

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:

Luminaire Tested: **ENV-SA1-740-U-SLL-ULG-XXB**

Issue Date: 3/30/2022

Test Information

Test Method: LM-79-08
Report Number: REPORT IS A COMBINATION OF REPORTS P400780 AND P226775
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1-740-U-SLL-ULG-XXB
Description: ENTRI LED LUMINAIRE WITH UPLIGHT
(1) 70 CRI, 4000K LIGHTSQUARE IN BATTERY OPERATION WITH 16 LEDS AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2455.9 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.1')
IES Classification: Type III - Short
BUG Rating: B0 - U5 - G1

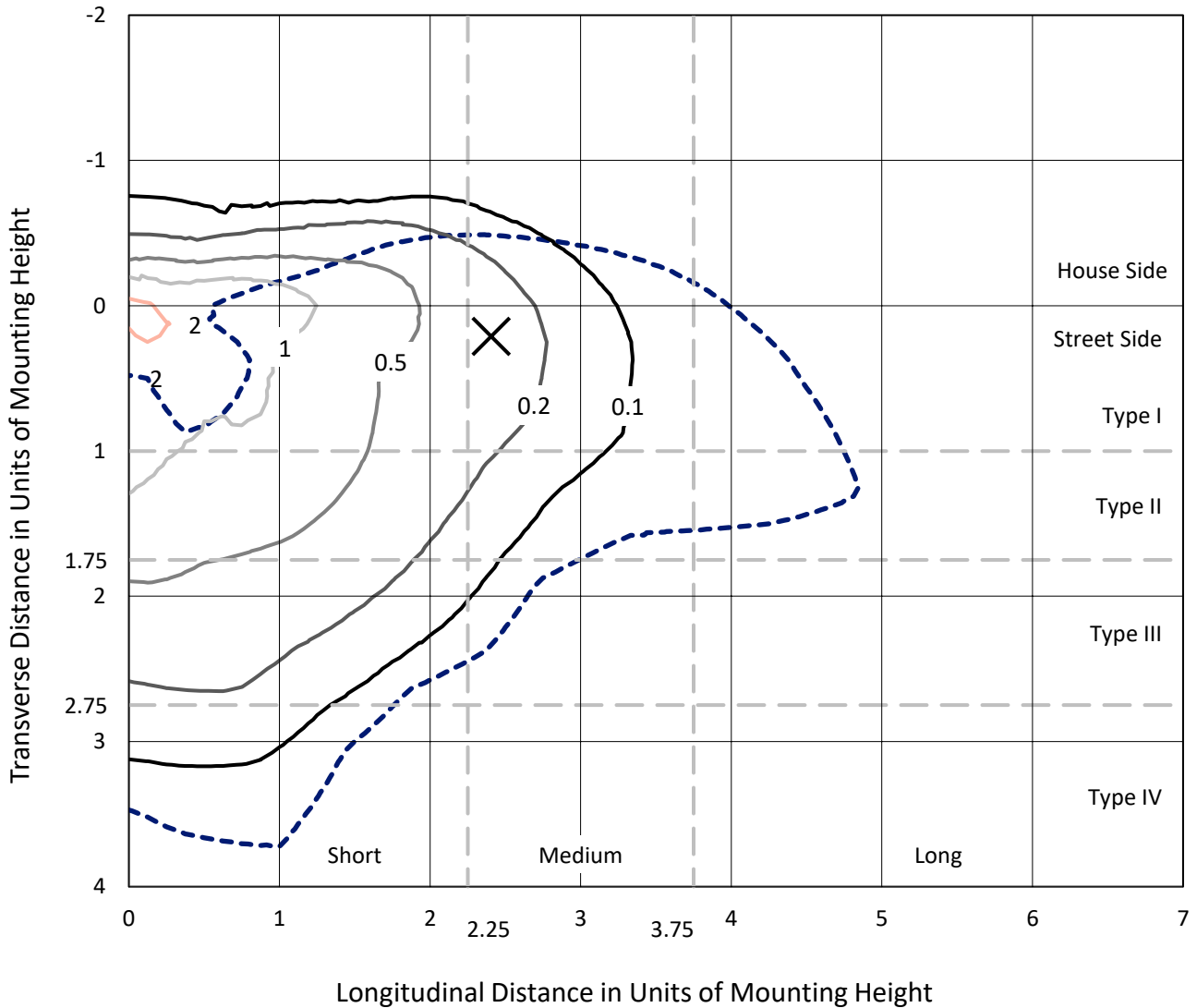
Input Watts (W): 29.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

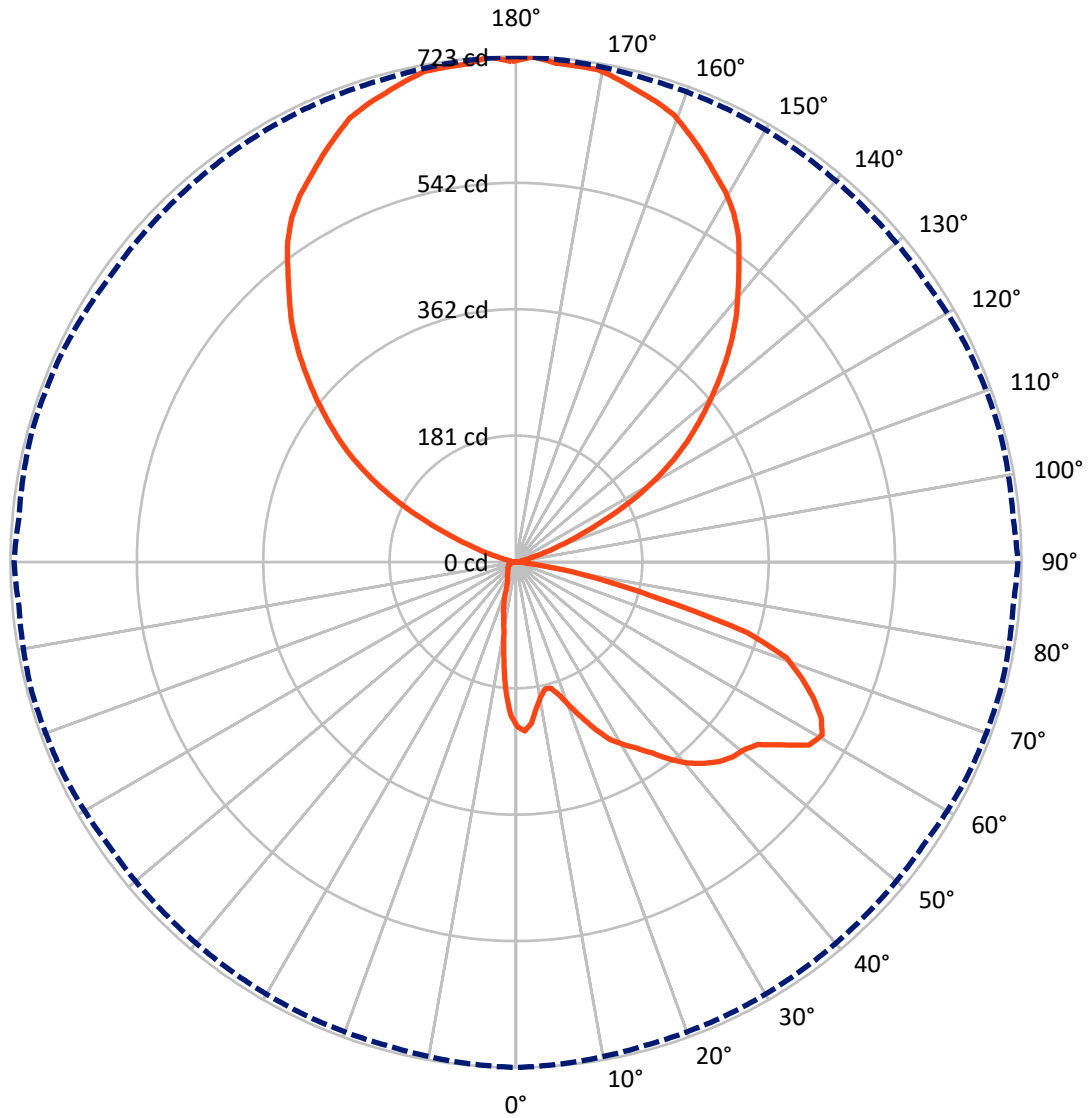
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 177.5-Deg Vertical

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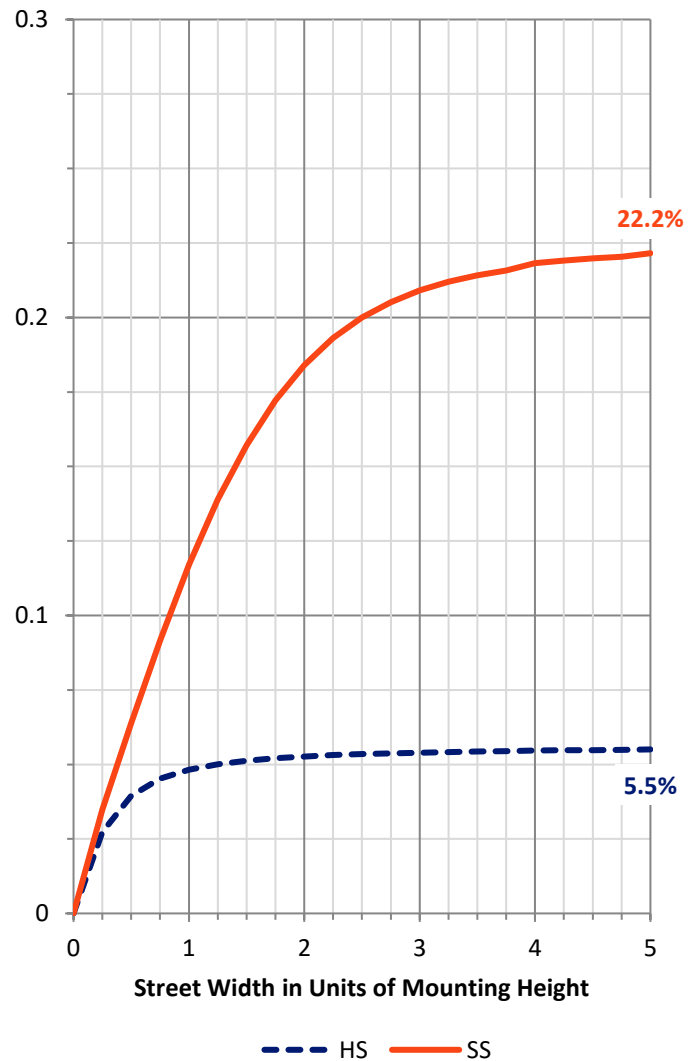
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	137.4	887.0	1024.4
	% Fixture	5.6	36.1	41.7
Street Side	Lumens	544.6	887.0	1431.5
	% Fixture	22.2	36.1	58.3
Total	Lumens	682.0	1773.9	2455.9
	% Fixture	27.8	72.2	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.9	0.7
10°-20°	35.3	1.4
20°-30°	49.4	2.0
30°-40°	69.6	2.8
40°-50°	96.4	3.9
50°-60°	135.5	5.5
60°-70°	165.6	6.7
70°-80°	97.3	4.0
80°-90°	14.9	0.6
90°-100°	8.4	0.3
100°-110°	58.7	2.4
110°-120°	169.9	6.9
120°-130°	279.4	11.4
130°-140°	344.6	14.0
140°-150°	352.5	14.4
150°-160°	297.0	12.1
160°-170°	195.5	8.0
170°-180°	67.8	2.8
0°-90°	682.0	27.8
0°-180°	2455.9	100.0

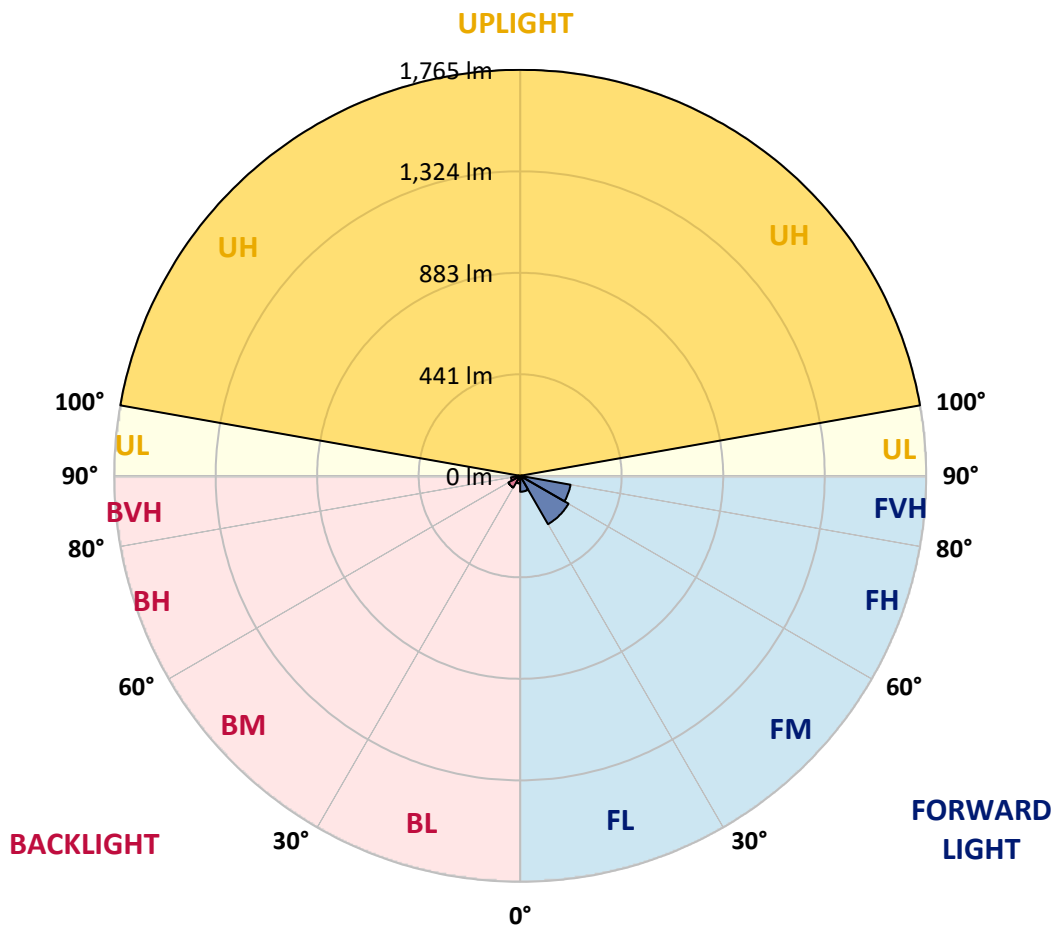


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	69.3	2.8			
FM (30°-60°)	242.4	9.9			
FH (60°-80°)	222.3	9.1			G0/660
FVH (80°-90°)	10.6	0.4			G1/100
BL (0°-30°)	33.3	1.4	B0/110		
BM (30°-60°)	59.1	2.4	B0/220		
BH (60°-80°)	40.7	1.7	B0/110		G0/110
BVH (80°-90°)	4.4	0.2			G0/10
UL (90°-100°)	8.4	0.3		U1/10	
UH (100°-180°)	1765.5	71.9		U5	

BUG Rating: B0-U5-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6
2.5°	242.1	241.0	244.7	250.2	253.9	256.6	257.4	257.3	256.6	254.5	250.1
5°	231.3	230.4	237.9	250.1	260.7	268.4	270.6	267.5	263.7	255.6	244.8
7.5°	210.9	212.5	222.1	239.2	256.3	268.5	271.5	266.6	258.8	242.2	224.1
10°	195.5	196.3	207.1	227.7	245.9	258.4	263.6	259.3	249.0	228.1	207.1
12.5°	186.0	186.7	197.2	216.3	235.7	245.5	247.0	246.9	238.4	218.1	193.8
15°	187.3	188.3	198.8	214.6	225.5	229.8	229.9	231.1	228.6	213.1	190.7
17.5°	200.0	200.0	210.1	219.6	217.1	214.0	216.3	218.5	222.9	216.1	197.1
20°	220.0	220.9	230.2	228.6	213.3	205.6	202.8	206.7	220.3	225.0	212.4
22.5°	241.8	244.1	253.8	241.8	212.6	197.7	194.6	198.8	220.6	239.0	233.3
25°	265.8	268.6	275.2	257.1	214.6	193.3	191.2	195.2	221.5	252.0	255.9
27.5°	287.7	287.9	294.4	270.0	219.7	193.7	190.2	195.4	223.9	262.2	275.9
30°	303.3	303.3	306.1	276.6	226.1	196.5	191.1	198.7	227.3	267.7	293.9
32.5°	317.5	318.3	316.9	283.5	232.1	200.4	193.2	205.2	232.7	272.3	307.9
35°	335.6	335.5	329.1	289.0	237.7	204.7	198.3	213.6	240.4	279.1	321.1
37.5°	358.0	356.9	343.4	293.9	244.5	212.0	208.1	225.0	250.9	287.1	337.9
40°	378.3	376.5	356.4	298.6	249.9	226.3	224.0	239.1	264.0	297.1	354.2
42.5°	394.0	391.4	367.5	301.8	258.0	248.7	250.6	264.6	277.3	306.0	364.4
45°	407.3	404.6	375.8	303.5	277.6	280.6	284.4	296.0	291.4	308.4	370.7
47.5°	416.9	412.4	379.5	308.3	304.1	317.8	329.7	330.5	311.4	308.3	374.5
50°	422.4	417.5	382.9	320.3	335.0	360.2	372.8	366.9	332.1	310.3	380.0
52.5°	433.7	428.6	397.0	339.7	366.5	403.0	409.8	400.3	353.6	320.5	391.0
55°	462.1	459.8	424.4	365.8	397.6	437.7	440.8	431.2	376.1	338.1	411.9
57.5°	494.3	489.2	461.5	398.5	427.3	464.8	469.7	456.5	399.6	362.9	435.3
60°	503.3	502.3	492.8	436.8	458.0	493.7	494.0	477.3	427.2	392.4	470.9
62.5°	490.1	493.3	505.9	472.2	483.7	513.1	510.4	492.9	456.0	439.3	514.2
65°	467.2	471.7	497.0	505.7	489.7	509.3	503.5	492.4	474.2	489.9	541.1
67.5°	439.7	442.1	471.6	522.3	468.9	467.1	464.3	459.3	467.0	525.8	545.7
70°	411.0	413.1	440.3	499.4	406.8	385.4	383.1	378.7	408.6	525.4	523.1
72.5°	346.5	345.1	370.3	416.9	310.6	281.6	301.1	291.5	330.6	472.0	466.0
75°	215.2	222.5	253.9	292.3	212.8	192.9	219.8	217.4	268.4	406.4	371.0
77.5°	131.1	132.6	150.3	182.2	128.2	133.7	141.3	156.2	199.0	329.5	258.6
80°	68.6	63.8	76.9	100.0	76.1	89.7	103.6	120.1	126.3	214.8	172.9
82.5°	19.8	19.7	26.0	41.9	36.1	44.1	52.3	75.4	82.8	127.7	118.4
85°	0.1	0.1	0.1	0.2	0.3	0.5	2.3	19.4	25.7	59.2	48.7
87.5°	0.0	0.0	0.1	0.2	0.2	0.4	0.7	0.9	1.1	1.3	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°	4.1	4.1	4.1	5.1	6.1	6.1	6.1	7.2	7.2	6.1	6.1
95°	5.1	5.1	5.1	6.1	7.2	7.2	7.2	7.2	8.2	7.2	7.2
97.5°	7.2	7.2	7.2	8.2	8.2	9.2	9.2	12.3	10.2	9.2	8.2
100°	8.2	8.2	8.2	9.2	10.2	12.3	21.5	29.7	26.6	23.5	19.4
102.5°	11.3	11.3	11.3	13.3	18.4	27.6	40.9	51.1	48.1	43.0	39.9
105°	21.5	21.7	22.5	27.6	36.8	49.1	64.4	73.7	71.6	66.5	62.4
107.5°	41.9	42.1	43.0	50.1	59.3	74.7	90.0	97.2	96.2	92.1	89.0
110°	67.5	67.9	69.6	75.7	89.0	104.3	116.6	122.8	123.8	121.7	118.7



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CATALOG NUMBER: ENV-SA1-740-U-SLL-ULG-XXB

CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	101.3	101.3	101.3	108.4	123.8	137.1	146.3	151.4	153.4	152.4	150.4
115°	143.2	143.0	142.2	150.4	162.6	171.9	178.0	183.1	186.2	183.1	181.1
117.5°	188.2	188.2	188.2	193.3	201.5	206.6	209.7	215.8	219.9	214.8	212.8
120°	230.2	229.8	228.1	231.2	238.3	242.4	248.6	251.6	255.7	250.6	248.6
122.5°	269.0	268.4	266.0	267.0	273.1	277.2	283.4	285.4	289.5	284.4	282.3
125°	304.8	304.0	300.7	302.8	305.9	312.0	317.1	320.2	322.2	317.1	317.1
127.5°	337.6	337.4	336.6	336.6	340.6	346.8	347.8	352.9	353.9	353.9	352.9
130°	371.3	370.9	369.3	370.3	374.4	378.5	380.5	385.7	389.7	389.7	387.7
132.5°	405.1	404.7	403.0	402.0	410.2	413.3	414.3	420.4	425.5	423.5	423.5
135°	438.8	438.2	435.8	435.8	441.9	445.0	447.0	453.2	458.3	457.3	460.3
137.5°	470.6	470.0	467.5	469.5	470.6	474.6	478.7	483.9	485.9	486.9	492.0
140°	499.2	498.6	496.1	498.2	500.2	502.3	508.4	511.5	513.5	515.6	520.7
142.5°	529.9	529.3	526.8	528.9	529.9	533.0	537.0	539.1	545.2	545.2	546.3
145°	562.6	561.8	558.5	556.5	559.6	562.6	563.6	568.8	574.9	573.9	570.8
147.5°	588.2	587.6	585.1	584.1	587.2	587.2	588.2	593.3	598.4	599.4	596.4
150°	608.7	608.1	605.6	606.6	606.6	606.6	606.6	610.7	613.8	616.8	619.9
152.5°	625.0	624.4	622.0	622.0	623.0	624.0	624.0	625.0	628.1	632.2	637.3
155°	643.4	642.6	639.3	639.3	641.4	644.5	642.4	640.4	645.5	650.6	652.6
157.5°	660.8	660.2	657.8	657.8	658.8	660.8	659.8	658.8	662.9	664.9	664.9
160°	678.2	677.6	675.1	674.1	671.1	670.0	670.0	673.1	679.2	676.2	675.1
162.5°	688.4	687.6	684.4	684.4	680.3	676.2	678.2	682.3	686.4	685.4	683.3
165°	696.6	696.0	693.6	691.5	691.5	688.4	688.4	687.4	692.5	695.6	693.6
167.5°	705.8	705.2	702.8	699.7	701.7	703.8	700.7	693.6	699.7	703.8	703.8
170°	714.0	713.4	711.0	707.9	707.9	708.9	706.9	701.7	704.8	709.9	712.0
172.5°	715.0	714.6	713.0	711.0	708.9	705.8	705.8	704.8	707.9	709.9	712.0
175°	716.1	715.7	714.0	713.0	711.0	706.9	705.8	705.8	711.0	712.0	709.9
177.5°	723.2	722.8	721.2	716.1	715.0	713.0	711.0	709.9	715.0	717.1	714.0
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6
2.5°	248.7	247.0	243.5	238.8	235.5	229.8	228.6	225.0	221.4	218.4	218.5
5°	239.7	234.1	225.5	215.7	206.2	197.8	196.1	191.2	189.8	188.4	184.4
7.5°	216.1	209.5	197.6	183.0	171.1	163.1	154.6	149.4	144.8	139.6	140.9
10°	198.0	188.6	172.1	155.0	140.2	129.5	120.1	115.2	108.5	103.7	103.1
12.5°	184.1	173.9	154.2	134.1	120.2	113.9	107.9	100.3	92.9	86.5	83.2
15°	179.5	168.0	145.1	125.1	114.1	106.6	98.1	89.5	80.4	73.6	70.9
17.5°	184.9	171.3	144.9	121.3	107.6	96.5	86.0	76.2	65.5	58.7	56.6
20°	199.7	182.7	148.0	117.6	99.6	84.5	69.7	59.2	48.2	43.4	41.2
22.5°	220.3	198.1	152.7	113.3	90.7	70.0	53.3	40.0	34.6	32.2	31.7
25°	241.4	217.7	159.4	109.5	80.9	55.7	38.3	32.0	29.5	28.4	28.4
27.5°	264.7	237.4	166.7	105.0	70.8	41.4	31.1	28.2	26.9	26.2	26.1
30°	283.5	253.4	174.9	99.8	61.7	34.0	27.6	25.7	24.4	24.1	24.1
32.5°	297.1	265.3	183.5	94.5	53.4	30.7	25.7	23.9	22.6	22.4	22.4
35°	313.0	276.7	187.5	91.6	48.4	28.6	24.2	22.5	21.3	20.7	20.7
37.5°	332.1	290.3	189.7	88.7	46.2	26.6	23.2	21.3	20.1	19.4	19.4
40°	356.3	305.8	192.0	85.8	44.8	25.0	22.1	20.2	19.2	18.4	18.4
42.5°	373.7	320.0	193.7	83.4	42.5	24.2	21.3	19.4	18.2	17.5	17.4
45°	382.8	333.3	194.5	82.0	39.9	24.9	20.6	18.7	17.3	16.7	16.6
47.5°	388.9	344.3	195.5	80.9	37.8	23.7	20.5	18.1	16.7	15.8	15.8
50°	398.7	358.7	198.0	78.8	36.6	22.1	22.1	17.8	15.9	15.1	15.0
52.5°	416.1	379.5	204.8	76.5	35.3	20.6	22.8	17.9	15.3	14.5	14.3
55°	442.4	412.5	216.1	73.2	33.4	18.7	21.3	18.0	14.8	14.0	13.7
57.5°	476.6	452.4	229.3	70.6	30.3	17.2	19.4	17.4	14.1	13.5	13.3
60°	499.6	479.0	237.6	67.2	25.8	16.2	16.7	16.9	13.5	12.7	12.6
62.5°	512.0	479.5	237.7	62.5	21.6	15.3	14.9	17.2	12.9	12.0	11.8
65°	512.9	456.1	225.8	56.5	20.2	14.4	13.7	15.2	12.4	11.4	11.3
67.5°	503.4	418.1	198.4	49.6	20.7	13.6	12.7	12.8	11.7	10.9	10.7
70°	469.2	368.8	159.2	44.1	20.8	12.6	12.0	11.6	11.1	10.3	10.1
72.5°	404.8	308.2	120.6	42.3	21.2	11.8	11.1	10.7	10.3	9.6	9.4
75°	305.5	240.4	90.6	39.5	21.4	11.0	10.1	9.9	9.4	8.8	8.7
77.5°	211.1	178.3	62.9	33.3	19.1	10.0	9.1	8.9	8.6	7.9	7.8
80°	142.5	122.2	38.6	25.0	14.5	8.8	7.9	7.9	7.6	6.9	6.9
82.5°	99.2	91.3	22.3	16.3	10.5	7.2	6.9	6.9	6.6	5.9	5.8
85°	41.4	55.3	10.0	8.9	7.3	5.7	5.7	5.8	5.5	4.9	4.8
87.5°	1.4	5.9	3.9	4.2	4.4	3.9	4.4	4.4	4.3	3.8	3.7
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°	6.1	6.1	6.1	7.2	7.2	6.1	6.1	6.1	5.1	4.1	4.1
95°	7.2	7.2	7.2	8.2	7.2	7.2	7.2	7.2	6.1	5.1	5.1
97.5°	8.2	8.2	9.2	10.2	12.3	9.2	9.2	8.2	8.2	7.2	7.2
100°	19.4	19.4	23.5	26.6	29.7	21.5	12.3	10.2	9.2	8.2	8.2
102.5°	38.9	39.9	43.0	48.1	51.1	40.9	27.6	18.4	13.3	11.3	11.3
105°	62.4	62.4	66.5	71.6	73.7	64.4	49.1	36.8	27.6	22.5	21.5
107.5°	88.0	89.0	92.1	96.2	97.2	90.0	74.7	59.3	50.1	43.0	41.9
110°	119.7	118.7	121.7	123.8	122.8	116.6	104.3	89.0	75.7	69.6	67.5



REPORT NUMBER:

CATALOG NUMBER: ENV-SA1-740-U-SLL-ULG-XXB

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	150.4	150.4	152.4	153.4	151.4	146.3	137.1	123.8	108.4	101.3	101.3
115°	182.1	181.1	183.1	186.2	183.1	178.0	171.9	162.6	150.4	142.2	143.2
117.5°	213.8	212.8	214.8	219.9	215.8	209.7	206.6	201.5	193.3	188.2	188.2
120°	248.6	248.6	250.6	255.7	251.6	248.6	242.4	238.3	231.2	228.1	230.2
122.5°	283.4	282.3	284.4	289.5	285.4	283.4	277.2	273.1	267.0	266.0	269.0
125°	317.1	317.1	317.1	322.2	320.2	317.1	312.0	305.9	302.8	300.7	304.8
127.5°	355.0	352.9	353.9	353.9	352.9	347.8	346.8	340.6	336.6	336.6	337.6
130°	388.7	387.7	389.7	389.7	385.7	380.5	378.5	374.4	370.3	369.3	371.3
132.5°	424.5	423.5	423.5	425.5	420.4	414.3	413.3	410.2	402.0	403.0	405.1
135°	461.4	460.3	457.3	458.3	453.2	447.0	445.0	441.9	435.8	435.8	438.8
137.5°	493.1	492.0	486.9	485.9	483.9	478.7	474.6	470.6	469.5	467.5	470.6
140°	522.7	520.7	515.6	513.5	511.5	508.4	502.3	500.2	498.2	496.1	499.2
142.5°	548.3	546.3	545.2	545.2	539.1	537.0	533.0	529.9	528.9	526.8	529.9
145°	572.9	570.8	573.9	574.9	568.8	563.6	562.6	559.6	556.5	558.5	562.6
147.5°	598.4	596.4	599.4	598.4	593.3	588.2	587.2	587.2	584.1	585.1	588.2
150°	624.0	619.9	616.8	613.8	610.7	606.6	606.6	606.6	606.6	605.6	608.7
152.5°	642.4	637.3	632.2	628.1	625.0	624.0	624.0	623.0	622.0	622.0	625.0
155°	655.7	652.6	650.6	645.5	640.4	642.4	644.5	641.4	639.3	639.3	643.4
157.5°	670.0	664.9	664.9	662.9	658.8	659.8	660.8	658.8	657.8	657.8	660.8
160°	681.3	675.1	676.2	679.2	673.1	670.0	670.0	671.1	674.1	675.1	678.2
162.5°	689.5	683.3	685.4	686.4	682.3	678.2	676.2	680.3	684.4	684.4	688.4
165°	697.7	693.6	695.6	692.5	687.4	688.4	688.4	691.5	691.5	693.6	696.6
167.5°	709.9	703.8	703.8	699.7	693.6	700.7	703.8	701.7	699.7	702.8	705.8
170°	717.1	712.0	709.9	704.8	701.7	706.9	708.9	707.9	707.9	711.0	714.0
172.5°	717.1	712.0	709.9	707.9	704.8	705.8	705.8	708.9	711.0	713.0	715.0
175°	715.0	709.9	712.0	711.0	705.8	705.8	706.9	711.0	713.0	714.0	716.1
177.5°	718.1	714.0	717.1	715.0	709.9	711.0	713.0	715.0	716.1	721.2	723.2
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1



REPORT NUMBER:

CATALOG NUMBER: ENV-SA1-740-U-SLL-ULG-XXB

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6
2.5°	215.3	213.9	209.5	209.0	205.7	205.5	206.9	204.5	204.7	207.7	207.2
5°	185.3	182.0	181.9	178.3	174.2	173.2	169.7	168.4	167.9	166.7	171.0
7.5°	144.9	143.4	144.7	144.3	140.6	138.5	131.0	125.3	122.5	123.7	124.0
10°	103.1	105.4	108.9	112.3	109.6	102.7	99.6	94.9	94.4	94.1	96.3
12.5°	81.7	79.1	80.7	81.9	79.4	76.4	75.1	73.1	74.2	76.7	78.2
15°	67.9	63.3	61.2	59.8	60.4	58.7	59.3	58.7	59.4	60.2	62.8
17.5°	53.6	52.0	48.0	46.2	46.3	45.5	45.7	45.6	45.2	46.9	49.0
20°	40.3	39.9	39.0	37.7	37.9	37.4	37.1	35.2	34.4	35.0	36.7
22.5°	31.5	32.0	32.6	32.5	33.0	31.6	30.3	28.6	28.4	28.5	28.9
25°	28.2	28.4	28.8	29.4	29.7	28.4	26.5	25.5	25.4	25.7	25.7
27.5°	26.2	26.0	26.5	27.2	27.6	26.0	24.4	23.6	23.4	23.1	23.0
30°	24.1	24.1	24.6	25.2	25.5	24.1	22.8	21.9	21.4	21.1	20.9
32.5°	22.6	22.7	22.9	23.4	23.9	22.5	21.4	20.6	19.6	19.3	19.1
35°	20.8	21.3	21.6	21.7	22.1	21.2	20.1	18.9	18.0	17.7	17.7
37.5°	19.4	19.7	20.3	20.2	20.5	19.8	18.6	17.3	16.9	16.8	16.7
40°	18.3	18.3	18.7	19.2	19.6	18.4	17.0	16.3	16.0	15.8	15.9
42.5°	17.3	17.2	17.2	18.0	18.7	17.0	15.8	15.3	15.2	15.0	15.1
45°	16.4	16.3	16.0	16.3	17.4	15.6	14.8	14.5	14.4	14.4	14.4
47.5°	15.7	15.5	15.0	15.1	15.9	14.5	13.8	13.7	13.6	13.6	13.7
50°	14.8	14.6	14.3	14.1	14.4	13.7	13.2	12.9	12.9	12.9	13.2
52.5°	14.0	13.9	13.5	13.4	13.5	13.0	12.5	12.4	12.4	12.4	12.7
55°	13.5	13.3	13.0	12.8	13.0	12.5	12.1	11.8	11.8	12.1	12.3
57.5°	12.9	12.7	12.6	12.4	12.6	12.1	11.6	11.4	11.5	11.6	11.6
60°	12.4	12.2	12.1	11.8	12.2	11.6	11.2	11.1	11.1	11.0	11.0
62.5°	11.8	11.7	11.5	11.3	11.7	11.1	10.7	10.5	10.4	10.4	10.4
65°	11.2	11.1	11.0	10.9	11.1	10.5	10.2	10.1	9.9	9.8	9.9
67.5°	10.6	10.6	10.4	10.2	10.5	9.9	9.6	9.5	9.2	9.1	9.2
70°	10.0	10.0	9.8	9.6	10.1	9.2	9.0	8.9	8.7	8.6	8.6
72.5°	9.3	9.3	9.1	9.0	9.5	8.6	8.3	8.2	7.9	7.8	7.8
75°	8.7	8.6	8.4	8.3	9.0	7.9	7.6	7.3	7.0	6.9	6.8
77.5°	7.9	7.8	7.6	7.7	8.1	7.0	6.6	6.5	6.1	6.0	5.9
80°	6.9	6.8	6.7	6.9	6.9	6.1	5.6	5.4	5.0	4.8	4.7
82.5°	5.9	5.8	5.8	6.0	5.7	5.4	4.7	4.3	3.7	3.4	3.3
85°	4.8	5.0	4.8	5.0	4.3	4.3	3.3	2.5	1.8	1.4	1.3
87.5°	3.7	3.8	3.7	3.8	3.0	2.9	1.5	0.9	0.1	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°	4.1	5.1	6.1	6.1	6.1	7.2	7.2	6.1	6.1	6.1	6.1
95°	5.1	6.1	7.2	7.2	7.2	7.2	8.2	7.2	7.2	7.2	7.2
97.5°	7.2	8.2	8.2	9.2	9.2	12.3	10.2	9.2	8.2	8.2	8.2
100°	8.2	9.2	10.2	12.3	21.5	29.7	26.6	23.5	19.4	19.4	19.4
102.5°	11.3	13.3	18.4	27.6	40.9	51.1	48.1	43.0	39.9	38.9	39.9
105°	22.5	27.6	36.8	49.1	64.4	73.7	71.6	66.5	62.4	62.4	62.4
107.5°	43.0	50.1	59.3	74.7	90.0	97.2	96.2	92.1	89.0	88.0	89.0
110°	69.6	75.7	89.0	104.3	116.6	122.8	123.8	121.7	118.7	119.7	118.7



REPORT NUMBER:

CATALOG NUMBER: ENV-SA1-740-U-SLL-ULG-XXB

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
112.5°	101.3	108.4	123.8	137.1	146.3	151.4	153.4	152.4	150.4	150.4	150.4
115°	142.2	150.4	162.6	171.9	178.0	183.1	186.2	183.1	181.1	182.1	181.1
117.5°	188.2	193.3	201.5	206.6	209.7	215.8	219.9	214.8	212.8	213.8	212.8
120°	228.1	231.2	238.3	242.4	248.6	251.6	255.7	250.6	248.6	248.6	248.6
122.5°	266.0	267.0	273.1	277.2	283.4	285.4	289.5	284.4	282.3	283.4	282.3
125°	300.7	302.8	305.9	312.0	317.1	320.2	322.2	317.1	317.1	317.1	317.1
127.5°	336.6	336.6	340.6	346.8	347.8	352.9	353.9	353.9	352.9	355.0	352.9
130°	369.3	370.3	374.4	378.5	380.5	385.7	389.7	389.7	387.7	388.7	387.7
132.5°	403.0	402.0	410.2	413.3	414.3	420.4	425.5	423.5	423.5	424.5	423.5
135°	435.8	435.8	441.9	445.0	447.0	453.2	458.3	457.3	460.3	461.4	460.3
137.5°	467.5	469.5	470.6	474.6	478.7	483.9	485.9	486.9	492.0	493.1	492.0
140°	496.1	498.2	500.2	502.3	508.4	511.5	513.5	515.6	520.7	522.7	520.7
142.5°	526.8	528.9	529.9	533.0	537.0	539.1	545.2	545.2	546.3	548.3	546.3
145°	558.5	556.5	559.6	562.6	563.6	568.8	574.9	573.9	570.8	572.9	570.8
147.5°	585.1	584.1	587.2	587.2	588.2	593.3	598.4	599.4	596.4	598.4	596.4
150°	605.6	606.6	606.6	606.6	606.6	610.7	613.8	616.8	619.9	624.0	619.9
152.5°	622.0	622.0	623.0	624.0	624.0	625.0	628.1	632.2	637.3	642.4	637.3
155°	639.3	639.3	641.4	644.5	642.4	640.4	645.5	650.6	652.6	655.7	652.6
157.5°	657.8	657.8	658.8	660.8	659.8	658.8	662.9	664.9	664.9	670.0	664.9
160°	675.1	674.1	671.1	670.0	670.0	673.1	679.2	676.2	675.1	681.3	675.1
162.5°	684.4	684.4	680.3	676.2	678.2	682.3	686.4	685.4	683.3	689.5	683.3
165°	693.6	691.5	691.5	688.4	688.4	687.4	692.5	695.6	693.6	697.7	693.6
167.5°	702.8	699.7	701.7	703.8	700.7	693.6	699.7	703.8	703.8	709.9	703.8
170°	711.0	707.9	707.9	708.9	706.9	701.7	704.8	709.9	712.0	717.1	712.0
172.5°	713.0	711.0	708.9	705.8	705.8	704.8	707.9	709.9	712.0	717.1	712.0
175°	714.0	713.0	711.0	706.9	705.8	705.8	711.0	712.0	709.9	715.0	709.9
177.5°	721.2	716.1	715.0	713.0	711.0	709.9	715.0	717.1	714.0	718.1	714.0
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1



REPORT NUMBER:
 CATALOG NUMBER: ENV-SA1-740-U-SLL-ULG-XXB

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6
2.5°	210.5	210.7	215.4	220.2	223.0	230.1	233.6	237.6	239.7	242.1
5°	169.0	173.1	177.0	186.4	191.2	202.5	210.7	223.9	228.1	231.3
7.5°	127.6	133.9	138.6	150.3	159.4	173.5	187.8	203.5	208.0	210.9
10°	101.4	107.1	116.0	125.2	135.4	152.4	168.0	184.2	192.1	195.5
12.5°	85.2	94.3	104.7	113.3	121.4	133.9	153.6	174.1	182.3	186.0
15°	70.3	80.5	91.1	101.6	111.7	125.9	146.6	173.2	183.6	187.3
17.5°	55.8	64.1	74.9	87.6	102.3	120.3	147.9	182.6	195.3	200.0
20°	39.7	47.8	58.8	74.4	91.9	114.5	151.0	196.6	214.7	220.0
22.5°	29.9	34.4	44.5	60.0	82.6	109.9	155.8	215.8	236.9	241.8
25°	26.3	27.8	33.0	47.9	73.2	105.7	162.2	234.9	260.5	265.8
27.5°	23.4	24.2	26.9	38.5	66.3	101.4	169.7	255.5	280.8	287.7
30°	21.1	22.1	24.3	32.2	59.6	95.3	176.6	274.0	298.0	303.3
32.5°	19.3	20.5	22.5	29.2	53.9	90.7	180.6	287.8	312.7	317.5
35°	18.1	19.2	21.2	26.4	48.9	87.5	181.8	301.5	330.7	335.6
37.5°	17.0	18.1	19.8	23.7	45.4	83.3	183.6	317.8	351.5	358.0
40°	16.2	17.1	18.7	21.8	40.6	78.8	185.8	336.9	371.8	378.3
42.5°	15.5	16.4	17.9	21.9	35.7	75.0	187.3	351.6	387.9	394.0
45°	14.8	15.9	17.5	21.5	32.1	71.5	186.6	363.9	402.6	407.3
47.5°	14.1	15.5	18.4	20.6	31.0	68.3	187.2	375.7	413.1	416.9
50°	13.7	15.3	19.7	19.3	31.2	66.9	192.4	389.9	421.0	422.4
52.5°	13.4	15.7	18.6	17.4	31.2	66.2	202.5	412.7	434.7	433.7
55°	12.8	15.6	17.4	15.8	29.9	66.6	212.0	442.8	467.6	462.1
57.5°	12.4	14.9	15.7	14.6	26.9	66.7	226.2	468.3	493.5	494.3
60°	11.8	16.0	13.6	13.6	23.0	66.1	238.7	467.8	498.2	503.3
62.5°	11.3	15.7	12.2	12.6	20.4	64.0	246.3	440.5	480.8	490.1
65°	10.6	12.4	11.2	11.7	19.3	58.9	235.5	406.7	457.2	467.2
67.5°	9.9	10.2	10.2	10.9	18.9	51.1	208.4	369.3	427.6	439.7
70°	9.0	9.1	9.3	10.3	17.5	44.0	169.7	329.5	395.8	411.0
72.5°	8.1	8.2	8.2	9.3	16.4	37.9	120.2	261.1	330.5	346.5
75°	7.1	7.2	7.1	8.1	14.4	28.4	71.4	165.1	197.1	215.2
77.5°	6.0	6.0	5.8	6.4	9.9	18.0	39.0	100.3	119.9	131.1
80°	4.9	4.5	3.7	3.8	5.4	10.3	17.4	57.6	65.8	68.6
82.5°	3.3	2.5	1.5	1.4	1.8	2.9	4.1	22.8	20.9	19.8
85°	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
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°	6.1	7.2	7.2	6.1	6.1	6.1	5.1	4.1	4.1	4.1
95°	7.2	8.2	7.2	7.2	7.2	7.2	6.1	5.1	5.1	5.1
97.5°	9.2	10.2	12.3	9.2	9.2	8.2	8.2	7.2	7.2	7.2
100°	23.5	26.6	29.7	21.5	12.3	10.2	9.2	8.2	8.2	8.2
102.5°	43.0	48.1	51.1	40.9	27.6	18.4	13.3	11.3	11.3	11.3
105°	66.5	71.6	73.7	64.4	49.1	36.8	27.6	22.5	21.7	21.5
107.5°	92.1	96.2	97.2	90.0	74.7	59.3	50.1	43.0	42.1	41.9
110°	121.7	123.8	122.8	116.6	104.3	89.0	75.7	69.6	67.9	67.5



REPORT NUMBER:
 CATALOG NUMBER: ENV-SA1-740-U-SLL-ULG-XXB

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
112.5°	152.4	153.4	151.4	146.3	137.1	123.8	108.4	101.3	101.3	101.3
115°	183.1	186.2	183.1	178.0	171.9	162.6	150.4	142.2	143.0	143.2
117.5°	214.8	219.9	215.8	209.7	206.6	201.5	193.3	188.2	188.2	188.2
120°	250.6	255.7	251.6	248.6	242.4	238.3	231.2	228.1	229.8	230.2
122.5°	284.4	289.5	285.4	283.4	277.2	273.1	267.0	266.0	268.4	269.0
125°	317.1	322.2	320.2	317.1	312.0	305.9	302.8	300.7	304.0	304.8
127.5°	353.9	353.9	352.9	347.8	346.8	340.6	336.6	336.6	337.4	337.6
130°	389.7	389.7	385.7	380.5	378.5	374.4	370.3	369.3	370.9	371.3
132.5°	423.5	425.5	420.4	414.3	413.3	410.2	402.0	403.0	404.7	405.1
135°	457.3	458.3	453.2	447.0	445.0	441.9	435.8	435.8	438.2	438.8
137.5°	486.9	485.9	483.9	478.7	474.6	470.6	469.5	467.5	470.0	470.6
140°	515.6	513.5	511.5	508.4	502.3	500.2	498.2	496.1	498.6	499.2
142.5°	545.2	545.2	539.1	537.0	533.0	529.9	528.9	526.8	529.3	529.9
145°	573.9	574.9	568.8	563.6	562.6	559.6	556.5	558.5	561.8	562.6
147.5°	599.4	598.4	593.3	588.2	587.2	587.2	584.1	585.1	587.6	588.2
150°	616.8	613.8	610.7	606.6	606.6	606.6	606.6	605.6	608.1	608.7
152.5°	632.2	628.1	625.0	624.0	624.0	623.0	622.0	622.0	624.4	625.0
155°	650.6	645.5	640.4	642.4	644.5	641.4	639.3	639.3	642.6	643.4
157.5°	664.9	662.9	658.8	659.8	660.8	658.8	657.8	657.8	660.2	660.8
160°	676.2	679.2	673.1	670.0	670.0	671.1	674.1	675.1	677.6	678.2
162.5°	685.4	686.4	682.3	678.2	676.2	680.3	684.4	684.4	687.6	688.4
165°	695.6	692.5	687.4	688.4	688.4	691.5	691.5	693.6	696.0	696.6
167.5°	703.8	699.7	693.6	700.7	703.8	701.7	699.7	702.8	705.2	705.8
170°	709.9	704.8	701.7	706.9	708.9	707.9	707.9	711.0	713.4	714.0
172.5°	709.9	707.9	704.8	705.8	705.8	708.9	711.0	713.0	714.6	715.0
175°	712.0	711.0	705.8	705.8	706.9	711.0	713.0	714.0	715.7	716.1
177.5°	717.1	715.0	709.9	711.0	713.0	715.0	716.1	721.2	722.8	723.2
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1

(END OF REPORT)