

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: P246984 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **203-8LED3036-12-BK-DIFF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P246984 (CONVERTED FROM TYPE C PHOTOMETRY)
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-32)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 203-8LED3036-12-BK-DIFF
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 3000K CCT, 36 DEGREE WIDE OPTIC,
REGRESSED HOOD BLACK, DIFFUSED LENS
Light Source: (1) SORAA 3000K 95 CRI LED
SM16-07-36D-930-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

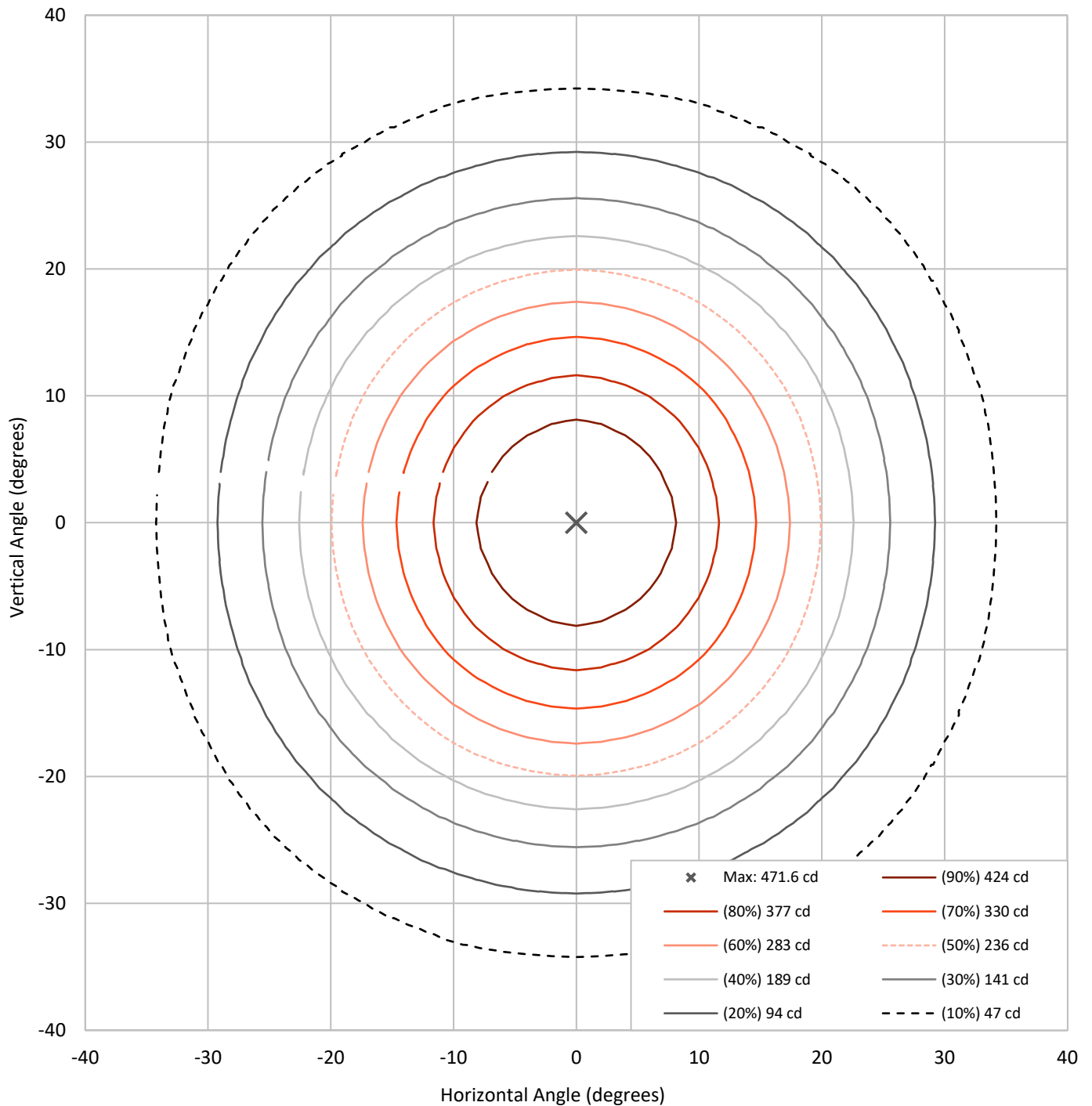
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	234.1 lumens	Max Intensity:	471.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	30.0 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:	132.6 lumens	Field Lumens:	214.7 lumens
Beam Efficiency:	56.6%	Field Efficiency:	91.7%
Input Watts (W):	7.8		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		



REPORT NUMBER: P246984 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 203-8LED3036-12-BK-DIFF

Iso-Candela Plot





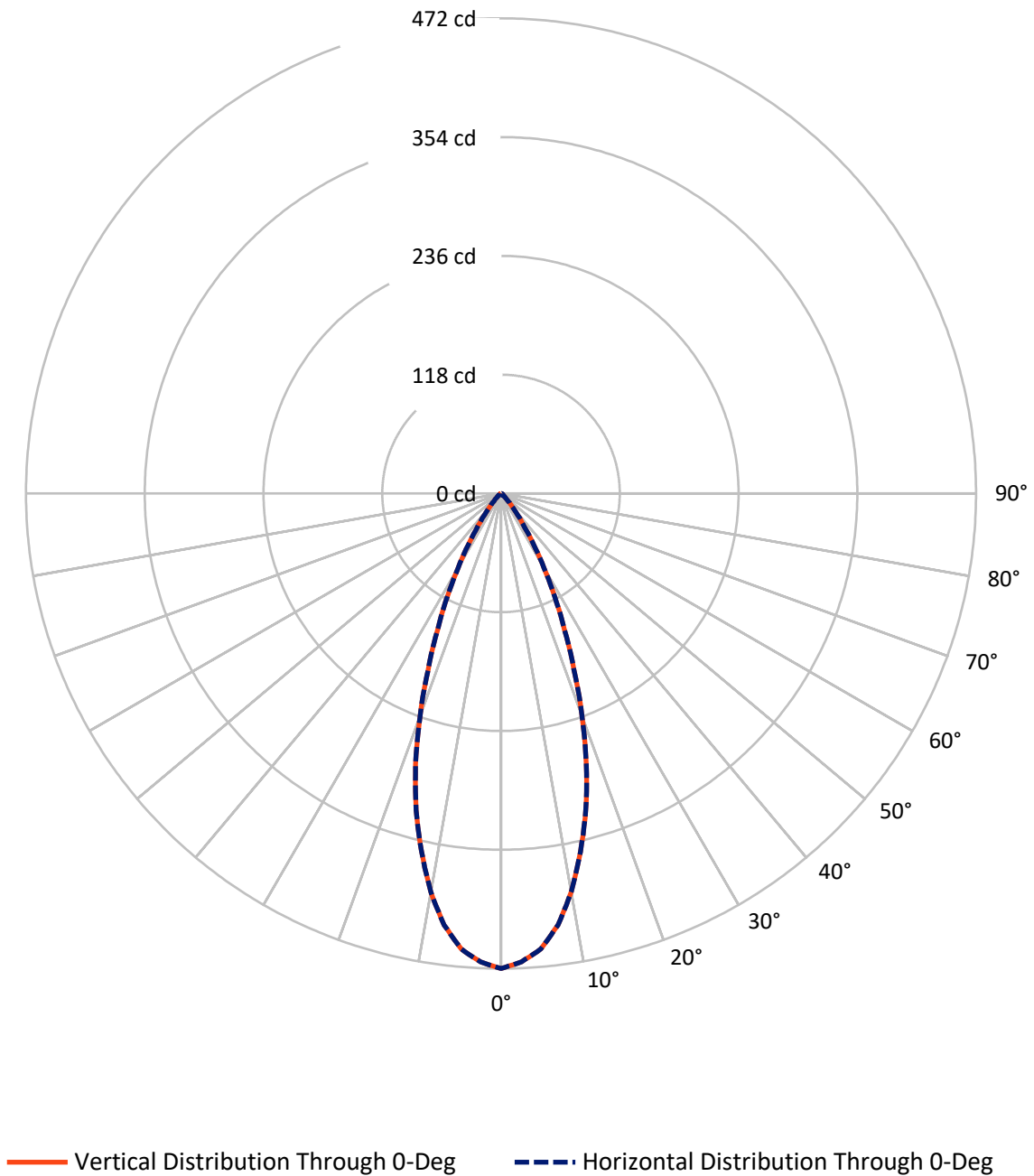
REPORT NUMBER: P246984 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3036-12-BK-DIFF

Lumen Table

90																			
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																			
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				
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					
40	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.0				
30		0.0	0.0	0.0	0.1	0.4	0.9	1.3	1.3	0.9	0.4	0.1	0.0	0.0					
20	0.0	0.0	0.0	0.1	0.4	1.3	2.9	4.4	4.4	2.9	1.3	0.4	0.1	0.0	0.0				
10		0.0	0.0	0.1	0.7	2.8	6.3	9.2	9.2	6.3	2.8	0.7	0.1	0.0		0.0			
0	0.0	0.0	0.0	0.2	1.1	4.0	9.0	12.8	12.8	9.0	4.0	1.1	0.2	0.0	0.0				
-10		0.0	0.0	0.2	1.1	4.0	9.0	12.8	12.8	9.0	4.0	1.1	0.2	0.0		0.0			
-20	0.0	0.0	0.0	0.1	0.7	2.8	6.3	9.2	9.2	6.3	2.8	0.7	0.1	0.0	0.0				
-30		0.0	0.0	0.1	0.4	1.3	2.9	4.4	4.4	2.9	1.3	0.4	0.1	0.0		0.0			
-40	0.0	0.0	0.0	0.0	0.1	0.4	0.9	1.3	1.3	0.9	0.4	0.1	0.0	0.0	0.0				
-50		0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.1	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				
-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			
-80																			
-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				
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

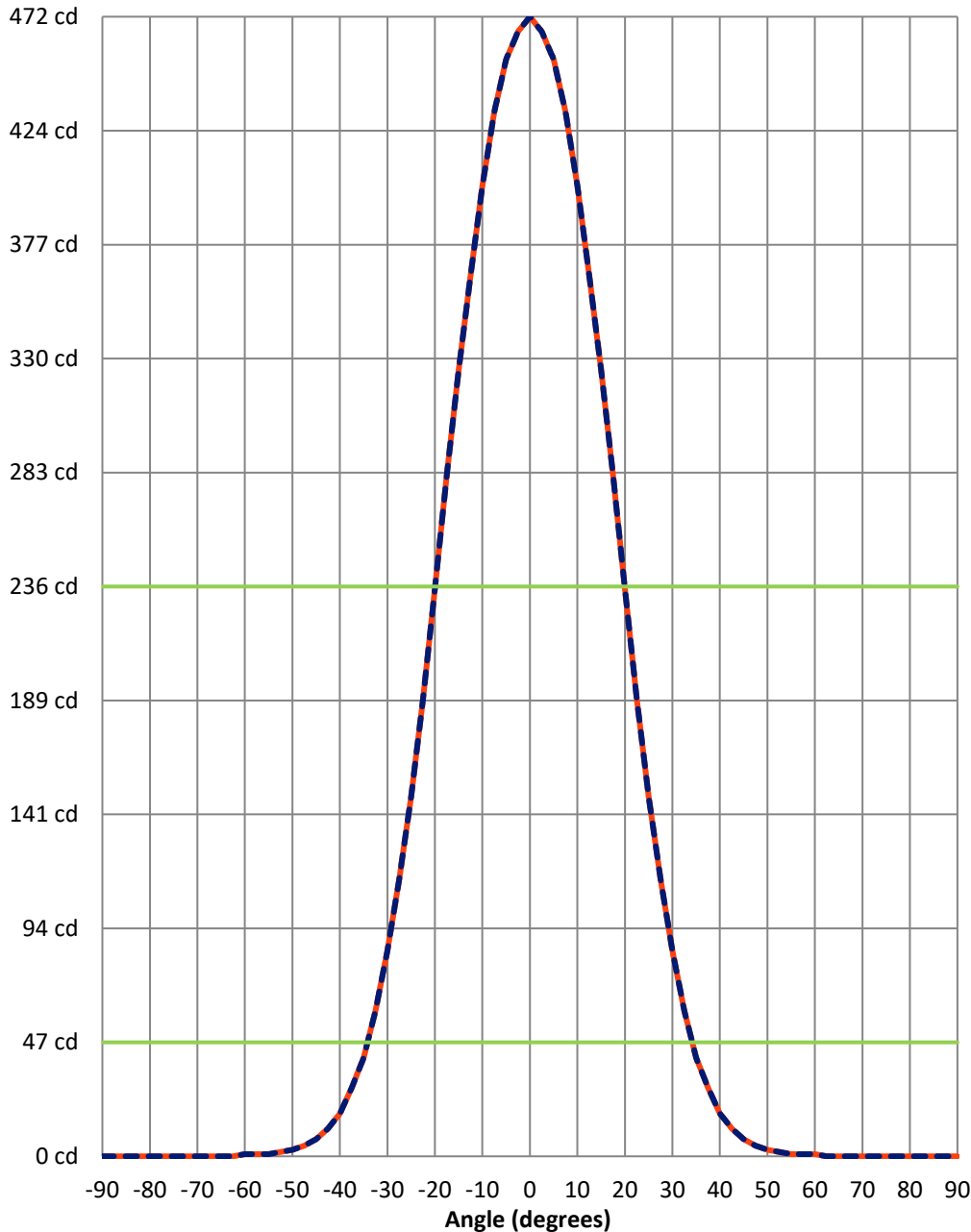
REPORT NUMBER: P246984 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 203-8LED3036-12-BK-DIFF

Luminous Intensity Polar Plot



REPORT NUMBER: P246984 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 203-8LED3036-12-BK-DIFF

Luminous Intensity Plot



Beam:
H Angle: 39.9°
V Angle: 39.9°
Lumens: 132.6
Efficiency: 56.6%

Field:
H Angle: 68.4°
V Angle: 68.4°
Lumens: 214.7
Efficiency: 91.7%

Spill:
Lumens: 19.4
Efficiency: 8.3%

— Vertical Distribution through 0-Deg
- - Horizontal Distribution through 0-Deg



REPORT NUMBER: P246984 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3036-12-BK-DIFF

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: P246984 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 203-8LED3036-12-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: P246984 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3036-12-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	0
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	0	1	1	1	1	2	2
35°	0	0	0	0	1	1	1	1	2	2	3
32.5°	0	0	0	1	1	1	1	1	2	3	4
30°	0	0	0	1	1	1	1	2	3	4	5
27.5°	0	0	0	1	1	1	2	2	3	5	7
25°	0	0	1	1	1	1	2	3	4	6	9
22.5°	0	0	1	1	1	1	2	3	5	7	11
20°	0	0	1	1	1	2	2	4	6	9	13
17.5°	0	0	1	1	1	2	3	4	7	11	16
15°	0	0	1	1	1	2	3	5	8	12	18
12.5°	0	1	1	1	1	2	4	6	9	14	21
10°	0	1	1	1	2	2	4	6	10	15	24
7.5°	0	1	1	1	2	3	4	7	11	16	26
5°	0	1	1	1	2	3	4	7	11	17	27
2.5°	0	1	1	1	2	3	4	7	11	18	28
0°	0	1	1	1	2	3	4	7	12	18	28
-2.5°	0	1	1	1	2	3	4	7	11	18	28
-5°	0	1	1	1	2	3	4	7	11	17	27
-7.5°	0	1	1	1	2	3	4	7	11	16	26
-10°	0	1	1	1	2	2	4	6	10	15	24
-12.5°	0	1	1	1	1	2	4	6	9	14	21
-15°	0	0	1	1	1	2	3	5	8	12	18
-17.5°	0	0	1	1	1	2	3	4	7	11	16
-20°	0	0	1	1	1	2	2	4	6	9	13



REPORT NUMBER: P246984 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3036-12-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	1	2	3	5	7	11
-25°	0	0	1	1	1	1	2	3	4	6	9
-27.5°	0	0	0	1	1	1	2	2	3	5	7
-30°	0	0	0	1	1	1	1	2	3	4	5
-32.5°	0	0	0	1	1	1	1	1	2	3	4
-35°	0	0	0	0	1	1	1	1	2	2	3
-37.5°	0	0	0	0	0	1	1	1	1	2	2
-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	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: P246984 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3036-12-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	0	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	1	2
50°	1	1	1	1	1	1	2	2	2	2	2
47.5°	1	1	1	2	2	2	2	3	3	4	4
45°	1	1	2	2	3	3	4	4	5	6	6
42.5°	2	2	3	3	4	5	6	7	8	9	10
40°	2	3	4	5	6	7	9	11	12	14	15
37.5°	3	4	5	7	9	11	13	16	18	21	24
35°	4	6	7	10	13	16	19	24	28	31	35
32.5°	6	8	10	14	17	23	28	34	39	44	50
30°	7	10	14	19	25	32	38	46	55	63	70
27.5°	10	14	19	26	33	41	52	63	75	85	94
25°	13	17	25	33	43	55	69	83	97	111	124
22.5°	16	23	32	41	55	71	88	105	124	140	157
20°	19	28	38	52	69	88	108	130	152	174	193
17.5°	24	34	46	63	83	105	130	156	183	208	233
15°	28	39	55	75	97	124	152	183	214	246	274
12.5°	31	44	63	85	111	140	174	208	246	280	309
10°	35	50	70	94	124	157	193	233	274	309	340
7.5°	37	54	77	103	134	170	210	255	296	333	365
5°	39	58	81	109	142	180	223	270	312	350	384
2.5°	40	60	84	113	147	187	232	279	322	360	397
0°	41	60	85	115	149	189	235	282	325	364	402
-2.5°	40	60	84	113	147	187	232	279	322	360	397
-5°	39	58	81	109	142	180	223	270	312	350	384
-7.5°	37	54	77	103	134	170	210	255	296	333	365
-10°	35	50	70	94	124	157	193	233	274	309	340
-12.5°	31	44	63	85	111	140	174	208	246	280	309
-15°	28	39	55	75	97	124	152	183	214	246	274
-17.5°	24	34	46	63	83	105	130	156	183	208	233
-20°	19	28	38	52	69	88	108	130	152	174	193



REPORT NUMBER: P246984 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3036-12-BK-DIFF

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	16	23	32	41	55	71	88	105	124	140	157
-25°	13	17	25	33	43	55	69	83	97	111	124
-27.5°	10	14	19	26	33	41	52	63	75	85	94
-30°	7	10	14	19	25	32	38	46	55	63	70
-32.5°	6	8	10	14	17	23	28	34	39	44	50
-35°	4	6	7	10	13	16	19	24	28	31	35
-37.5°	3	4	5	7	9	11	13	16	18	21	24
-40°	2	3	4	5	6	7	9	11	12	14	15
-42.5°	2	2	3	3	4	5	6	7	8	9	10
-45°	1	1	2	2	3	3	4	4	5	6	6
-47.5°	1	1	1	2	2	2	2	3	3	4	4
-50°	1	1	1	1	1	1	2	2	2	2	2
-52.5°	1	1	1	1	1	1	1	1	1	1	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	0	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: P246984 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3036-12-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	0	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	1	1	1
50°	3	3	3	3	3	3	3	2	2	2	2
47.5°	4	4	4	4	4	4	4	4	4	3	3
45°	7	7	7	7	7	7	7	6	6	5	4
42.5°	11	11	11	12	11	11	11	10	9	8	7
40°	16	17	18	18	18	17	16	15	14	12	11
37.5°	26	27	28	28	28	27	26	24	21	18	16
35°	37	39	40	41	40	39	37	35	31	28	24
32.5°	54	58	60	60	60	58	54	50	44	39	34
30°	77	81	84	85	84	81	77	70	63	55	46
27.5°	103	109	113	115	113	109	103	94	85	75	63
25°	134	142	147	149	147	142	134	124	111	97	83
22.5°	170	180	187	189	187	180	170	157	140	124	105
20°	210	223	232	235	232	223	210	193	174	152	130
17.5°	255	270	279	282	279	270	255	233	208	183	156
15°	296	312	322	325	322	312	296	274	246	214	183
12.5°	333	350	360	364	360	350	333	309	280	246	208
10°	365	384	397	402	397	384	365	340	309	274	233
7.5°	393	414	428	432	428	414	393	365	333	296	255
5°	414	437	450	454	450	437	414	384	350	312	270
2.5°	428	450	461	465	461	450	428	397	360	322	279
0°	432	454	465	472	465	454	432	402	364	325	282
-2.5°	428	450	461	465	461	450	428	397	360	322	279
-5°	414	437	450	454	450	437	414	384	350	312	270
-7.5°	393	414	428	432	428	414	393	365	333	296	255
-10°	365	384	397	402	397	384	365	340	309	274	233
-12.5°	333	350	360	364	360	350	333	309	280	246	208
-15°	296	312	322	325	322	312	296	274	246	214	183
-17.5°	255	270	279	282	279	270	255	233	208	183	156
-20°	210	223	232	235	232	223	210	193	174	152	130



REPORT NUMBER: P246984 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3036-12-BK-DIFF

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	170	180	187	189	187	180	170	157	140	124	105
-25°	134	142	147	149	147	142	134	124	111	97	83
-27.5°	103	109	113	115	113	109	103	94	85	75	63
-30°	77	81	84	85	84	81	77	70	63	55	46
-32.5°	54	58	60	60	60	58	54	50	44	39	34
-35°	37	39	40	41	40	39	37	35	31	28	24
-37.5°	26	27	28	28	28	27	26	24	21	18	16
-40°	16	17	18	18	18	17	16	15	14	12	11
-42.5°	11	11	11	12	11	11	11	10	9	8	7
-45°	7	7	7	7	7	7	7	6	6	5	4
-47.5°	4	4	4	4	4	4	4	4	4	3	3
-50°	3	3	3	3	3	3	3	2	2	2	2
-52.5°	2	2	2	2	2	2	2	2	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	1
-60°	1	1	1	1	1	1	1	1	1	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: P246984 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3036-12-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	0	0	0	0
50°	2	1	1	1	1	1	1	1	1	0	0
47.5°	2	2	2	2	1	1	1	1	1	1	0
45°	4	3	3	2	2	1	1	1	1	1	1
42.5°	6	5	4	3	3	2	2	1	1	1	1
40°	9	7	6	5	4	3	2	2	1	1	1
37.5°	13	11	9	7	5	4	3	2	2	1	1
35°	19	16	13	10	7	6	4	3	2	2	1
32.5°	28	23	17	14	10	8	6	4	3	2	1
30°	38	32	25	19	14	10	7	5	4	3	2
27.5°	52	41	33	26	19	14	10	7	5	3	2
25°	69	55	43	33	25	17	13	9	6	4	3
22.5°	88	71	55	41	32	23	16	11	7	5	3
20°	108	88	69	52	38	28	19	13	9	6	4
17.5°	130	105	83	63	46	34	24	16	11	7	4
15°	152	124	97	75	55	39	28	18	12	8	5
12.5°	174	140	111	85	63	44	31	21	14	9	6
10°	193	157	124	94	70	50	35	24	15	10	6
7.5°	210	170	134	103	77	54	37	26	16	11	7
5°	223	180	142	109	81	58	39	27	17	11	7
2.5°	232	187	147	113	84	60	40	28	18	11	7
0°	235	189	149	115	85	60	41	28	18	12	7
-2.5°	232	187	147	113	84	60	40	28	18	11	7
-5°	223	180	142	109	81	58	39	27	17	11	7
-7.5°	210	170	134	103	77	54	37	26	16	11	7
-10°	193	157	124	94	70	50	35	24	15	10	6
-12.5°	174	140	111	85	63	44	31	21	14	9	6
-15°	152	124	97	75	55	39	28	18	12	8	5
-17.5°	130	105	83	63	46	34	24	16	11	7	4
-20°	108	88	69	52	38	28	19	13	9	6	4



REPORT NUMBER: P246984 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3036-12-BK-DIFF

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	88	71	55	41	32	23	16	11	7	5	3
-25°	69	55	43	33	25	17	13	9	6	4	3
-27.5°	52	41	33	26	19	14	10	7	5	3	2
-30°	38	32	25	19	14	10	7	5	4	3	2
-32.5°	28	23	17	14	10	8	6	4	3	2	1
-35°	19	16	13	10	7	6	4	3	2	2	1
-37.5°	13	11	9	7	5	4	3	2	2	1	1
-40°	9	7	6	5	4	3	2	2	1	1	1
-42.5°	6	5	4	3	3	2	2	1	1	1	1
-45°	4	3	3	2	2	1	1	1	1	1	1
-47.5°	2	2	2	2	1	1	1	1	1	1	0
-50°	2	1	1	1	1	1	1	1	1	0	0
-52.5°	1	1	1	1	1	1	1	0	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: P246984 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3036-12-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	0	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	1	1	1	1	0	0	0	0	0	0
20°	2	2	1	1	1	0	0	0	0	0	0
17.5°	3	2	1	1	1	0	0	0	0	0	0
15°	3	2	1	1	1	0	0	0	0	0	0
12.5°	4	2	1	1	1	1	0	0	0	0	0
10°	4	2	2	1	1	1	0	0	0	0	0
7.5°	4	3	2	1	1	1	0	0	0	0	0
5°	4	3	2	1	1	1	0	0	0	0	0
2.5°	4	3	2	1	1	1	0	0	0	0	0
0°	4	3	2	1	1	1	0	0	0	0	0
-2.5°	4	3	2	1	1	1	0	0	0	0	0
-5°	4	3	2	1	1	1	0	0	0	0	0
-7.5°	4	3	2	1	1	1	0	0	0	0	0
-10°	4	2	2	1	1	1	0	0	0	0	0
-12.5°	4	2	1	1	1	1	0	0	0	0	0
-15°	3	2	1	1	1	0	0	0	0	0	0
-17.5°	3	2	1	1	1	0	0	0	0	0	0
-20°	2	2	1	1	1	0	0	0	0	0	0



REPORT NUMBER: P246984 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3036-12-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	1	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	0	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: P246984 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 203-8LED3036-12-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: P246984 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 203-8LED3036-12-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)