

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: P89427

Luminaire Tested: **ENV-CXX-LED-E1-GZW-ULG-CWB**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P89427
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-CXX-LED-E1-GZW-ULG-CWB
Description: ENTRI LED LUMINAIRE WITH UPLIGHT, EMERGENCY MODE
LIGHTBARS WITH AccuLED OPTICS - WALL GRAZER WIDE
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1219 lumens
Efficiency: N/A
Efficacy: 221.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type I - Medium - Semi-Cutoff
BUG Rating: B1 - 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



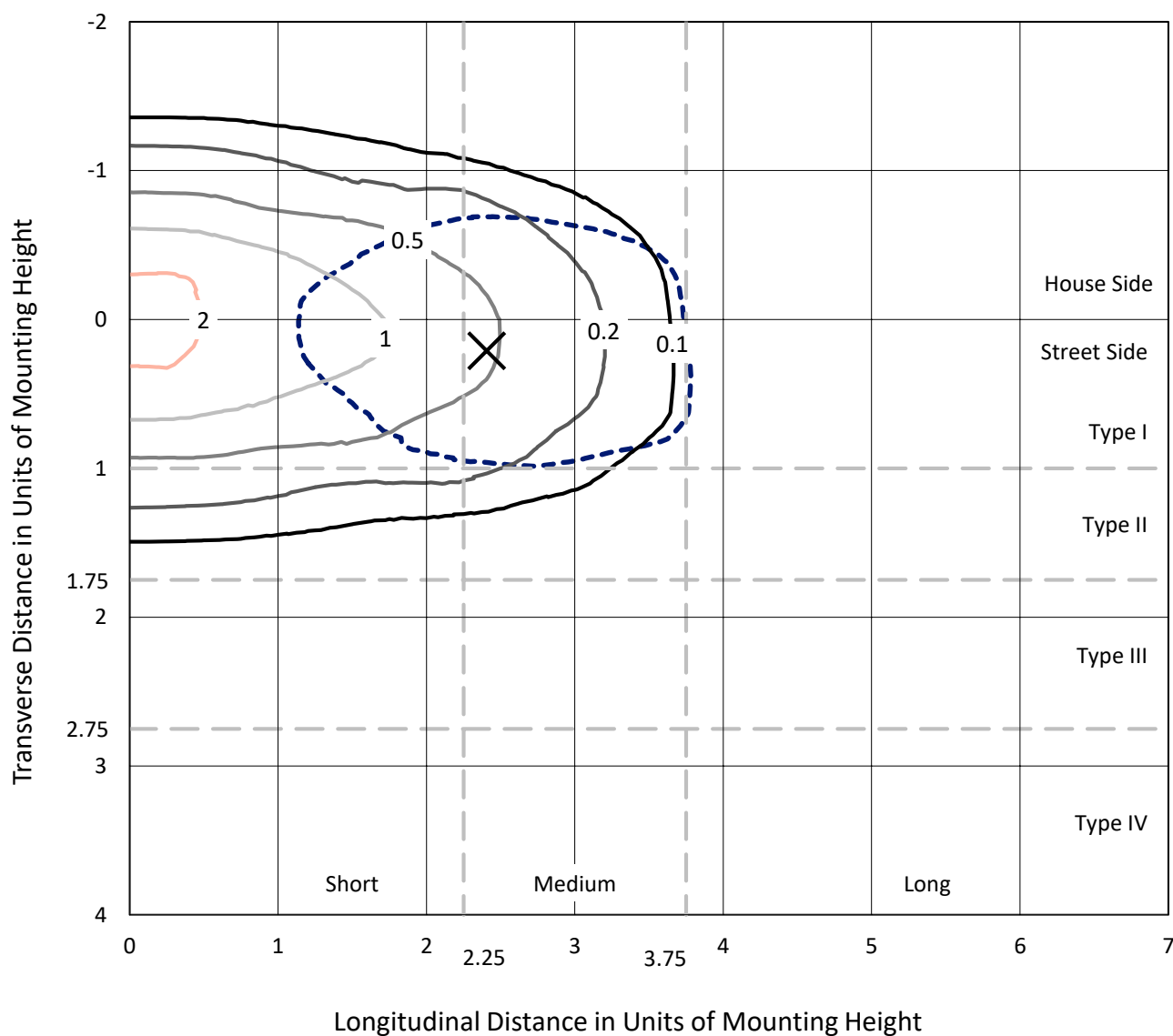
REPORT NUMBER: P89427

CATALOG NUMBER: ENV-CXX-LED-E1-GZW-ULG-CWB

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

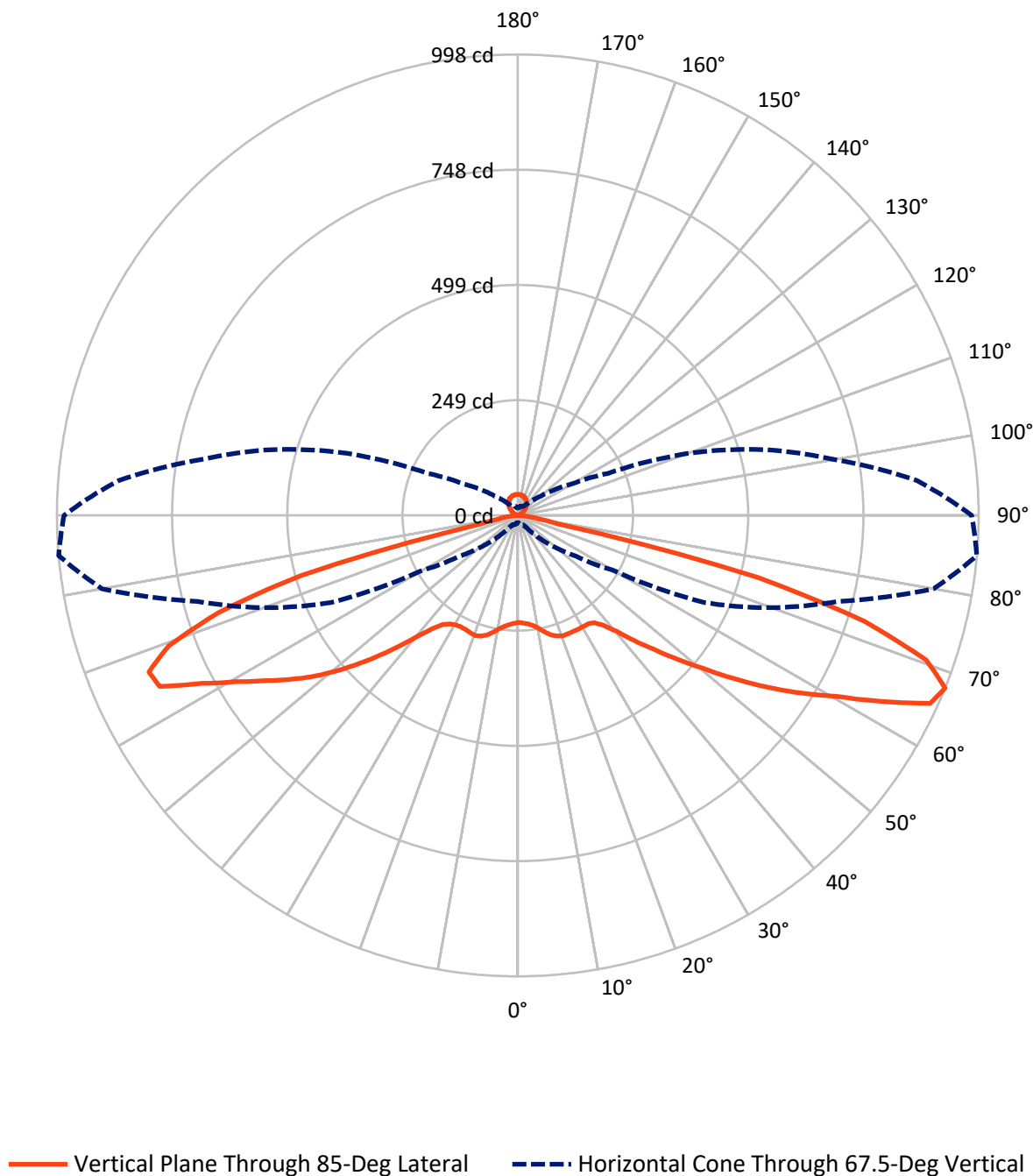


Based on 10 foot mounting height. Maximum calculated value = 2.4 fc
 Type I - Medium - Semi-Cutoff

REPORT NUMBER: P89427

CATALOG NUMBER: ENV-CXX-LED-E1-GZW-ULG-CWB

Luminous Intensity Polar Plot



REPORT NUMBER: P89427

CATALOG NUMBER: ENV-CXX-LED-E1-GZW-ULG-CWB

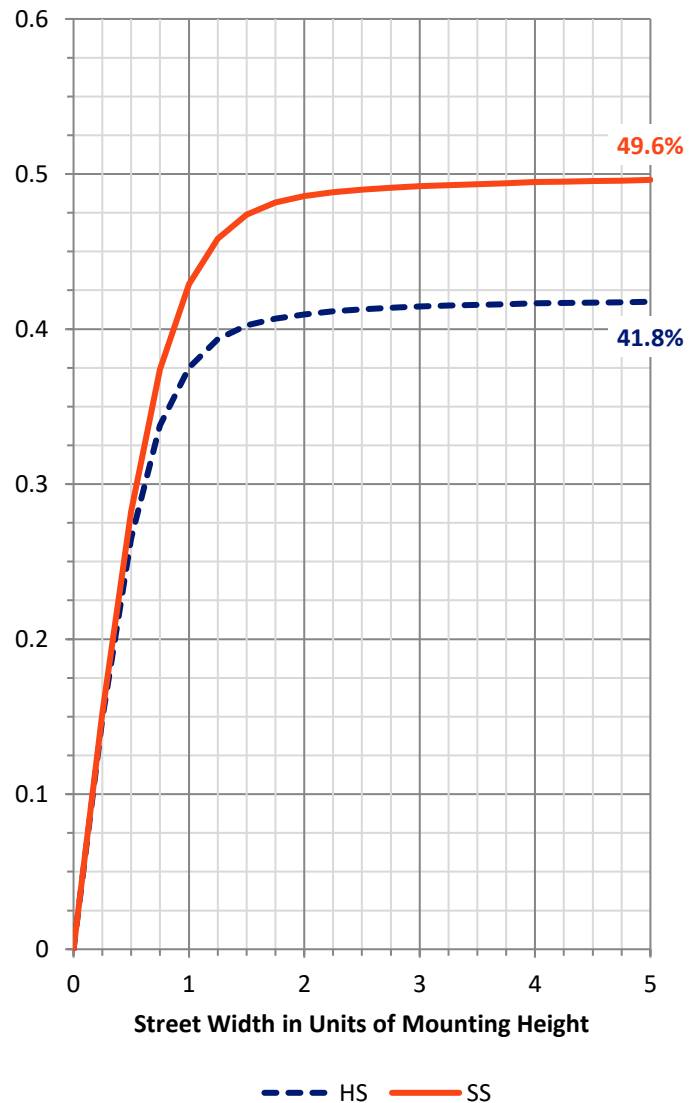
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	512.0	51.1	563.1
	% Fixture	42.0	4.2	46.2
Street Side	Lumens	604.8	51.1	655.9
	% Fixture	49.6	4.2	53.8
Total	Lumens	1116.8	102.1	1219.0
	% Fixture	91.6	8.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.6	1.9
10°-20°	70.8	5.8
20°-30°	115.1	9.4
30°-40°	145.2	11.9
40°-50°	180.6	14.8
50°-60°	217.5	17.8
60°-70°	238.4	19.6
70°-80°	115.8	9.5
80°-90°	10.8	0.9
90°-100°	0.4	0.0
100°-110°	4.0	0.3
110°-120°	8.2	0.7
120°-130°	13.9	1.1
130°-140°	19.4	1.6
140°-150°	21.2	1.7
150°-160°	18.4	1.5
160°-170°	12.4	1.0
170°-180°	4.3	0.4
0°-90°	1116.8	91.6
0°-180°	1219.0	100.0

Coefficient of Utilization



REPORT NUMBER: P89427

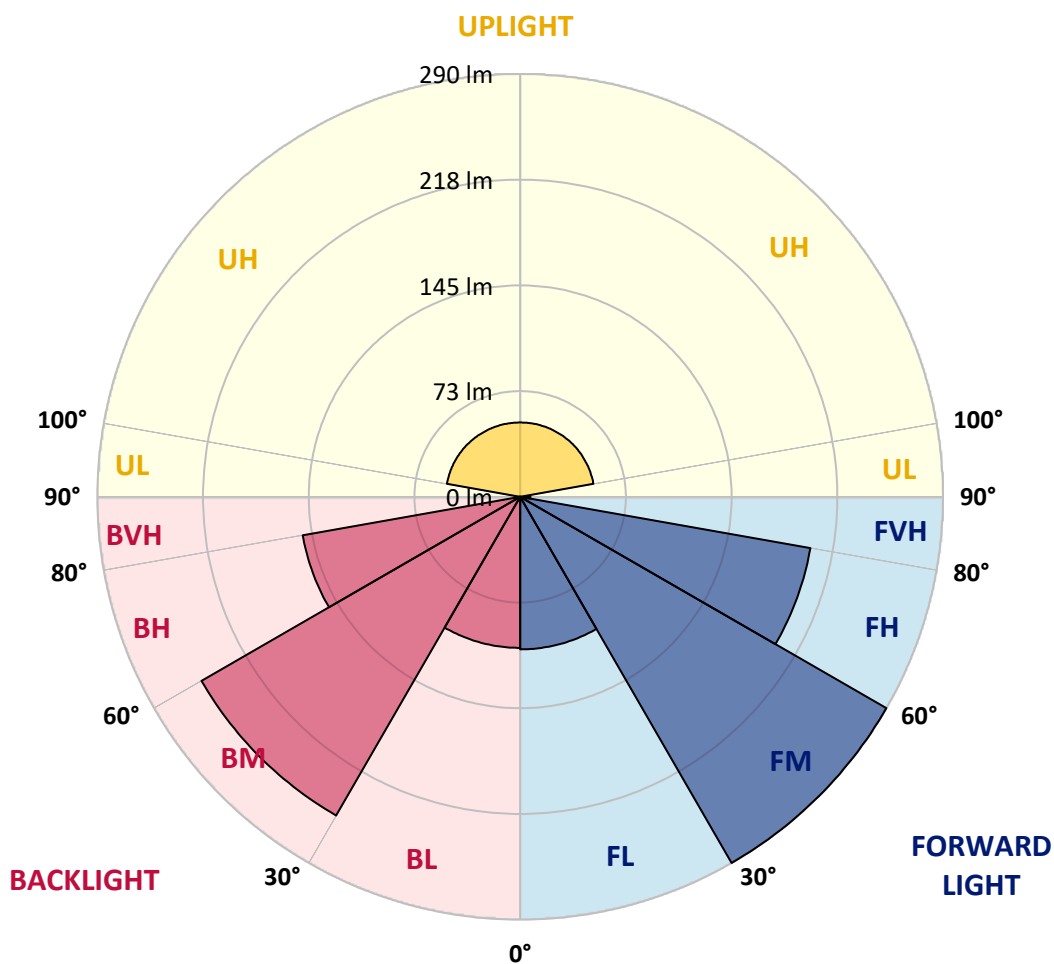
CATALOG NUMBER: ENV-CXX-LED-E1-GZW-ULG-CWB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	104.8	8.6			
FM	(30°-60°)	290.5	23.8			
FH	(60°-80°)	202.5	16.6			G0/660
FVH	(80°-90°)	7.1	0.6			G0/10
BL	(0°-30°)	103.8	8.5	B0/110		
BM	(30°-60°)	252.8	20.7	B1/1000		
BH	(60°-80°)	151.7	12.4	B1/500		G1/500
BVH	(80°-90°)	3.7	0.3			G0/10
UL	(90°-100°)	0.4	0.0		U1/10	
UH	(100°-180°)	51.1	4.2		U3/500	

BUG Rating: B1-U3-G1

Type I Medium



REPORT NUMBER: P89427

CATALOG NUMBER: ENV-CXX-LED-E1-GZW-ULG-CWB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	231.5	231.5	231.5	231.5	231.5	231.5	231.5	231.5	231.5	231.5	231.5
2.5°	228.9	229.5	229.5	229.5	230.2	230.8	229.9	231.2	231.2	231.5	231.8
5°	229.2	230.2	230.2	229.9	230.8	231.5	231.2	232.8	233.4	233.4	234.4
7.5°	229.9	230.2	230.5	230.2	231.5	231.8	232.5	234.1	235.7	236.7	237.3
10°	231.8	231.2	232.1	231.8	233.1	233.4	234.4	236.0	238.3	239.9	240.9
12.5°	231.8	230.8	231.8	232.1	233.4	235.1	235.1	237.0	240.2	242.8	245.1
15°	231.8	231.2	231.8	232.5	234.4	235.4	236.0	238.3	241.2	245.7	248.3
17.5°	232.8	233.1	233.4	234.4	236.7	238.0	239.9	241.9	244.8	250.3	252.5
20°	231.2	232.1	232.8	235.1	237.6	240.9	244.4	248.0	250.9	255.4	257.7
22.5°	227.0	228.9	229.2	232.8	236.7	240.9	247.4	252.5	256.4	260.0	261.0
25°	219.8	222.1	223.7	227.9	233.4	239.6	247.7	254.8	259.3	261.9	262.9
27.5°	210.4	212.1	214.0	218.5	225.3	235.1	246.4	255.1	259.7	262.9	264.5
30°	197.8	199.1	201.4	205.9	213.0	224.0	237.6	249.9	258.7	264.5	266.8
32.5°	182.9	184.5	186.8	191.7	199.1	210.1	223.4	237.3	251.2	264.5	269.7
35°	166.1	168.0	170.6	176.8	185.2	195.6	208.5	223.1	238.3	258.4	271.6
37.5°	152.2	153.8	157.0	162.9	172.2	183.2	195.9	210.1	226.3	248.0	269.0
40°	139.5	141.5	144.7	150.9	161.2	172.9	185.5	200.4	216.3	238.0	263.5
42.5°	127.2	128.9	132.1	138.6	149.3	163.2	176.1	192.0	208.8	229.9	256.4
45°	114.9	115.9	118.8	125.3	135.3	148.6	164.1	183.2	202.4	224.7	254.2
47.5°	102.6	103.6	105.9	111.4	121.4	135.0	148.9	168.7	192.6	220.2	251.6
50°	91.6	92.3	94.9	99.7	107.8	119.1	133.1	151.2	173.9	206.6	248.0
52.5°	79.3	80.3	82.9	87.4	94.9	105.9	118.2	133.1	154.8	185.2	233.8
55°	65.7	66.7	69.3	74.1	81.3	91.6	103.6	117.8	136.3	162.5	207.5
57.5°	49.2	50.8	53.4	58.3	65.4	76.1	88.1	103.3	121.4	143.1	178.4
60°	33.0	34.3	36.9	41.4	47.9	58.3	69.9	85.8	105.5	128.2	155.1
62.5°	23.0	23.3	25.6	29.1	33.0	40.1	49.9	66.0	87.7	112.0	139.5
65°	17.8	18.5	20.1	23.3	25.6	28.8	33.7	46.9	67.7	93.9	124.3
67.5°	15.5	16.2	17.8	19.7	21.0	22.3	24.0	31.1	48.6	75.8	110.1
70°	14.2	14.6	15.9	17.2	18.1	18.5	20.1	26.5	38.5	54.4	81.6
72.5°	13.0	13.6	14.2	15.2	15.9	16.2	17.5	22.3	28.8	37.6	51.2
75°	11.3	11.7	12.6	13.6	14.2	14.2	14.9	17.2	18.8	23.6	33.3
77.5°	9.7	10.0	11.0	11.7	13.6	12.6	12.3	13.6	14.6	17.2	22.7
80°	8.4	9.1	9.7	10.4	13.0	11.0	10.0	11.3	12.0	13.9	17.2
82.5°	7.4	7.8	8.1	8.7	12.6	9.4	8.1	9.4	10.7	10.7	13.0
85°	5.5	6.2	6.2	6.8	8.1	7.4	5.8	6.8	7.4	7.4	9.4
87.5°	2.6	2.6	2.6	2.6	1.9	2.9	2.6	3.2	3.6	2.9	3.9
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
110°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8

REPORT NUMBER: P89427

CATALOG NUMBER: ENV-CXX-LED-E1-GZW-ULG-CWB

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
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: P89427

CATALOG NUMBER: ENV-CXX-LED-E1-GZW-ULG-CWB

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	231.5	231.5	231.5	231.5	231.5	231.5	231.5	231.5	231.5	231.5	231.5
2.5°	232.1	232.8	232.8	233.8	234.4	233.1	233.4	236.0	233.8	234.1	235.7
5°	234.7	235.7	235.4	236.3	237.0	235.7	236.0	238.6	237.3	237.3	239.9
7.5°	238.0	239.6	239.6	240.2	241.5	240.9	240.6	242.5	241.9	241.9	243.8
10°	242.5	244.4	246.4	247.0	249.0	248.3	248.6	249.6	249.3	248.3	250.3
12.5°	247.0	250.9	254.2	255.4	258.0	258.0	258.7	259.3	258.7	257.1	257.1
15°	250.9	255.4	260.3	263.2	266.1	266.1	268.1	268.4	267.4	265.2	265.2
17.5°	254.2	258.4	264.5	268.7	271.6	273.3	274.6	275.5	273.3	270.7	271.0
20°	257.4	260.6	265.8	270.7	274.2	276.2	278.4	278.8	275.8	272.6	274.2
22.5°	259.7	260.0	263.5	269.0	273.9	275.2	278.4	279.1	273.9	271.6	273.3
25°	262.6	261.6	262.2	266.5	271.0	273.9	278.4	278.4	271.6	268.7	271.6
27.5°	264.8	264.8	265.2	264.8	270.3	273.3	279.1	278.8	270.7	269.0	273.9
30°	267.4	269.0	269.0	267.8	270.7	272.9	279.1	280.1	272.3	273.6	279.7
32.5°	272.6	273.3	272.9	272.0	272.0	271.6	279.7	282.0	277.1	280.7	286.9
35°	278.1	279.4	278.4	276.5	278.4	274.6	285.2	292.4	286.5	292.0	296.2
37.5°	281.3	285.6	287.8	285.9	289.4	288.8	301.7	308.9	306.9	308.9	308.2
40°	283.9	294.6	300.5	301.7	310.8	319.6	330.6	340.9	337.4	332.5	325.7
42.5°	285.9	303.4	315.7	320.8	343.5	363.6	370.7	379.4	377.8	363.3	344.5
45°	285.2	312.4	331.2	348.0	379.8	410.2	414.1	421.9	422.8	396.6	365.2
47.5°	289.4	321.8	351.0	378.5	421.2	460.7	464.9	469.1	470.8	433.8	390.1
50°	293.3	335.4	372.0	408.6	462.0	510.6	521.3	521.6	519.0	470.4	415.1
52.5°	296.9	351.6	395.3	436.1	504.7	565.9	587.0	584.1	567.6	507.0	440.3
55°	289.8	366.8	420.2	463.3	546.2	626.2	657.2	651.1	611.9	540.0	464.3
57.5°	258.4	381.4	440.6	486.6	581.2	686.4	726.5	716.8	656.9	570.8	486.9
60°	222.4	367.5	463.0	511.2	620.3	748.9	795.8	789.3	709.4	606.1	508.0
62.5°	182.3	318.6	488.2	540.4	663.4	824.9	887.4	884.5	774.4	648.5	541.7
65°	164.1	273.9	491.8	568.2	701.3	903.9	981.0	972.6	859.3	689.9	555.9
67.5°	153.1	237.0	446.1	583.7	718.4	914.0	997.8	982.6	867.4	695.8	550.4
70°	121.4	186.5	339.0	534.9	659.2	859.6	938.3	920.5	807.1	633.3	480.5
72.5°	73.8	118.5	215.3	428.0	554.3	746.6	784.8	760.8	681.2	531.6	368.8
75°	48.9	69.9	115.9	283.6	423.8	555.3	538.1	500.2	486.9	406.3	238.6
77.5°	34.3	53.4	68.0	118.2	123.4	99.1	89.7	86.4	81.3	75.8	63.5
80°	24.6	42.1	46.3	72.5	56.7	47.6	46.6	45.7	41.4	36.6	43.7
82.5°	19.7	33.3	35.0	57.0	41.1	32.7	32.4	32.7	29.5	25.3	31.7
85°	14.9	26.2	22.7	34.0	22.3	15.9	14.6	14.6	12.0	10.4	13.0
87.5°	5.8	8.4	14.2	20.4	11.0	1.6	2.9	0.6	0.3	0.3	0.3
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
110°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8

REPORT NUMBER: P89427

CATALOG NUMBER: ENV-CXX-LED-E1-GZW-ULG-CWB

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
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: P89427

CATALOG NUMBER: ENV-CXX-LED-E1-GZW-ULG-CWB

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	231.5	231.5	231.5	231.5	231.5	231.5	231.5	231.5	231.5	231.5	231.5
2.5°	236.3	235.4	234.4	234.7	233.8	234.1	235.1	232.8	232.5	233.1	233.1
5°	239.9	239.6	237.6	237.0	236.3	237.3	237.3	235.4	234.1	235.1	235.4
7.5°	243.5	242.8	241.5	240.6	239.9	240.9	239.9	238.9	237.3	237.6	238.3
10°	248.6	248.6	246.7	245.7	244.8	244.8	244.1	241.9	240.6	240.2	240.6
12.5°	256.7	255.8	253.2	251.6	249.9	248.6	247.4	244.4	242.8	242.2	242.2
15°	263.9	262.9	259.7	257.4	255.8	252.9	251.2	248.0	245.1	242.8	241.2
17.5°	269.7	269.0	266.1	263.9	262.2	258.4	255.1	250.3	245.1	240.9	237.6
20°	273.9	274.6	272.3	271.3	268.1	262.9	256.7	249.6	242.2	236.3	231.2
22.5°	273.9	277.1	277.1	275.2	270.3	263.9	255.8	246.1	235.7	228.3	222.1
25°	274.9	278.8	278.8	276.2	269.7	261.9	250.9	239.3	226.6	217.9	210.8
27.5°	278.1	279.4	277.5	273.6	266.1	256.4	242.5	229.2	215.3	204.6	197.2
30°	282.3	280.7	276.5	269.4	259.0	246.7	231.2	215.9	201.7	190.4	183.2
32.5°	286.2	282.0	275.2	264.5	249.6	234.1	216.9	202.4	189.1	177.4	169.0
35°	292.7	285.6	275.8	259.7	239.6	221.8	205.6	191.3	177.1	164.1	155.4
37.5°	301.7	290.1	275.5	254.8	231.2	212.7	196.5	181.6	166.4	153.1	143.8
40°	313.1	296.2	275.8	249.3	224.7	204.9	187.1	170.9	155.4	142.5	131.4
42.5°	325.4	303.0	277.1	245.7	218.9	195.2	175.5	158.0	141.5	128.2	118.2
45°	340.3	313.1	279.4	242.5	210.4	181.6	158.6	141.8	128.2	117.2	107.2
47.5°	358.7	324.7	282.6	237.0	194.6	162.9	142.8	128.9	116.6	105.9	96.2
50°	380.4	338.7	283.6	222.4	172.2	146.3	129.2	116.2	104.3	93.2	84.5
52.5°	402.1	349.7	275.8	193.3	153.8	132.4	115.6	102.3	90.3	79.0	69.9
55°	424.1	354.5	249.6	169.3	139.9	120.1	102.0	87.1	74.1	63.1	54.4
57.5°	439.3	348.0	205.9	154.1	127.6	106.5	87.1	69.6	57.3	46.9	39.5
60°	445.2	318.9	181.3	141.8	114.6	91.3	69.3	51.2	42.1	34.6	30.1
62.5°	449.7	266.1	168.4	128.5	99.4	73.8	51.2	37.2	31.1	29.5	27.2
65°	431.6	225.7	155.1	116.9	83.2	57.6	38.9	28.5	25.6	24.6	24.0
67.5°	392.1	214.7	137.3	96.8	64.8	47.3	34.3	25.3	22.7	21.7	21.7
70°	287.8	151.8	97.1	61.8	44.4	35.0	28.8	24.0	20.7	19.7	19.7
72.5°	184.5	93.6	60.5	42.4	30.1	23.0	20.4	19.4	17.8	17.2	17.2
75°	98.4	57.6	44.4	29.5	21.7	18.1	16.5	15.9	14.9	15.2	14.6
77.5°	57.6	40.8	34.6	22.7	17.5	15.2	13.9	13.0	12.0	12.6	11.7
80°	49.2	36.3	26.2	16.2	12.3	11.0	10.4	8.7	7.4	6.8	6.2
82.5°	36.3	26.2	16.8	9.4	6.2	5.2	4.5	3.9	2.9	1.9	1.6
85°	13.0	6.2	3.2	2.3	1.9	1.9	1.9	1.9	1.6	1.3	1.3
87.5°	0.3	0.6	0.6	1.0	1.3	1.6	1.6	1.6	1.6	1.0	1.0
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
110°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8

REPORT NUMBER: P89427
CATALOG NUMBER: ENV-CXX-LED-E1-GZW-ULG-CWB

REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°	
112.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	0°
115°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	2.5°
117.5°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	5°
120°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	7.5°
122.5°	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	10°
125°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	12.5°
127.5°	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	15°
130°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	17.5°
132.5°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	20°
135°	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	22.5°
137.5°	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	25°
140°	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	27.5°
142.5°	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	30°
145°	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	32.5°
147.5°	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35°
150°	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.5°
152.5°	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	40°
155°	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	42.5°
157.5°	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	45°
160°	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	47.5°
162.5°	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	50°
165°	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	52.5°
167.5°	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	55°
170°	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	57.5°
172.5°	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	60°
175°	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	62.5°
177.5°	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	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°
												110°

NUMBER: P89427

NUMBER: ENV-CXX-LED-E1-GZW-ULG-CWB

REPORT NUMBER: P

CATALOG NUMBER:

DISTRIBUTION (continued):

165°	170°	175°	180°
231.5	231.5	231.5	231.5
232.8	232.1	230.8	231.5
234.7	233.8	232.8	233.4
237.0	235.7	235.1	235.7
239.3	237.3	237.0	237.0
240.2	238.0	238.0	237.0
238.9	235.7	235.4	234.4
233.4	230.5	230.2	228.9
226.6	223.1	222.4	220.5
216.6	212.7	211.1	209.2
204.6	199.8	198.5	196.8
190.0	185.2	183.9	182.9
175.8	171.3	169.7	168.7
161.2	156.7	154.8	153.8
148.0	143.8	141.8	140.8
136.0	131.4	129.5	128.5
122.7	118.5	116.2	114.9
110.7	106.8	104.3	103.3
100.0	95.2	93.2	91.9
89.0	84.2	82.2	81.3
77.1	72.2	69.9	69.0
62.8	58.3	55.4	54.4
47.6	43.1	40.1	38.9
34.0	30.4	28.2	27.2
27.5	24.3	22.7	22.0
24.3	21.0	19.4	19.1
21.7	19.4	17.8	17.5
19.7	18.1	16.5	15.9
18.5	16.5	15.5	14.9
16.2	15.2	13.9	13.3
13.6	12.3	11.0	10.4
10.7	9.4	9.1	8.4
5.2	4.5	3.9	3.9
1.3	0.6	0.6	0.3
1.0	0.6	0.3	0.3
0.6	0.3	0.0	0.3
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.2	0.2	0.2	0.2
0.5	0.5	0.5	0.5
1.6	1.6	1.6	1.6
2.8	2.8	2.8	2.8
3.8	3.8	3.8	3.8
4.8	4.8	4.8	4.8
5.8	5.8	5.8	5.8

CANDELA DISTRIBUTION:

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

'89427

ENV-CXX-LED-E1-GZW-ULG-CWB

TION (continued):

170°	175°	180°
6.9	6.9	6.9
8.1	8.1	8.1
9.6	9.6	9.6
11.3	11.3	11.3
13.2	13.2	13.2
15.5	15.5	15.5
17.9	17.9	17.9
20.4	20.4	20.4
22.8	22.8	22.8
25.2	25.2	25.2
27.6	27.6	27.6
29.9	29.9	29.9
32.1	32.1	32.1
34.0	34.0	34.0
35.6	35.6	35.6
37.3	37.3	37.3
38.8	38.8	38.8
40.0	40.0	40.0
41.1	41.1	41.1
42.2	42.2	42.2
43.2	43.2	43.2
44.0	44.0	44.0
44.4	44.4	44.4
44.5	44.5	44.5
44.9	44.9	44.9
45.5	45.5	45.5
45.7	45.7	45.7
45.6	45.6	45.6

(END OF REPORT)