

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: SURE-LITES

Report Number: ITL53255

Luminaire Tested: **29-140 SURE LITES LENSED LAMPHOLDER**

Issue Date: 03/03/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: ITL53255
Test Lab:
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SURE-LITES
Catalog Number: 29-140 SURE LITES LENSED LAMPHOLDER
Description: FORMED WHITE PAINTED METAL HOUSING, FORMED WHITE PAINTED METAL LAMPHOLDER WITH METAL RETAINING CLIP, CLEAR FLAT GLASS LENS.
Light Source: ONE 12-WATT FOSHAM 6V 12W 12 DEGREE MR16, VERTICAL BASE-UP POSITION.
Ballast/Driver: -

Luminaire Equipment:	<u>Sample No.</u>	<u>Condition</u>	<u>Description</u>
	AS-5443-1	Good	WHITE TWIN R-EVOLVE FLOOD
	AS-5443-2	Good	REFLECTOR
	AS-5443-3	Good	REFLECTOR
	AS-5443-4	Good	REFLECTOR

Summary

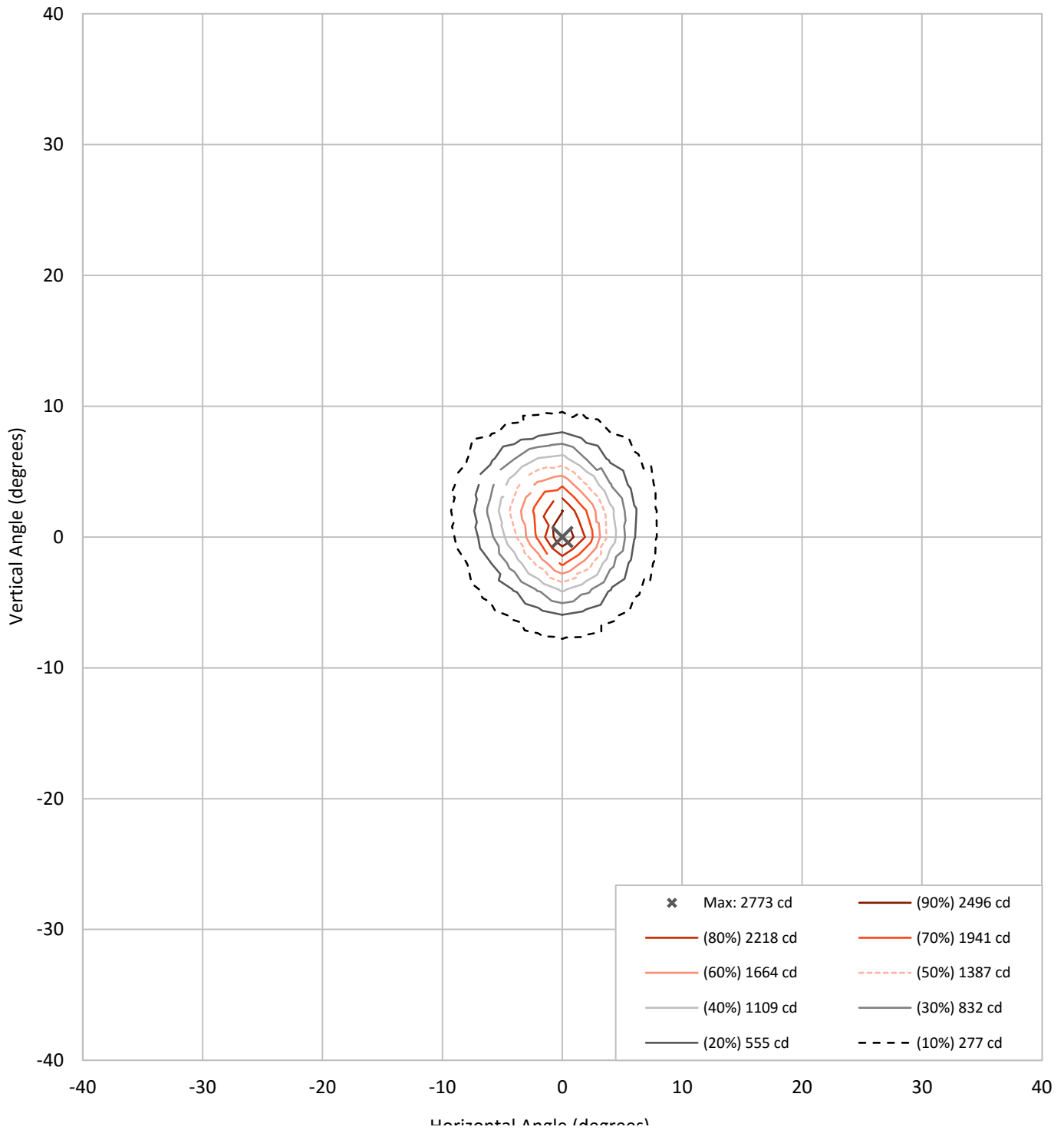
Lumens per Lamp:	140 (1 lamp)	NEMA Type:	1H x 1V
Luminaire Lumens:	131 lumens	Max Intensity:	2773 candela
Efficiency:	93.5%	Max Intensity Angle:	0°H x 0°V
Efficacy:	10.9 lumens/watt		
Luminous Opening:	(L: 0' x W: -0.14' x H: 0')		
Beam Angle (50%):	7.6°H x 8.9°V	Field Angle (10%):	16.5°H x 17.1°V
Beam Lumens:	28.2 lumens	Field Lumens:	64.9 lumens
Beam Efficiency:	21.6%	Field Efficiency:	49.5%
Input Watts (W):	12		
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:	28.75 FT		



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Iso-Candela Plot





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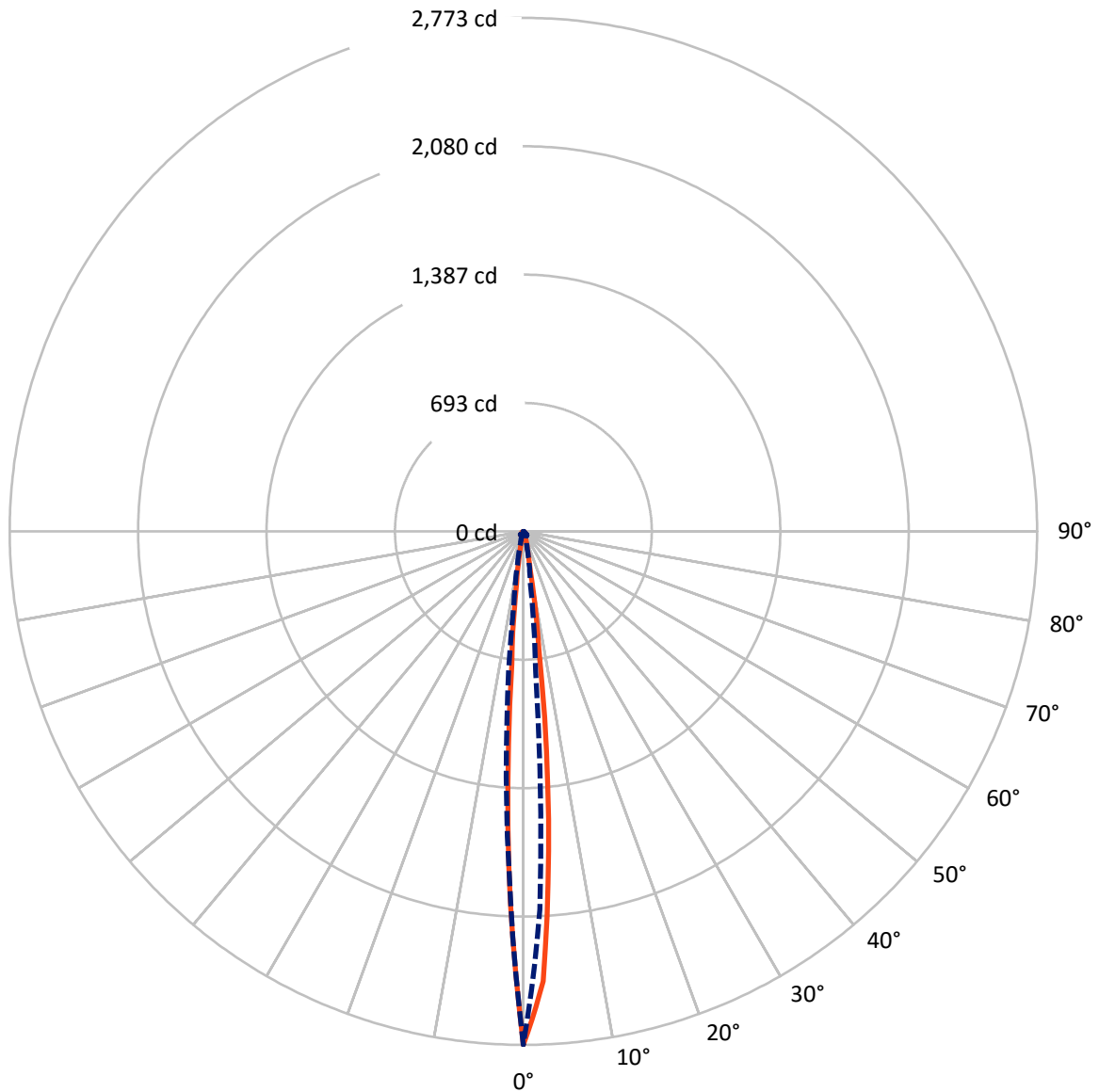
CATALOG NUMBER: 29-140 SURE LITES LENSED LAMPHOLDER

Lumen Table

90	0.0															
80	0.0															
70	0.0															
60	0.0	0.0	0.0	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
50	0.0	0.0	0.0	0.1	0.3	0.5	0.6	0.6	0.6	0.6	0.4	0.1	0.1	0.0	0.0	0.0
40	0.0	0.0	0.1	0.3	0.6	0.6	0.6	0.6	0.6	0.7	0.4	0.1	0.0	0.0	0.0	0.0
30	0.0	0.0	0.2	0.6	0.5	0.6	0.7	0.7	0.6	0.5	0.6	0.2	0.0	0.0	0.0	0.0
20	0.0	0.0	0.3	0.5	0.6	1.0	1.9	2.0	1.0	0.6	0.6	0.4	0.1	0.0	0.0	0.0
10	0.0	0.0	0.4	0.4	0.7	2.0	19.7	24.1	2.1	0.7	0.5	0.4	0.1	0.0	0.0	0.0
0	0.0	0.0	0.4	0.5	0.7	1.8	14.5	14.6	1.7	0.7	0.5	0.4	0.1	0.0	0.0	0.0
-10	0.0	0.0	0.3	0.6	0.6	0.8	1.2	1.2	0.9	0.6	0.6	0.3	0.1	0.0	0.0	0.0
-20	0.0	0.0	0.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.2	0.0	0.0	0.0	0.0
-30	0.0	0.0	0.1	0.3	0.6	0.7	0.7	0.7	0.7	0.7	0.3	0.1	0.0	0.0	0.0	0.0
-40	0.0	0.0	0.0	0.1	0.2	0.4	0.5	0.5	0.4	0.2	0.1	0.0	0.0	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	0.0	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															
-80	0.0															
-90	0.0															

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Luminous Intensity Polar Plot



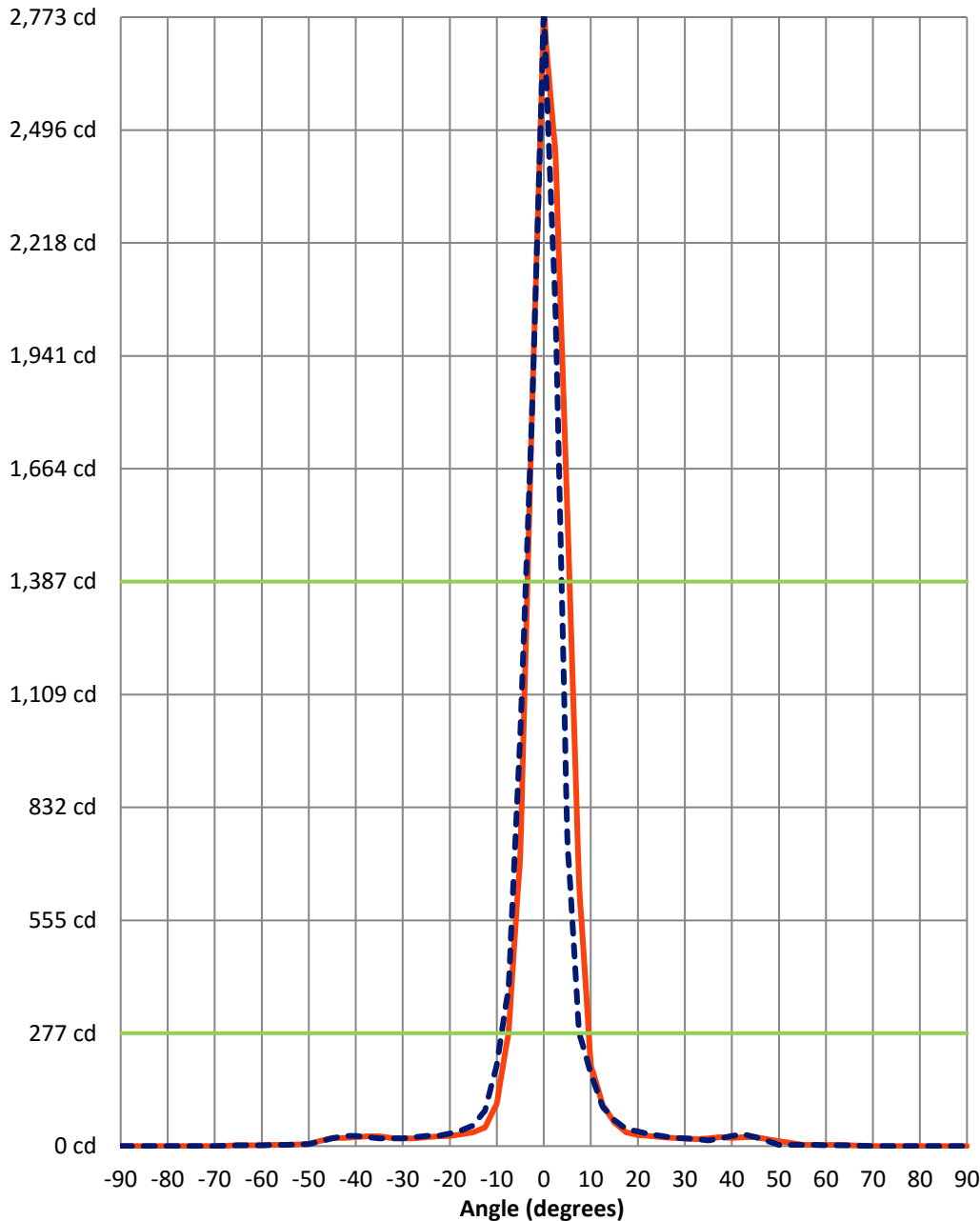
— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
 H Angle: 7.6°
 V Angle: 8.9°
 Lumens: 28.2
 Efficiency: 21.6%

Field:
 H Angle: 16.5°
 V Angle: 17.1°
 Lumens: 64.9
 Efficiency: 49.5%

Spill:
 Lumens: 66.1
 Efficiency: 50.5%

— 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	1
27.5°	0	0	0	0	0	0	0	0	0	0	1
25°	0	0	0	0	0	0	0	0	0	0	1
22.5°	0	0	0	0	0	0	0	0	0	0	1
20°	0	0	0	0	0	0	0	0	0	0	1
17.5°	0	0	0	0	0	0	0	0	0	1	2
15°	0	0	0	0	0	0	0	0	0	1	2
12.5°	0	0	0	0	0	0	0	0	0	1	2
10°	0	0	0	0	0	0	0	0	0	1	2
7.5°	0	0	0	0	0	0	0	0	0	1	2
5°	0	0	0	0	0	0	0	0	0	1	2
2.5°	0	0	0	0	0	0	0	0	0	1	2
0°	0	0	0	0	0	0	0	0	0	1	2
-2.5°	0	0	0	0	0	0	0	0	0	1	2
-5°	0	0	0	0	0	0	0	0	0	1	2
-7.5°	0	0	0	0	0	0	0	0	0	1	2
-10°	0	0	0	0	0	0	0	0	0	1	2
-12.5°	0	0	0	0	0	0	0	0	0	1	2
-15°	0	0	0	0	0	0	0	0	0	1	2
-17.5°	0	0	0	0	0	0	0	0	0	1	2
-20°	0	0	0	0	0	0	0	0	0	0	1



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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	1
-25°	0	0	0	0	0	0	0	0	0	0	1
-27.5°	0	0	0	0	0	0	0	0	0	0	1
-30°	0	0	0	0	0	0	0	0	0	0	1
-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



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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	1
60°	0	0	0	0	0	0	0	0	1	1	1
57.5°	0	0	0	0	0	0	1	1	1	2	2
55°	0	0	0	0	0	1	1	2	2	2	2
52.5°	0	0	0	0	1	1	2	2	2	3	3
50°	0	0	0	1	1	2	2	2	3	3	3
47.5°	0	0	1	1	2	2	2	2	3	3	3
45°	0	0	1	2	2	2	2	3	3	3	3
42.5°	0	1	1	2	2	2	2	3	3	3	5
40°	0	1	2	2	2	2	3	3	3	5	8
37.5°	1	1	2	2	2	2	3	3	4	7	10
35°	1	2	2	2	2	2	3	4	6	9	13
32.5°	1	2	2	2	2	3	3	5	8	11	17
30°	1	2	2	2	2	3	4	6	9	15	20
27.5°	2	2	2	2	3	3	5	7	12	18	24
25°	2	2	2	2	3	4	6	8	15	21	26
22.5°	2	2	2	2	3	4	6	10	17	24	28
20°	2	2	2	3	3	5	7	13	20	26	28
17.5°	2	2	2	3	3	5	7	15	22	27	28
15°	2	2	2	3	4	5	9	16	23	28	27
12.5°	2	2	2	3	4	6	10	18	24	27	25
10°	2	2	2	3	4	6	11	19	25	26	24
7.5°	2	2	2	3	4	6	12	19	25	26	24
5°	2	2	2	3	4	5	12	19	25	26	23
2.5°	2	2	2	3	4	5	12	20	25	25	22
0°	2	2	3	3	4	5	12	19	25	25	22
-2.5°	2	2	2	3	4	5	12	19	25	25	22
-5°	2	2	2	3	4	5	11	18	24	25	23
-7.5°	2	2	2	3	4	5	11	18	23	25	24
-10°	2	2	2	3	4	5	10	17	22	24	24
-12.5°	2	2	2	3	4	5	9	15	21	24	25
-15°	2	2	2	3	3	4	7	14	20	23	25
-17.5°	2	2	2	3	3	4	5	12	18	22	24
-20°	2	2	2	3	3	4	5	10	16	20	23



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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	2	3	4	4	7	13	19	22
-25°	2	2	2	2	3	3	4	5	10	16	21
-27.5°	2	2	2	2	3	3	4	5	7	13	19
-30°	1	2	2	2	2	3	3	4	5	9	15
-32.5°	1	2	2	2	2	3	3	4	4	6	11
-35°	1	2	2	2	2	2	3	3	4	5	7
-37.5°	1	1	2	2	2	2	2	3	3	4	5
-40°	0	1	2	2	2	2	2	3	3	3	4
-42.5°	0	1	1	2	2	2	2	2	3	3	3
-45°	0	0	1	2	2	2	2	2	2	3	3
-47.5°	0	0	1	1	2	2	2	2	2	2	2
-50°	0	0	0	1	1	2	2	2	2	2	2
-52.5°	0	0	0	0	1	1	2	2	2	2	2
-55°	0	0	0	0	0	1	1	2	2	2	2
-57.5°	0	0	0	0	0	0	1	1	1	2	2
-60°	0	0	0	0	0	0	0	0	1	1	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



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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	1	1	1	1
65°	0	0	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	3	3	3	3	3	3
57.5°	2	2	3	3	3	3	3	3	3	3	3
55°	3	3	3	3	3	3	3	3	3	3	3
52.5°	3	3	3	3	3	3	3	4	5	6	7
50°	3	3	3	3	4	6	8	10	11	12	12
47.5°	3	3	5	7	9	11	13	15	16	17	17
45°	4	7	9	12	14	16	18	20	21	22	22
42.5°	8	11	13	16	19	21	23	24	25	24	24
40°	11	15	18	20	23	25	25	25	24	23	22
37.5°	14	18	21	24	25	25	24	23	22	21	21
35°	18	22	25	26	26	24	22	21	20	19	19
32.5°	21	25	27	26	24	22	20	19	18	17	17
30°	25	27	26	24	21	19	18	17	17	17	18
27.5°	27	27	25	22	19	17	18	18	19	19	19
25°	28	26	23	20	17	18	19	20	20	20	21
22.5°	27	24	21	18	19	20	20	21	22	22	23
20°	26	23	19	19	20	21	22	23	24	25	26
17.5°	25	22	19	19	21	22	24	25	26	30	33
15°	24	20	19	21	22	24	25	27	33	38	40
12.5°	22	19	19	22	24	25	26	31	39	47	60
10°	21	19	20	22	24	25	28	35	45	62	90
7.5°	20	19	20	22	24	26	30	39	53	76	155
5°	19	19	20	22	25	26	31	41	57	96	207
2.5°	19	19	20	22	25	26	32	41	56	105	216
0°	19	19	19	22	25	25	31	39	51	88	200
-2.5°	19	19	19	22	25	25	30	38	51	80	159
-5°	19	18	19	22	24	25	29	36	48	69	108
-7.5°	20	18	19	21	24	25	27	33	43	56	79
-10°	21	18	18	20	23	25	26	30	37	47	57
-12.5°	23	19	17	19	22	24	25	28	33	39	44
-15°	25	20	18	18	20	23	25	26	30	32	34
-17.5°	25	23	20	18	19	21	23	25	26	27	27
-20°	26	26	22	20	19	19	21	23	23	24	25



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CATALOG NUMBER: 29-140 SURE LITES LENSED LAMPHOLDER

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	25	27	26	23	20	19	19	20	21	21	21
-25°	24	27	27	26	24	21	19	18	19	19	19
-27.5°	22	25	28	28	27	25	21	19	19	17	18
-30°	20	23	26	29	29	27	24	22	21	20	19
-32.5°	16	20	24	26	28	28	27	25	23	22	21
-35°	11	16	20	23	25	26	27	26	25	24	23
-37.5°	7	11	15	19	22	24	25	25	25	24	24
-40°	5	6	10	13	17	20	22	23	24	24	24
-42.5°	4	4	5	8	11	14	17	19	21	21	22
-45°	3	4	4	5	5	7	10	12	14	16	17
-47.5°	3	3	3	4	4	4	5	5	7	9	10
-50°	2	3	3	3	3	4	4	4	4	5	5
-52.5°	2	2	2	3	3	3	3	3	3	4	4
-55°	2	2	2	2	2	2	3	3	3	3	3
-57.5°	2	2	2	2	2	2	2	2	2	2	2
-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°	0	0	1	1	1	1	1	2	2	2	2
-67.5°	0	0	0	0	0	0	0	1	1	1	1
-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: ITL53255

CATALOG NUMBER: 29-140 SURE LITES LENSED LAMPHOLDER

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°	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	3	2	2	2	2	2	2	2
60°	3	3	3	3	3	3	3	2	2	2	2
57.5°	3	3	3	3	3	3	3	3	3	2	2
55°	3	3	3	3	3	3	3	3	3	3	3
52.5°	7	8	8	8	7	7	7	6	6	5	4
50°	12	13	12	12	12	12	11	11	10	9	8
47.5°	17	18	17	17	17	17	16	15	15	13	12
45°	22	23	22	22	22	22	21	20	19	18	17
42.5°	23	23	22	22	22	22	22	22	22	22	22
40°	21	21	20	20	20	20	20	21	21	22	22
37.5°	21	21	22	22	21	21	20	20	20	20	22
35°	19	19	19	19	18	18	18	18	18	19	20
32.5°	17	17	17	17	17	17	17	16	15	16	18
30°	18	19	19	19	19	19	18	18	17	17	17
27.5°	20	20	20	20	20	20	20	19	20	20	20
25°	21	22	22	22	22	22	21	21	20	21	23
22.5°	24	24	25	25	25	24	23	23	22	22	22
20°	28	28	28	27	27	26	25	25	24	24	23
17.5°	33	33	34	34	34	32	30	29	28	26	25
15°	45	53	58	58	53	45	41	38	34	30	27
12.5°	76	96	106	102	99	82	62	54	45	35	30
10°	148	160	178	200	188	156	111	78	58	43	33
7.5°	231	296	513	646	375	256	195	108	74	51	38
5°	317	860	1496	1559	956	414	248	153	86	60	41
2.5°	451	1254	1993	2432	1749	799	275	178	94	64	42
0°	390	1015	1805	2773	2042	758	280	178	97	64	42
-2.5°	278	626	1217	1810	1290	521	244	151	90	62	42
-5°	181	293	505	720	543	285	185	113	79	57	40
-7.5°	119	162	225	281	238	175	112	83	60	48	36
-10°	70	77	96	105	101	79	68	52	47	39	30
-12.5°	44	46	48	46	46	42	43	41	37	31	27
-15°	36	36	36	34	35	35	34	33	29	26	25
-17.5°	28	29	30	29	29	29	28	26	25	24	23
-20°	24	25	25	25	25	24	24	23	22	22	21



REPORT NUMBER: ITL53255

CATALOG NUMBER: 29-140 SURE LITES LENSED LAMPHOLDER

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	22	23	24	24	23	22	21	21	20	20	20
-25°	20	21	21	22	21	21	20	19	19	19	19
-27.5°	18	19	19	19	19	19	19	19	19	20	20
-30°	18	18	19	19	19	19	20	21	22	21	22
-32.5°	21	20	20	20	20	21	22	22	22	22	23
-35°	23	23	24	24	24	23	23	24	24	25	24
-37.5°	24	24	24	24	24	24	24	24	24	24	24
-40°	23	23	23	22	22	23	23	23	23	24	24
-42.5°	22	21	21	20	21	21	22	22	22	22	21
-45°	19	19	20	20	20	20	19	18	17	15	13
-47.5°	11	12	12	13	12	12	12	11	9	7	5
-50°	5	5	5	5	5	5	5	5	5	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°	2	2	2	3	2	2	2	2	2	2	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°	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: ITL53255

CATALOG NUMBER: 29-140 SURE LITES LENSED LAMPHOLDER

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°	1	1	1	1	1	0	0	0	0	0	0
62.5°	2	2	2	2	1	1	1	1	0	0	0
60°	2	2	2	2	2	2	2	1	1	1	0
57.5°	2	2	2	2	2	2	2	2	2	1	1
55°	3	2	2	2	2	2	2	2	2	2	2
52.5°	3	3	3	3	2	2	2	2	2	2	2
50°	6	5	4	3	3	3	2	2	2	2	2
47.5°	10	8	6	5	4	3	3	2	2	2	2
45°	14	12	8	7	5	4	3	3	3	2	2
42.5°	20	17	14	10	6	5	4	3	3	3	2
40°	23	23	20	16	12	6	4	4	3	3	3
37.5°	23	23	24	23	18	12	7	4	4	3	3
35°	22	23	24	24	24	19	13	6	4	3	3
32.5°	20	22	24	25	25	24	18	12	5	3	3
30°	17	19	21	25	25	25	23	17	10	4	3
27.5°	19	17	19	21	25	26	25	22	14	7	3
25°	22	21	17	18	21	25	26	24	18	11	3
22.5°	24	23	19	16	18	22	25	26	22	14	6
20°	22	23	20	17	16	18	24	26	24	18	9
17.5°	23	22	21	18	15	16	21	26	26	21	12
15°	25	23	21	18	15	15	18	25	27	23	15
12.5°	27	24	22	19	16	14	17	23	27	24	17
10°	29	26	23	20	17	15	16	21	26	26	19
7.5°	32	27	24	20	18	15	15	20	26	27	20
5°	33	28	24	21	19	16	15	19	25	28	21
2.5°	35	29	25	20	19	17	14	19	25	29	22
0°	36	29	25	20	19	17	14	19	25	29	22
-2.5°	34	28	25	20	19	17	15	20	25	29	22
-5°	31	26	24	20	19	17	16	21	26	28	22
-7.5°	28	25	23	20	18	17	18	23	26	27	21
-10°	26	24	21	19	18	17	20	24	27	26	19
-12.5°	24	23	20	19	17	18	22	25	27	25	18
-15°	23	21	19	18	18	20	25	27	27	24	15
-17.5°	21	20	19	18	19	22	26	27	26	22	13
-20°	20	19	19	19	21	24	26	27	25	19	10



REPORT NUMBER: ITL53255

CATALOG NUMBER: 29-140 SURE LITES LENSED LAMPHOLDER

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	19	19	19	21	23	25	26	26	24	15	6
-25°	19	20	21	22	24	26	26	25	20	11	3
-27.5°	21	22	22	23	25	26	25	23	15	7	3
-30°	22	23	23	25	25	25	24	18	10	3	3
-32.5°	23	24	25	25	25	24	19	12	5	3	3
-35°	24	25	25	24	24	19	13	6	4	3	3
-37.5°	24	24	24	23	18	13	7	4	3	3	3
-40°	23	23	19	15	11	6	4	3	3	2	2
-42.5°	18	15	12	8	5	4	3	3	2	2	2
-45°	11	8	5	4	4	3	2	2	2	2	2
-47.5°	5	4	4	3	3	2	2	2	2	2	2
-50°	4	3	3	2	2	2	2	2	2	2	2
-52.5°	3	3	2	2	2	2	2	2	2	2	1
-55°	2	2	2	2	2	2	2	2	2	2	1
-57.5°	2	2	2	2	2	2	2	2	2	1	1
-60°	2	2	2	2	2	2	2	1	1	1	0
-62.5°	2	2	2	2	1	1	1	1	0	0	0
-65°	1	1	1	1	1	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: ITL53255

CATALOG NUMBER: 29-140 SURE LITES LENSED LAMPHOLDER

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°	1	0	0	0	0	0	0	0	0	0	0
55°	1	1	0	0	0	0	0	0	0	0	0
52.5°	2	1	1	0	0	0	0	0	0	0	0
50°	2	2	1	1	0	0	0	0	0	0	0
47.5°	2	2	2	1	1	0	0	0	0	0	0
45°	2	2	2	2	1	0	0	0	0	0	0
42.5°	2	2	2	2	1	1	0	0	0	0	0
40°	2	2	2	2	2	1	0	0	0	0	0
37.5°	2	2	2	2	2	1	1	0	0	0	0
35°	3	2	2	2	2	2	1	0	0	0	0
32.5°	3	3	2	2	2	2	1	0	0	0	0
30°	3	3	2	2	2	2	1	1	0	0	0
27.5°	3	3	3	2	2	2	2	1	0	0	0
25°	3	3	3	2	2	2	2	1	0	0	0
22.5°	3	3	3	2	2	2	2	1	0	0	0
20°	3	3	3	3	2	2	2	1	0	0	0
17.5°	3	3	3	3	2	2	2	2	1	0	0
15°	6	3	3	3	2	2	2	2	1	0	0
12.5°	8	3	3	3	2	2	2	2	1	0	0
10°	9	3	3	3	2	2	2	2	1	0	0
7.5°	11	3	3	3	2	2	2	2	1	0	0
5°	12	3	3	3	2	2	2	2	1	0	0
2.5°	12	3	3	3	2	2	2	2	1	0	0
0°	13	3	3	3	3	2	2	2	1	0	0
-2.5°	12	3	3	3	2	2	2	2	1	0	0
-5°	12	3	3	3	2	2	2	2	1	0	0
-7.5°	11	3	3	3	2	2	2	2	1	0	0
-10°	10	3	3	3	2	2	2	1	1	0	0
-12.5°	8	3	3	3	2	2	2	1	1	0	0
-15°	6	3	3	3	2	2	2	1	0	0	0
-17.5°	3	3	3	3	2	2	1	1	0	0	0
-20°	3	3	3	3	2	2	1	1	0	0	0



REPORT NUMBER: ITL53255

CATALOG NUMBER: 29-140 SURE LITES LENSED LAMPHOLDER

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	3	3	3	2	2	1	1	1	0	0	0
-25°	3	3	3	2	2	1	1	1	0	0	0
-27.5°	3	3	3	2	2	1	1	0	0	0	0
-30°	3	3	2	2	1	1	1	0	0	0	0
-32.5°	3	3	2	2	1	0	0	0	0	0	0
-35°	3	2	2	1	1	0	0	0	0	0	0
-37.5°	2	2	2	1	0	0	0	0	0	0	0
-40°	2	2	1	1	0	0	0	0	0	0	0
-42.5°	2	2	1	0	0	0	0	0	0	0	0
-45°	2	1	1	0	0	0	0	0	0	0	0
-47.5°	1	1	1	0	0	0	0	0	0	0	0
-50°	1	1	0	0	0	0	0	0	0	0	0
-52.5°	1	1	0	0	0	0	0	0	0	0	0
-55°	1	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: ITL53255

CATALOG NUMBER: 29-140 SURE LITES LENSED LAMPHOLDER

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: ITL53255

CATALOG NUMBER: 29-140 SURE LITES LENSED LAMPHOLDER

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)







Horizontal Angle (degrees)



Horizontal Angle (degrees)

