

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: INVUE

Report Number: P89407

Luminaire Tested: **ENV-BXX-LED-E1-SLL-ULG-CWB**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P89407
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (P20107) AND DOWNLIGHT
Test Lab: INNOVATION CENTER P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-BXX-LED-E1-SLL-ULG-CWB
Description: ENTRI LED LUMINAIRE WITH UPLIGHT, EMERGENCY MODE
LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1353.5 lumens
Efficiency: N/A
Efficacy: 246.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B0 - U3 - G1

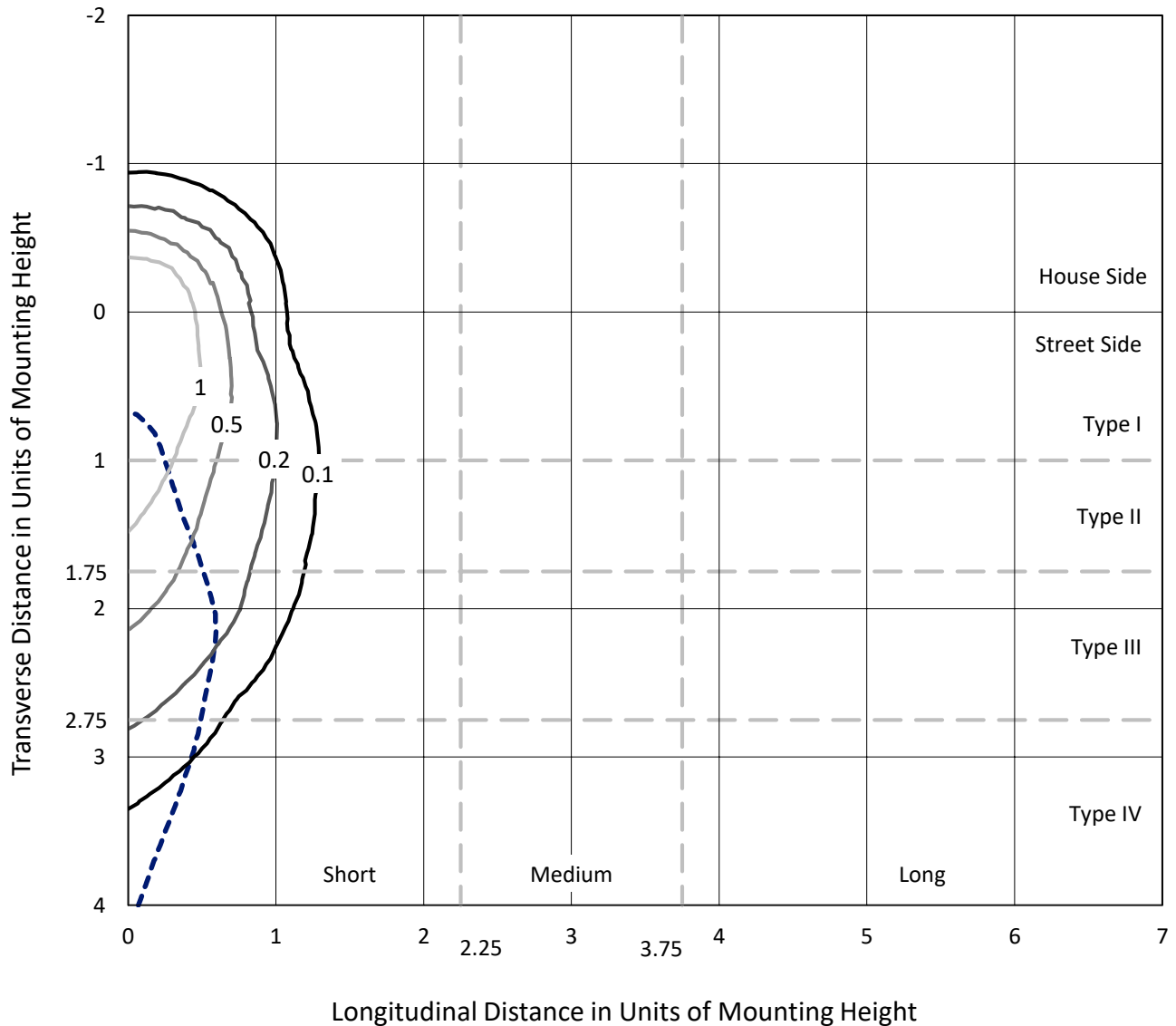
Input Watts (W): 5.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

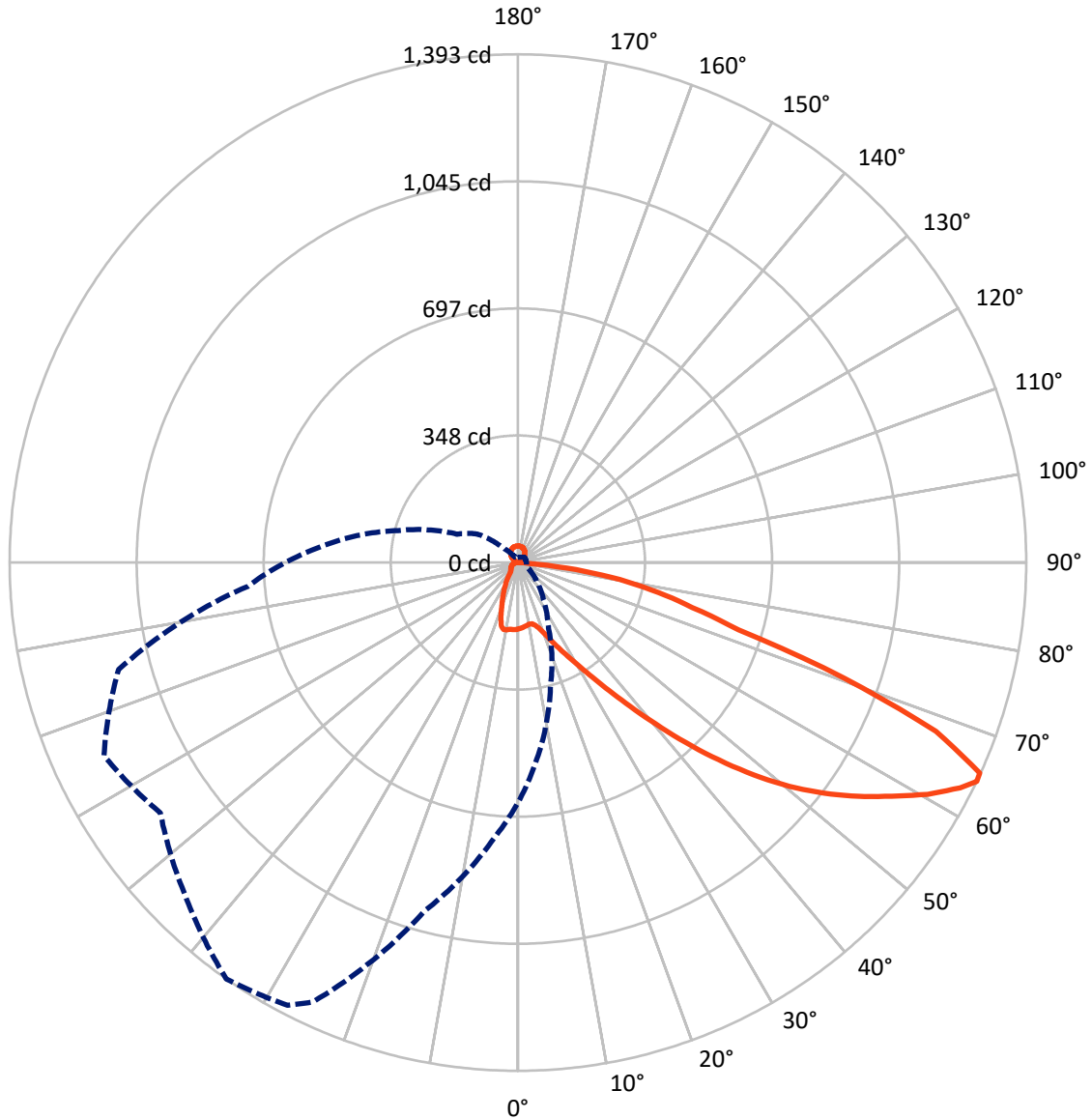
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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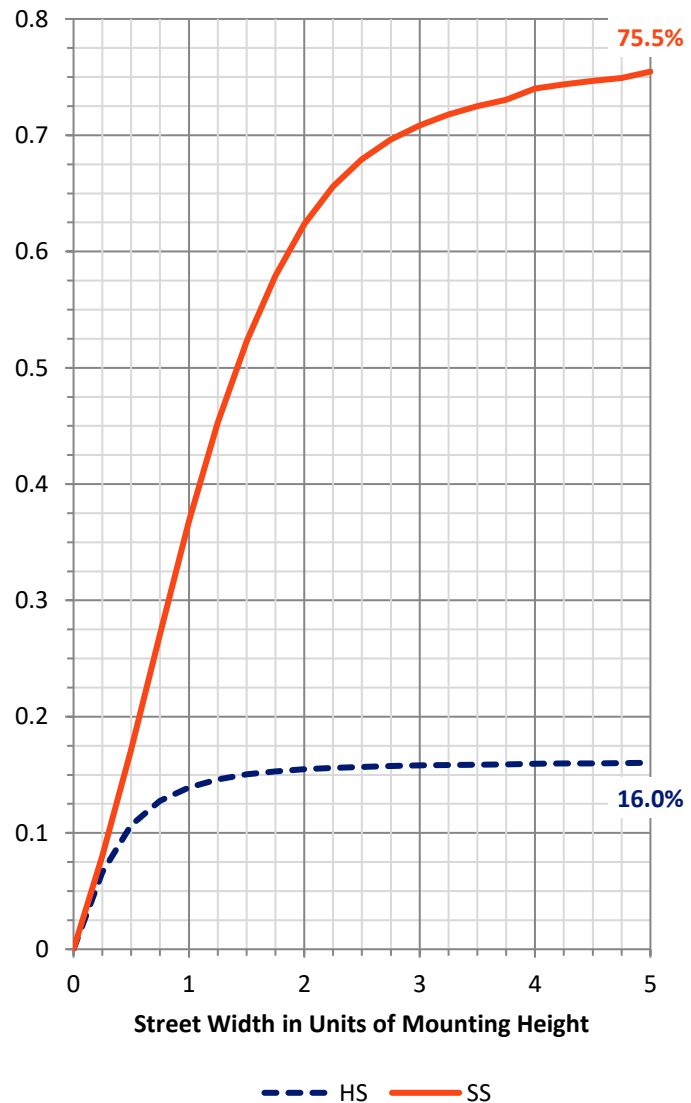
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	219.5	51.1	270.6
	% Fixture	16.2	3.8	20.0
Street Side	Lumens	1031.8	51.1	1082.9
	% Fixture	76.2	3.8	80.0
Total	Lumens	1251.3	102.1	1353.5
	% Fixture	92.5	7.5	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.1	1.3
10°-20°	49.2	3.6
20°-30°	79.5	5.9
30°-40°	121.9	9.0
40°-50°	188.3	13.9
50°-60°	269.0	19.9
60°-70°	331.5	24.5
70°-80°	167.9	12.4
80°-90°	26.9	2.0
90°-100°	0.4	0.0
100°-110°	4.0	0.3
110°-120°	8.2	0.6
120°-130°	13.9	1.0
130°-140°	19.4	1.4
140°-150°	21.2	1.6
150°-160°	18.4	1.4
160°-170°	12.4	0.9
170°-180°	4.3	0.3
0°-90°	1251.3	92.5
0°-180°	1353.5	100.0



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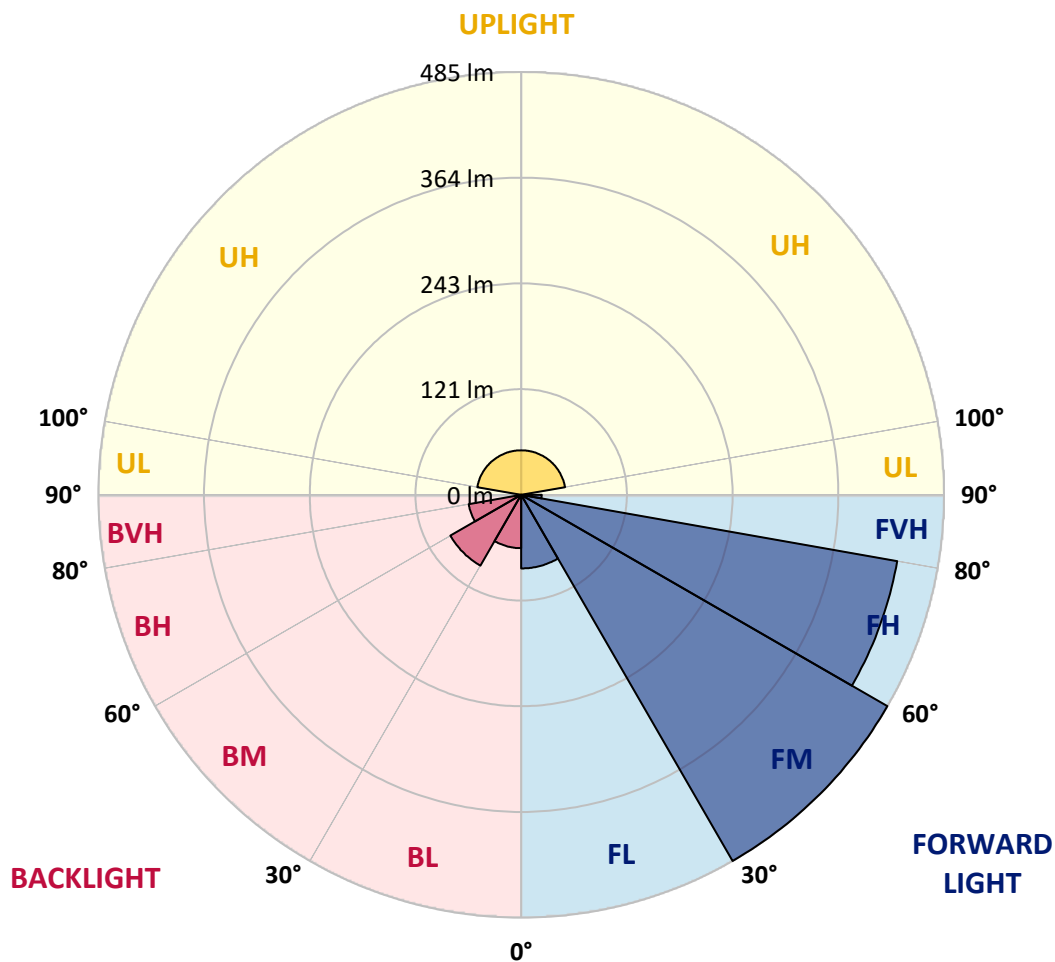
CATALOG NUMBER: ENV-BXX-LED-E1-SLL-ULG-CWB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	84.5	6.2			
FM (30°-60°)	485.4	35.9			
FH (60°-80°)	438.3	32.4			G0/660
FVH (80°-90°)	23.6	1.7			G1/100
BL (0°-30°)	61.3	4.5	B0/110		
BM (30°-60°)	93.8	6.9	B0/220		
BH (60°-80°)	61.2	4.5	B0/110		G0/110
BVH (80°-90°)	3.3	0.2			G0/10
UL (90°-100°)	0.4	0.0		U1/10	
UH (100°-180°)	51.1	3.8		U3/500	

BUG Rating: B0-U3-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	27.5°	35°	45°	55°	65°	75°	85°
0°	182.0	182.0	182.0	182.0	182.0	182.0	182.0	182.0	182.0	182.0	182.0
2.5°	183.2	183.2	182.8	182.8	182.8	183.2	184.0	184.0	184.0	184.0	184.4
5°	182.8	183.6	182.8	183.6	184.0	183.6	184.4	184.8	184.4	184.4	184.8
7.5°	183.6	184.4	184.0	186.0	186.0	186.4	186.4	186.8	186.8	187.2	187.2
10°	180.4	181.6	182.4	186.0	186.8	188.0	189.6	191.1	190.8	191.1	191.1
12.5°	176.0	176.0	177.6	180.8	182.0	185.2	190.8	193.9	194.3	194.7	192.7
15°	177.2	175.6	175.2	176.4	178.0	182.4	188.8	193.9	194.3	193.2	190.3
17.5°	183.6	182.0	179.6	178.4	179.6	181.6	188.0	192.0	188.0	184.0	179.6
20°	195.5	193.2	188.8	187.2	187.6	187.6	187.2	185.2	176.4	169.7	161.7
22.5°	209.5	206.3	202.7	199.9	199.1	197.9	190.8	178.0	163.3	152.1	143.0
25°	226.6	223.8	219.8	213.8	213.5	209.1	195.5	171.6	151.7	139.8	129.0
27.5°	249.7	246.9	239.3	229.0	226.6	215.0	194.7	165.2	142.2	128.6	116.3
30°	277.6	273.2	258.5	239.7	235.0	216.6	191.5	158.1	133.0	117.1	102.3
32.5°	311.0	301.5	276.4	245.7	238.5	217.4	186.8	150.5	122.3	103.2	86.8
35°	345.3	330.1	291.5	248.9	238.9	212.6	179.6	140.2	109.1	87.2	70.9
37.5°	381.5	356.8	302.3	247.7	235.8	204.7	169.7	127.4	94.4	70.9	54.9
40°	416.6	381.5	309.4	243.3	230.2	194.7	156.9	113.5	80.0	55.8	42.2
42.5°	449.6	403.4	315.4	236.5	222.2	184.8	142.2	99.6	68.5	45.8	35.0
45°	478.3	420.1	318.6	230.2	214.2	173.2	126.2	90.4	61.3	40.2	32.2
47.5°	497.8	433.7	321.0	223.8	205.9	161.7	115.1	84.8	56.6	36.2	31.0
50°	514.5	444.8	322.6	217.4	199.1	152.1	109.1	80.8	52.2	33.1	29.5
52.5°	532.8	459.5	324.5	211.4	192.7	147.0	105.1	75.7	47.4	30.3	27.9
55°	557.9	479.9	331.3	207.5	188.8	144.2	100.8	70.5	42.6	28.3	26.7
57.5°	589.4	503.8	337.3	205.9	187.2	141.0	95.2	64.1	37.4	26.7	25.5
60°	626.8	529.3	344.9	205.9	186.4	137.0	88.0	57.3	33.1	25.9	25.1
62.5°	652.3	550.4	351.2	206.3	183.2	130.6	80.0	50.6	29.5	25.1	24.7
64°	658.7	551.6	345.3	199.1	175.2	121.1	71.7	43.4	26.3	24.3	23.9
65°	663.8	557.9	349.2	201.5	176.8	121.9	72.1	43.4	26.3	24.3	23.9
67.5°	595.3	494.6	308.6	182.0	160.1	108.3	61.3	35.8	24.3	23.5	23.1
70°	544.0	444.4	238.9	144.2	131.4	87.6	47.4	28.7	22.7	22.7	21.9
72.5°	454.8	362.0	196.3	115.1	98.0	59.3	36.2	25.1	21.9	21.5	21.1
75°	375.1	288.7	165.7	84.0	68.5	41.4	30.3	23.9	21.1	20.7	19.9
77.5°	305.0	224.2	124.3	56.6	48.2	35.5	27.1	22.7	20.3	20.3	19.5
80°	217.8	143.4	72.1	40.2	37.0	31.0	24.3	20.3	18.7	19.1	17.5
82.5°	160.5	94.0	46.6	28.3	28.7	24.3	21.5	18.3	17.1	17.1	16.7
85°	94.0	54.2	26.3	20.3	20.7	18.7	16.3	16.3	15.1	14.7	14.3
87.5°	2.0	16.3	11.1	11.6	12.3	14.3	13.9	13.1	11.9	11.6	11.1
90°	0.0	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	0.0
95°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
97.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
100°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
102.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
105°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
107.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8



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CATALOG NUMBER: ENV-BXX-LED-E1-SLL-ULG-CWB

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	27.5°	35°	45°	55°	65°	75°	85°
110°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
112.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
115°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
117.5°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
120°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
122.5°	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
125°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
127.5°	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9
130°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
132.5°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
135°	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2
137.5°	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6
140°	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
142.5°	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
145°	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0
147.5°	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6
150°	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
152.5°	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
155°	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
157.5°	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
160°	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2
162.5°	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
165°	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
167.5°	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
170°	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
172.5°	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
175°	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
177.5°	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
180°	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	182.0	182.0	182.0	182.0	182.0	182.0	182.0	182.0	182.0	182.0	182.0
2.5°	184.4	184.4	184.4	183.2	183.2	182.8	184.0	184.0	182.8	182.8	180.4
5°	184.8	184.8	184.8	183.6	183.2	183.2	184.0	184.4	182.8	182.0	179.6
7.5°	186.8	186.8	186.4	185.2	184.4	184.0	184.4	185.2	184.0	183.2	181.2
10°	190.8	190.8	189.6	188.8	187.2	186.4	186.8	187.6	185.6	184.8	183.2
12.5°	193.2	192.3	191.5	190.8	189.6	189.1	188.0	185.2	182.0	179.6	176.8
15°	190.8	190.0	190.3	188.0	187.2	185.2	180.4	172.8	164.9	161.3	159.3
17.5°	179.2	176.8	177.2	177.2	175.6	168.8	159.3	149.3	141.0	138.6	137.0
20°	159.3	156.5	155.3	156.1	152.9	144.6	134.6	127.4	121.9	121.9	121.5
22.5°	139.4	136.6	131.8	128.6	123.8	118.3	113.5	109.9	108.3	108.7	108.7
25°	125.4	121.5	114.3	109.1	103.9	99.6	97.2	95.2	94.0	95.2	95.6
27.5°	111.1	106.7	99.2	93.6	88.4	84.4	82.0	80.8	79.6	80.0	80.5
30°	96.4	92.0	84.8	79.6	74.9	70.1	68.1	66.1	65.3	64.5	64.9
32.5°	80.5	75.7	70.9	66.9	62.1	58.1	55.8	53.0	50.6	49.0	48.2
35°	64.5	61.3	57.8	54.6	51.0	47.4	44.6	40.6	37.8	36.2	35.5
37.5°	51.0	48.6	46.6	45.0	42.2	39.0	35.8	32.2	30.3	29.5	28.7
40°	39.4	38.6	38.6	37.8	35.5	32.7	30.3	28.3	27.9	27.5	27.1
42.5°	34.6	34.6	34.3	33.4	31.5	30.3	28.7	27.9	27.1	26.7	25.9
45°	32.7	32.2	32.2	32.2	30.7	29.1	28.3	26.7	25.9	25.5	24.7
47.5°	31.0	30.7	30.7	30.7	29.5	27.9	26.7	25.5	24.7	23.9	23.5
50°	29.5	29.5	29.5	29.5	28.3	26.7	25.5	24.3	23.1	22.3	21.5
52.5°	27.9	27.5	27.5	27.9	26.7	25.1	23.9	22.3	21.1	20.3	20.3
55°	26.3	25.9	25.9	26.3	25.5	23.5	22.7	20.7	19.9	19.5	19.1
57.5°	25.5	25.1	24.3	24.7	24.3	22.3	21.5	19.5	18.7	18.3	18.3
60°	24.7	24.3	23.9	24.3	23.9	21.1	20.3	18.3	17.1	17.5	17.1
62.5°	24.3	23.5	22.7	23.1	23.5	21.1	19.5	17.1	15.9	16.3	15.9
64°	23.5	23.1	22.3	22.7	23.1	20.7	18.3	15.9	15.1	15.1	14.7
65°	23.9	23.1	22.3	22.3	22.7	20.7	18.7	15.9	14.7	14.7	14.7
67.5°	23.1	22.7	21.5	21.1	21.1	19.1	17.1	14.7	13.5	13.5	13.5
70°	21.5	21.5	19.9	18.7	18.7	17.1	15.5	13.1	12.8	12.8	13.1
72.5°	20.7	19.9	18.7	17.5	16.7	15.1	13.9	12.3	11.9	12.3	11.9
75°	19.5	19.1	17.5	16.3	14.7	13.5	12.8	11.6	11.1	11.6	11.6
77.5°	18.7	17.9	16.7	15.1	13.1	12.3	11.6	10.4	10.0	10.4	10.4
80°	16.7	15.9	14.3	13.1	11.6	10.7	10.0	8.0	8.4	8.8	8.8
82.5°	15.9	14.7	13.1	11.6	10.4	9.2	8.4	7.2	7.2	7.6	7.2
85°	13.5	13.1	11.6	10.0	8.4	7.6	6.8	5.2	5.2	4.8	4.4
87.5°	10.7	10.4	9.2	8.0	6.4	5.6	4.8	3.6	2.8	0.8	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
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
97.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
100°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
102.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
105°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
107.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8



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CATALOG NUMBER: ENV-BXX-LED-E1-SLL-ULG-CWB

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
112.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
115°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
117.5°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
120°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
122.5°	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
125°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
127.5°	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9
130°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
132.5°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
135°	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2
137.5°	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6
140°	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
142.5°	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
145°	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0
147.5°	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6
150°	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
152.5°	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
155°	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
157.5°	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
160°	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2
162.5°	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
165°	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
167.5°	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
170°	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
172.5°	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
175°	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
177.5°	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
180°	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6



REPORT NUMBER: P89407

CATALOG NUMBER: ENV-BXX-LED-E1-SLL-ULG-CWB

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	182.0	182.0	182.0	182.0	182.0	182.0	182.0	182.0	182.0	182.0	182.0
2.5°	179.6	180.0	179.2	178.4	178.0	176.4	177.2	177.2	177.2	176.8	176.4
5°	179.6	178.8	178.0	176.0	175.6	172.4	172.0	171.2	170.0	169.7	170.0
7.5°	181.2	179.6	177.6	174.4	170.8	167.3	164.9	163.3	162.5	162.1	162.5
10°	183.2	181.2	178.4	174.0	168.1	162.9	159.3	157.3	157.3	157.3	156.9
12.5°	176.4	175.6	174.0	169.3	165.2	160.5	157.3	155.7	155.3	156.5	156.5
15°	159.3	160.1	161.3	161.7	161.3	161.7	161.7	161.3	160.5	161.7	162.1
17.5°	138.2	141.0	144.6	148.9	155.7	161.7	168.1	172.0	172.8	174.4	174.4
20°	122.6	126.2	131.8	140.2	151.3	162.9	173.6	183.2	188.0	190.0	188.8
22.5°	109.9	113.5	121.1	132.2	147.0	165.2	180.0	195.1	203.1	205.9	204.7
25°	96.4	101.1	109.9	123.1	143.0	167.6	186.8	207.1	221.4	227.4	226.6
27.5°	82.0	87.2	97.2	112.7	137.8	167.6	191.5	218.2	241.3	250.5	253.7
30°	66.1	72.9	84.4	101.5	130.2	164.1	192.3	228.6	263.2	276.4	286.3
32.5°	49.8	55.8	69.7	90.8	122.3	156.5	189.1	233.8	282.4	302.7	318.2
35°	36.2	41.8	54.6	77.6	111.9	148.2	183.2	237.7	299.1	328.1	351.6
37.5°	29.1	32.7	44.6	66.5	99.9	138.2	178.0	239.3	314.2	350.4	383.5
40°	26.7	29.1	40.2	60.9	90.4	128.6	173.6	242.5	328.6	369.2	411.0
42.5°	25.5	26.7	37.0	58.5	86.4	120.3	168.8	246.5	340.5	386.3	435.3
45°	24.7	25.1	33.1	55.4	85.6	116.3	166.1	250.5	354.0	403.8	459.2
47.5°	23.1	23.5	29.5	51.8	82.8	116.7	165.7	254.5	364.8	418.5	480.3
50°	21.5	21.9	26.7	47.8	80.5	116.7	166.1	260.4	377.1	434.5	503.4
52.5°	20.3	20.3	23.5	43.8	76.9	115.9	171.6	270.4	394.6	453.6	527.2
55°	19.1	19.1	21.5	40.6	73.7	114.7	175.6	288.7	427.3	485.4	557.1
57.5°	18.3	18.3	19.9	36.6	70.5	113.1	179.2	306.2	467.9	538.0	612.5
60°	17.5	17.5	18.7	32.2	65.7	110.3	183.2	320.6	499.4	580.6	665.4
62.5°	16.3	16.3	17.1	27.9	60.1	105.5	184.0	332.9	520.1	610.1	708.5
64°	15.1	15.5	16.3	24.3	55.4	136.2	184.0	339.7	534.4	637.6	742.3
65°	14.7	15.1	15.5	23.1	53.0	97.2	178.8	332.1	526.9	631.6	736.7
67.5°	13.5	13.9	13.9	18.3	44.6	84.8	162.1	308.2	507.7	622.8	719.6
70°	13.1	13.1	12.3	13.1	36.6	68.9	133.8	258.5	451.2	565.5	627.6
72.5°	12.3	12.8	11.6	11.6	26.7	54.6	103.5	205.5	385.5	470.3	514.1
75°	11.6	11.6	10.7	11.1	20.3	37.0	77.2	147.7	276.4	349.6	401.0
77.5°	10.4	10.0	9.6	10.4	16.3	26.7	56.6	107.9	166.4	226.2	287.1
80°	8.8	8.4	8.0	8.0	10.7	13.5	23.5	51.4	88.0	125.0	156.9
82.5°	7.6	6.4	6.0	5.2	4.8	3.6	4.4	3.6	0.4	0.8	2.8
85°	4.4	3.6	2.0	0.4	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	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
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
97.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
100°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
102.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
105°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
107.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	
110°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	0°
112.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	2.5°
115°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	5°
117.5°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	7.5°
120°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	10°
122.5°	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	12.5°
125°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15°
127.5°	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.5°
130°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20°
132.5°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.5°
135°	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25°
137.5°	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.5°
140°	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	30°
142.5°	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.5°
145°	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	35°
147.5°	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	37.5°
150°	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	40°
152.5°	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	42.5°
155°	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	45°
157.5°	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	47.5°
160°	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	50°
162.5°	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	52.5°
165°	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	55°
167.5°	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	57.5°
170°	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	60°
172.5°	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	62.5°
175°	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	64°
177.5°	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	65°
180°	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

NUMBER: P89407
 NUMBER: ENV-BXX-LED-E1-SLL-ULG-CWB

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

285°	295°	305°	315°	325°	332.5°	335°	345°	355°	360°	285°	
182.0	182.0	182.0	182.0	182.0	182.0	182.0	182.0	182.0	182.0	110°	5.8
176.4	176.8	177.6	179.6	180.0	182.0	182.4	182.4	182.8	183.2	112.5°	6.9
169.7	171.2	172.4	175.6	176.8	180.8	180.8	181.6	182.0	182.8	115°	8.1
162.5	164.9	166.4	170.8	174.4	178.4	179.2	181.6	182.8	183.6	117.5°	9.6
157.7	160.9	164.1	167.6	171.6	174.8	175.6	179.2	180.4	180.4	120°	11.3
157.7	160.5	164.9	168.8	172.4	174.4	174.4	175.6	176.4	176.0	122.5°	13.2
164.5	166.9	171.2	174.4	178.0	180.4	180.4	180.4	178.4	177.2	125°	15.5
176.4	178.0	182.0	185.6	189.6	191.1	191.1	189.6	186.4	183.6	127.5°	17.9
190.8	193.2	198.3	203.9	207.5	208.7	207.9	205.5	198.7	195.5	130°	20.4
206.7	211.9	217.8	226.2	230.6	231.4	229.4	224.6	214.2	209.5	132.5°	22.8
229.4	234.1	242.1	252.9	258.5	256.9	255.3	247.3	232.6	226.6	135°	25.2
258.8	263.2	275.2	286.7	290.3	286.7	284.7	274.8	256.5	249.7	137.5°	27.6
297.9	300.3	316.2	327.7	326.9	322.2	319.0	305.8	285.9	277.6	140°	29.9
345.3	350.4	364.4	378.3	373.9	364.4	360.0	344.1	322.2	311.0	142.5°	32.1
395.8	409.8	420.9	440.1	430.9	414.5	409.0	389.5	362.8	345.3	145°	34.0
444.8	476.7	487.0	515.7	500.2	475.9	468.3	444.8	407.0	381.5	147.5°	35.6
489.8	546.8	563.9	609.3	581.8	548.4	540.0	510.5	452.4	416.6	150°	37.3
530.5	609.3	641.5	710.0	674.6	631.2	621.2	578.2	495.4	449.6	152.5°	38.8
573.4	667.0	719.2	812.0	771.8	716.8	703.3	643.5	535.2	478.3	155°	40.0
612.1	721.2	790.1	901.6	869.7	800.0	781.7	698.9	567.1	497.8	157.5°	41.1
649.5	775.3	858.2	972.1	964.5	878.9	859.0	750.7	595.8	514.5	160°	42.2
686.5	825.9	923.9	1031.0	1050.5	959.3	929.8	798.0	621.2	532.8	162.5°	43.2
725.2	880.5	990.8	1084.0	1131.0	1046.5	1011.9	846.6	649.5	557.9	165°	44.0
787.3	952.6	1051.7	1129.4	1208.6	1148.5	1111.1	906.0	684.6	589.4	167.5°	44.4
861.4	1086.4	1129.4	1193.9	1289.9	1271.5	1246.1	979.6	732.7	626.8	170°	44.5
922.3	1215.8	1192.7	1247.3	1359.9	1364.3	1344.0	1033.4	754.6	652.3	172.5°	44.9
1133.4	1252.0	1196.3	1289.9	1393.4	1368.3	1328.9	988.8	759.4	658.7	175°	45.5
954.5	1243.3	1190.7	1283.1	1391.4	1359.2	1316.9	993.2	761.0	663.8	177.5°	45.7
895.6	1167.2	1108.3	1211.4	1236.1	1214.2	1170.4	868.9	677.8	595.3	180°	45.6
726.8	967.3	919.9	967.7	948.6	984.0	970.9	758.2	613.3	544.0		
536.4	601.7	601.7	711.2	632.8	641.1	646.7	572.2	502.2	454.8		
383.1	387.1	432.9	546.0	493.8	437.2	439.6	437.7	420.9	375.1		
285.9	299.5	361.6	442.0	393.4	339.3	330.5	331.7	350.1	305.0		
135.0	172.4	231.8	321.8	283.1	257.3	245.7	231.4	275.2	217.8		
12.8	43.4	86.4	156.5	160.9	169.7	170.4	155.3	196.7	160.5		
0.0	0.0	0.0	10.0	28.7	72.5	72.9	92.0	104.3	94.0		
0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.8	1.2	2.0		
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	0.0	0.0	0.0	0.0		
0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6		
2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8		
3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8		
4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8		



'89407
 ENV-BXX-LED-E1-SLL-ULG-CWB

TION (continued):

295°	305°	315°	325°	332.5°	335°	345°	355°	360°
5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9
20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2
27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6
29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0
35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6
37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2
43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6

(END OF REPORT)