

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: G2-1802-569-47 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **203-8LED4036-12-CS-OSL**

Test Date: 04/06/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-47 (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: 203-8LED4036-12-CS-OSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 36 DEGREE WIDE OPTIC, REGRESSED HOOD SILVER, OVERALL SPREAD LENS
Light Source: (1) SORAA 4000K 90 CRI LED
SM16-07-36D-940-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

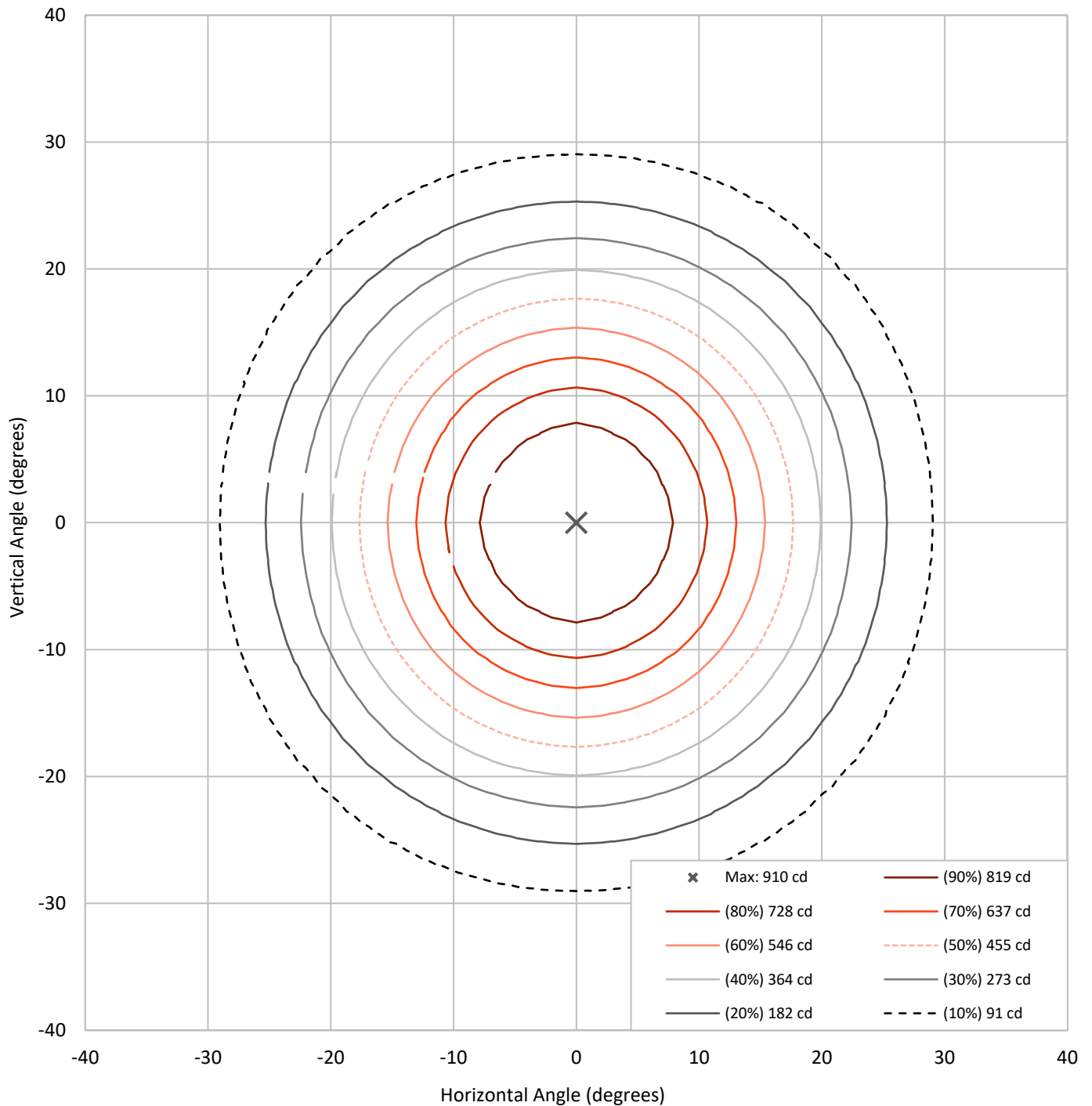
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	348.3 lumens	Max Intensity:	910 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	45.8 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	35.4°H x 35.4°V	Field Angle (10%):	58.1°H x 58.1°V
Beam Lumens:	196.6 lumens	Field Lumens:	315.5 lumens
Beam Efficiency:	56.5%	Field Efficiency:	90.6%
Input Watts (W):	7.6		
Input Voltage (V):	12.0		
Input Current (Ain):	0.671		
Voltage Rise (V):	NR		
Power Factor:	0.9903		
Total Harmonic Distortion (THDi):	27.5%		
Frequency (hertz):	60		
Stabilization Time:	0.5 HR		
Operation Time:	3 HR		
Ambient Temperature (°C):	25.2		
Test Distance:	25 FT		



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Iso-Candela Plot





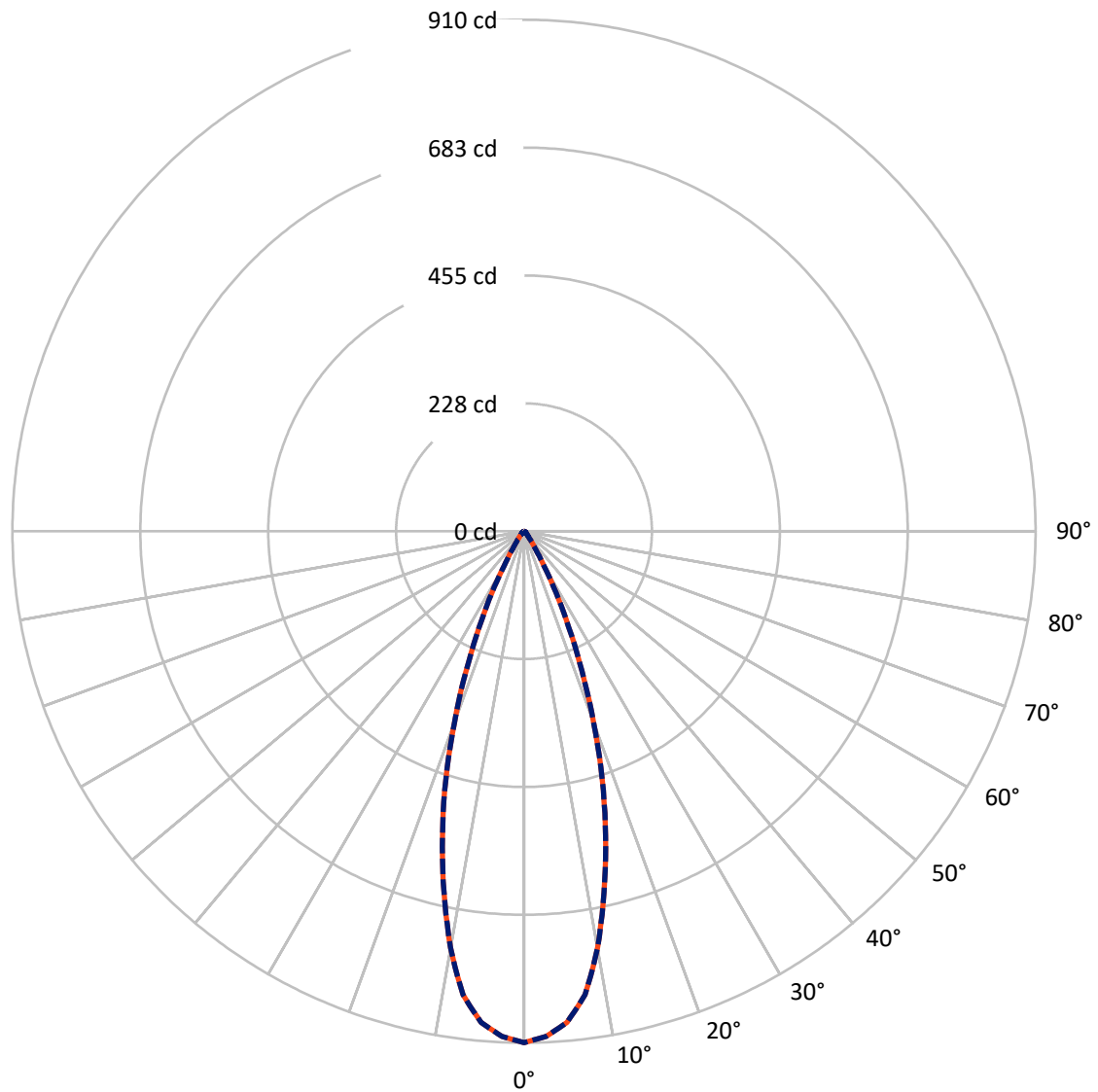
REPORT NUMBER: G2-1802-569-47 (CONVERTED FROM TYPE C PHOTOMETRY)
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Lumen Table

90	0.0	0.0	0.0	0.0	0.0	0.1	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				
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				
60		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					
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				
40		0.0	0.0	0.1	0.1	0.3	0.5	0.8	0.8	0.5	0.3	0.1	0.1	0.0		0.0			
30	0.0	0.0	0.0	0.1	0.2	0.9	3.0	5.5	5.5	3.0	0.9	0.2	0.1	0.0	0.0				
20		0.0	0.1	0.1	0.4	2.8	9.4	15.7	15.7	9.4	2.8	0.4	0.1	0.1		0.0			
10	0.0	0.0	0.1	0.1	0.7	5.0	15.2	24.4	24.4	15.2	5.0	0.7	0.1	0.1	0.0				
0		0.0	0.1	0.1	0.7	5.0	15.2	24.4	24.4	15.2	5.0	0.7	0.1	0.1		0.0			
-10	0.0	0.0	0.1	0.1	0.4	2.8	9.4	15.7	15.7	9.4	2.8	0.4	0.1	0.1	0.0				
-20		0.0	0.0	0.1	0.2	0.9	3.0	5.5	5.5	3.0	0.9	0.2	0.1	0.0		0.0			
-30	0.0	0.0	0.0	0.1	0.1	0.3	0.5	0.8	0.8	0.5	0.3	0.1	0.1	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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				
-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	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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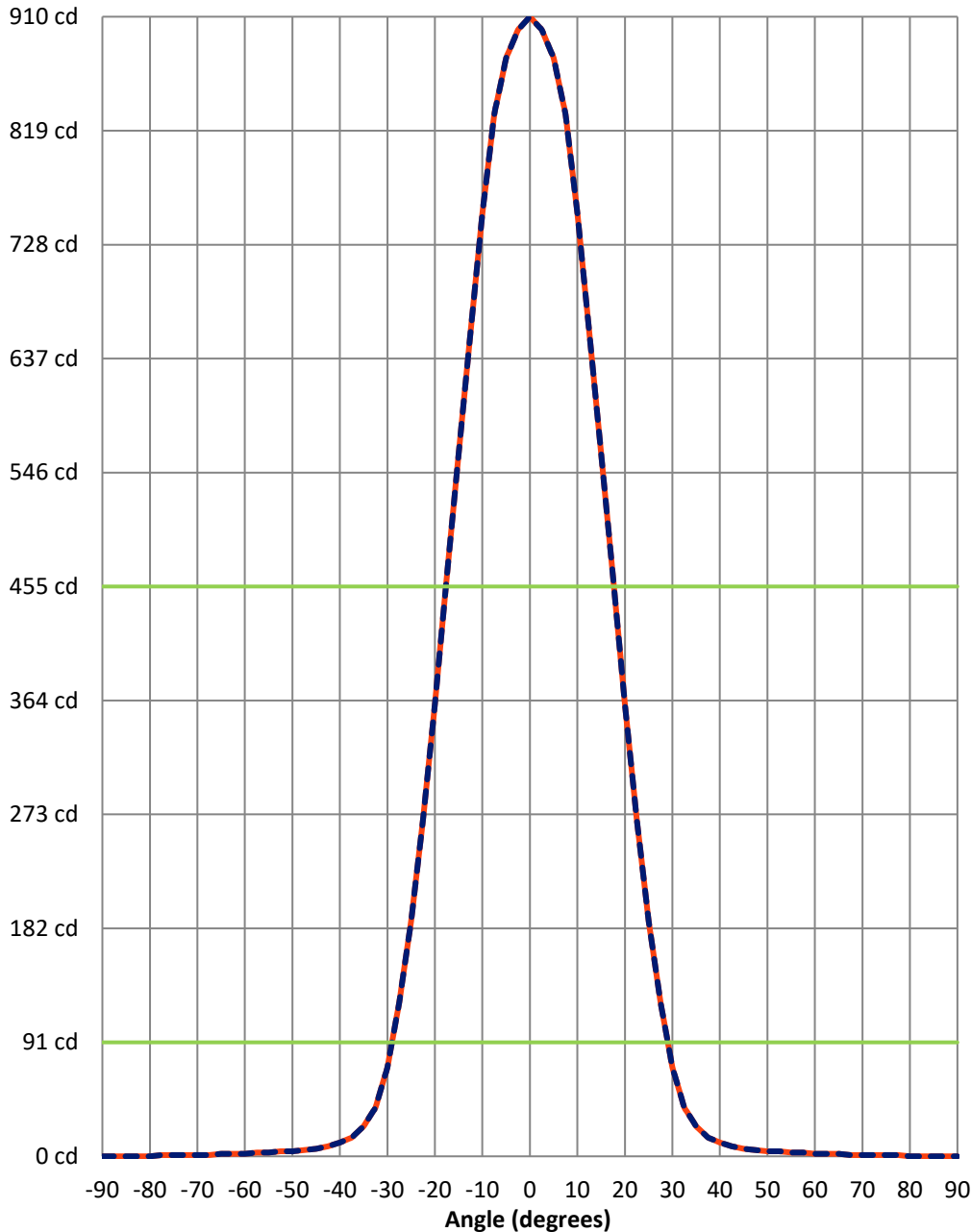
Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 35.4°
 V Angle: 35.4°
 Lumens: 196.6
 Efficiency: 56.5%

Field:
 H Angle: 58.1°
 V Angle: 58.1°
 Lumens: 315.5
 Efficiency: 90.6%

Spill:
 Lumens: 32.8
 Efficiency: 9.4%

- 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	1
60°	0	0	0	0	0	0	0	0	0	0	1
57.5°	0	0	0	0	0	0	0	0	0	1	1
55°	0	0	0	0	0	0	0	0	1	1	1
52.5°	0	0	0	0	0	0	0	0	1	1	1
50°	0	0	0	0	0	0	0	0	1	1	1
47.5°	0	0	0	0	0	0	0	1	1	1	1
45°	0	0	0	0	0	0	0	1	1	1	1
42.5°	0	0	0	0	0	0	0	1	1	1	1
40°	0	0	0	0	0	0	1	1	1	1	1
37.5°	0	0	0	0	0	0	1	1	1	1	1
35°	0	0	0	0	0	0	1	1	1	1	1
32.5°	0	0	0	0	0	0	1	1	1	1	1
30°	0	0	0	0	0	0	1	1	1	1	1
27.5°	0	0	0	0	0	0	1	1	1	1	1
25°	0	0	0	0	0	1	1	1	1	1	1
22.5°	0	0	0	0	0	1	1	1	1	1	1
20°	0	0	0	0	0	1	1	1	1	1	1
17.5°	0	0	0	0	0	1	1	1	1	1	2
15°	0	0	0	0	0	1	1	1	1	1	2
12.5°	0	0	0	0	0	1	1	1	1	1	2
10°	0	0	0	0	0	1	1	1	1	1	2
7.5°	0	0	0	0	0	1	1	1	1	1	2
5°	0	0	0	0	0	1	1	1	1	1	2
2.5°	0	0	0	0	0	1	1	1	1	1	2
0°	0	0	0	0	0	1	1	1	1	1	2
-2.5°	0	0	0	0	0	1	1	1	1	1	2
-5°	0	0	0	0	0	1	1	1	1	1	2
-7.5°	0	0	0	0	0	1	1	1	1	1	2
-10°	0	0	0	0	0	1	1	1	1	1	2
-12.5°	0	0	0	0	0	1	1	1	1	1	2
-15°	0	0	0	0	0	1	1	1	1	1	2
-17.5°	0	0	0	0	0	1	1	1	1	1	2
-20°	0	0	0	0	0	1	1	1	1	1	1



REPORT NUMBER: G2-1802-569-47 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4036-12-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	1	1	1	1	1	1
-25°	0	0	0	0	0	1	1	1	1	1	1
-27.5°	0	0	0	0	0	0	1	1	1	1	1
-30°	0	0	0	0	0	0	1	1	1	1	1
-32.5°	0	0	0	0	0	0	1	1	1	1	1
-35°	0	0	0	0	0	0	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	1	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	1	1	1	1
-47.5°	0	0	0	0	0	0	0	1	1	1	1
-50°	0	0	0	0	0	0	0	0	1	1	1
-52.5°	0	0	0	0	0	0	0	0	1	1	1
-55°	0	0	0	0	0	0	0	0	1	1	1
-57.5°	0	0	0	0	0	0	0	0	0	1	1
-60°	0	0	0	0	0	0	0	0	0	0	1
-62.5°	0	0	0	0	0	0	0	0	0	0	1
-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: G2-1802-569-47 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4036-12-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	1	1
72.5°	0	0	0	0	0	0	1	1	1	1	1
70°	0	0	0	1	1	1	1	1	1	1	1
67.5°	0	0	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	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	2
50°	1	1	1	1	1	2	2	2	2	2	2
47.5°	1	1	1	1	2	2	2	2	2	2	3
45°	1	1	1	2	2	2	2	2	3	3	3
42.5°	1	1	1	2	2	2	2	3	3	3	3
40°	1	1	2	2	2	2	2	3	3	3	4
37.5°	1	1	2	2	2	2	3	3	3	4	4
35°	1	2	2	2	2	3	3	3	4	4	4
32.5°	1	2	2	2	2	3	3	4	4	4	5
30°	1	2	2	2	3	3	3	4	4	5	5
27.5°	2	2	2	2	3	3	4	4	4	5	6
25°	2	2	2	3	3	3	4	4	5	6	7
22.5°	2	2	2	3	3	4	4	4	5	6	8
20°	2	2	2	3	3	4	4	5	6	7	9
17.5°	2	2	2	3	3	4	4	5	6	8	10
15°	2	2	3	3	3	4	4	5	6	8	11
12.5°	2	2	3	3	4	4	5	5	7	9	12
10°	2	2	3	3	4	4	5	6	7	10	13
7.5°	2	2	3	3	4	4	5	6	8	10	14
5°	2	2	3	3	4	4	5	6	8	11	15
2.5°	2	2	3	3	4	4	5	6	8	11	15
0°	2	2	3	3	4	4	5	6	8	11	15
-2.5°	2	2	3	3	4	4	5	6	8	11	15
-5°	2	2	3	3	4	4	5	6	8	11	15
-7.5°	2	2	3	3	4	4	5	6	8	10	14
-10°	2	2	3	3	4	4	5	6	7	10	13
-12.5°	2	2	3	3	4	4	5	5	7	9	12
-15°	2	2	3	3	3	4	4	5	6	8	11
-17.5°	2	2	2	3	3	4	4	5	6	8	10
-20°	2	2	2	3	3	4	4	5	6	7	9



REPORT NUMBER: G2-1802-569-47 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4036-12-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	2	3	3	4	4	4	5	6	8
-25°	2	2	2	3	3	3	4	4	5	6	7
-27.5°	2	2	2	2	3	3	4	4	4	5	6
-30°	1	2	2	2	3	3	3	4	4	5	5
-32.5°	1	2	2	2	2	3	3	4	4	4	5
-35°	1	2	2	2	2	3	3	3	4	4	4
-37.5°	1	1	2	2	2	2	3	3	3	4	4
-40°	1	1	2	2	2	2	2	3	3	3	4
-42.5°	1	1	1	2	2	2	2	3	3	3	3
-45°	1	1	1	2	2	2	2	2	3	3	3
-47.5°	1	1	1	1	2	2	2	2	2	2	3
-50°	1	1	1	1	1	2	2	2	2	2	2
-52.5°	1	1	1	1	1	1	2	2	2	2	2
-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°	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°	0	0	1	1	1	1	1	1	1	1	1
-70°	0	0	0	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	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: G2-1802-569-47 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4036-12-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	1	1	1	1	1	1	1
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°	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	2	2	2	2
57.5°	2	2	2	2	2	2	2	2	3	3	3
55°	2	2	2	2	3	3	3	3	3	3	3
52.5°	2	2	3	3	3	3	3	3	3	4	4
50°	3	3	3	3	3	4	4	4	4	4	4
47.5°	3	3	3	4	4	4	4	4	4	5	5
45°	3	4	4	4	4	4	5	5	5	5	6
42.5°	4	4	4	4	5	5	6	6	6	7	7
40°	4	4	5	5	6	6	7	8	8	9	10
37.5°	4	5	5	6	7	8	9	10	11	12	13
35°	5	5	6	7	9	10	12	13	15	17	20
32.5°	5	6	8	9	11	13	15	19	22	27	31
30°	6	8	9	11	14	17	22	28	35	42	52
27.5°	7	9	11	14	19	24	33	43	58	71	87
25°	9	11	14	19	25	35	50	69	91	117	140
22.5°	10	13	17	24	35	53	75	106	140	172	203
20°	12	15	22	33	50	75	111	152	194	236	277
17.5°	13	19	28	43	69	106	152	201	255	309	358
15°	15	22	35	58	91	140	194	255	320	384	444
12.5°	17	27	42	71	117	172	236	309	384	458	524
10°	20	31	52	87	140	203	277	358	444	524	596
7.5°	22	34	60	102	160	229	312	402	493	579	659
5°	23	37	66	113	175	250	339	436	530	622	709
2.5°	24	38	70	120	185	264	355	456	553	649	741
0°	24	39	71	123	188	269	361	463	561	658	753
-2.5°	24	38	70	120	185	264	355	456	553	649	741
-5°	23	37	66	113	175	250	339	436	530	622	709
-7.5°	22	34	60	102	160	229	312	402	493	579	659
-10°	20	31	52	87	140	203	277	358	444	524	596
-12.5°	17	27	42	71	117	172	236	309	384	458	524
-15°	15	22	35	58	91	140	194	255	320	384	444
-17.5°	13	19	28	43	69	106	152	201	255	309	358
-20°	12	15	22	33	50	75	111	152	194	236	277



REPORT NUMBER: G2-1802-569-47 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4036-12-CS-OSL

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	10	13	17	24	35	53	75	106	140	172	203
-25°	9	11	14	19	25	35	50	69	91	117	140
-27.5°	7	9	11	14	19	24	33	43	58	71	87
-30°	6	8	9	11	14	17	22	28	35	42	52
-32.5°	5	6	8	9	11	13	15	19	22	27	31
-35°	5	5	6	7	9	10	12	13	15	17	20
-37.5°	4	5	5	6	7	8	9	10	11	12	13
-40°	4	4	5	5	6	6	7	8	8	9	10
-42.5°	4	4	4	4	5	5	6	6	6	7	7
-45°	3	4	4	4	4	4	5	5	5	5	6
-47.5°	3	3	3	4	4	4	4	4	4	5	5
-50°	3	3	3	3	3	4	4	4	4	4	4
-52.5°	2	2	3	3	3	3	3	3	3	4	4
-55°	2	2	2	2	3	3	3	3	3	3	3
-57.5°	2	2	2	2	2	2	2	2	3	3	3
-60°	2	2	2	2	2	2	2	2	2	2	2
-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°	1	1	1	1	1	1	1	1	1	1	1
-77.5°	0	0	0	0	1	1	1	1	1	1	1
-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: G2-1802-569-47 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4036-12-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°	1	1	1	1	1	1	1	1	1	1	1
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°	2	2	2	2	2	2	2	2	2	2	2
57.5°	3	3	3	3	3	3	3	3	3	3	2
55°	3	3	3	3	3	3	3	3	3	3	3
52.5°	4	4	4	4	4	4	4	4	4	3	3
50°	4	4	4	4	4	4	4	4	4	4	4
47.5°	5	5	5	5	5	5	5	5	5	4	4
45°	6	6	6	6	6	6	6	6	5	5	5
42.5°	8	8	8	8	8	8	8	7	7	6	6
40°	10	11	11	11	11	11	10	10	9	8	8
37.5°	14	15	15	15	15	15	14	13	12	11	10
35°	22	23	24	24	24	23	22	20	17	15	13
32.5°	34	37	38	39	38	37	34	31	27	22	19
30°	60	66	70	71	70	66	60	52	42	35	28
27.5°	102	113	120	123	120	113	102	87	71	58	43
25°	160	175	185	188	185	175	160	140	117	91	69
22.5°	229	250	264	269	264	250	229	203	172	140	106
20°	312	339	355	361	355	339	312	277	236	194	152
17.5°	402	436	456	463	456	436	402	358	309	255	201
15°	493	530	553	561	553	530	493	444	384	320	255
12.5°	579	622	649	658	649	622	579	524	458	384	309
10°	659	709	741	753	741	709	659	596	524	444	358
7.5°	731	788	822	832	822	788	731	659	579	493	402
5°	788	843	869	877	869	843	788	709	622	530	436
2.5°	822	869	891	900	891	869	822	741	649	553	456
0°	832	877	900	910	900	877	832	753	658	561	463
-2.5°	822	869	891	900	891	869	822	741	649	553	456
-5°	788	843	869	877	869	843	788	709	622	530	436
-7.5°	731	788	822	832	822	788	731	659	579	493	402
-10°	659	709	741	753	741	709	659	596	524	444	358
-12.5°	579	622	649	658	649	622	579	524	458	384	309
-15°	493	530	553	561	553	530	493	444	384	320	255
-17.5°	402	436	456	463	456	436	402	358	309	255	201
-20°	312	339	355	361	355	339	312	277	236	194	152



REPORT NUMBER: G2-1802-569-47 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4036-12-CS-OSL

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	229	250	264	269	264	250	229	203	172	140	106
-25°	160	175	185	188	185	175	160	140	117	91	69
-27.5°	102	113	120	123	120	113	102	87	71	58	43
-30°	60	66	70	71	70	66	60	52	42	35	28
-32.5°	34	37	38	39	38	37	34	31	27	22	19
-35°	22	23	24	24	24	23	22	20	17	15	13
-37.5°	14	15	15	15	15	15	14	13	12	11	10
-40°	10	11	11	11	11	11	10	10	9	8	8
-42.5°	8	8	8	8	8	8	8	7	7	6	6
-45°	6	6	6	6	6	6	6	6	5	5	5
-47.5°	5	5	5	5	5	5	5	5	5	4	4
-50°	4	4	4	4	4	4	4	4	4	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	3	3
-57.5°	3	3	3	3	3	3	3	3	3	3	2
-60°	2	2	2	2	2	2	2	2	2	2	2
-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°	1	1	1	1	1	1	1	1	1	1	1
-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: G2-1802-569-47 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4036-12-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°	1	1	1	0	0	0	0	0	0	0	0
75°	1	1	1	1	1	1	1	1	1	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°	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°	2	2	2	2	2	2	2	2	2	1	1
55°	3	3	3	2	2	2	2	2	2	2	2
52.5°	3	3	3	3	3	2	2	2	2	2	2
50°	4	4	3	3	3	3	3	2	2	2	2
47.5°	4	4	4	4	3	3	3	3	2	2	2
45°	5	4	4	4	4	4	3	3	3	3	2
42.5°	6	5	5	4	4	4	4	3	3	3	3
40°	7	6	6	5	5	4	4	4	3	3	3
37.5°	9	8	7	6	5	5	4	4	4	3	3
35°	12	10	9	7	6	5	5	4	4	4	3
32.5°	15	13	11	9	8	6	5	5	4	4	4
30°	22	17	14	11	9	8	6	5	5	4	4
27.5°	33	24	19	14	11	9	7	6	5	4	4
25°	50	35	25	19	14	11	9	7	6	5	4
22.5°	75	53	35	24	17	13	10	8	6	5	4
20°	111	75	50	33	22	15	12	9	7	6	5
17.5°	152	106	69	43	28	19	13	10	8	6	5
15°	194	140	91	58	35	22	15	11	8	6	5
12.5°	236	172	117	71	42	27	17	12	9	7	5
10°	277	203	140	87	52	31	20	13	10	7	6
7.5°	312	229	160	102	60	34	22	14	10	8	6
5°	339	250	175	113	66	37	23	15	11	8	6
2.5°	355	264	185	120	70	38	24	15	11	8	6
0°	361	269	188	123	71	39	24	15	11	8	6
-2.5°	355	264	185	120	70	38	24	15	11	8	6
-5°	339	250	175	113	66	37	23	15	11	8	6
-7.5°	312	229	160	102	60	34	22	14	10	8	6
-10°	277	203	140	87	52	31	20	13	10	7	6
-12.5°	236	172	117	71	42	27	17	12	9	7	5
-15°	194	140	91	58	35	22	15	11	8	6	5
-17.5°	152	106	69	43	28	19	13	10	8	6	5
-20°	111	75	50	33	22	15	12	9	7	6	5



REPORT NUMBER: G2-1802-569-47 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4036-12-CS-OSL

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	75	53	35	24	17	13	10	8	6	5	4
-25°	50	35	25	19	14	11	9	7	6	5	4
-27.5°	33	24	19	14	11	9	7	6	5	4	4
-30°	22	17	14	11	9	8	6	5	5	4	4
-32.5°	15	13	11	9	8	6	5	5	4	4	4
-35°	12	10	9	7	6	5	5	4	4	4	3
-37.5°	9	8	7	6	5	5	4	4	4	3	3
-40°	7	6	6	5	5	4	4	4	3	3	3
-42.5°	6	5	5	4	4	4	4	3	3	3	3
-45°	5	4	4	4	4	4	3	3	3	3	2
-47.5°	4	4	4	4	3	3	3	3	2	2	2
-50°	4	4	3	3	3	3	3	2	2	2	2
-52.5°	3	3	3	3	3	2	2	2	2	2	2
-55°	3	3	3	2	2	2	2	2	2	2	2
-57.5°	2	2	2	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	1	1	1	1
-75°	1	1	1	1	1	1	1	1	1	0	0
-77.5°	1	1	1	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: G2-1802-569-47 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4036-12-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°	1	0	0	0	0	0	0	0	0	0	0
70°	1	1	1	1	0	0	0	0	0	0	0
67.5°	1	1	1	1	1	0	0	0	0	0	0
65°	1	1	1	1	1	1	1	0	0	0	0
62.5°	1	1	1	1	1	1	1	1	0	0	0
60°	1	1	1	1	1	1	1	1	0	0	0
57.5°	1	1	1	1	1	1	1	1	1	0	0
55°	1	1	1	1	1	1	1	1	1	1	0
52.5°	2	1	1	1	1	1	1	1	1	1	0
50°	2	2	1	1	1	1	1	1	1	1	0
47.5°	2	2	2	1	1	1	1	1	1	1	1
45°	2	2	2	2	1	1	1	1	1	1	1
42.5°	2	2	2	2	1	1	1	1	1	1	1
40°	2	2	2	2	2	1	1	1	1	1	1
37.5°	3	2	2	2	2	1	1	1	1	1	1
35°	3	3	2	2	2	2	1	1	1	1	1
32.5°	3	3	2	2	2	2	1	1	1	1	1
30°	3	3	3	2	2	2	1	1	1	1	1
27.5°	4	3	3	2	2	2	2	1	1	1	1
25°	4	3	3	3	2	2	2	1	1	1	1
22.5°	4	4	3	3	2	2	2	1	1	1	1
20°	4	4	3	3	2	2	2	1	1	1	1
17.5°	4	4	3	3	2	2	2	2	1	1	1
15°	4	4	3	3	3	2	2	2	1	1	1
12.5°	5	4	4	3	3	2	2	2	1	1	1
10°	5	4	4	3	3	2	2	2	1	1	1
7.5°	5	4	4	3	3	2	2	2	1	1	1
5°	5	4	4	3	3	2	2	2	1	1	1
2.5°	5	4	4	3	3	2	2	2	1	1	1
0°	5	4	4	3	3	2	2	2	1	1	1
-2.5°	5	4	4	3	3	2	2	2	1	1	1
-5°	5	4	4	3	3	2	2	2	1	1	1
-7.5°	5	4	4	3	3	2	2	2	1	1	1
-10°	5	4	4	3	3	2	2	2	1	1	1
-12.5°	5	4	4	3	3	2	2	2	1	1	1
-15°	4	4	3	3	3	2	2	2	1	1	1
-17.5°	4	4	3	3	2	2	2	2	1	1	1
-20°	4	4	3	3	2	2	2	1	1	1	1



REPORT NUMBER: G2-1802-569-47 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4036-12-CS-OSL

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	4	4	3	3	2	2	2	1	1	1	1
-25°	4	3	3	3	2	2	2	1	1	1	1
-27.5°	4	3	3	2	2	2	2	1	1	1	1
-30°	3	3	3	2	2	2	1	1	1	1	1
-32.5°	3	3	2	2	2	2	1	1	1	1	1
-35°	3	3	2	2	2	2	1	1	1	1	1
-37.5°	3	2	2	2	2	1	1	1	1	1	1
-40°	2	2	2	2	2	1	1	1	1	1	1
-42.5°	2	2	2	2	1	1	1	1	1	1	1
-45°	2	2	2	2	1	1	1	1	1	1	1
-47.5°	2	2	2	1	1	1	1	1	1	1	1
-50°	2	2	1	1	1	1	1	1	1	1	0
-52.5°	2	1	1	1	1	1	1	1	1	1	0
-55°	1	1	1	1	1	1	1	1	1	1	0
-57.5°	1	1	1	1	1	1	1	1	1	0	0
-60°	1	1	1	1	1	1	1	1	0	0	0
-62.5°	1	1	1	1	1	1	1	1	0	0	0
-65°	1	1	1	1	1	1	1	0	0	0	0
-67.5°	1	1	1	1	1	0	0	0	0	0	0
-70°	1	1	1	1	0	0	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: G2-1802-569-47 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4036-12-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°	1	0	0	0	0	0	0
37.5°	1	0	0	0	0	0	0
35°	1	0	0	0	0	0	0
32.5°	1	0	0	0	0	0	0
30°	1	0	0	0	0	0	0
27.5°	1	0	0	0	0	0	0
25°	1	1	0	0	0	0	0
22.5°	1	1	0	0	0	0	0
20°	1	1	0	0	0	0	0
17.5°	1	1	0	0	0	0	0
15°	1	1	0	0	0	0	0
12.5°	1	1	0	0	0	0	0
10°	1	1	0	0	0	0	0
7.5°	1	1	0	0	0	0	0
5°	1	1	0	0	0	0	0
2.5°	1	1	0	0	0	0	0
0°	1	1	0	0	0	0	0
-2.5°	1	1	0	0	0	0	0
-5°	1	1	0	0	0	0	0
-7.5°	1	1	0	0	0	0	0
-10°	1	1	0	0	0	0	0
-12.5°	1	1	0	0	0	0	0
-15°	1	1	0	0	0	0	0
-17.5°	1	1	0	0	0	0	0
-20°	1	1	0	0	0	0	0



REPORT NUMBER: G2-1802-569-47 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 203-8LED4036-12-CS-OSL

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	1	1	0	0	0	0	0
-25°	1	1	0	0	0	0	0
-27.5°	1	0	0	0	0	0	0
-30°	1	0	0	0	0	0	0
-32.5°	1	0	0	0	0	0	0
-35°	1	0	0	0	0	0	0
-37.5°	1	0	0	0	0	0	0
-40°	1	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)