

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: G2-1802-569-39 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Test Date: 04/05/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-39 (CONVERTED FROM TYPE C PHOTOMETRY)
Test Lab: INNOVATION CENTER(G2)
Test Date: 04/05/18
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 203-8LED4010-12-CS-OSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 10 DEGREE SPOT OPTIC, REGRESSED HOOD SILVER, OVERALL SPREAD LENS
Light Source: (1) SORAA 4000K 95 CRI 10° NSP LED SM16-07-10D-940-03
Ballast/Driver: CHROMA POWER SUPPLY IN0004

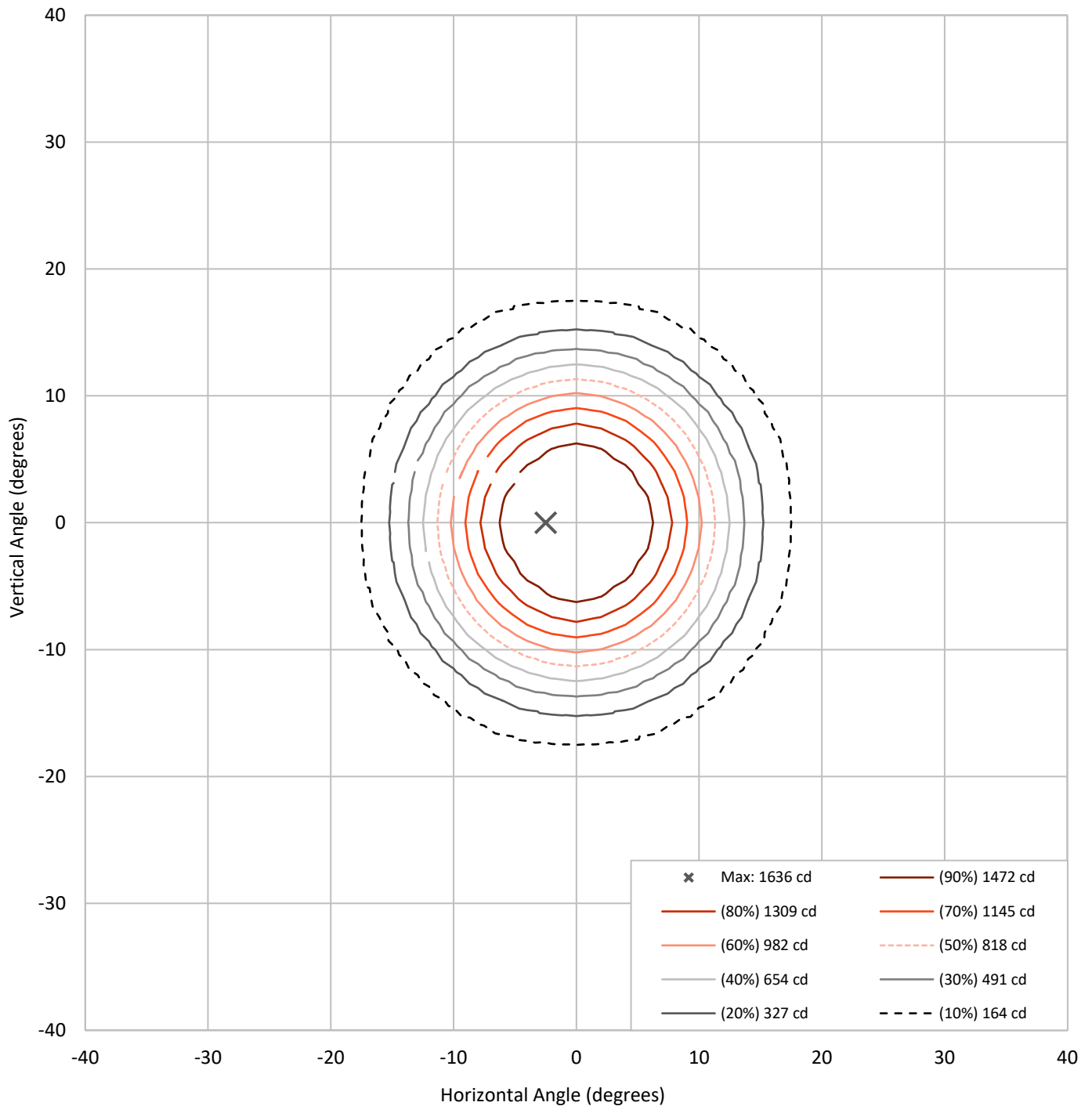
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	289.7 lumens	Max Intensity:	1636 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	38.6 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:	147.1 lumens	Field Lumens:	224.3 lumens
Beam Efficiency:	50.8%	Field Efficiency:	77.4%
Input Watts (W):	7.5		
Input Voltage (V):	12.0		
Input Current (Ain):	0.656		
Voltage Rise (V):	NR		
Power Factor:	0.9482		
Total Harmonic Distortion (THDi):	25.7		
Frequency (hertz):	60		
Stabilization Time:	0.5 HR		
Operation Time:	9 HR		
Ambient Temperature (°C):	25.0		
Test Distance:	25 FT		



REPORT NUMBER: G2-1802-569-39 (CONVERTED FROM TYPE C PHOTOMETRY)
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Iso-Candela Plot





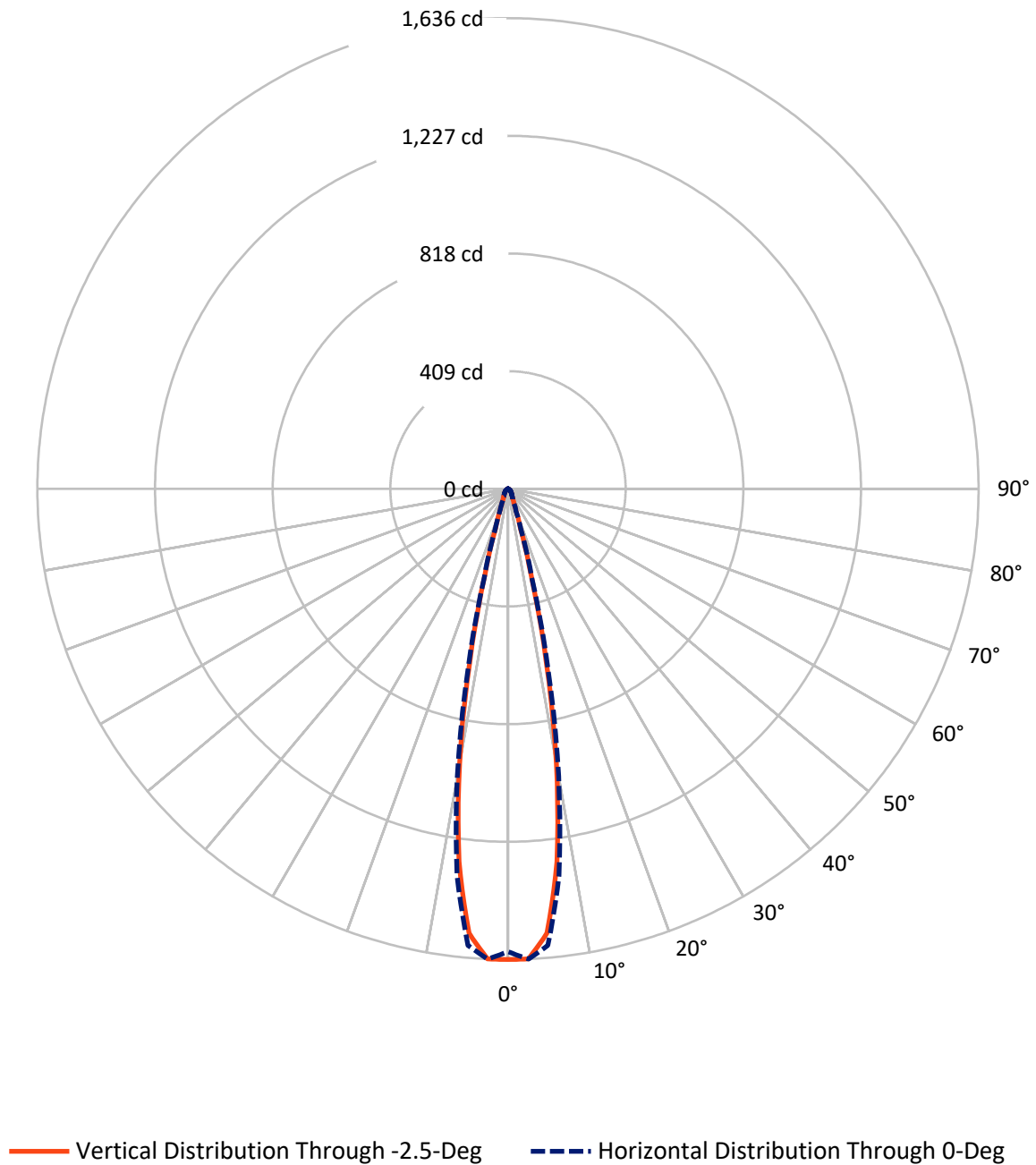
REPORT NUMBER: G2-1802-569-39 (CONVERTED FROM TYPE C PHOTOMETRY)
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Lumen Table

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	0.1	0.1	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		
50	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.4	0.4	0.4	0.3	0.2	0.1	0.0	0.0	
40		0.0	0.1	0.2	0.3	0.5	0.6	0.7	0.7	0.6	0.5	0.3	0.2	0.1		
30	0.0	0.0	0.1	0.2	0.4	0.6	0.9	1.3	1.3	0.9	0.6	0.4	0.2	0.1	0.0	
20		0.0	0.1	0.3	0.5	0.9	2.7	9.9	9.9	2.7	0.9	0.5	0.3	0.1		
10	0.0	0.0	0.1	0.3	0.6	1.2	9.6	38.0	38.0	9.6	1.2	0.6	0.3	0.1	0.0	
0		0.0	0.1	0.3	0.6	1.2	9.6	38.0	38.0	9.6	1.2	0.6	0.3	0.1		
-10	0.0	0.0	0.1	0.3	0.6	1.2	9.6	38.0	38.0	9.6	1.2	0.6	0.3	0.1	0.0	
-20		0.0	0.1	0.3	0.5	0.9	2.7	9.9	9.9	2.7	0.9	0.5	0.3	0.1		
-30	0.0	0.0	0.1	0.2	0.4	0.6	0.9	1.3	1.3	0.9	0.6	0.4	0.2	0.1	0.0	
-40		0.0	0.1	0.2	0.3	0.5	0.6	0.7	0.7	0.6	0.5	0.3	0.2	0.1		
-50	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.4	0.4	0.4	0.3	0.2	0.1	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		
-70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	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	

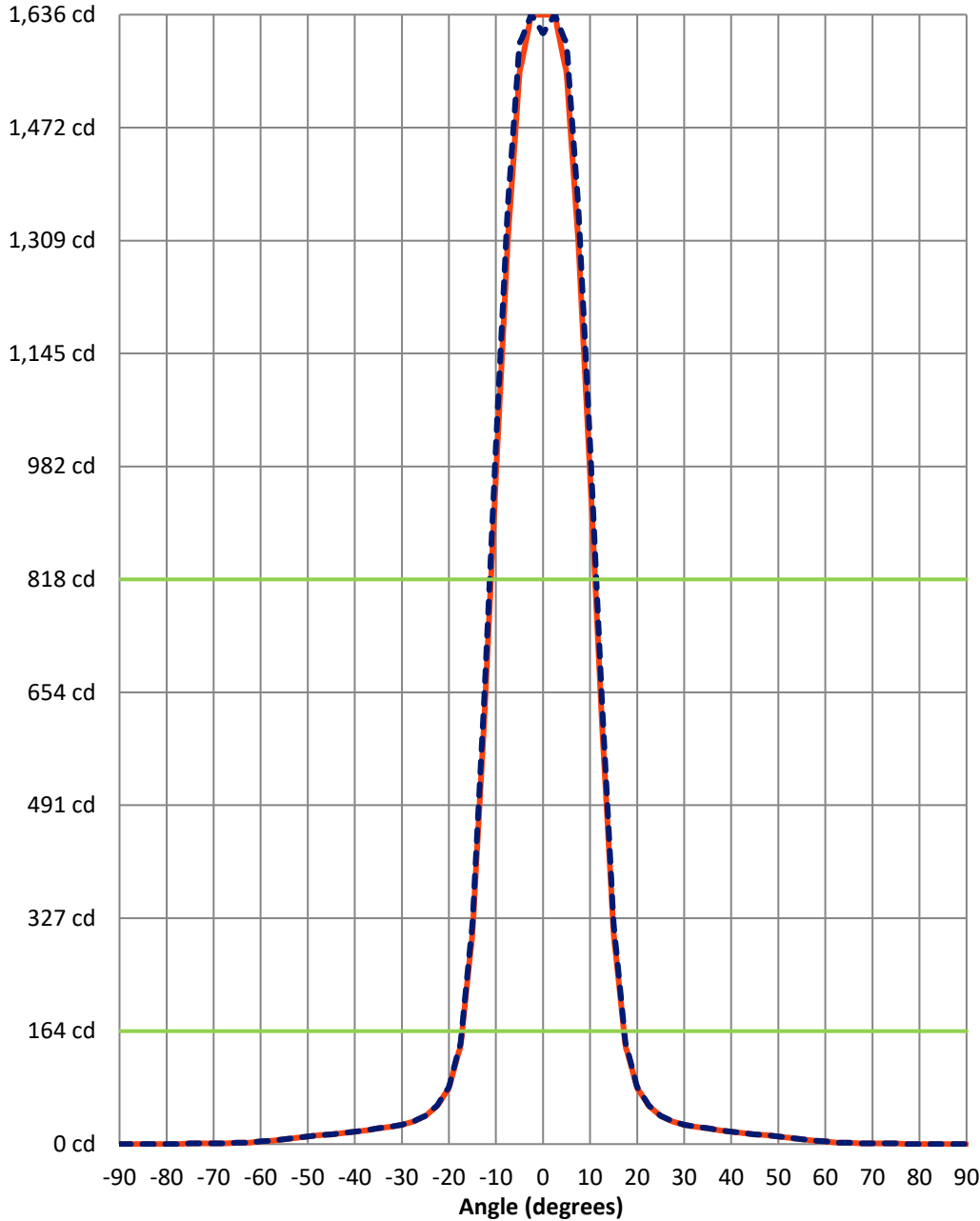
REPORT NUMBER: G2-1802-569-39 (CONVERTED FROM TYPE C PHOTOMETRY)
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 22.7°
 V Angle: 22.1°
 Lumens: 147.1
 Efficiency: 50.8%

Field:
 H Angle: 34.5°
 V Angle: 34.4°
 Lumens: 224.3
 Efficiency: 77.4%

Spill:
 Lumens: 65.4
 Efficiency: 22.6%

- Vertical Distribution through -2.5-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	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	1	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	1	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	2
15°	0	0	0	0	0	0	1	1	1	1	2
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	2
-17.5°	0	0	0	0	0	0	1	1	1	1	2
-20°	0	0	0	0	0	0	1	1	1	1	1



REPORT NUMBER: G2-1802-569-39 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4010-12-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	1	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	1	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: G2-1802-569-39 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4010-12-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	1
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	2	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	3	4	4
47.5°	1	1	1	1	2	2	2	3	4	4	5
45°	1	1	1	2	2	2	3	4	5	5	6
42.5°	1	1	1	2	2	3	4	5	5	7	8
40°	1	1	2	2	2	4	4	5	7	8	9
37.5°	1	1	2	2	3	4	5	6	8	9	10
35°	1	2	2	2	4	5	6	7	9	10	11
32.5°	1	2	2	3	4	5	7	8	10	11	13
30°	1	2	2	4	5	6	8	9	11	12	13
27.5°	2	2	3	4	5	7	8	10	12	13	14
25°	2	2	3	5	6	8	9	11	13	14	15
22.5°	2	2	4	5	6	8	10	12	13	14	16
20°	2	2	4	5	7	9	11	12	14	15	17
17.5°	2	3	4	6	7	9	11	13	14	16	17
15°	2	3	5	6	8	10	12	13	14	16	18
12.5°	2	3	5	6	8	10	12	13	15	17	19
10°	2	4	5	7	8	10	12	14	15	17	19
7.5°	2	4	5	7	9	11	13	14	16	18	19
5°	2	4	5	7	9	11	13	14	16	18	20
2.5°	2	4	5	7	9	11	13	14	16	18	20
0°	2	4	5	7	9	11	13	14	16	18	20
-2.5°	2	4	5	7	9	11	13	14	16	18	20
-5°	2	4	5	7	9	11	13	14	16	18	20
-7.5°	2	4	5	7	9	11	13	14	16	18	19
-10°	2	4	5	7	8	10	12	14	15	17	19
-12.5°	2	3	5	6	8	10	12	13	15	17	19
-15°	2	3	5	6	8	10	12	13	14	16	18
-17.5°	2	3	4	6	7	9	11	13	14	16	17
-20°	2	2	4	5	7	9	11	12	14	15	17



REPORT NUMBER: G2-1802-569-39 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4010-12-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	4	5	6	8	10	12	13	14	16
-25°	2	2	3	5	6	8	9	11	13	14	15
-27.5°	2	2	3	4	5	7	8	10	12	13	14
-30°	1	2	2	4	5	6	8	9	11	12	13
-32.5°	1	2	2	3	4	5	7	8	10	11	13
-35°	1	2	2	2	4	5	6	7	9	10	11
-37.5°	1	1	2	2	3	4	5	6	8	9	10
-40°	1	1	2	2	2	4	4	5	7	8	9
-42.5°	1	1	1	2	2	3	4	5	5	7	8
-45°	1	1	1	2	2	2	3	4	5	5	6
-47.5°	1	1	1	1	2	2	2	3	4	4	5
-50°	1	1	1	1	1	2	2	2	3	4	4
-52.5°	1	1	1	1	1	1	2	2	2	2	3
-55°	1	1	1	1	1	1	1	2	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	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: G2-1802-569-39 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4010-12-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	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°	1	1	1	1	1	1	1	2	2	2	2
62.5°	1	1	1	2	2	2	2	2	2	2	2
60°	2	2	2	2	2	2	2	3	3	3	4
57.5°	2	2	2	3	3	4	4	4	5	5	5
55°	2	3	4	4	5	5	5	6	6	6	7
52.5°	4	4	5	5	6	6	7	7	8	8	8
50°	5	5	6	7	8	8	9	9	10	10	10
47.5°	6	7	8	8	9	10	11	11	12	12	12
45°	7	8	9	10	11	12	12	13	13	13	14
42.5°	9	10	11	12	13	13	14	14	14	15	15
40°	10	11	12	13	14	14	15	16	16	17	17
37.5°	11	13	13	14	15	16	17	17	18	19	19
35°	13	13	14	15	16	17	18	19	20	21	22
32.5°	13	14	16	17	18	19	20	21	22	23	24
30°	14	16	17	18	19	21	22	24	24	25	26
27.5°	15	17	18	20	21	23	24	25	27	28	30
25°	16	18	19	21	23	24	26	28	30	32	35
22.5°	17	19	21	23	24	26	28	32	35	39	44
20°	18	20	22	24	26	28	32	37	42	50	58
17.5°	19	21	24	25	28	32	37	44	54	68	82
15°	20	22	24	27	30	35	42	54	71	98	136
12.5°	21	23	25	28	32	39	50	68	98	145	254
10°	22	24	26	30	35	44	58	82	136	254	436
7.5°	22	24	27	31	38	49	69	109	201	379	648
5°	23	25	28	32	40	53	77	130	265	522	841
2.5°	23	25	28	33	41	55	81	144	306	613	969
0°	23	25	28	33	41	55	81	144	306	613	969
-2.5°	23	25	28	33	41	55	81	144	306	613	969
-5°	23	25	28	32	40	53	77	130	265	522	841
-7.5°	22	24	27	31	38	49	69	109	201	379	648
-10°	22	24	26	30	35	44	58	82	136	254	436
-12.5°	21	23	25	28	32	39	50	68	98	145	254
-15°	20	22	24	27	30	35	42	54	71	98	136
-17.5°	19	21	24	25	28	32	37	44	54	68	82
-20°	18	20	22	24	26	28	32	37	42	50	58



REPORT NUMBER: G2-1802-569-39 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4010-12-CS-OSL

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	17	19	21	23	24	26	28	32	35	39	44
-25°	16	18	19	21	23	24	26	28	30	32	35
-27.5°	15	17	18	20	21	23	24	25	27	28	30
-30°	14	16	17	18	19	21	22	24	24	25	26
-32.5°	13	14	16	17	18	19	20	21	22	23	24
-35°	13	13	14	15	16	17	18	19	20	21	22
-37.5°	11	13	13	14	15	16	17	17	18	19	19
-40°	10	11	12	13	14	14	15	16	16	17	17
-42.5°	9	10	11	12	13	13	14	14	14	15	15
-45°	7	8	9	10	11	12	12	13	13	13	14
-47.5°	6	7	8	8	9	10	11	11	12	12	12
-50°	5	5	6	7	8	8	9	9	10	10	10
-52.5°	4	4	5	5	6	6	7	7	8	8	8
-55°	2	3	4	4	5	5	5	6	6	6	7
-57.5°	2	2	2	3	3	4	4	4	5	5	5
-60°	2	2	2	2	2	2	2	3	3	3	4
-62.5°	1	1	1	2	2	2	2	2	2	2	2
-65°	1	1	1	1	1	1	1	2	2	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	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: G2-1802-569-39 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4010-12-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	2	2
62.5°	2	2	2	2	2	2	2	2	2	2	2
60°	4	4	4	4	4	4	4	4	3	3	3
57.5°	5	5	5	5	5	5	5	5	5	5	4
55°	7	7	7	7	7	7	7	7	6	6	6
52.5°	9	9	9	9	9	9	9	8	8	8	7
50°	11	11	11	11	11	11	11	10	10	10	9
47.5°	13	13	13	13	13	13	13	12	12	12	11
45°	14	14	14	14	14	14	14	14	13	13	13
42.5°	16	16	16	16	16	16	16	15	15	14	14
40°	18	18	18	18	18	18	18	17	17	16	16
37.5°	19	20	20	20	20	20	19	19	19	18	17
35°	22	23	23	23	23	23	22	22	21	20	19
32.5°	24	25	25	25	25	25	24	24	23	22	21
30°	27	28	28	28	28	28	27	26	25	24	24
27.5°	31	32	33	33	33	32	31	30	28	27	25
25°	38	40	41	41	41	40	38	35	32	30	28
22.5°	49	53	55	56	55	53	49	44	39	35	32
20°	69	77	81	83	81	77	69	58	50	42	37
17.5°	109	130	144	148	144	130	109	82	68	54	44
15°	201	265	306	320	306	265	201	136	98	71	54
12.5°	379	522	613	645	613	522	379	254	145	98	68
10°	648	841	969	1014	969	841	648	436	254	136	82
7.5°	927	1154	1307	1357	1307	1154	927	648	379	201	109
5°	1154	1411	1551	1593	1551	1411	1154	841	522	265	130
2.5°	1307	1551	1636	1636	1636	1551	1307	969	613	306	144
0°	1357	1593	1636	1609	1636	1593	1357	1014	645	320	148
-2.5°	1307	1551	1636	1636	1636	1551	1307	969	613	306	144
-5°	1154	1411	1551	1593	1551	1411	1154	841	522	265	130
-7.5°	927	1154	1307	1357	1307	1154	927	648	379	201	109
-10°	648	841	969	1014	969	841	648	436	254	136	82
-12.5°	379	522	613	645	613	522	379	254	145	98	68
-15°	201	265	306	320	306	265	201	136	98	71	54
-17.5°	109	130	144	148	144	130	109	82	68	54	44
-20°	69	77	81	83	81	77	69	58	50	42	37



REPORT NUMBER: G2-1802-569-39 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4010-12-CS-OSL

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	49	53	55	56	55	53	49	44	39	35	32
-25°	38	40	41	41	41	40	38	35	32	30	28
-27.5°	31	32	33	33	33	32	31	30	28	27	25
-30°	27	28	28	28	28	28	27	26	25	24	24
-32.5°	24	25	25	25	25	25	24	24	23	22	21
-35°	22	23	23	23	23	23	22	22	21	20	19
-37.5°	19	20	20	20	20	20	19	19	19	18	17
-40°	18	18	18	18	18	18	18	17	17	16	16
-42.5°	16	16	16	16	16	16	16	15	15	14	14
-45°	14	14	14	14	14	14	14	14	13	13	13
-47.5°	13	13	13	13	13	13	13	12	12	12	11
-50°	11	11	11	11	11	11	11	10	10	10	9
-52.5°	9	9	9	9	9	9	9	8	8	8	7
-55°	7	7	7	7	7	7	7	7	6	6	6
-57.5°	5	5	5	5	5	5	5	5	5	5	4
-60°	4	4	4	4	4	4	4	4	3	3	3
-62.5°	2	2	2	2	2	2	2	2	2	2	2
-65°	2	2	2	2	2	2	2	2	2	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°	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: G2-1802-569-39 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4010-12-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	1	0	0	0	0	0	0	0	0	0
72.5°	1	1	1	1	1	1	1	1	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	4	3	3	2	2	2	2	2	1	1
55°	5	5	5	4	4	3	2	2	2	2	2
52.5°	7	6	6	5	5	4	4	3	2	2	2
50°	9	8	8	7	6	5	5	4	4	3	2
47.5°	11	10	9	8	8	7	6	5	4	4	3
45°	12	12	11	10	9	8	7	6	5	5	4
42.5°	14	13	13	12	11	10	9	8	7	5	5
40°	15	14	14	13	12	11	10	9	8	7	5
37.5°	17	16	15	14	13	13	11	10	9	8	6
35°	18	17	16	15	14	13	13	11	10	9	7
32.5°	20	19	18	17	16	14	13	13	11	10	8
30°	22	21	19	18	17	16	14	13	12	11	9
27.5°	24	23	21	20	18	17	15	14	13	12	10
25°	26	24	23	21	19	18	16	15	14	13	11
22.5°	28	26	24	23	21	19	17	16	14	13	12
20°	32	28	26	24	22	20	18	17	15	14	12
17.5°	37	32	28	25	24	21	19	17	16	14	13
15°	42	35	30	27	24	22	20	18	16	14	13
12.5°	50	39	32	28	25	23	21	19	17	15	13
10°	58	44	35	30	26	24	22	19	17	15	14
7.5°	69	49	38	31	27	24	22	19	18	16	14
5°	77	53	40	32	28	25	23	20	18	16	14
2.5°	81	55	41	33	28	25	23	20	18	16	14
0°	83	56	41	33	28	25	23	20	18	16	14
-2.5°	81	55	41	33	28	25	23	20	18	16	14
-5°	77	53	40	32	28	25	23	20	18	16	14
-7.5°	69	49	38	31	27	24	22	19	18	16	14
-10°	58	44	35	30	26	24	22	19	17	15	14
-12.5°	50	39	32	28	25	23	21	19	17	15	13
-15°	42	35	30	27	24	22	20	18	16	14	13
-17.5°	37	32	28	25	24	21	19	17	16	14	13
-20°	32	28	26	24	22	20	18	17	15	14	12



REPORT NUMBER: G2-1802-569-39 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4010-12-CS-OSL

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	28	26	24	23	21	19	17	16	14	13	12
-25°	26	24	23	21	19	18	16	15	14	13	11
-27.5°	24	23	21	20	18	17	15	14	13	12	10
-30°	22	21	19	18	17	16	14	13	12	11	9
-32.5°	20	19	18	17	16	14	13	13	11	10	8
-35°	18	17	16	15	14	13	13	11	10	9	7
-37.5°	17	16	15	14	13	13	11	10	9	8	6
-40°	15	14	14	13	12	11	10	9	8	7	5
-42.5°	14	13	13	12	11	10	9	8	7	5	5
-45°	12	12	11	10	9	8	7	6	5	5	4
-47.5°	11	10	9	8	8	7	6	5	4	4	3
-50°	9	8	8	7	6	5	5	4	4	3	2
-52.5°	7	6	6	5	5	4	4	3	2	2	2
-55°	5	5	5	4	4	3	2	2	2	2	2
-57.5°	4	4	3	3	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	1	0	0	0
-75°	1	1	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: G2-1802-569-39 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4010-12-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	2	1	1	1	1	1	1	0
42.5°	4	3	2	2	1	1	1	1	1	1	0
40°	4	4	2	2	2	1	1	1	1	1	0
37.5°	5	4	3	2	2	1	1	1	1	1	1
35°	6	5	4	2	2	2	1	1	1	1	1
32.5°	7	5	4	3	2	2	1	1	1	1	1
30°	8	6	5	4	2	2	1	1	1	1	1
27.5°	8	7	5	4	3	2	2	1	1	1	1
25°	9	8	6	5	3	2	2	1	1	1	1
22.5°	10	8	6	5	4	2	2	1	1	1	1
20°	11	9	7	5	4	2	2	1	1	1	1
17.5°	11	9	7	6	4	3	2	2	1	1	1
15°	12	10	8	6	5	3	2	2	1	1	1
12.5°	12	10	8	6	5	3	2	2	1	1	1
10°	12	10	8	7	5	4	2	2	1	1	1
7.5°	13	11	9	7	5	4	2	2	1	1	1
5°	13	11	9	7	5	4	2	2	1	1	1
2.5°	13	11	9	7	5	4	2	2	1	1	1
0°	13	11	9	7	5	4	2	2	1	1	1
-2.5°	13	11	9	7	5	4	2	2	1	1	1
-5°	13	11	9	7	5	4	2	2	1	1	1
-7.5°	13	11	9	7	5	4	2	2	1	1	1
-10°	12	10	8	7	5	4	2	2	1	1	1
-12.5°	12	10	8	6	5	3	2	2	1	1	1
-15°	12	10	8	6	5	3	2	2	1	1	1
-17.5°	11	9	7	6	4	3	2	2	1	1	1
-20°	11	9	7	5	4	2	2	1	1	1	1



REPORT NUMBER: G2-1802-569-39 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4010-12-CS-OSL

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	10	8	6	5	4	2	2	1	1	1	1
-25°	9	8	6	5	3	2	2	1	1	1	1
-27.5°	8	7	5	4	3	2	2	1	1	1	1
-30°	8	6	5	4	2	2	1	1	1	1	1
-32.5°	7	5	4	3	2	2	1	1	1	1	1
-35°	6	5	4	2	2	2	1	1	1	1	1
-37.5°	5	4	3	2	2	1	1	1	1	1	1
-40°	4	4	2	2	2	1	1	1	1	1	0
-42.5°	4	3	2	2	1	1	1	1	1	1	0
-45°	3	2	2	2	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: G2-1802-569-39 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4010-12-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°	1	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: G2-1802-569-39 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4010-12-CS-OSL

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	1	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)