

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: G2-1802-569-32 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **203-8LED4036-12-BK-DIFF**

Test Date: 04/06/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-32 (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-BK-DIFF
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 36 DEGREE WIDE OPTIC,
REGRESSED HOOD BLACK, DIFFUSED LENS
Light Source: (1) SORAA 4000K 95 CRI LED
SM16-07-36D-940-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

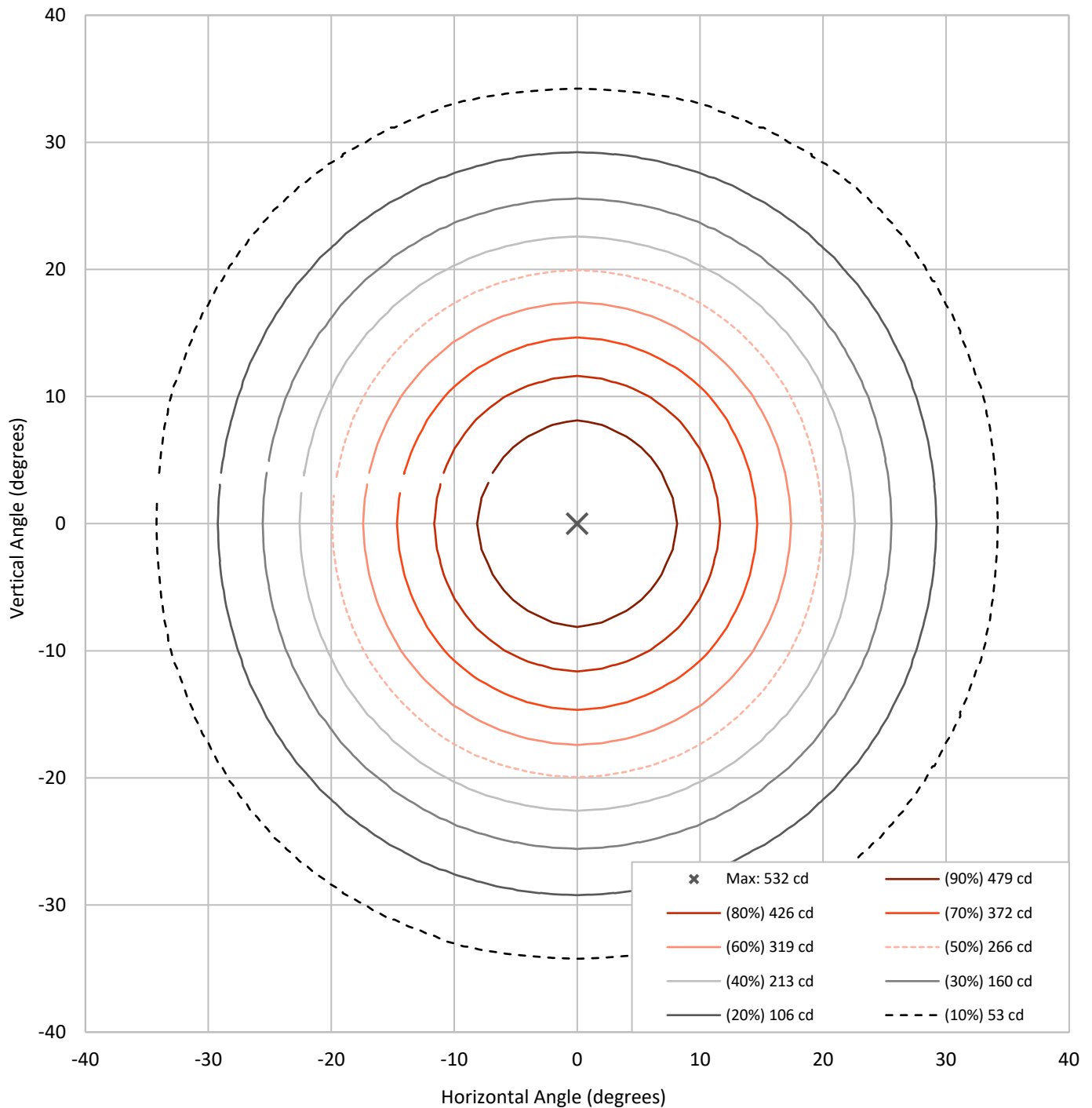
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	264 lumens	Max Intensity:	532 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	33.8 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	39.9°H x 39.9°V	Field Angle (10%):	68.4°H x 68.4°V
Beam Lumens:	149.5 lumens	Field Lumens:	242.2 lumens
Beam Efficiency:	56.6%	Field Efficiency:	91.7%
Input Watts (W):	7.8		
Input Voltage (V):	12.0		
Input Current (Ain):	0.682		
Voltage Rise (V):	NR		
Power Factor:	0.9908		
Total Harmonic Distortion (THDi):	27.3%		
Frequency (hertz):	60		
Stabilization Time:	0.5 HR		
Operation Time:	3 HR		
Ambient Temperature (°C):	24.9		
Test Distance:	25 FT		



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CATALOG NUMBER: 203-8LED4036-12-BK-DIFF

Iso-Candela Plot





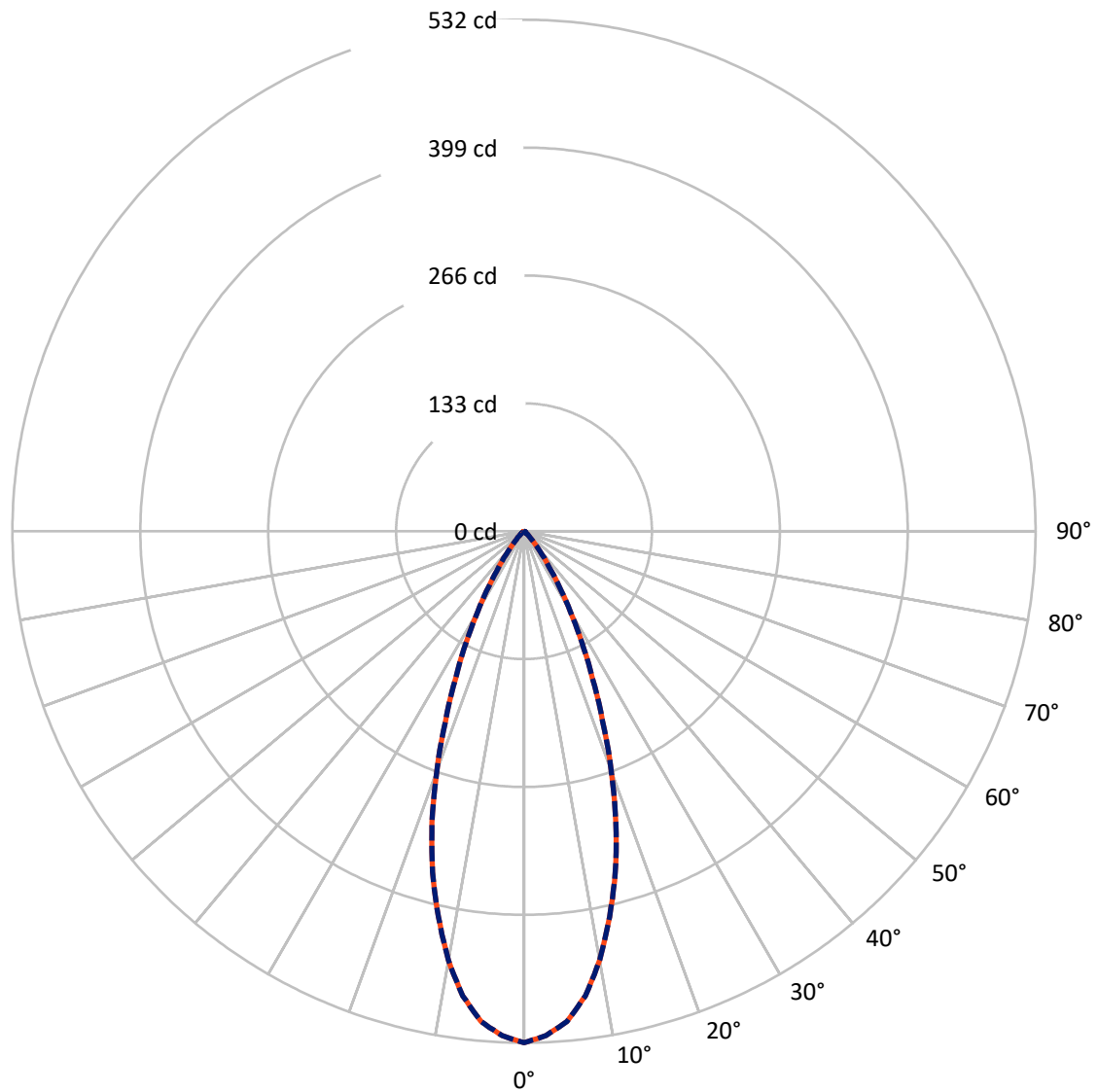
REPORT NUMBER: G2-1802-569-32 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4036-12-BK-DIFF

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	0.0	0.0
50	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40		0.0	0.0	0.0	0.1	0.4	1.0	1.5	1.5	1.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.1	0.4	1.4	3.3	4.9	4.9	3.3	1.4	0.4	0.1	0.0	0.0	0.0	0.0
20		0.0	0.0	0.1	0.8	3.1	7.1	10.4	10.4	7.1	3.1	0.8	0.1	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.2	1.2	4.5	10.1	14.5	14.5	10.1	4.5	1.2	0.2	0.0	0.0	0.0	0.0
0		0.0	0.0	0.2	1.2	4.5	10.1	14.5	14.5	10.1	4.5	1.2	0.2	0.0	0.0	0.0	0.0
-10	0.0	0.0	0.0	0.1	0.8	3.1	7.1	10.4	10.4	7.1	3.1	0.8	0.1	0.0	0.0	0.0	0.0
-20		0.0	0.0	0.1	0.4	1.4	3.3	4.9	4.9	3.3	1.4	0.4	0.1	0.0	0.0	0.0	0.0
-30	0.0	0.0	0.0	0.0	0.1	0.4	1.0	1.5	1.5	1.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0
-40		0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.2	0.1	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	0.0	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	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
-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
-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

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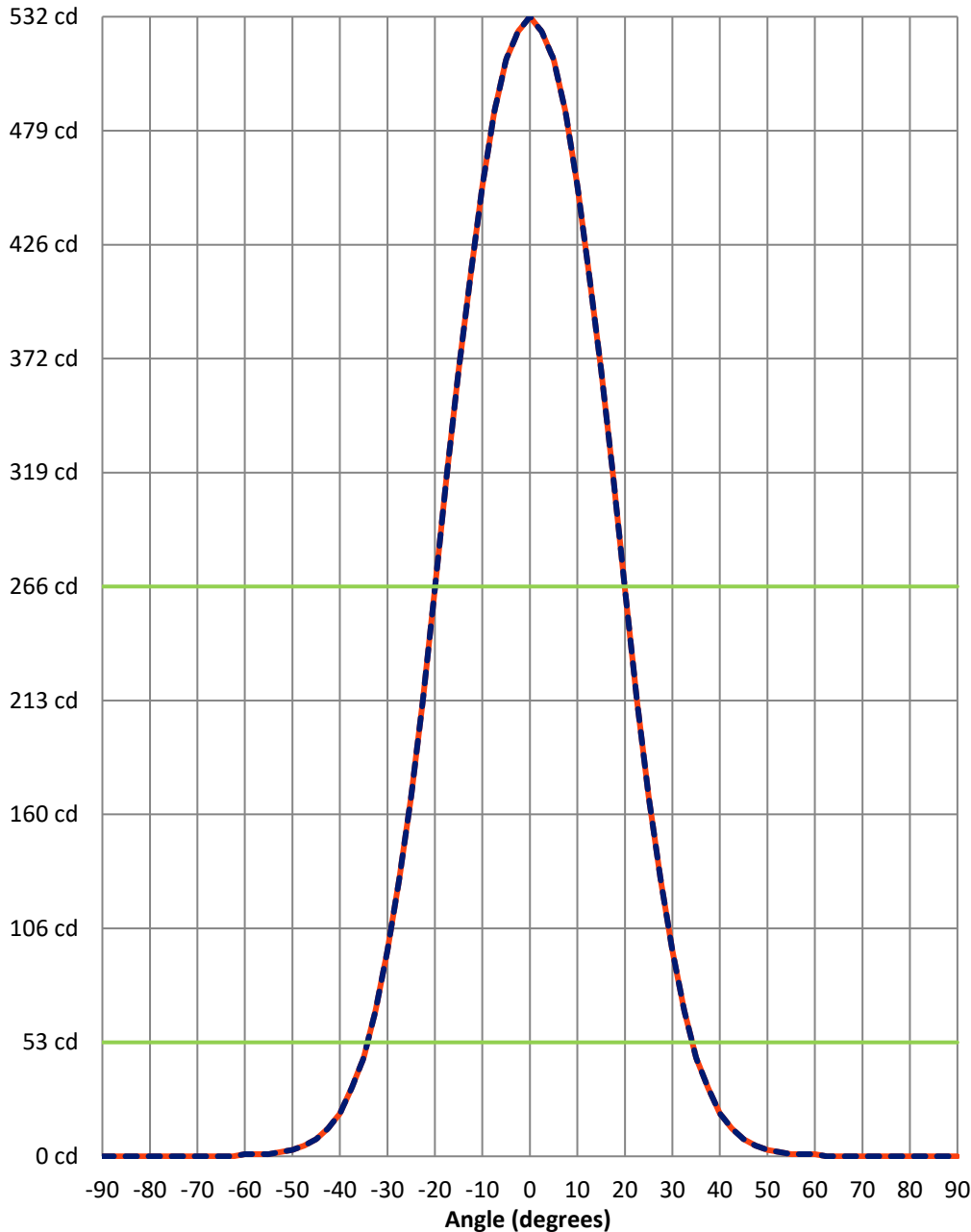
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 39.9°
 V Angle: 39.9°
 Lumens: 149.5
 Efficiency: 56.6%

Field:
 H Angle: 68.4°
 V Angle: 68.4°
 Lumens: 242.2
 Efficiency: 91.7%

Spill:
 Lumens: 21.8
 Efficiency: 8.3%

— 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: G2-1802-569-32 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4036-12-BK-DIFF

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: G2-1802-569-32 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4036-12-BK-DIFF

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	1
45°	0	0	0	0	0	0	0	1	1	1	1
42.5°	0	0	0	0	0	0	1	1	1	1	1
40°	0	0	0	0	0	1	1	1	1	1	2
37.5°	0	0	0	0	1	1	1	1	1	2	3
35°	0	0	0	0	1	1	1	1	2	3	3
32.5°	0	0	0	1	1	1	1	2	2	3	5
30°	0	0	0	1	1	1	1	2	3	4	6
27.5°	0	0	0	1	1	1	2	3	4	5	8
25°	0	0	1	1	1	1	2	3	5	7	10
22.5°	0	0	1	1	1	2	2	4	6	8	12
20°	0	0	1	1	1	2	3	4	7	10	15
17.5°	0	0	1	1	1	2	3	5	8	12	18
15°	0	1	1	1	1	2	4	6	9	14	20
12.5°	0	1	1	1	2	3	4	6	10	16	24
10°	0	1	1	1	2	3	4	7	11	17	27
7.5°	0	1	1	1	2	3	5	7	12	18	29
5°	0	1	1	1	2	3	5	8	13	19	31
2.5°	0	1	1	1	2	3	5	8	13	20	32
0°	0	1	1	1	2	3	5	8	13	20	32
-2.5°	0	1	1	1	2	3	5	8	13	20	32
-5°	0	1	1	1	2	3	5	8	13	19	31
-7.5°	0	1	1	1	2	3	5	7	12	18	29
-10°	0	1	1	1	2	3	4	7	11	17	27
-12.5°	0	1	1	1	2	3	4	6	10	16	24
-15°	0	1	1	1	1	2	4	6	9	14	20
-17.5°	0	0	1	1	1	2	3	5	8	12	18
-20°	0	0	1	1	1	2	3	4	7	10	15



REPORT NUMBER: G2-1802-569-32 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4036-12-BK-DIFF

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	1	1	2	2	4	6	8	12
-25°	0	0	1	1	1	1	2	3	5	7	10
-27.5°	0	0	0	1	1	1	2	3	4	5	8
-30°	0	0	0	1	1	1	1	2	3	4	6
-32.5°	0	0	0	1	1	1	1	2	2	3	5
-35°	0	0	0	0	1	1	1	1	2	3	3
-37.5°	0	0	0	0	1	1	1	1	1	2	3
-40°	0	0	0	0	0	1	1	1	1	1	2
-42.5°	0	0	0	0	0	0	1	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	0	1	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	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: G2-1802-569-32 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4036-12-BK-DIFF

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	1	1	1
55°	0	1	1	1	1	1	1	1	1	1	1
52.5°	1	1	1	1	1	1	1	1	1	2	2
50°	1	1	1	1	1	2	2	2	2	3	3
47.5°	1	1	1	2	2	2	3	3	4	4	4
45°	1	2	2	3	3	4	4	5	6	6	7
42.5°	2	2	3	4	5	6	7	8	9	10	11
40°	3	3	4	5	7	8	10	12	14	16	17
37.5°	3	5	6	8	10	12	15	18	20	24	27
35°	5	6	8	11	14	18	22	27	31	35	39
32.5°	6	9	12	16	20	26	32	38	43	50	56
30°	8	12	16	21	28	36	43	52	62	71	79
27.5°	11	16	21	29	38	46	59	71	84	96	106
25°	14	20	28	38	48	62	78	94	109	125	140
22.5°	18	26	36	46	62	80	99	119	139	158	177
20°	22	32	43	59	78	99	122	146	171	196	218
17.5°	27	38	52	71	94	119	146	176	206	235	263
15°	31	43	62	84	109	139	171	206	241	277	309
12.5°	35	50	71	96	125	158	196	235	277	316	349
10°	39	56	79	106	140	177	218	263	309	349	383
7.5°	42	61	87	116	151	192	237	287	333	375	411
5°	44	65	92	123	160	204	252	304	352	394	433
2.5°	46	67	95	128	166	211	262	315	363	407	448
0°	46	68	96	130	168	214	265	318	367	411	453
-2.5°	46	67	95	128	166	211	262	315	363	407	448
-5°	44	65	92	123	160	204	252	304	352	394	433
-7.5°	42	61	87	116	151	192	237	287	333	375	411
-10°	39	56	79	106	140	177	218	263	309	349	383
-12.5°	35	50	71	96	125	158	196	235	277	316	349
-15°	31	43	62	84	109	139	171	206	241	277	309
-17.5°	27	38	52	71	94	119	146	176	206	235	263
-20°	22	32	43	59	78	99	122	146	171	196	218



REPORT NUMBER: G2-1802-569-32 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4036-12-BK-DIFF

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	18	26	36	46	62	80	99	119	139	158	177
-25°	14	20	28	38	48	62	78	94	109	125	140
-27.5°	11	16	21	29	38	46	59	71	84	96	106
-30°	8	12	16	21	28	36	43	52	62	71	79
-32.5°	6	9	12	16	20	26	32	38	43	50	56
-35°	5	6	8	11	14	18	22	27	31	35	39
-37.5°	3	5	6	8	10	12	15	18	20	24	27
-40°	3	3	4	5	7	8	10	12	14	16	17
-42.5°	2	2	3	4	5	6	7	8	9	10	11
-45°	1	2	2	3	3	4	4	5	6	6	7
-47.5°	1	1	1	2	2	2	3	3	4	4	4
-50°	1	1	1	1	1	2	2	2	2	3	3
-52.5°	1	1	1	1	1	1	1	1	1	2	2
-55°	0	1	1	1	1	1	1	1	1	1	1
-57.5°	0	0	0	0	1	1	1	1	1	1	1
-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: G2-1802-569-32 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4036-12-BK-DIFF

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°	1	1	1	1	1	1	1	1	1	1	1
55°	1	1	1	1	1	1	1	1	1	1	1
52.5°	2	2	2	2	2	2	2	2	2	1	1
50°	3	3	3	3	3	3	3	3	3	2	2
47.5°	5	5	5	5	5	5	5	4	4	4	3
45°	7	8	8	8	8	8	7	7	6	6	5
42.5°	12	13	13	13	13	13	12	11	10	9	8
40°	18	19	20	20	20	19	18	17	16	14	12
37.5°	29	31	32	32	32	31	29	27	24	20	18
35°	42	44	46	46	46	44	42	39	35	31	27
32.5°	61	65	67	68	67	65	61	56	50	43	38
30°	87	92	95	96	95	92	87	79	71	62	52
27.5°	116	123	128	130	128	123	116	106	96	84	71
25°	151	160	166	168	166	160	151	140	125	109	94
22.5°	192	204	211	214	211	204	192	177	158	139	119
20°	237	252	262	265	262	252	237	218	196	171	146
17.5°	287	304	315	318	315	304	287	263	235	206	176
15°	333	352	363	367	363	352	333	309	277	241	206
12.5°	375	394	407	411	407	394	375	349	316	277	235
10°	411	433	448	453	448	433	411	383	349	309	263
7.5°	443	467	482	488	482	467	443	411	375	333	287
5°	467	493	507	512	507	493	467	433	394	352	304
2.5°	482	507	520	525	520	507	482	448	407	363	315
0°	488	512	525	532	525	512	488	453	411	367	318
-2.5°	482	507	520	525	520	507	482	448	407	363	315
-5°	467	493	507	512	507	493	467	433	394	352	304
-7.5°	443	467	482	488	482	467	443	411	375	333	287
-10°	411	433	448	453	448	433	411	383	349	309	263
-12.5°	375	394	407	411	407	394	375	349	316	277	235
-15°	333	352	363	367	363	352	333	309	277	241	206
-17.5°	287	304	315	318	315	304	287	263	235	206	176
-20°	237	252	262	265	262	252	237	218	196	171	146



REPORT NUMBER: G2-1802-569-32 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4036-12-BK-DIFF

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	192	204	211	214	211	204	192	177	158	139	119
-25°	151	160	166	168	166	160	151	140	125	109	94
-27.5°	116	123	128	130	128	123	116	106	96	84	71
-30°	87	92	95	96	95	92	87	79	71	62	52
-32.5°	61	65	67	68	67	65	61	56	50	43	38
-35°	42	44	46	46	46	44	42	39	35	31	27
-37.5°	29	31	32	32	32	31	29	27	24	20	18
-40°	18	19	20	20	20	19	18	17	16	14	12
-42.5°	12	13	13	13	13	13	12	11	10	9	8
-45°	7	8	8	8	8	8	7	7	6	6	5
-47.5°	5	5	5	5	5	5	5	4	4	4	3
-50°	3	3	3	3	3	3	3	3	3	2	2
-52.5°	2	2	2	2	2	2	2	2	2	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	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: G2-1802-569-32 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4036-12-BK-DIFF

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°	1	1	1	1	1	1	0	0	0	0	0
52.5°	1	1	1	1	1	1	1	1	0	0	0
50°	2	2	1	1	1	1	1	1	1	0	0
47.5°	3	2	2	2	1	1	1	1	1	1	0
45°	4	4	3	3	2	2	1	1	1	1	1
42.5°	7	6	5	4	3	2	2	1	1	1	1
40°	10	8	7	5	4	3	3	2	1	1	1
37.5°	15	12	10	8	6	5	3	3	2	1	1
35°	22	18	14	11	8	6	5	3	3	2	1
32.5°	32	26	20	16	12	9	6	5	3	2	2
30°	43	36	28	21	16	12	8	6	4	3	2
27.5°	59	46	38	29	21	16	11	8	5	4	3
25°	78	62	48	38	28	20	14	10	7	5	3
22.5°	99	80	62	46	36	26	18	12	8	6	4
20°	122	99	78	59	43	32	22	15	10	7	4
17.5°	146	119	94	71	52	38	27	18	12	8	5
15°	171	139	109	84	62	43	31	20	14	9	6
12.5°	196	158	125	96	71	50	35	24	16	10	6
10°	218	177	140	106	79	56	39	27	17	11	7
7.5°	237	192	151	116	87	61	42	29	18	12	7
5°	252	204	160	123	92	65	44	31	19	13	8
2.5°	262	211	166	128	95	67	46	32	20	13	8
0°	265	214	168	130	96	68	46	32	20	13	8
-2.5°	262	211	166	128	95	67	46	32	20	13	8
-5°	252	204	160	123	92	65	44	31	19	13	8
-7.5°	237	192	151	116	87	61	42	29	18	12	7
-10°	218	177	140	106	79	56	39	27	17	11	7
-12.5°	196	158	125	96	71	50	35	24	16	10	6
-15°	171	139	109	84	62	43	31	20	14	9	6
-17.5°	146	119	94	71	52	38	27	18	12	8	5
-20°	122	99	78	59	43	32	22	15	10	7	4



REPORT NUMBER: G2-1802-569-32 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4036-12-BK-DIFF

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	99	80	62	46	36	26	18	12	8	6	4
-25°	78	62	48	38	28	20	14	10	7	5	3
-27.5°	59	46	38	29	21	16	11	8	5	4	3
-30°	43	36	28	21	16	12	8	6	4	3	2
-32.5°	32	26	20	16	12	9	6	5	3	2	2
-35°	22	18	14	11	8	6	5	3	3	2	1
-37.5°	15	12	10	8	6	5	3	3	2	1	1
-40°	10	8	7	5	4	3	3	2	1	1	1
-42.5°	7	6	5	4	3	2	2	1	1	1	1
-45°	4	4	3	3	2	2	1	1	1	1	1
-47.5°	3	2	2	2	1	1	1	1	1	1	0
-50°	2	2	1	1	1	1	1	1	1	0	0
-52.5°	1	1	1	1	1	1	1	1	0	0	0
-55°	1	1	1	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: G2-1802-569-32 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4036-12-BK-DIFF

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°	1	1	1	0	0	0	0	0	0	0	0
35°	1	1	1	0	0	0	0	0	0	0	0
32.5°	1	1	1	1	0	0	0	0	0	0	0
30°	1	1	1	1	0	0	0	0	0	0	0
27.5°	2	1	1	1	0	0	0	0	0	0	0
25°	2	1	1	1	1	0	0	0	0	0	0
22.5°	2	2	1	1	1	0	0	0	0	0	0
20°	3	2	1	1	1	0	0	0	0	0	0
17.5°	3	2	1	1	1	0	0	0	0	0	0
15°	4	2	1	1	1	1	0	0	0	0	0
12.5°	4	3	2	1	1	1	0	0	0	0	0
10°	4	3	2	1	1	1	0	0	0	0	0
7.5°	5	3	2	1	1	1	0	0	0	0	0
5°	5	3	2	1	1	1	0	0	0	0	0
2.5°	5	3	2	1	1	1	0	0	0	0	0
0°	5	3	2	1	1	1	0	0	0	0	0
-2.5°	5	3	2	1	1	1	0	0	0	0	0
-5°	5	3	2	1	1	1	0	0	0	0	0
-7.5°	5	3	2	1	1	1	0	0	0	0	0
-10°	4	3	2	1	1	1	0	0	0	0	0
-12.5°	4	3	2	1	1	1	0	0	0	0	0
-15°	4	2	1	1	1	1	0	0	0	0	0
-17.5°	3	2	1	1	1	0	0	0	0	0	0
-20°	3	2	1	1	1	0	0	0	0	0	0



REPORT NUMBER: G2-1802-569-32 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4036-12-BK-DIFF

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2	2	1	1	1	0	0	0	0	0	0
-25°	2	1	1	1	1	0	0	0	0	0	0
-27.5°	2	1	1	1	0	0	0	0	0	0	0
-30°	1	1	1	1	0	0	0	0	0	0	0
-32.5°	1	1	1	1	0	0	0	0	0	0	0
-35°	1	1	1	0	0	0	0	0	0	0	0
-37.5°	1	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: G2-1802-569-32 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4036-12-BK-DIFF

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: G2-1802-569-32 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED4036-12-BK-DIFF

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)