0.3	0.1	0.0	0.0		
10	0.0	0.0	0.0	0.1	0.5	3.7	15.0	33.3	33.3	15.0	3.7	0.5	0.1	0.0	0.0	0.0	
0		0.0	0.0	0.1	0.5	3.7	15.0	33.3	33.3	15.0	3.7	0.5	0.1	0.0	0.0		
-10	0.0	0.0	0.0	0.1	0.3	2.1	7.5	15.4	15.4	7.5	2.1	0.3	0.1	0.0	0.0	0.0	
-20		0.0	0.0	0.0	0.1	0.6	2.2	4.0	4.0	2.2	0.6	0.1	0.0	0.0	0.0		
-30	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.5	0.5	0.3	0.1	0.0	0.0	0.0	0.0	0.0	
-40		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	0.0	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	0.0	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	

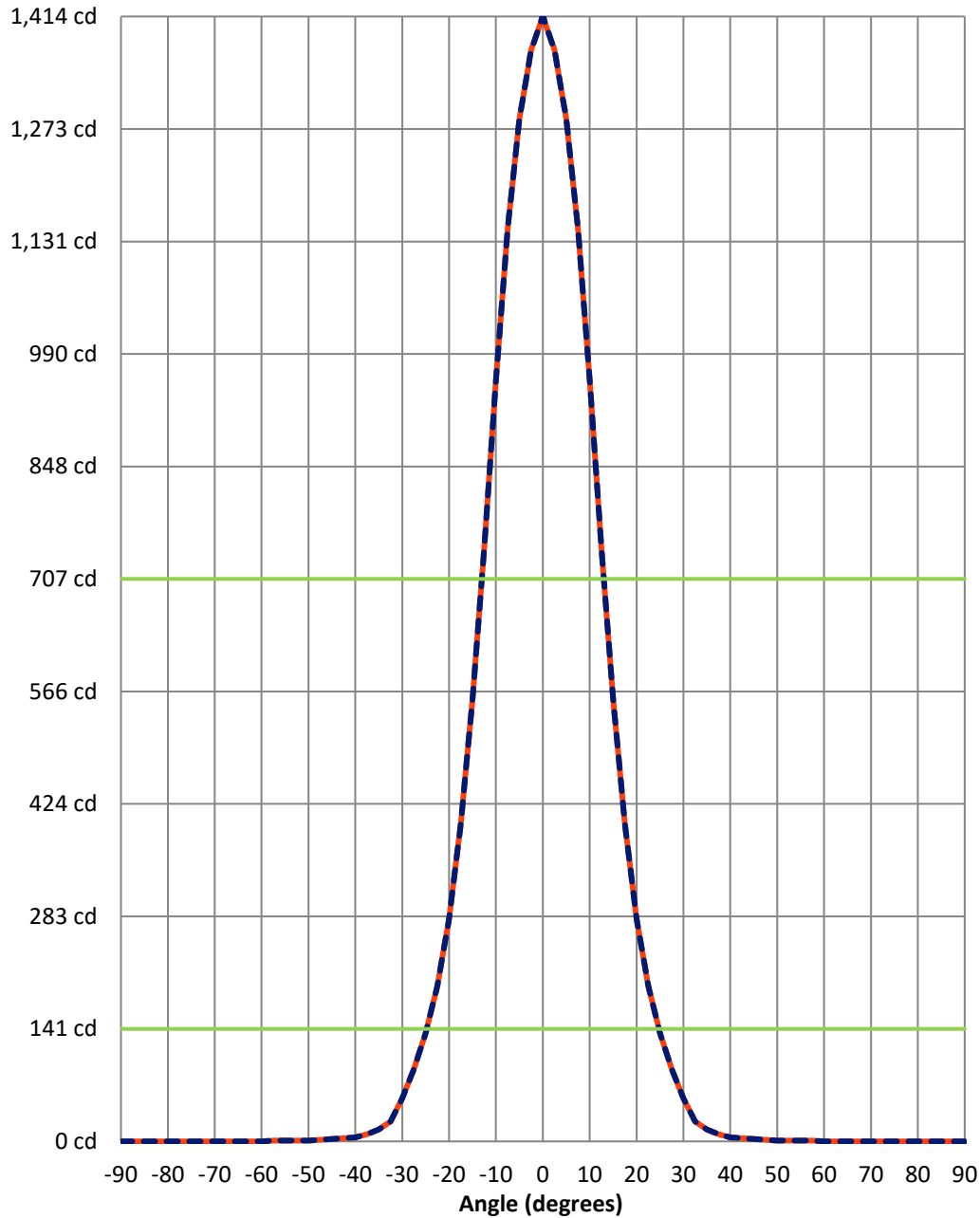
REPORT NUMBER: G2-1802-569-31 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 203-8LED4025-12-BK-OSL

Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
H Angle: 26°
V Angle: 26°
Lumens: 168.7
Efficiency: 49.0%

Field:
H Angle: 49.5°
V Angle: 49.5°
Lumens: 305.9
Efficiency: 88.8%

Spill:
Lumens: 38.8
Efficiency: 11.2%

- Vertical Distribution through 0-Deg
- - Horizontal Distribution through 0-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: G2-1802-569-31 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4025-12-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: G2-1802-569-31 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4025-12-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	0	0
47.5°	0	0	0	0	0	0	0	0	0	0	1
45°	0	0	0	0	0	0	0	0	1	1	1
42.5°	0	0	0	0	0	0	0	1	1	1	1
40°	0	0	0	0	0	0	0	1	1	1	1
37.5°	0	0	0	0	0	0	1	1	1	1	1
35°	0	0	0	0	0	1	1	1	1	1	1
32.5°	0	0	0	0	0	1	1	1	1	1	2
30°	0	0	0	0	1	1	1	1	1	2	2
27.5°	0	0	0	0	1	1	1	1	1	2	3
25°	0	0	0	1	1	1	1	1	2	3	3
22.5°	0	0	0	1	1	1	1	1	2	3	4
20°	0	0	0	1	1	1	1	2	3	3	4
17.5°	0	0	0	1	1	1	1	2	3	4	5
15°	0	0	1	1	1	1	1	2	3	4	5
12.5°	0	0	1	1	1	1	2	2	3	4	6
10°	0	0	1	1	1	1	2	3	4	5	7
7.5°	0	0	1	1	1	1	2	3	4	5	8
5°	0	0	1	1	1	1	2	3	4	5	9
2.5°	0	0	1	1	1	1	2	3	4	5	9
0°	0	0	1	1	1	1	2	3	4	5	9
-2.5°	0	0	1	1	1	1	2	3	4	5	9
-5°	0	0	1	1	1	1	2	3	4	5	9
-7.5°	0	0	1	1	1	1	2	3	4	5	8
-10°	0	0	1	1	1	1	2	3	4	5	7
-12.5°	0	0	1	1	1	1	2	2	3	4	6
-15°	0	0	1	1	1	1	1	2	3	4	5
-17.5°	0	0	0	1	1	1	1	2	3	4	5
-20°	0	0	0	1	1	1	1	2	3	3	4



REPORT NUMBER: G2-1802-569-31 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4025-12-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	0	1	1	1	1	1	2	3	4
-25°	0	0	0	1	1	1	1	1	2	3	3
-27.5°	0	0	0	0	1	1	1	1	1	2	3
-30°	0	0	0	0	1	1	1	1	1	2	2
-32.5°	0	0	0	0	0	1	1	1	1	1	2
-35°	0	0	0	0	0	1	1	1	1	1	1
-37.5°	0	0	0	0	0	0	1	1	1	1	1
-40°	0	0	0	0	0	0	0	1	1	1	1
-42.5°	0	0	0	0	0	0	0	1	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	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: G2-1802-569-31 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4025-12-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	0	0
57.5°	0	0	0	0	0	0	0	0	1	1	1
55°	0	0	0	0	1	1	1	1	1	1	1
52.5°	0	0	1	1	1	1	1	1	1	1	1
50°	1	1	1	1	1	1	1	1	1	1	1
47.5°	1	1	1	1	1	1	1	1	1	2	2
45°	1	1	1	1	1	1	2	2	2	2	3
42.5°	1	1	1	1	2	2	3	3	3	3	4
40°	1	1	2	2	3	3	3	4	4	4	5
37.5°	1	2	2	3	3	4	4	5	5	6	7
35°	2	2	3	4	4	5	6	7	9	10	12
32.5°	2	3	4	4	5	7	9	12	14	17	20
30°	3	4	4	5	8	11	14	18	22	28	37
27.5°	4	4	5	8	11	15	21	28	42	54	67
25°	4	5	8	11	16	22	35	52	70	87	102
22.5°	5	7	11	15	22	38	58	80	102	125	146
20°	6	9	14	21	35	58	83	111	140	171	202
17.5°	7	12	18	28	52	80	111	145	185	228	277
15°	9	14	22	42	70	102	140	185	238	304	374
12.5°	10	17	28	54	87	125	171	228	304	394	492
10°	12	20	37	67	102	146	202	277	374	492	620
7.5°	13	22	44	77	116	166	231	323	444	589	748
5°	14	24	50	84	127	181	257	363	503	670	858
2.5°	15	25	53	89	134	192	274	390	542	726	931
0°	15	25	54	91	136	196	280	400	556	746	957
-2.5°	15	25	53	89	134	192	274	390	542	726	931
-5°	14	24	50	84	127	181	257	363	503	670	858
-7.5°	13	22	44	77	116	166	231	323	444	589	748
-10°	12	20	37	67	102	146	202	277	374	492	620
-12.5°	10	17	28	54	87	125	171	228	304	394	492
-15°	9	14	22	42	70	102	140	185	238	304	374
-17.5°	7	12	18	28	52	80	111	145	185	228	277
-20°	6	9	14	21	35	58	83	111	140	171	202



REPORT NUMBER: G2-1802-569-31 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4025-12-BK-OSL

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	5	7	11	15	22	38	58	80	102	125	146
-25°	4	5	8	11	16	22	35	52	70	87	102
-27.5°	4	4	5	8	11	15	21	28	42	54	67
-30°	3	4	4	5	8	11	14	18	22	28	37
-32.5°	2	3	4	4	5	7	9	12	14	17	20
-35°	2	2	3	4	4	5	6	7	9	10	12
-37.5°	1	2	2	3	3	4	4	5	5	6	7
-40°	1	1	2	2	3	3	3	4	4	4	5
-42.5°	1	1	1	1	2	2	3	3	3	3	4
-45°	1	1	1	1	1	1	2	2	2	2	3
-47.5°	1	1	1	1	1	1	1	1	1	2	2
-50°	1	1	1	1	1	1	1	1	1	1	1
-52.5°	0	0	1	1	1	1	1	1	1	1	1
-55°	0	0	0	0	1	1	1	1	1	1	1
-57.5°	0	0	0	0	0	0	0	0	1	1	1
-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: G2-1802-569-31 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4025-12-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°	0	0	0	0	0	0	0	0	0	0	0
57.5°	1	1	1	1	1	1	1	1	1	1	0
55°	1	1	1	1	1	1	1	1	1	1	1
52.5°	1	1	1	1	1	1	1	1	1	1	1
50°	1	1	1	1	1	1	1	1	1	1	1
47.5°	2	2	2	2	2	2	2	2	2	1	1
45°	3	3	3	3	3	3	3	3	2	2	2
42.5°	4	4	4	4	4	4	4	4	3	3	3
40°	5	5	5	5	5	5	5	5	4	4	4
37.5°	8	9	9	9	9	9	8	7	6	5	5
35°	13	14	15	15	15	14	13	12	10	9	7
32.5°	22	24	25	25	25	24	22	20	17	14	12
30°	44	50	53	54	53	50	44	37	28	22	18
27.5°	77	84	89	91	89	84	77	67	54	42	28
25°	116	127	134	136	134	127	116	102	87	70	52
22.5°	166	181	192	196	192	181	166	146	125	102	80
20°	231	257	274	280	274	257	231	202	171	140	111
17.5°	323	363	390	400	390	363	323	277	228	185	145
15°	444	503	542	556	542	503	444	374	304	238	185
12.5°	589	670	726	746	726	670	589	492	394	304	228
10°	748	858	931	957	931	858	748	620	492	374	277
7.5°	907	1039	1120	1147	1120	1039	907	748	589	444	323
5°	1039	1176	1257	1285	1257	1176	1039	858	670	503	363
2.5°	1120	1257	1341	1372	1341	1257	1120	931	726	542	390
0°	1147	1285	1372	1414	1372	1285	1147	957	746	556	400
-2.5°	1120	1257	1341	1372	1341	1257	1120	931	726	542	390
-5°	1039	1176	1257	1285	1257	1176	1039	858	670	503	363
-7.5°	907	1039	1120	1147	1120	1039	907	748	589	444	323
-10°	748	858	931	957	931	858	748	620	492	374	277
-12.5°	589	670	726	746	726	670	589	492	394	304	228
-15°	444	503	542	556	542	503	444	374	304	238	185
-17.5°	323	363	390	400	390	363	323	277	228	185	145
-20°	231	257	274	280	274	257	231	202	171	140	111



REPORT NUMBER: G2-1802-569-31 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4025-12-BK-OSL

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	166	181	192	196	192	181	166	146	125	102	80
-25°	116	127	134	136	134	127	116	102	87	70	52
-27.5°	77	84	89	91	89	84	77	67	54	42	28
-30°	44	50	53	54	53	50	44	37	28	22	18
-32.5°	22	24	25	25	25	24	22	20	17	14	12
-35°	13	14	15	15	15	14	13	12	10	9	7
-37.5°	8	9	9	9	9	9	8	7	6	5	5
-40°	5	5	5	5	5	5	5	5	4	4	4
-42.5°	4	4	4	4	4	4	4	4	3	3	3
-45°	3	3	3	3	3	3	3	3	2	2	2
-47.5°	2	2	2	2	2	2	2	2	2	1	1
-50°	1	1	1	1	1	1	1	1	1	1	1
-52.5°	1	1	1	1	1	1	1	1	1	1	1
-55°	1	1	1	1	1	1	1	1	1	1	1
-57.5°	1	1	1	1	1	1	1	1	1	1	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: G2-1802-569-31 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4025-12-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°	0	0	0	0	0	0	0	0	0	0	0
55°	1	1	1	0	0	0	0	0	0	0	0
52.5°	1	1	1	1	1	0	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°	2	1	1	1	1	1	1	1	1	1	0
42.5°	3	2	2	1	1	1	1	1	1	1	1
40°	3	3	3	2	2	1	1	1	1	1	1
37.5°	4	4	3	3	2	2	1	1	1	1	1
35°	6	5	4	4	3	2	2	1	1	1	1
32.5°	9	7	5	4	4	3	2	2	1	1	1
30°	14	11	8	5	4	4	3	2	2	1	1
27.5°	21	15	11	8	5	4	4	3	2	1	1
25°	35	22	16	11	8	5	4	3	3	2	1
22.5°	58	38	22	15	11	7	5	4	3	2	1
20°	83	58	35	21	14	9	6	4	3	3	2
17.5°	111	80	52	28	18	12	7	5	4	3	2
15°	140	102	70	42	22	14	9	5	4	3	2
12.5°	171	125	87	54	28	17	10	6	4	3	2
10°	202	146	102	67	37	20	12	7	5	4	3
7.5°	231	166	116	77	44	22	13	8	5	4	3
5°	257	181	127	84	50	24	14	9	5	4	3
2.5°	274	192	134	89	53	25	15	9	5	4	3
0°	280	196	136	91	54	25	15	9	5	4	3
-2.5°	274	192	134	89	53	25	15	9	5	4	3
-5°	257	181	127	84	50	24	14	9	5	4	3
-7.5°	231	166	116	77	44	22	13	8	5	4	3
-10°	202	146	102	67	37	20	12	7	5	4	3
-12.5°	171	125	87	54	28	17	10	6	4	3	2
-15°	140	102	70	42	22	14	9	5	4	3	2
-17.5°	111	80	52	28	18	12	7	5	4	3	2
-20°	83	58	35	21	14	9	6	4	3	3	2



REPORT NUMBER: G2-1802-569-31 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4025-12-BK-OSL

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	58	38	22	15	11	7	5	4	3	2	1
-25°	35	22	16	11	8	5	4	3	3	2	1
-27.5°	21	15	11	8	5	4	4	3	2	1	1
-30°	14	11	8	5	4	4	3	2	2	1	1
-32.5°	9	7	5	4	4	3	2	2	1	1	1
-35°	6	5	4	4	3	2	2	1	1	1	1
-37.5°	4	4	3	3	2	2	1	1	1	1	1
-40°	3	3	3	2	2	1	1	1	1	1	1
-42.5°	3	2	2	1	1	1	1	1	1	1	1
-45°	2	1	1	1	1	1	1	1	1	1	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	0	0	0	0	0	0
-55°	1	1	1	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: G2-1802-569-31 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4025-12-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°	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°	1	0	0	0	0	0	0	0	0	0	0
35°	1	1	0	0	0	0	0	0	0	0	0
32.5°	1	1	0	0	0	0	0	0	0	0	0
30°	1	1	1	0	0	0	0	0	0	0	0
27.5°	1	1	1	0	0	0	0	0	0	0	0
25°	1	1	1	1	0	0	0	0	0	0	0
22.5°	1	1	1	1	0	0	0	0	0	0	0
20°	1	1	1	1	0	0	0	0	0	0	0
17.5°	1	1	1	1	0	0	0	0	0	0	0
15°	1	1	1	1	1	0	0	0	0	0	0
12.5°	2	1	1	1	1	0	0	0	0	0	0
10°	2	1	1	1	1	0	0	0	0	0	0
7.5°	2	1	1	1	1	0	0	0	0	0	0
5°	2	1	1	1	1	0	0	0	0	0	0
2.5°	2	1	1	1	1	0	0	0	0	0	0
0°	2	1	1	1	1	0	0	0	0	0	0
-2.5°	2	1	1	1	1	0	0	0	0	0	0
-5°	2	1	1	1	1	0	0	0	0	0	0
-7.5°	2	1	1	1	1	0	0	0	0	0	0
-10°	2	1	1	1	1	0	0	0	0	0	0
-12.5°	2	1	1	1	1	0	0	0	0	0	0
-15°	1	1	1	1	1	0	0	0	0	0	0
-17.5°	1	1	1	1	0	0	0	0	0	0	0
-20°	1	1	1	1	0	0	0	0	0	0	0



REPORT NUMBER: G2-1802-569-31 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4025-12-BK-OSL

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1	1	1	1	0	0	0	0	0	0	0
-25°	1	1	1	1	0	0	0	0	0	0	0
-27.5°	1	1	1	0	0	0	0	0	0	0	0
-30°	1	1	1	0	0	0	0	0	0	0	0
-32.5°	1	1	0	0	0	0	0	0	0	0	0
-35°	1	1	0	0	0	0	0	0	0	0	0
-37.5°	1	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: G2-1802-569-31 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4025-12-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: G2-1802-569-31 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 203-8LED4025-12-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)