

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: P89307

Luminaire Tested: **ENC-BXX-LED-E1-GZW-ULG-CWB**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P89307
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: ENC-BXX-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: 1475.9 lumens
Efficiency: N/A
Efficacy: 268.3 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

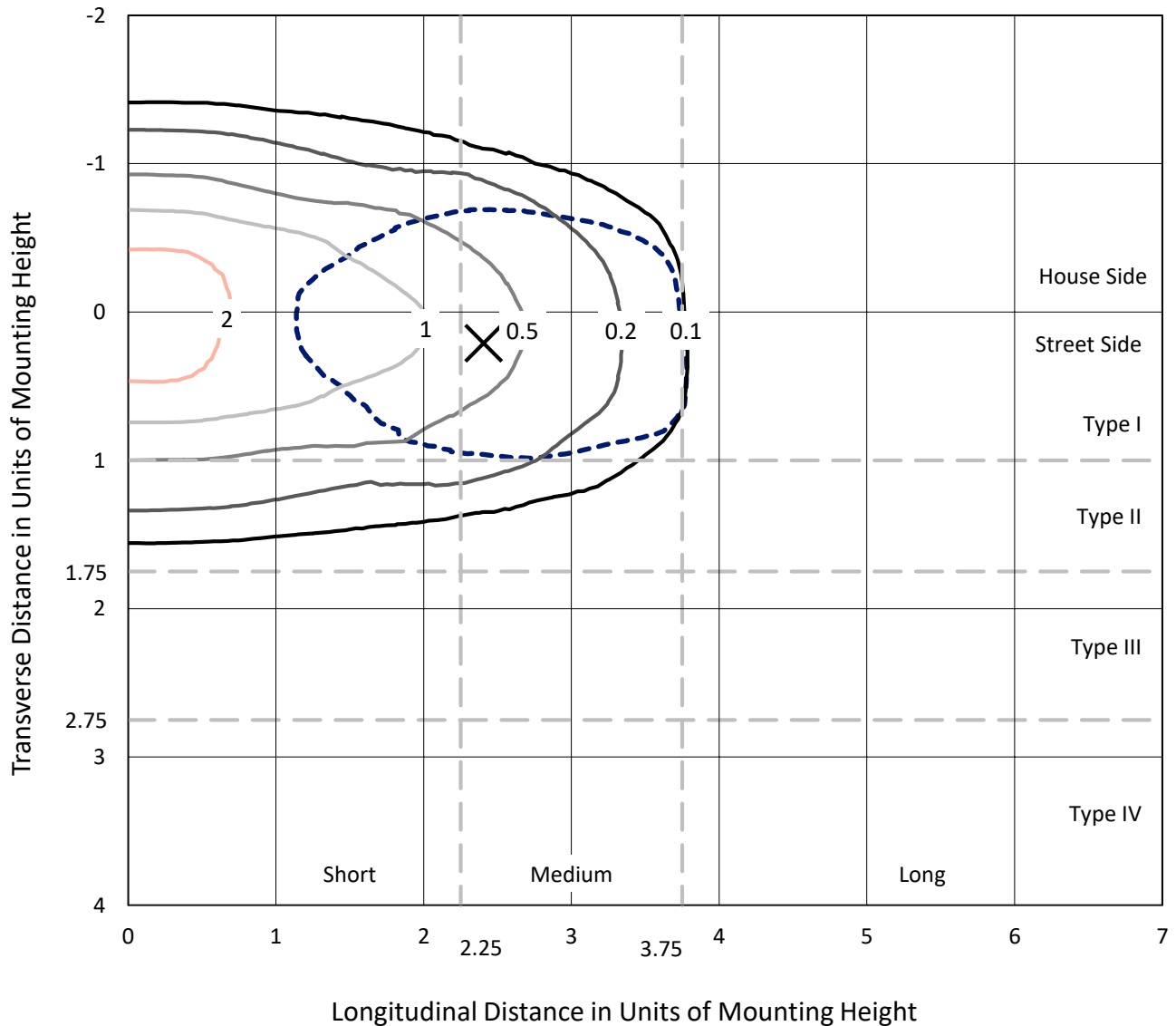
Input Watts (W): 5.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

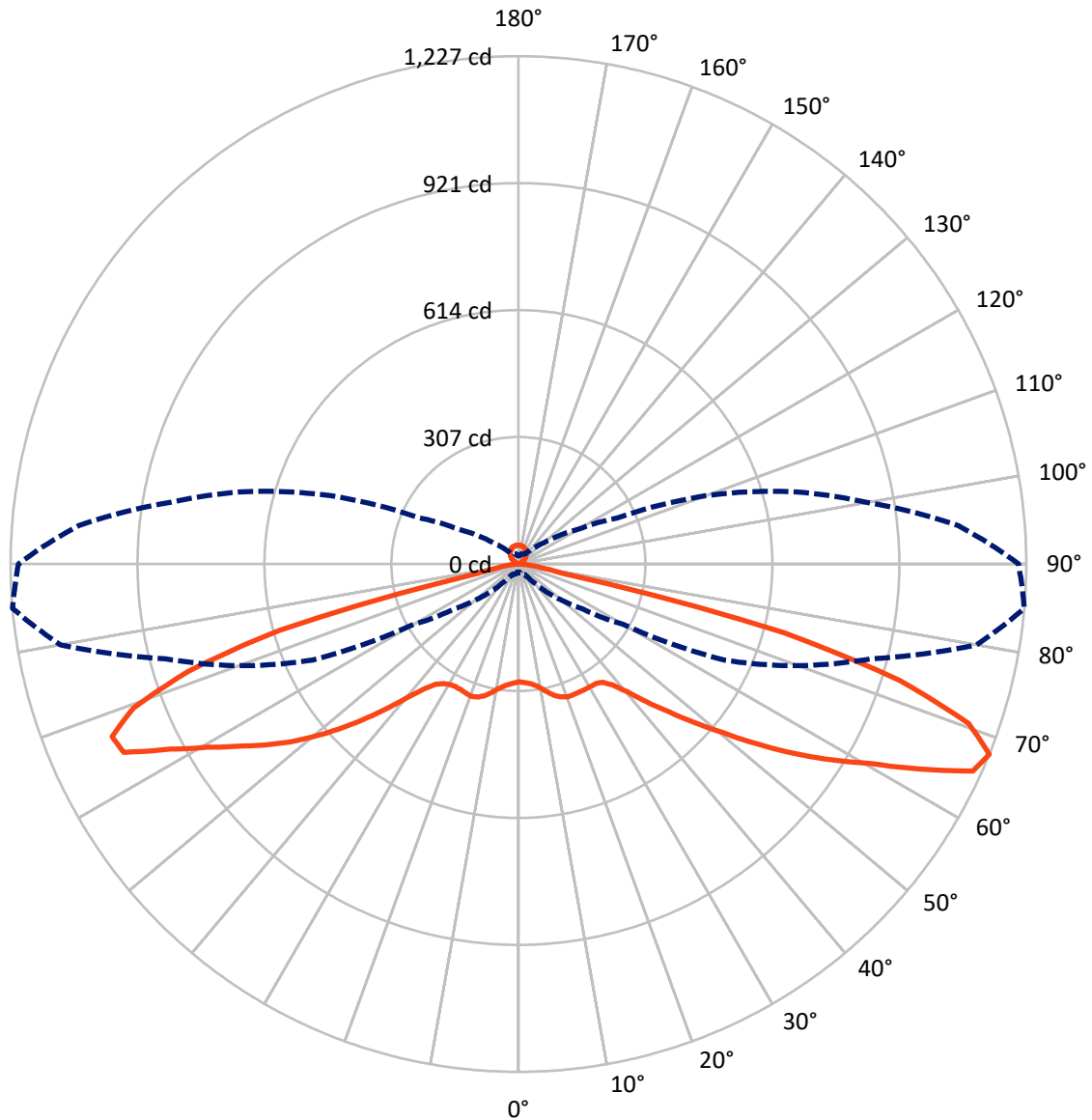
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3 fc
 Type I - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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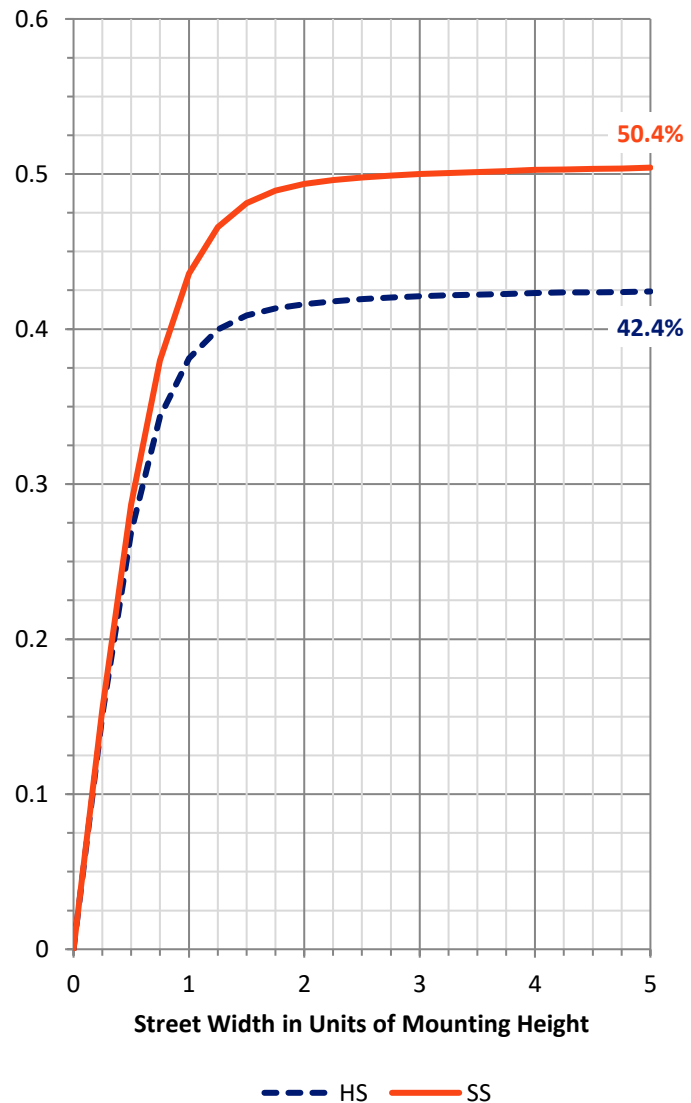
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	629.8	51.1	680.9
	% Fixture	42.7	3.5	46.1
Street Side	Lumens	743.9	51.1	795.0
	% Fixture	50.4	3.5	53.9
Total	Lumens	1373.7	102.1	1475.9
	% Fixture	93.1	6.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.8	1.9
10°-20°	87.1	5.9
20°-30°	141.5	9.6
30°-40°	178.6	12.1
40°-50°	222.1	15.1
50°-60°	267.5	18.1
60°-70°	293.3	19.9
70°-80°	142.4	9.6
80°-90°	13.3	0.9
90°-100°	0.4	0.0
100°-110°	4.0	0.3
110°-120°	8.2	0.6
120°-130°	13.9	0.9
130°-140°	19.4	1.3
140°-150°	21.2	1.4
150°-160°	18.4	1.2
160°-170°	12.4	0.8
170°-180°	4.3	0.3
0°-90°	1373.7	93.1
0°-180°	1475.9	100.0



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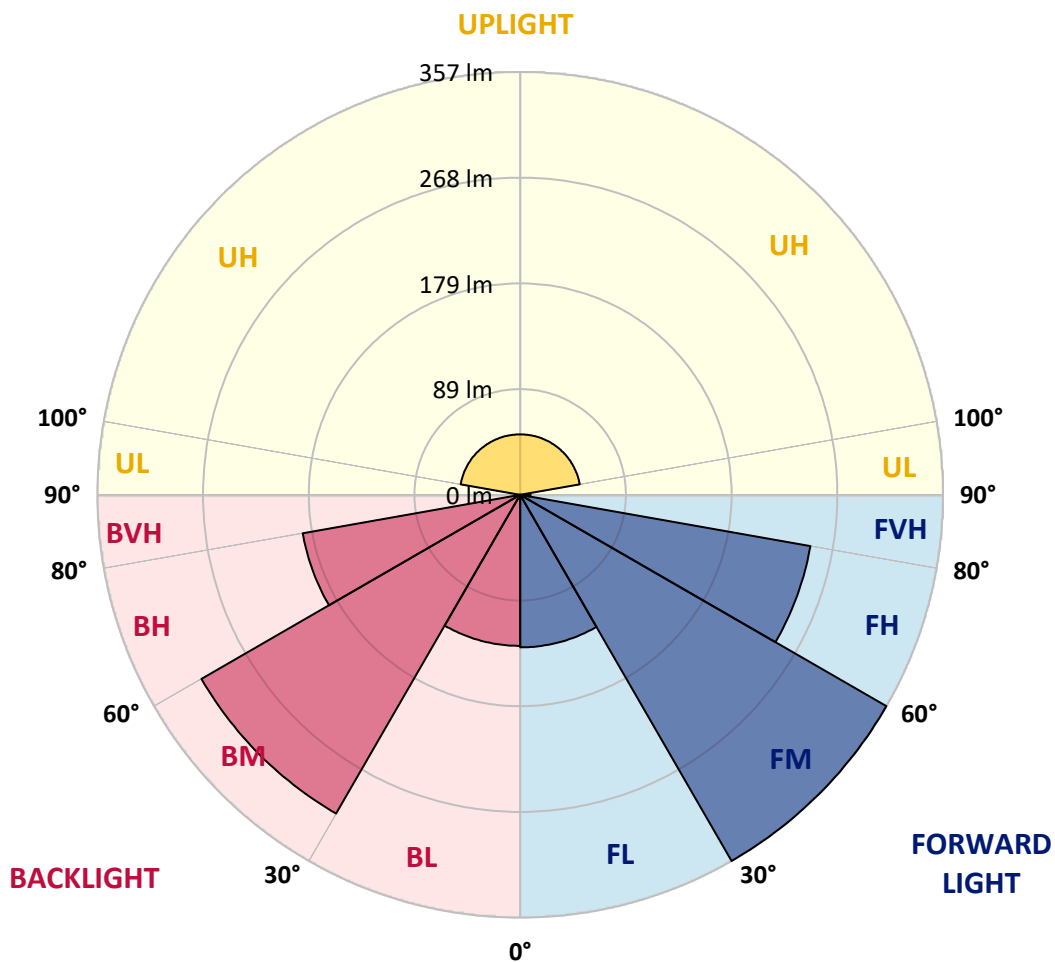
CATALOG NUMBER: ENC-BXX-LED-E1-GZW-ULG-CWB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	128.9	8.7			
FM (30°-60°)	357.3	24.2			
FH (60°-80°)	249.1	16.9			G0/660
FVH (80°-90°)	8.7	0.6			G0/10
BL (0°-30°)	127.6	8.6	B1/500		
BM (30°-60°)	311.0	21.1	B1/1000		
BH (60°-80°)	186.6	12.6	B1/500		G1/500
BVH (80°-90°)	4.6	0.3			G0/10
UL (90°-100°)	0.4	0.0		U1/10	
UH (100°-180°)	51.1	3.5		U3/500	

BUG Rating: B1-U3-G1

Type I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	284.7	284.7	284.7	284.7	284.7	284.7	284.7	284.7	284.7	284.7	284.7
2.5°	281.5	282.4	282.4	282.4	283.1	283.9	282.7	284.3	284.3	284.7	285.1
5°	281.9	283.1	283.1	282.7	283.9	284.7	284.3	286.3	287.1	287.1	288.3
7.5°	282.7	283.1	283.6	283.1	284.7	285.1	285.9	287.9	289.9	291.1	291.9
10°	285.1	284.3	285.5	285.1	286.7	287.1	288.3	290.3	293.1	295.1	296.3
12.5°	285.1	283.9	285.1	285.5	287.1	289.1	289.1	291.5	295.5	298.7	301.5
15°	285.1	284.3	285.1	285.9	288.3	289.5	290.3	293.1	296.7	302.3	305.4
17.5°	286.3	286.7	287.1	288.3	291.1	292.7	295.1	297.5	301.1	307.8	310.6
20°	284.3	285.5	286.3	289.1	292.3	296.3	300.6	305.0	308.6	314.2	317.0
22.5°	279.1	281.5	281.9	286.3	291.1	296.3	304.2	310.6	315.4	319.8	321.0
25°	270.4	273.2	275.2	280.3	287.1	294.7	304.7	313.4	319.0	322.2	323.4
27.5°	258.8	260.8	263.2	268.8	277.2	289.1	303.0	313.8	319.4	323.4	325.3
30°	243.3	244.9	247.7	253.3	262.0	275.6	292.3	307.4	318.2	325.3	328.1
32.5°	225.0	227.0	229.8	235.8	244.9	258.5	274.8	291.9	309.0	325.3	331.7
35°	204.3	206.7	209.9	217.4	227.8	240.5	256.5	274.4	293.1	317.8	334.1
37.5°	187.2	189.1	193.2	200.3	211.9	225.4	240.9	258.5	278.4	305.0	330.9
40°	171.6	174.0	178.0	185.6	198.3	212.6	228.2	246.5	266.0	292.7	324.2
42.5°	156.5	158.5	162.5	170.4	183.6	200.7	216.6	236.2	256.9	282.7	315.4
45°	141.4	142.6	146.1	154.1	166.4	182.8	201.9	225.4	248.9	276.4	312.6
47.5°	126.2	127.4	130.2	137.0	149.3	166.1	183.2	207.5	236.9	270.8	309.4
50°	112.7	113.5	116.7	122.6	132.6	146.5	163.7	186.0	213.8	254.1	305.0
52.5°	97.6	98.7	102.0	107.5	116.7	130.2	145.4	163.7	190.3	227.8	287.5
55°	80.8	82.0	85.2	91.2	99.9	112.7	127.4	144.9	167.6	199.9	255.3
57.5°	60.5	62.5	65.7	71.7	80.5	93.6	108.3	127.0	149.3	176.0	219.4
60°	40.6	42.2	45.4	51.0	58.9	71.7	86.0	105.5	129.8	157.7	190.8
62.5°	28.3	28.7	31.5	35.8	40.6	49.4	61.3	81.2	107.9	137.8	171.6
65°	21.9	22.7	24.7	28.7	31.5	35.5	41.4	57.8	83.2	115.5	152.9
67.5°	19.1	19.9	21.9	24.3	25.9	27.5	29.5	38.2	59.7	93.2	135.4
70°	17.5	17.9	19.5	21.1	22.3	22.7	24.7	32.7	47.4	66.9	100.4
72.5°	15.9	16.7	17.5	18.7	19.5	19.9	21.5	27.5	35.5	46.2	62.9
75°	13.9	14.3	15.5	16.7	17.5	17.5	18.3	21.1	23.1	29.1	41.0
77.5°	11.9	12.3	13.5	14.3	16.7	15.5	15.1	16.7	17.9	21.1	27.9
80°	10.4	11.1	11.9	12.8	15.9	13.5	12.3	13.9	14.7	17.1	21.1
82.5°	9.2	9.6	10.0	10.7	15.5	11.6	10.0	11.6	13.1	13.1	15.9
85°	6.8	7.6	7.6	8.4	10.0	9.2	7.2	8.4	9.2	9.2	11.6
87.5°	3.2	3.2	3.2	3.2	2.4	3.6	3.2	4.0	4.4	3.6	4.8
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



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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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	284.7	284.7	284.7	284.7	284.7	284.7	284.7	284.7	284.7	284.7	284.7
2.5°	285.5	286.3	286.3	287.5	288.3	286.7	287.1	290.3	287.5	287.9	289.9
5°	288.7	289.9	289.5	290.7	291.5	289.9	290.3	293.5	291.9	291.9	295.1
7.5°	292.7	294.7	294.7	295.5	297.1	296.3	295.9	298.3	297.5	297.5	299.9
10°	298.3	300.6	303.0	303.9	306.2	305.4	305.8	307.0	306.6	305.4	307.8
12.5°	303.9	308.6	312.6	314.2	317.4	317.4	318.2	319.0	318.2	316.2	316.2
15°	308.6	314.2	320.2	323.8	327.4	327.4	329.7	330.1	328.9	326.2	326.2
17.5°	312.6	317.8	325.3	330.5	334.1	336.1	337.7	338.9	336.1	332.9	333.3
20°	316.6	320.6	326.9	332.9	337.3	339.7	342.5	342.9	339.3	335.3	337.3
22.5°	319.4	319.8	324.2	330.9	336.9	338.5	342.5	343.3	336.9	334.1	336.1
25°	323.0	321.8	322.6	327.7	333.3	336.9	342.5	342.5	334.1	330.5	334.1
27.5°	325.7	325.7	326.2	325.7	332.5	336.1	343.3	342.9	332.9	330.9	336.9
30°	328.9	330.9	330.9	329.3	332.9	335.7	343.3	344.5	334.9	336.5	344.1
32.5°	335.3	336.1	335.7	334.5	334.5	334.1	344.1	346.8	340.9	345.3	352.8
35°	342.1	343.7	342.5	340.1	342.5	337.7	350.8	359.6	352.4	359.2	364.4
37.5°	346.1	351.2	354.0	351.6	356.0	355.2	371.2	379.9	377.5	379.9	379.1
40°	349.2	362.4	369.5	371.2	382.3	393.0	406.6	419.3	415.0	409.0	400.6
42.5°	351.6	373.1	388.3	394.6	422.5	447.2	456.0	466.7	464.7	446.8	423.7
45°	350.8	384.3	407.4	428.1	467.1	504.6	509.3	518.9	520.1	487.8	449.2
47.5°	356.0	395.8	431.7	465.5	518.1	566.7	571.9	577.0	579.0	533.6	479.9
50°	360.8	412.6	457.6	502.6	568.3	628.0	641.1	641.5	638.4	578.6	510.5
52.5°	365.2	432.5	486.2	536.4	620.8	696.1	722.0	718.4	698.1	623.6	541.6
55°	356.4	451.2	516.9	569.9	671.8	770.2	808.4	800.8	752.7	664.2	571.1
57.5°	317.8	469.1	542.0	598.5	714.8	844.2	893.6	881.7	808.0	702.1	598.9
60°	273.6	452.0	569.5	628.8	763.0	921.1	978.8	970.9	872.5	745.5	624.8
62.5°	224.2	391.8	600.5	664.7	816.0	1014.7	1091.5	1088.0	952.6	797.7	666.2
65°	201.9	336.9	604.9	698.9	862.6	1111.9	1206.6	1196.3	1056.9	848.6	683.8
67.5°	188.4	291.5	548.7	718.0	883.7	1124.2	1227.4	1208.6	1066.9	855.8	677.0
70°	149.3	229.4	416.9	657.9	810.8	1057.3	1154.1	1132.2	992.8	778.9	591.0
72.5°	90.8	145.8	264.8	526.5	681.8	918.3	965.3	935.8	837.9	653.9	453.6
75°	60.1	86.0	142.6	348.9	521.3	682.9	661.9	615.3	598.9	499.8	293.5
77.5°	42.2	65.7	83.6	145.4	151.7	121.9	110.3	106.3	99.9	93.2	78.1
80°	30.3	51.8	56.9	89.2	69.7	58.5	57.3	56.1	51.0	45.0	53.7
82.5°	24.3	41.0	43.0	70.1	50.6	40.2	39.8	40.2	36.2	31.0	39.0
85°	18.3	32.2	27.9	41.8	27.5	19.5	17.9	17.9	14.7	12.8	15.9
87.5°	7.2	10.4	17.5	25.1	13.5	2.0	3.6	0.8	0.4	0.4	0.4
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: P89307

CATALOG NUMBER: ENC-BXX-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



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CATALOG NUMBER: ENC-BXX-LED-E1-GZW-ULG-CWB

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	284.7	284.7	284.7	284.7	284.7	284.7	284.7	284.7	284.7	284.7	284.7
2.5°	290.7	289.5	288.3	288.7	287.5	287.9	289.1	286.3	285.9	286.7	286.7
5°	295.1	294.7	292.3	291.5	290.7	291.9	291.9	289.5	287.9	289.1	289.5
7.5°	299.5	298.7	297.1	295.9	295.1	296.3	295.1	293.9	291.9	292.3	293.1
10°	305.8	305.8	303.5	302.3	301.1	301.1	300.3	297.5	295.9	295.5	295.9
12.5°	315.8	314.6	311.4	309.4	307.4	305.8	304.2	300.6	298.7	297.9	297.9
15°	324.5	323.4	319.4	316.6	314.6	311.0	309.0	305.0	301.5	298.7	296.7
17.5°	331.7	330.9	327.4	324.5	322.6	317.8	313.8	307.8	301.5	296.3	292.3
20°	336.9	337.7	334.9	333.7	329.7	323.4	315.8	307.0	297.9	290.7	284.3
22.5°	336.9	340.9	340.9	338.5	332.5	324.5	314.6	302.7	289.9	280.8	273.2
25°	338.1	342.9	342.9	339.7	331.7	322.2	308.6	294.3	278.8	268.0	259.2
27.5°	342.1	343.7	341.3	336.5	327.4	315.4	298.3	281.9	264.8	251.7	242.5
30°	347.3	345.3	340.1	331.3	318.6	303.5	284.3	265.6	248.1	234.1	225.4
32.5°	352.0	346.8	338.5	325.3	307.0	287.9	266.8	248.9	232.6	218.2	207.9
35°	360.0	351.2	339.3	319.4	294.7	272.8	252.9	235.3	217.8	201.9	191.1
37.5°	371.2	356.8	338.9	313.4	284.3	261.6	241.7	223.4	204.7	188.4	176.8
40°	385.1	364.4	339.3	306.6	276.4	252.1	230.2	210.3	191.1	175.2	161.7
42.5°	400.2	372.7	340.9	302.3	269.2	240.1	215.9	194.3	174.0	157.7	145.4
45°	418.5	385.1	343.7	298.3	258.8	223.4	195.1	174.4	157.7	144.2	131.8
47.5°	441.2	399.4	347.7	291.5	239.3	200.3	175.6	158.5	143.4	130.2	118.3
50°	467.9	416.6	348.9	273.6	211.9	180.0	158.9	143.0	128.2	114.7	103.9
52.5°	494.6	430.1	339.3	237.7	189.1	162.9	142.2	125.8	111.1	97.2	86.0
55°	521.7	436.0	307.0	208.3	172.0	147.7	125.4	107.1	91.2	77.6	66.9
57.5°	540.4	428.1	253.3	189.6	156.9	131.0	107.1	85.6	70.5	57.8	48.6
60°	547.5	392.3	223.0	174.4	141.0	112.3	85.2	62.9	51.8	42.6	37.0
62.5°	553.1	327.4	207.1	158.1	122.3	90.8	62.9	45.8	38.2	36.2	33.4
65°	530.8	277.6	190.8	143.8	102.3	70.9	47.8	35.0	31.5	30.3	29.5
67.5°	482.2	264.0	168.8	119.1	79.6	58.1	42.2	31.0	27.9	26.7	26.7
70°	354.0	186.8	119.5	76.1	54.6	43.0	35.5	29.5	25.5	24.3	24.3
72.5°	227.0	115.1	74.5	52.2	37.0	28.3	25.1	23.9	21.9	21.1	21.1
75°	121.1	70.9	54.6	36.2	26.7	22.3	20.3	19.5	18.3	18.7	17.9
77.5°	70.9	50.2	42.6	27.9	21.5	18.7	17.1	15.9	14.7	15.5	14.3
80°	60.5	44.6	32.2	19.9	15.1	13.5	12.8	10.7	9.2	8.4	7.6
82.5°	44.6	32.2	20.7	11.6	7.6	6.4	5.6	4.8	3.6	2.4	2.0
85°	15.9	7.6	4.0	2.8	2.4	2.4	2.4	2.4	2.0	1.6	1.6
87.5°	0.4	0.8	0.8	1.2	1.6	2.0	2.0	2.0	2.0	1.2	1.2
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



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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°

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DISTRIBUTION (continued):

165°	170°	175°	180°
284.7	284.7	284.7	284.7
286.3	285.5	283.9	284.7
288.7	287.5	286.3	287.1
291.5	289.9	289.1	289.9
294.3	291.9	291.5	291.5
295.5	292.7	292.7	291.5
293.9	289.9	289.5	288.3
287.1	283.6	283.1	281.5
278.8	274.4	273.6	271.2
266.4	261.6	259.7	257.3
251.7	245.7	244.1	242.1
233.8	227.8	226.2	225.0
216.2	210.7	208.7	207.5
198.3	192.7	190.3	189.1
182.0	176.8	174.4	173.2
167.3	161.7	159.3	158.1
150.9	145.8	143.0	141.4
136.2	131.4	128.2	127.0
123.1	117.1	114.7	113.1
109.5	103.5	101.1	99.9
94.8	88.8	86.0	84.8
77.2	71.7	68.1	66.9
58.5	53.0	49.4	47.8
41.8	37.4	34.6	33.4
33.9	29.9	27.9	27.1
29.9	25.9	23.9	23.5
26.7	23.9	21.9	21.5
24.3	22.3	20.3	19.5
22.7	20.3	19.1	18.3
19.9	18.7	17.1	16.3
16.7	15.1	13.5	12.8
13.1	11.6	11.1	10.4
6.4	5.6	4.8	4.8
1.6	0.8	0.8	0.4
1.2	0.8	0.4	0.4
0.8	0.4	0.0	0.4
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

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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)