

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: P10059

Luminaire Tested: **1235-RD-x-LED**

Issue Date: 05/12/06

Test Information

Test Method: LM-79-08
Report Number: P10059
Test Lab: PEACHTREE CITY
Issue Date: 05/12/06
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 1235-RD-x-LED
Description: LUMIERE 5 INCH LED STEP LIGHT
WITH CLEAR OPEN FACEPLATE, SAND BLASTED LENS, WITH OUT REFLECTOR
Light Source: IN TRIANGULAR CONFIGURATION
3 SMT LED CIRCUIT BOARD
Ballast/Driver: -

Summary

Lumens per Lamp: 75 (1 lamp)
Luminaire Lumens: 28.8 lumens
Efficiency: 38.4%
Efficacy: 5.8 lumens/watt
Luminous Opening: Circular (Dia: 0.33' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B0 - U1 - G0

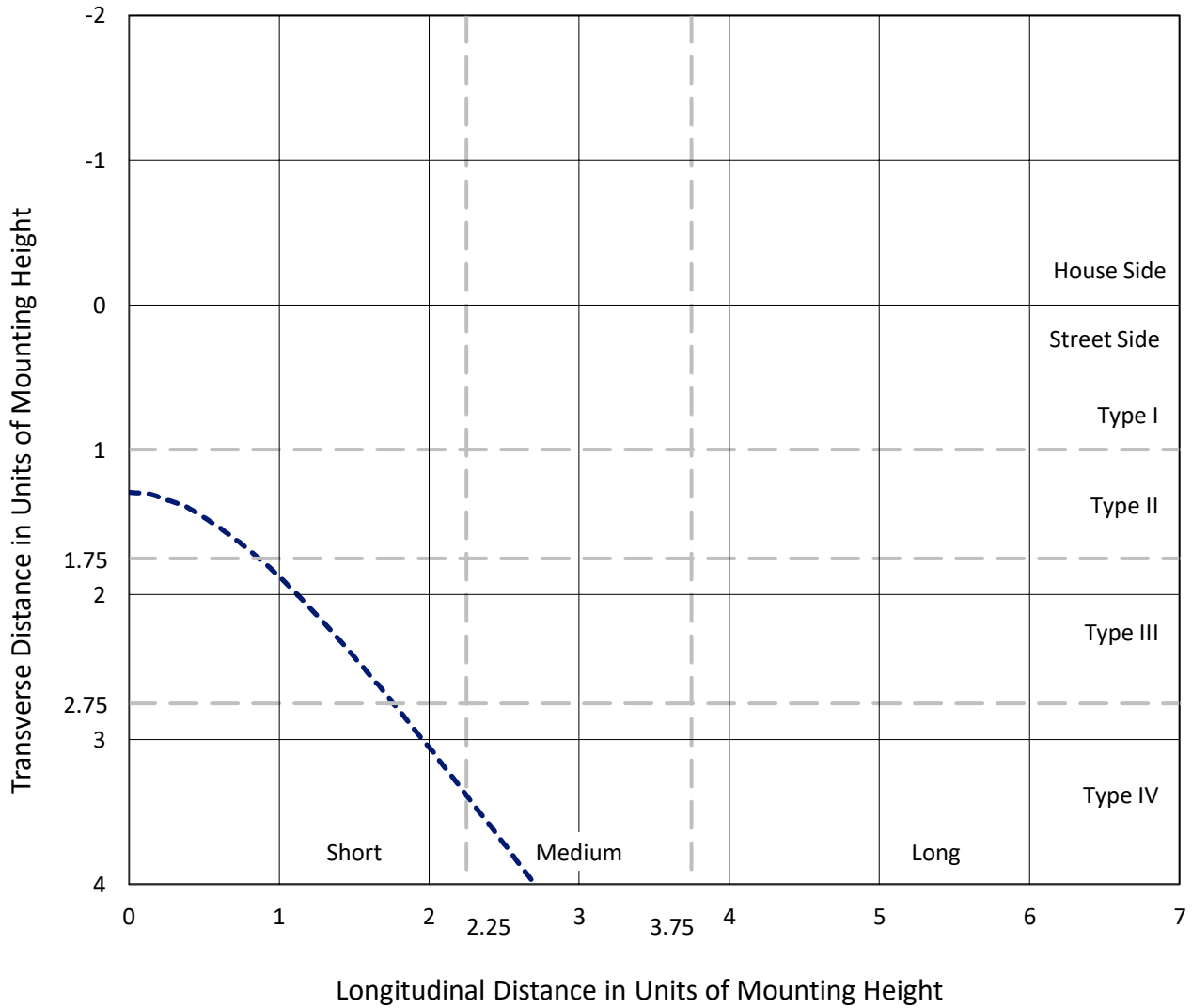
Input Watts (W): 5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

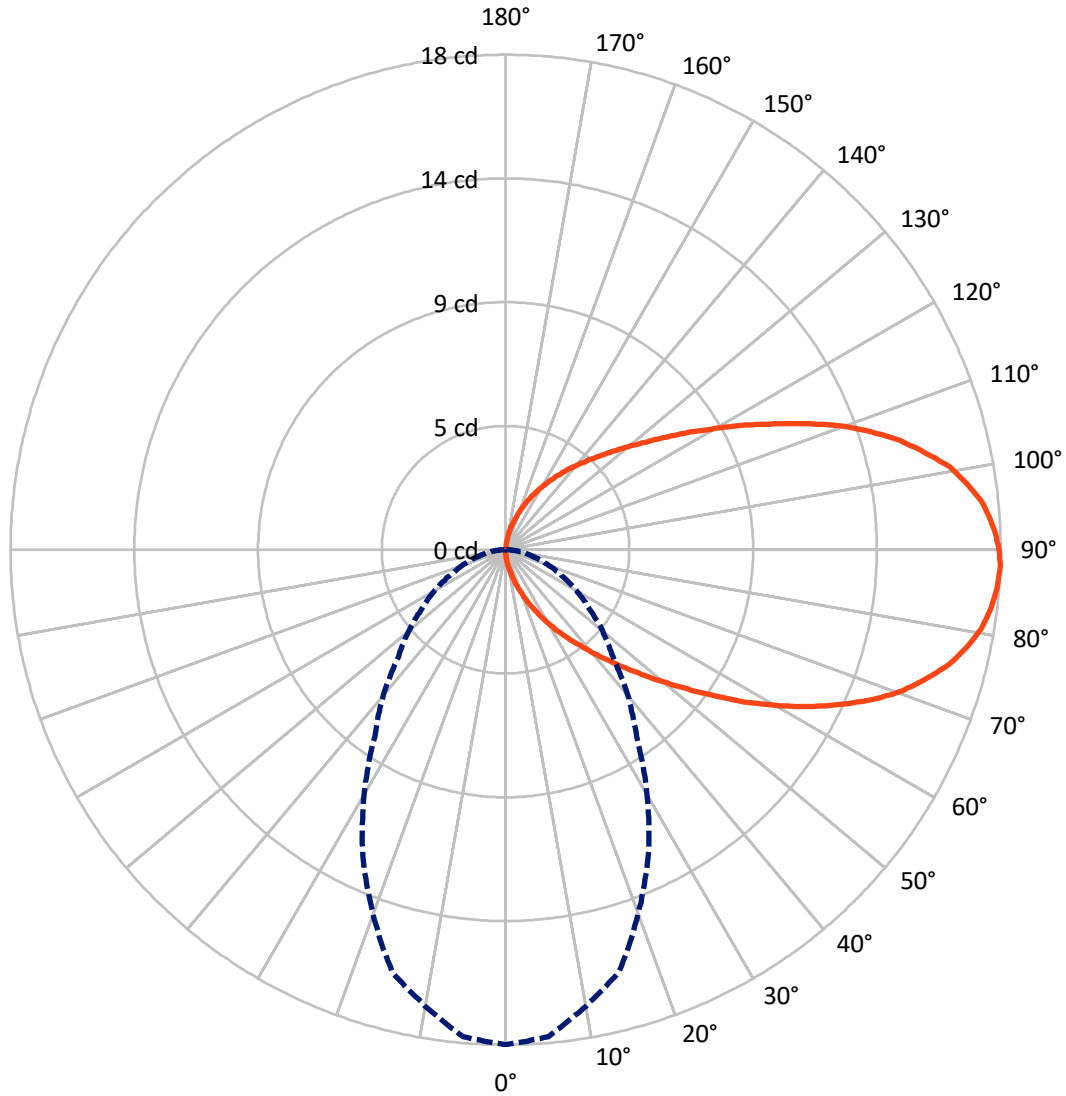
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 0 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 87.5-Deg Vertical

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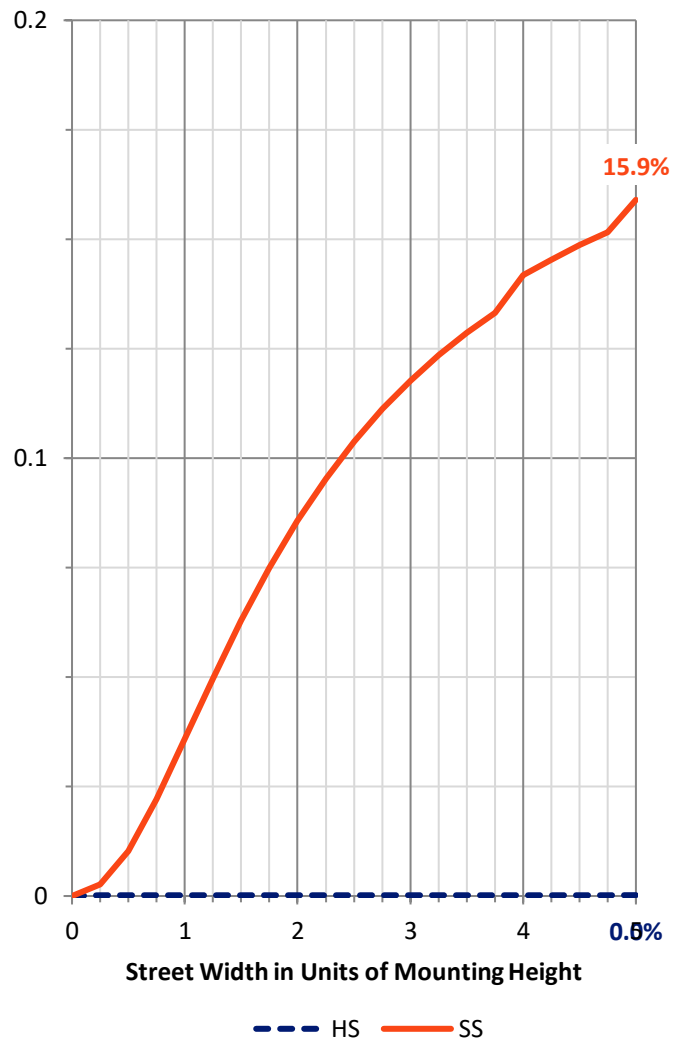
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	0.0	0.0	0.0
	% Lamp	0.0	0.0	0.0
Street Side	Lumens	15.3	13.4	28.8
	% Lamp	20.5	17.9	38.4
Total	Lumens	15.4	13.4	28.8
	% Lamp	20.5	17.9	38.4

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.0	0.0	0.0
10°-20°	0.1	0.4	0.1
20°-30°	0.3	1.1	0.4
30°-40°	0.7	2.5	0.9
40°-50°	1.3	4.4	1.7
50°-60°	2.0	7.1	2.7
60°-70°	3.0	10.3	4.0
70°-80°	3.8	13.1	5.0
80°-90°	4.2	14.4	5.5
90°-100°	4.0	13.9	5.3
100°-110°	3.4	11.7	4.5
110°-120°	2.4	8.5	3.3
120°-130°	1.6	5.7	2.2
130°-140°	1.0	3.6	1.4
140°-150°	0.6	2.1	0.8
150°-160°	0.3	1.0	0.4
160°-170°	0.1	0.3	0.1
170°-180°	0.0	0.0	0.0
0°-90°	15.4	53.3	20.5
0°-180°	28.8	100.0	38.4

Coefficient of Utilization

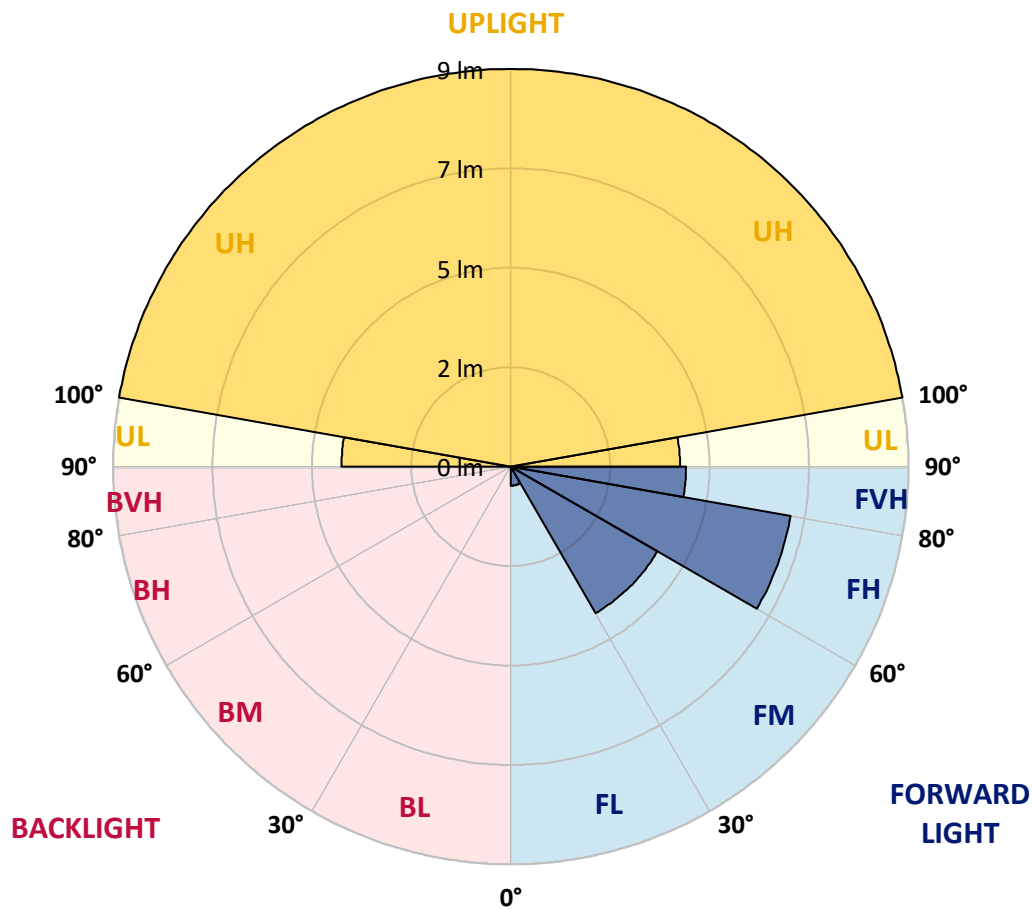


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	0.5	0.6			
FM (30°-60°)	4.0	5.3			
FH (60°-80°)	6.7	9.0			G0/660
FVH (80°-90°)	4.2	5.5			G0/10
BL (0°-30°)	0.0	0.0	B0/110		
BM (30°-60°)	0.0	0.0	B0/220		
BH (60°-80°)	0.0	0.0	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	4.0	5.3		U1/10	
UH (100°-180°)	9.4	12.6		U1/10	
Trapped Light	46.2	61.6			

BUG Rating: B0-U1-G0
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
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°	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0
5°	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.0	0.0
7.5°	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.2	0.1	0.1	0.0
10°	0.7	0.7	0.7	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.0
12.5°	0.9	0.9	0.9	0.8	0.7	0.7	0.5	0.4	0.2	0.1	0.0
15°	1.2	1.2	1.1	1.0	0.9	0.8	0.6	0.4	0.3	0.1	0.0
17.5°	1.5	1.5	1.4	1.3	1.1	0.9	0.7	0.5	0.3	0.1	0.0
20°	1.8	1.8	1.7	1.6	1.3	1.1	0.8	0.6	0.4	0.1	0.0
22.5°	2.1	2.1	2.0	1.8	1.6	1.3	1.0	0.7	0.4	0.1	0.0
25°	2.5	2.4	2.3	2.1	1.8	1.5	1.1	0.8	0.4	0.1	0.0
27.5°	2.8	2.8	2.7	2.4	2.1	1.7	1.2	0.8	0.5	0.1	0.0
30°	3.2	3.2	3.1	2.8	2.4	1.9	1.4	0.9	0.5	0.2	0.0
32.5°	3.7	3.6	3.4	3.1	2.6	2.1	1.5	1.0	0.6	0.2	0.0
35°	4.1	4.1	3.8	3.4	2.9	2.3	1.7	1.1	0.6	0.2	0.0
37.5°	4.6	4.5	4.3	3.8	3.2	2.5	1.8	1.2	0.6	0.2	0.0
40°	5.1	5.1	4.8	4.2	3.5	2.8	2.0	1.3	0.7	0.2	0.1
42.5°	5.7	5.6	5.2	4.6	3.8	3.0	2.1	1.4	0.7	0.2	0.1
45°	6.3	6.2	5.8	5.0	4.1	3.2	2.3	1.5	0.8	0.2	0.1
47.5°	7.0	7.0	6.4	5.5	4.5	3.4	2.5	1.6	0.8	0.2	0.1
50°	7.8	7.8	7.1	6.0	4.8	3.7	2.6	1.6	0.8	0.3	0.1
52.5°	8.7	8.7	7.8	6.5	5.1	3.9	2.7	1.7	0.9	0.3	0.1
55°	9.7	9.6	8.6	7.1	5.5	4.1	2.9	1.8	0.9	0.3	0.1
57.5°	10.8	10.6	9.4	7.6	5.8	4.3	3.0	1.9	0.9	0.3	0.1
60°	11.8	11.7	10.3	8.2	6.2	4.5	3.1	1.9	1.0	0.3	0.1
62.5°	12.9	12.7	11.2	8.9	6.5	4.7	3.3	2.0	1.0	0.3	0.1
65°	13.9	13.7	12.1	9.5	6.9	4.9	3.4	2.1	1.0	0.3	0.1
67.5°	14.9	14.7	13.0	10.1	7.2	5.0	3.5	2.1	1.0	0.3	0.1
70°	15.7	15.5	13.8	10.6	7.5	5.2	3.5	2.2	1.1	0.3	0.1
72.5°	16.5	16.3	14.5	11.2	7.8	5.3	3.6	2.2	1.1	0.3	0.1
75°	17.1	16.9	15.1	11.7	8.0	5.5	3.7	2.3	1.1	0.3	0.1
77.5°	17.6	17.3	15.5	12.0	8.2	5.5	3.7	2.3	1.1	0.3	0.1
80°	18.0	17.8	15.9	12.3	8.4	5.6	3.8	2.3	1.1	0.3	0.1
82.5°	18.3	18.0	16.2	12.5	8.5	5.7	3.8	2.3	1.1	0.3	0.1
85°	18.4	18.2	16.3	12.6	8.5	5.7	3.8	2.3	1.1	0.3	0.1
87.5°	18.5	18.3	16.3	12.6	8.5	5.7	3.8	2.3	1.1	0.3	0.1
90°	18.4	18.2	16.2	12.5	8.5	5.6	3.8	2.3	1.1	0.3	0.1
92.5°	18.2	18.0	16.0	12.3	8.3	5.6	3.8	2.3	1.1	0.3	0.1
95°	17.9	17.6	15.7	12.0	8.2	5.5	3.7	2.3	1.1	0.3	0.1
97.5°	17.4	17.2	15.2	11.6	7.9	5.4	3.7	2.3	1.1	0.3	0.1
100°	16.9	16.6	14.6	11.2	7.7	5.3	3.6	2.2	1.1	0.3	0.0
102.5°	16.1	15.9	13.9	10.6	7.4	5.1	3.5	2.2	1.1	0.3	0.0
105°	15.3	15.0	13.2	10.1	7.1	5.0	3.5	2.2	1.1	0.3	0.0
107.5°	14.3	14.1	12.3	9.4	6.8	4.8	3.4	2.1	1.0	0.3	0.0
110°	13.3	13.0	11.4	8.8	6.4	4.7	3.3	2.1	1.0	0.3	0.0



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 CATALOG NUMBER: 1235-RD-x-LED

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	12.0	11.9	10.4	8.2	6.1	4.5	3.2	2.0	1.0	0.3	0.0
115°	10.9	10.8	9.5	7.6	5.8	4.3	3.1	1.9	1.0	0.3	0.0
117.5°	9.9	9.8	8.6	7.0	5.5	4.1	2.9	1.8	0.9	0.3	0.0
120°	8.9	8.7	7.9	6.5	5.1	3.9	2.8	1.8	0.9	0.3	0.0
122.5°	8.0	7.9	7.1	6.0	4.8	3.7	2.7	1.7	0.9	0.3	0.0
125°	7.2	7.1	6.5	5.6	4.5	3.5	2.6	1.6	0.8	0.2	0.0
127.5°	6.5	6.4	5.9	5.2	4.3	3.3	2.4	1.5	0.8	0.2	0.0
130°	5.9	5.8	5.4	4.8	4.0	3.2	2.3	1.5	0.8	0.2	0.0
132.5°	5.3	5.3	5.0	4.4	3.7	3.0	2.2	1.4	0.7	0.2	0.0
135°	4.9	4.8	4.6	4.1	3.5	2.8	2.0	1.3	0.7	0.2	0.0
137.5°	4.4	4.4	4.2	3.8	3.2	2.6	1.9	1.2	0.7	0.2	0.0
140°	4.0	4.0	3.8	3.4	2.9	2.4	1.7	1.1	0.6	0.2	0.0
142.5°	3.7	3.6	3.5	3.1	2.7	2.2	1.6	1.0	0.6	0.2	0.0
145°	3.3	3.3	3.1	2.8	2.4	2.0	1.5	1.0	0.6	0.2	0.0
147.5°	3.0	3.0	2.8	2.6	2.2	1.8	1.3	0.9	0.5	0.1	0.0
150°	2.6	2.6	2.5	2.3	2.0	1.6	1.2	0.8	0.5	0.1	0.0
152.5°	2.3	2.3	2.2	2.0	1.7	1.4	1.1	0.7	0.4	0.1	0.0
155°	2.0	2.0	1.9	1.8	1.5	1.2	0.9	0.7	0.4	0.1	0.0
157.5°	1.7	1.7	1.6	1.5	1.3	1.1	0.8	0.6	0.3	0.1	0.0
160°	1.4	1.4	1.4	1.3	1.1	0.9	0.7	0.5	0.3	0.1	0.0
162.5°	1.2	1.2	1.1	1.0	0.9	0.8	0.6	0.5	0.3	0.1	0.0
165°	1.0	0.9	0.9	0.8	0.8	0.7	0.5	0.4	0.2	0.1	0.0
167.5°	0.7	0.7	0.7	0.7	0.6	0.5	0.4	0.2	0.1	0.0	0.0
170°	0.5	0.5	0.4	0.4	0.3	0.2	0.2	0.1	0.1	0.0	0.0
172.5°	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
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	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	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	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	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
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	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
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	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
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	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
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	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
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: 1235-RD-x-LED

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)