

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: P400791

Luminaire Tested: **ENV-SA1-740-U-T3-ULG-XXB**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P400791
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P#####)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1-740-U-T3-ULG-XXB
Description: ENTRI LED LUMINAIRE WITH UPLIGHT
(1) 70 CRI, 4000K LIGHTSQUARE IN BATTERY OPERATION WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 786 lumens
Efficiency: N/A
Efficacy: 60.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B0 - U3 - G0

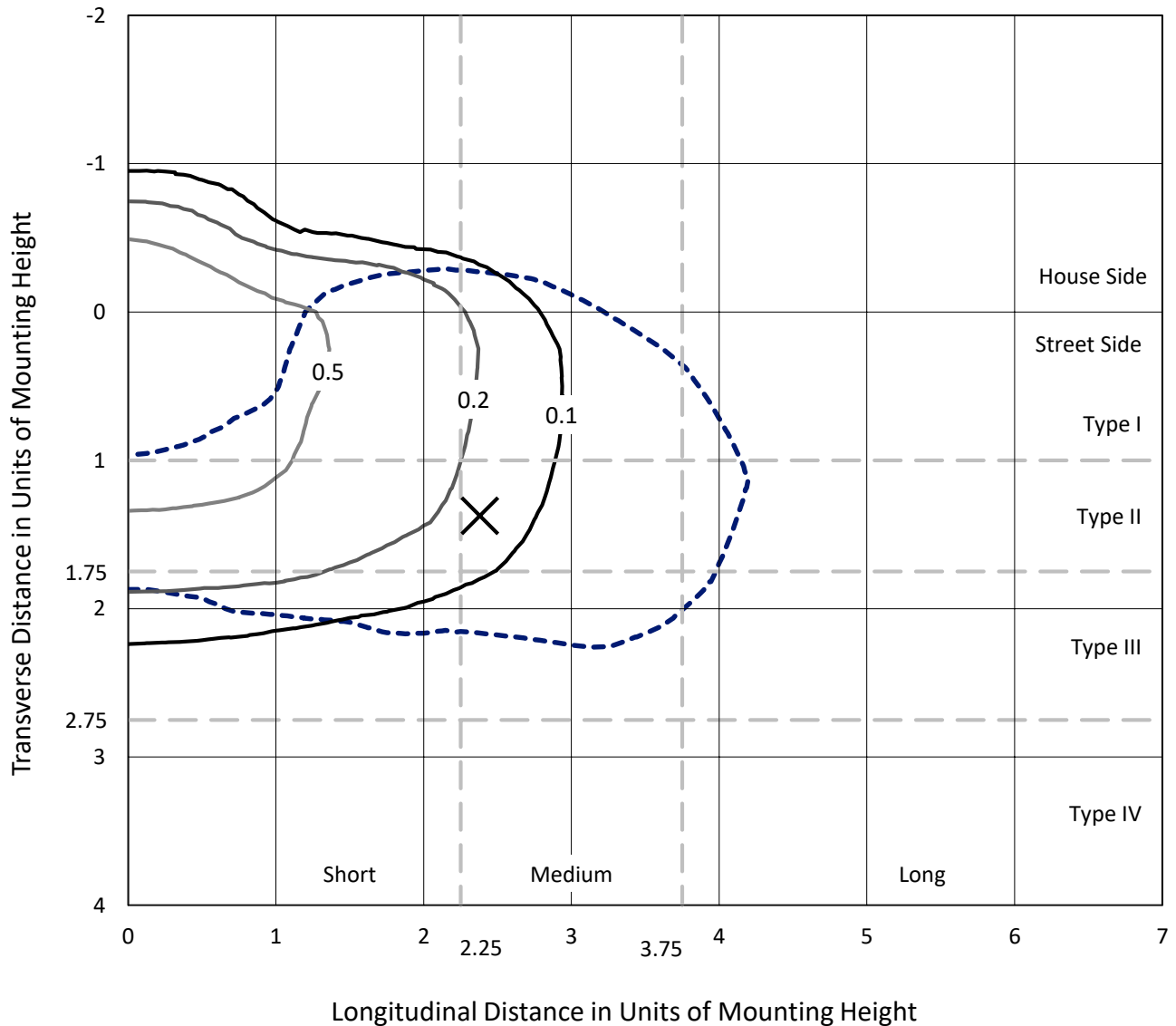
Input Watts (W): 13
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

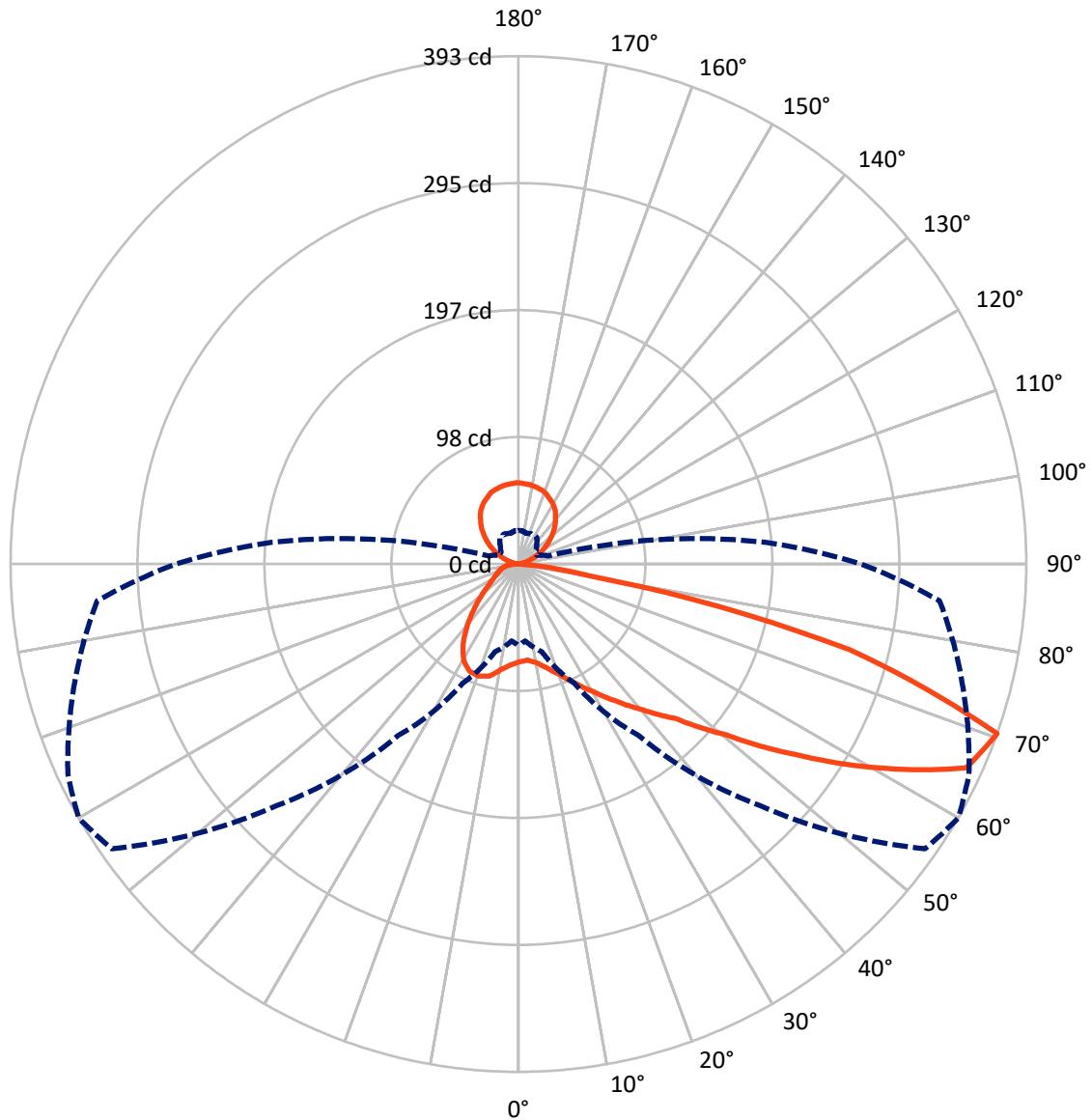
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 0.8 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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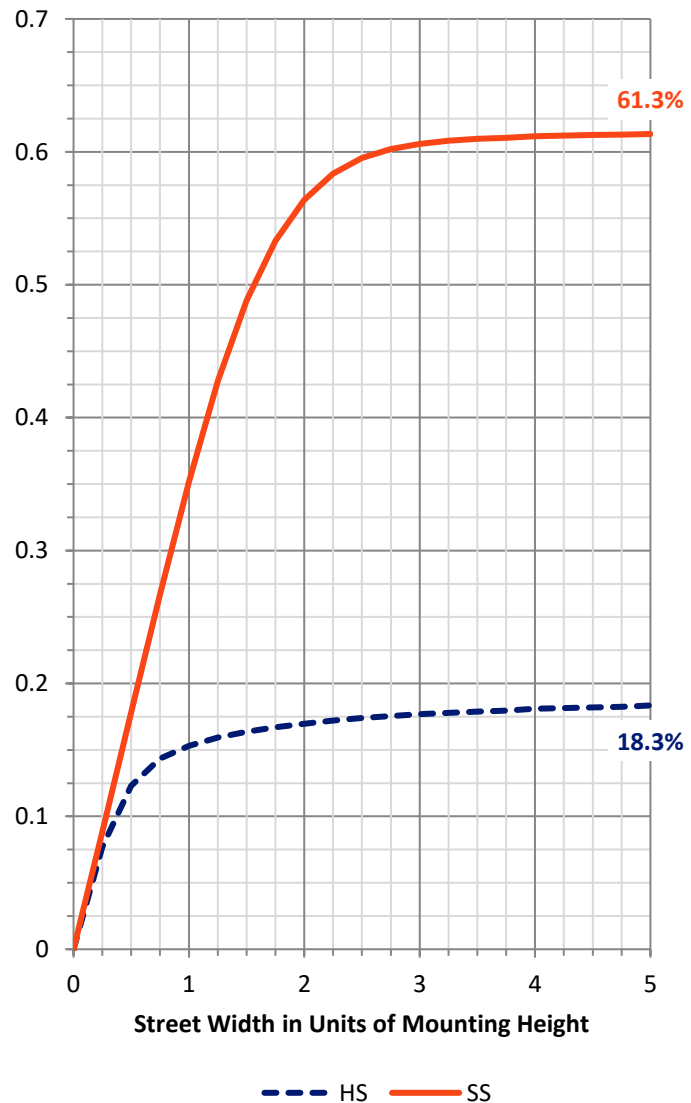
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	147.3	78.1	225.5
	% Fixture	18.7	9.9	28.7
Street Side	Lumens	482.4	78.1	560.5
	% Fixture	61.4	9.9	71.3
Total	Lumens	629.7	156.3	786.0
	% Fixture	80.1	19.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.5	0.9
10°-20°	24.4	3.1
20°-30°	43.8	5.6
30°-40°	64.5	8.2
40°-50°	94.7	12.0
50°-60°	140.9	17.9
60°-70°	162.9	20.7
70°-80°	82.3	10.5
80°-90°	8.9	1.1
90°-100°	0.7	0.1
100°-110°	5.3	0.7
110°-120°	15.0	1.9
120°-130°	24.6	3.1
130°-140°	30.3	3.9
140°-150°	31.0	3.9
150°-160°	26.1	3.3
160°-170°	17.2	2.2
170°-180°	6.0	0.8
0°-90°	629.7	80.1
0°-180°	786.0	100.0



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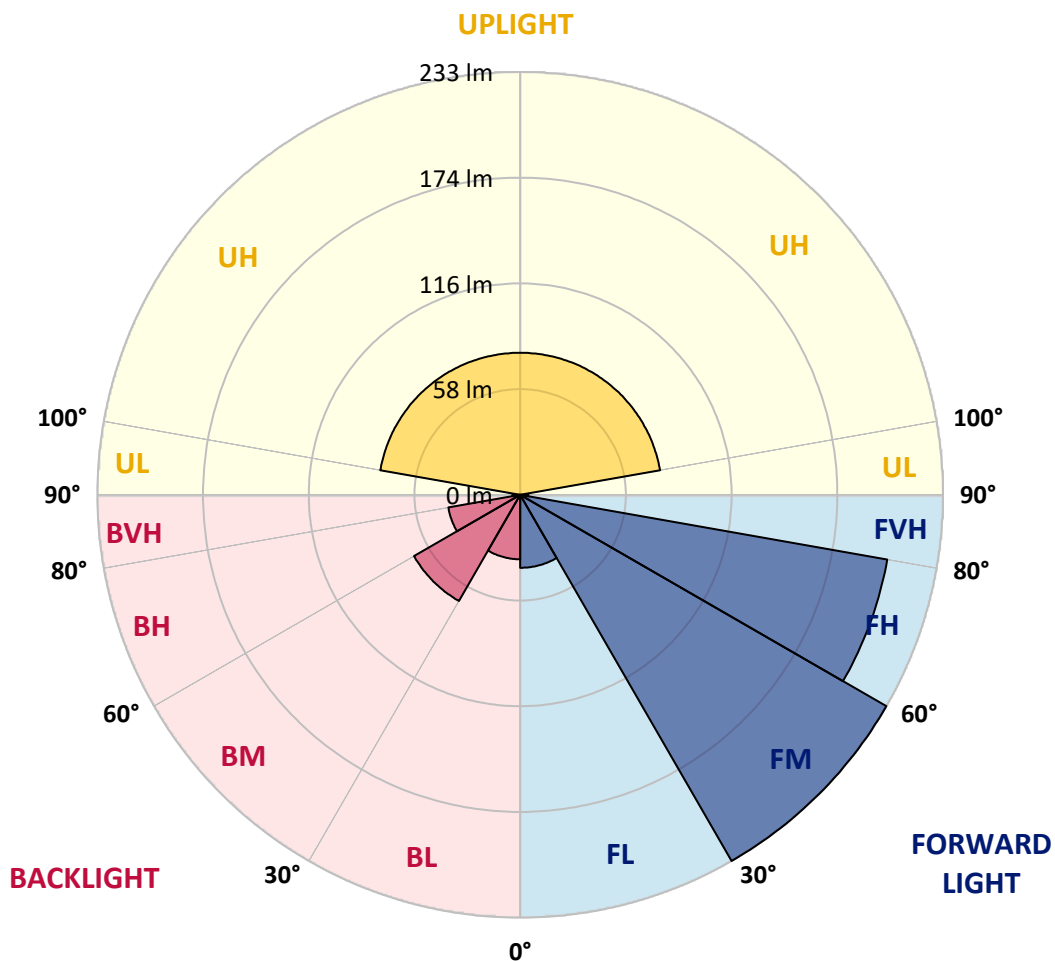
CATALOG NUMBER: ENV-SA1-740-U-T3-ULG-XXB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	40.2	5.1			
FM (30°-60°)	232.6	29.6			
FH (60°-80°)	205.1	26.1			G0/660
FVH (80°-90°)	4.5	0.6			G0/10
BL (0°-30°)	35.4	4.5	B0/110		
BM (30°-60°)	67.4	8.6	B0/220		
BH (60°-80°)	40.1	5.1	B0/110		G0/110
BVH (80°-90°)	4.3	0.6			G0/10
UL (90°-100°)	0.7	0.1		U1/10	
UH (100°-180°)	78.1	9.9		U3/500	

BUG Rating: B0-U3-G0

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
5°	73.2	73.3	73.4	73.5	73.5	73.6	73.7	73.8	74.0	74.2	74.3
10°	76.9	77.1	77.2	77.3	77.5	77.6	77.7	77.9	78.0	78.0	77.8
15°	83.1	82.9	82.9	82.9	83.1	83.2	83.3	83.3	83.5	83.7	83.5
20°	92.1	92.6	92.5	92.4	92.0	91.7	91.1	90.5	90.3	90.0	90.3
25°	108.6	108.8	108.8	108.8	108.0	107.1	105.6	104.1	102.6	101.2	101.3
30°	128.1	128.8	128.5	128.1	126.4	124.8	123.1	121.3	119.5	117.7	116.2
35°	149.3	150.1	150.1	150.1	148.4	146.8	144.2	141.7	139.3	137.0	134.1
40°	170.9	171.3	172.0	172.7	170.4	168.1	165.7	163.4	161.6	159.9	156.0
45°	203.0	204.1	204.3	204.5	202.7	201.0	199.4	197.8	194.0	190.2	182.3
50°	229.4	230.2	232.4	234.6	236.8	239.1	242.2	245.3	242.1	238.8	225.9
55°	234.8	235.4	239.3	243.3	253.1	262.8	273.3	283.8	284.3	284.7	275.5
60°	214.4	216.3	223.0	229.7	244.2	258.7	278.8	298.9	311.0	323.1	326.0
65°	166.7	165.2	173.0	180.7	199.5	218.3	248.3	278.2	310.2	342.1	364.2
70°	62.8	59.8	65.1	70.3	86.0	101.6	131.9	162.1	213.3	264.5	324.4
75°	12.3	12.3	13.2	14.2	16.8	19.4	25.6	31.7	51.3	71.0	148.9
80°	4.6	4.7	5.2	5.8	6.5	7.2	8.6	10.0	10.3	10.6	22.0
85°	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6
100°	0.7	0.7	0.8	0.8	0.9	0.9	1.0	1.1	1.5	1.9	2.3
105°	1.9	2.0	2.2	2.4	2.8	3.2	3.8	4.3	5.0	5.7	6.1
110°	5.9	6.1	6.4	6.7	7.3	7.8	8.5	9.2	9.7	10.3	10.5
115°	12.6	12.5	12.9	13.2	13.8	14.3	14.7	15.1	15.4	15.7	15.9
120°	20.3	20.1	20.2	20.3	20.7	21.0	21.2	21.3	21.6	21.9	22.0
125°	26.8	26.5	26.6	26.6	26.8	26.9	27.2	27.5	27.7	27.9	28.0
130°	32.7	32.5	32.5	32.6	32.8	32.9	33.1	33.3	33.4	33.5	33.7
135°	38.6	38.3	38.3	38.3	38.6	38.9	39.0	39.2	39.2	39.3	39.6
140°	43.9	43.7	43.7	43.8	43.9	44.0	44.1	44.2	44.5	44.7	44.9
145°	49.5	49.1	49.1	49.0	49.1	49.2	49.4	49.5	49.5	49.6	49.8
150°	53.6	53.3	53.3	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.6
155°	56.6	56.3	56.3	56.3	56.3	56.4	56.6	56.7	56.6	56.5	56.4
160°	59.7	59.4	59.4	59.3	59.2	59.1	59.0	59.0	59.0	59.0	59.1
165°	61.3	61.0	60.9	60.8	60.8	60.8	60.7	60.6	60.6	60.6	60.5
170°	62.8	62.6	62.4	62.3	62.3	62.3	62.3	62.4	62.3	62.2	62.0
175°	63.0	62.8	62.8	62.7	62.6	62.6	62.4	62.2	62.2	62.1	62.1
180°	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
5°	74.4	74.7	75.1	75.4	75.8	76.0	76.2	76.6	76.9	77.3	77.7
10°	77.5	77.7	77.8	78.1	78.5	78.9	79.4	79.8	80.4	81.0	81.5
15°	83.4	83.5	83.8	84.1	84.4	84.9	85.4	85.9	86.6	87.4	88.3
20°	90.6	91.4	92.4	93.0	93.5	93.6	93.6	94.0	94.5	94.7	94.9
25°	101.5	102.3	103.9	104.7	105.5	104.3	103.1	101.9	101.2	100.5	99.9
30°	114.7	114.8	115.4	115.3	115.3	112.3	109.3	106.7	104.4	102.5	100.7
35°	131.1	130.3	129.5	128.5	127.5	123.0	118.4	114.0	110.2	106.9	103.7
40°	152.1	148.4	145.8	144.4	143.1	138.3	133.6	126.6	123.0	114.8	106.6
45°	174.4	170.6	169.0	170.2	171.3	166.5	161.6	154.8	145.1	124.9	104.8
50°	212.9	207.5	205.7	209.3	212.9	207.5	202.0	193.4	174.6	135.6	96.7
55°	266.3	260.4	258.3	260.6	262.9	256.9	251.0	244.4	214.5	155.6	96.6
60°	328.8	320.6	313.9	314.9	315.9	316.3	316.8	306.6	253.5	169.9	86.3
65°	386.2	380.7	369.8	363.6	357.4	357.7	358.0	322.9	252.7	151.7	50.6
70°	384.3	393.1	384.8	370.2	355.6	341.4	327.2	265.0	191.9	108.0	24.0
75°	226.8	264.4	279.6	275.9	272.1	235.2	198.2	140.0	90.5	52.6	14.8
80°	33.4	55.3	75.3	81.8	88.3	66.1	44.0	27.0	16.8	13.3	9.8
85°	1.2	2.2	3.0	3.6	4.1	3.5	2.9	2.7	3.1	4.1	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.6	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6
100°	2.6	2.5	2.3	2.2	2.1	1.9	1.7	1.7	1.7	1.9	2.1
105°	6.5	6.4	6.3	6.1	5.9	5.7	5.5	5.5	5.5	5.7	5.9
110°	10.8	10.8	10.9	10.8	10.7	10.6	10.4	10.5	10.4	10.6	10.7
115°	16.1	16.2	16.4	16.2	16.1	16.0	15.9	16.0	15.9	16.0	16.1
120°	22.1	22.3	22.5	22.3	22.1	22.0	21.9	21.9	21.9	22.0	22.1
125°	28.2	28.3	28.4	28.1	27.9	27.9	27.9	27.9	27.9	27.9	27.9
130°	33.9	34.1	34.3	34.3	34.3	34.2	34.1	34.2	34.1	34.2	34.3
135°	39.9	40.1	40.3	40.3	40.2	40.4	40.5	40.6	40.5	40.4	40.2
140°	45.0	45.1	45.2	45.3	45.4	45.6	45.8	46.0	45.8	45.6	45.4
145°	50.0	50.3	50.6	50.5	50.5	50.4	50.2	50.4	50.2	50.4	50.5
150°	53.7	53.9	54.0	54.1	54.3	54.4	54.5	54.9	54.5	54.4	54.3
155°	56.3	56.6	56.8	57.0	57.2	57.3	57.4	57.7	57.4	57.3	57.2
160°	59.2	59.5	59.8	59.6	59.5	59.5	59.4	59.9	59.4	59.5	59.5
165°	60.5	60.7	60.9	61.1	61.2	61.1	61.0	61.4	61.0	61.1	61.2
170°	61.7	61.9	62.0	62.2	62.5	62.6	62.6	63.1	62.6	62.6	62.5
175°	62.1	62.3	62.6	62.6	62.6	62.6	62.5	62.9	62.5	62.6	62.6
180°	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
5°	77.9	78.1	78.4	78.6	78.7	78.8	79.1	79.5	79.5	79.6	79.8
10°	82.0	82.4	82.9	83.3	83.6	83.9	84.4	84.9	85.3	85.6	85.9
15°	88.9	89.5	89.5	89.6	89.0	88.4	87.6	86.8	86.5	86.1	86.0
20°	94.4	94.0	92.1	90.3	88.7	87.0	86.0	84.9	84.3	83.8	83.3
25°	97.4	94.9	91.2	87.6	84.9	82.2	80.1	78.0	76.4	74.7	74.0
30°	96.3	91.9	86.0	80.1	75.6	71.2	67.4	63.6	61.4	59.2	58.6
35°	93.7	83.8	75.6	67.5	61.6	55.8	52.8	49.7	48.3	46.9	45.6
40°	89.3	72.1	62.3	52.5	48.7	44.9	42.3	39.8	37.9	36.0	34.5
45°	80.8	56.8	48.8	40.8	38.6	36.4	34.3	32.1	29.8	27.5	26.5
50°	69.9	43.0	37.4	31.7	30.3	28.9	27.6	26.3	25.6	24.8	24.3
55°	64.1	31.6	28.3	25.1	24.9	24.6	24.9	25.2	24.6	24.0	23.7
60°	55.1	23.8	22.5	21.1	21.6	22.1	23.0	23.9	23.6	23.2	22.8
65°	34.8	19.1	18.7	18.4	18.9	19.4	20.5	21.6	21.5	21.4	21.6
70°	20.0	15.9	16.2	16.5	18.1	19.8	22.4	25.0	25.3	25.6	25.1
75°	14.2	13.6	13.7	13.9	15.2	16.5	19.7	22.9	23.0	23.1	22.2
80°	10.2	10.6	10.7	10.8	11.7	12.6	15.0	17.5	18.0	18.5	17.7
85°	6.2	7.3	7.2	7.1	7.7	8.4	10.3	12.3	12.6	12.9	12.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
100°	2.2	2.3	2.5	2.6	2.3	1.9	1.5	1.1	1.0	0.9	0.9
105°	6.1	6.3	6.4	6.5	6.1	5.7	5.0	4.3	3.8	3.2	2.8
110°	10.8	10.9	10.8	10.8	10.5	10.3	9.7	9.2	8.5	7.8	7.3
115°	16.3	16.4	16.3	16.1	15.9	15.7	15.4	15.1	14.7	14.3	13.8
120°	22.3	22.5	22.3	22.1	22.0	21.9	21.6	21.3	21.2	21.0	20.7
125°	28.1	28.4	28.3	28.2	28.0	27.9	27.7	27.5	27.2	26.9	26.8
130°	34.3	34.3	34.1	33.9	33.7	33.5	33.4	33.3	33.1	32.9	32.8
135°	40.3	40.3	40.1	39.9	39.6	39.3	39.2	39.2	39.0	38.9	38.6
140°	45.3	45.2	45.1	45.0	44.9	44.7	44.5	44.2	44.1	44.0	43.9
145°	50.5	50.6	50.3	50.0	49.8	49.6	49.5	49.5	49.4	49.2	49.1
150°	54.1	54.0	53.9	53.7	53.6	53.4	53.4	53.4	53.4	53.4	53.4
155°	57.0	56.8	56.6	56.3	56.4	56.5	56.6	56.7	56.6	56.4	56.3
160°	59.6	59.8	59.5	59.2	59.1	59.0	59.0	59.0	59.0	59.1	59.2
165°	61.1	60.9	60.7	60.5	60.5	60.6	60.6	60.6	60.7	60.8	60.8
170°	62.2	62.0	61.9	61.7	62.0	62.2	62.3	62.4	62.3	62.3	62.3
175°	62.6	62.6	62.3	62.1	62.1	62.1	62.2	62.2	62.4	62.6	62.6
180°	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	75.7	75.7	75.7	75.7
5°	80.0	80.1	80.2	80.1
10°	86.1	86.2	86.3	86.5
15°	85.9	85.9	85.9	86.0
20°	82.9	82.8	82.8	82.4
25°	73.2	72.9	72.5	72.7
30°	58.0	57.7	57.4	57.5
35°	44.3	43.7	43.1	43.2
40°	33.0	31.8	30.6	30.4
45°	25.5	24.9	24.2	24.0
50°	23.8	23.3	22.9	22.8
55°	23.4	22.9	22.4	22.2
60°	22.4	22.3	22.2	22.0
65°	21.7	22.4	23.1	23.4
70°	24.5	25.3	26.0	26.0
75°	21.3	21.1	20.9	20.4
80°	16.9	16.5	16.1	15.9
85°	11.5	10.5	9.5	9.2
90°	0.0	0.0	0.0	0.0
95°	0.5	0.5	0.4	0.4
100°	0.8	0.8	0.7	0.7
105°	2.4	2.2	2.0	1.9
110°	6.7	6.4	6.1	5.9
115°	13.2	12.9	12.5	12.6
120°	20.3	20.2	20.1	20.3
125°	26.6	26.6	26.5	26.8
130°	32.6	32.5	32.5	32.7
135°	38.3	38.3	38.3	38.6
140°	43.8	43.7	43.7	43.9
145°	49.0	49.1	49.1	49.5
150°	53.4	53.3	53.3	53.6
155°	56.3	56.3	56.3	56.6
160°	59.3	59.4	59.4	59.7
165°	60.8	60.9	61.0	61.3
170°	62.3	62.4	62.6	62.8
175°	62.7	62.8	62.8	63.0
180°	63.0	63.0	63.0	63.0

(END OF REPORT)