

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: P400738

Luminaire Tested: **ENV-SA1-730-U-SLR-XXB**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P400738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1-730-U-SLR-XXB
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3000K LIGHTSQUARE IN BATTERY OPERATION WITH 16 LEDS AND SPILL
LIGHT ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 622 lumens
Efficiency: N/A
Efficacy: 47.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B0 - U0 - 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

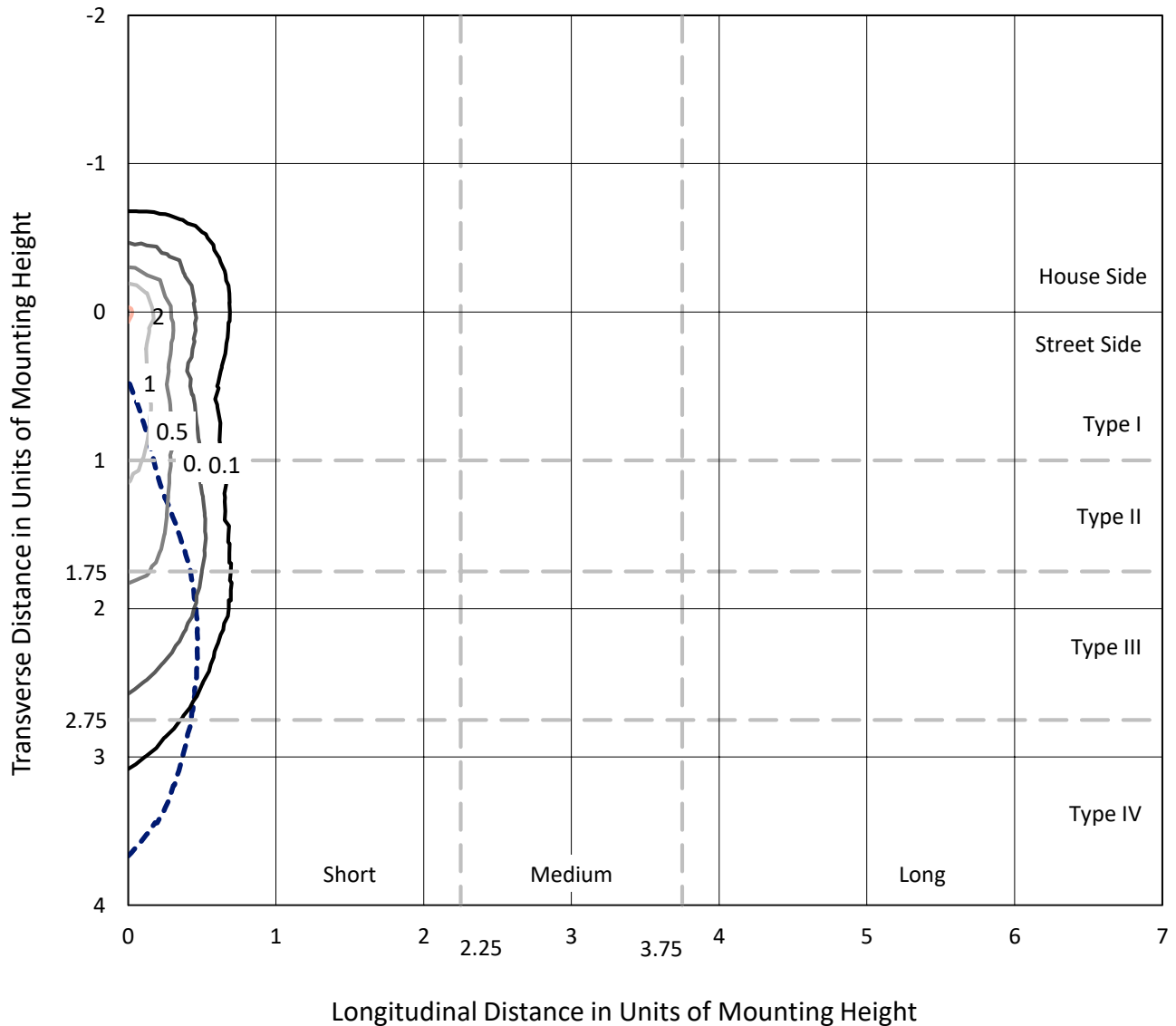


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

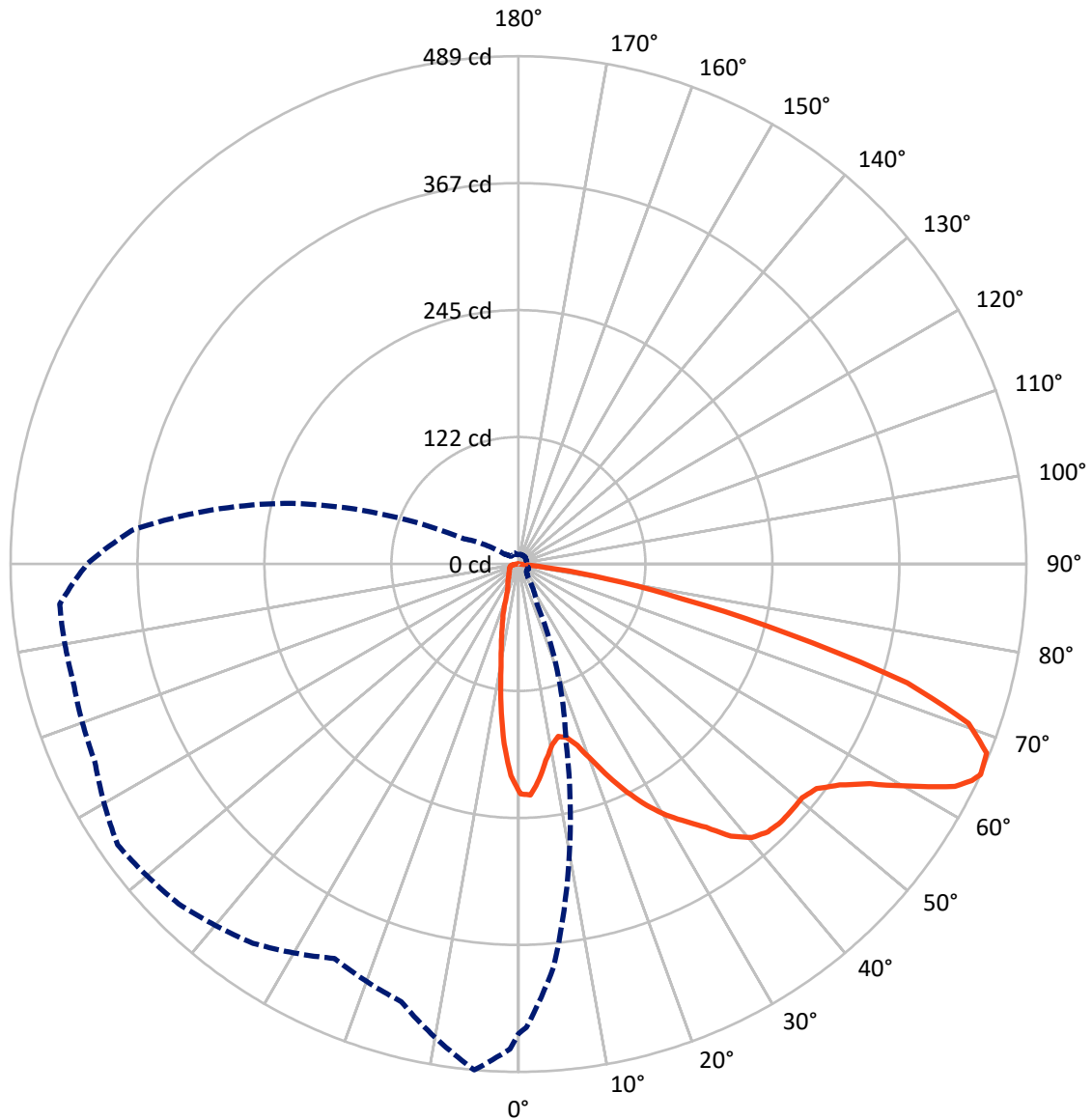


Based on 10 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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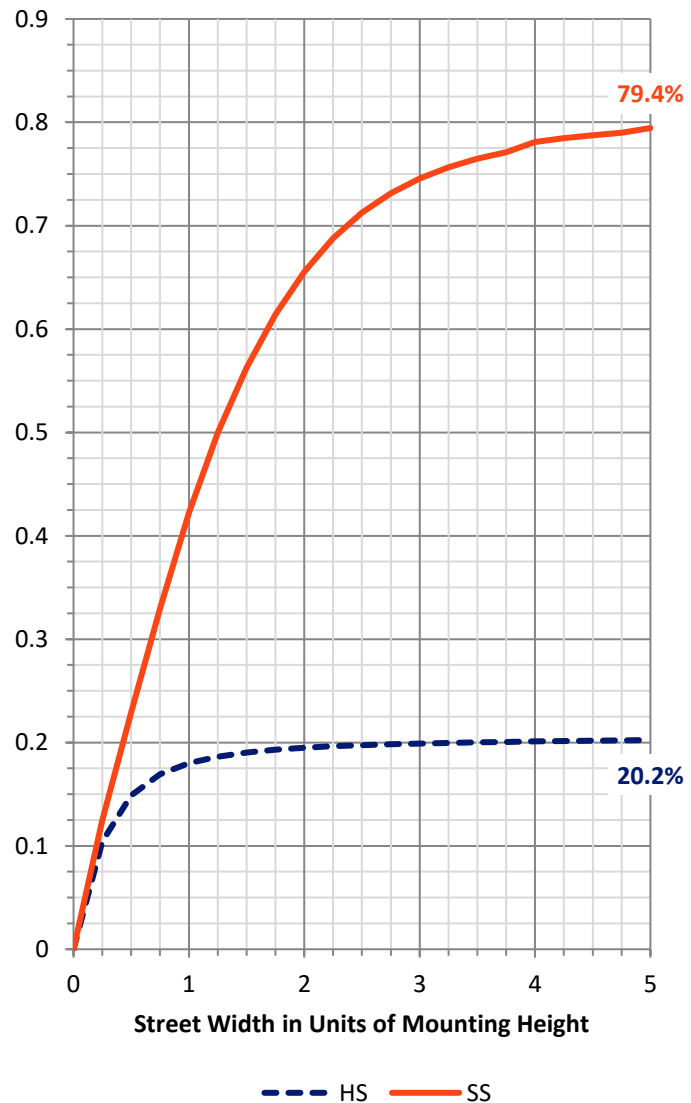
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	127.6	0.0	127.6
	% Fixture	20.5	0.0	20.5
Street Side	Lumens	494.4	0.0	494.4
	% Fixture	79.5	0.0	79.5
Total	Lumens	622.0	0.0	622.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.9	2.7
10°-20°	33.6	5.4
20°-30°	46.6	7.5
30°-40°	65.2	10.5
40°-50°	88.7	14.3
50°-60°	121.3	19.5
60°-70°	148.3	23.8
70°-80°	89.5	14.4
80°-90°	11.8	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	622.0	100.0
0°-180°	622.0	100.0



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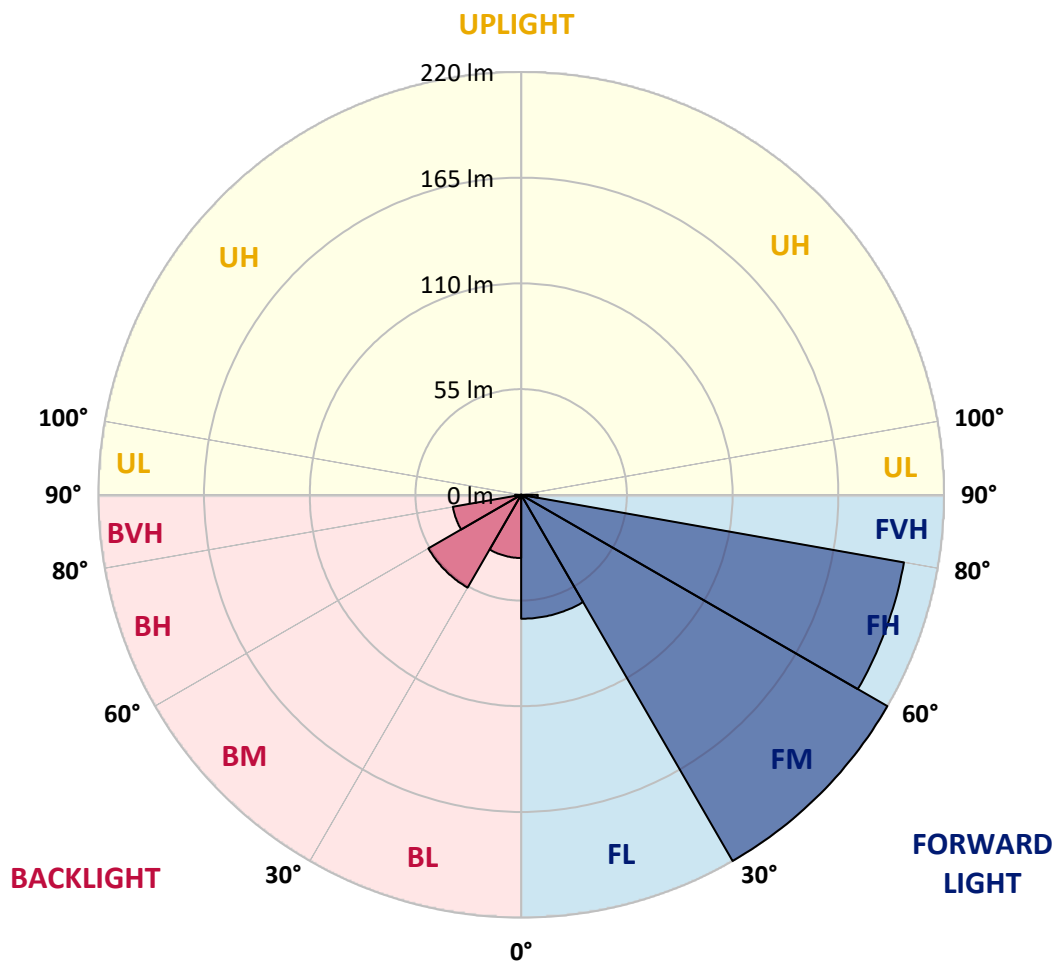
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	64.4	10.3			
FM	(30°-60°)	219.6	35.3			
FH	(60°-80°)	201.8	32.4			G0/660
FVH	(80°-90°)	8.6	1.4			G0/10
BL	(0°-30°)	32.8	5.3	B0/110		
BM	(30°-60°)	55.6	8.9	B0/220		
BH	(60°-80°)	36.0	5.8	B0/110		G0/110
BVH	(80°-90°)	3.2	0.5			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	221.3	221.3	221.3	221.3	221.3	221.3	221.3	221.3	221.3	221.3	221.3
2.5°	220.8	220.2	218.6	214.5	210.0	204.7	203.8	198.0	198.7	197.0	197.4
5°	201.7	200.8	196.6	188.3	176.9	170.4	165.3	162.3	159.8	158.5	160.1
7.5°	183.1	181.9	176.8	162.2	149.6	139.2	130.8	125.8	120.8	116.8	114.9
10°	168.0	167.6	160.8	144.3	128.5	115.8	110.4	104.9	100.7	95.1	90.5
12.5°	160.4	159.1	151.1	131.9	116.5	108.7	103.6	96.7	90.9	84.0	78.1
15°	160.7	159.2	149.3	129.1	112.3	102.9	95.1	86.9	78.3	71.4	65.3
17.5°	169.6	168.6	156.4	131.7	108.8	95.7	83.5	72.9	63.6	54.8	49.4
20°	184.7	183.2	166.3	134.8	104.3	87.5	70.9	56.4	46.3	38.6	34.3
22.5°	204.4	201.5	180.4	138.6	99.9	78.1	57.3	41.1	32.1	28.3	27.1
25°	225.4	223.1	197.3	143.5	95.1	67.9	42.4	29.9	26.7	25.2	24.3
27.5°	244.7	241.0	215.5	148.9	88.7	57.7	32.2	25.7	23.6	22.9	22.4
30°	258.6	255.4	228.1	155.2	83.2	47.1	27.6	23.3	21.6	20.5	20.3
32.5°	271.8	267.2	237.3	158.1	78.6	41.4	25.5	21.6	20.1	18.9	18.5
35°	287.4	282.8	247.8	158.5	75.2	39.0	23.5	20.4	18.7	17.7	17.2
37.5°	305.8	299.6	259.6	158.8	71.8	38.1	21.8	19.3	17.7	16.5	16.1
40°	323.3	318.5	271.8	158.3	69.5	36.7	20.8	18.2	16.6	15.6	15.1
42.5°	336.5	331.4	282.2	156.7	68.1	34.4	21.2	17.4	15.9	14.8	14.1
45°	343.2	338.7	291.7	155.3	67.4	32.5	20.8	17.1	15.4	14.0	13.4
47.5°	348.3	343.9	301.3	154.7	66.2	31.0	19.1	18.2	14.9	13.3	12.7
50°	356.6	352.7	314.4	158.2	64.2	30.1	17.6	19.5	14.7	12.7	12.0
52.5°	371.3	368.8	336.1	166.4	62.1	28.5	16.0	18.6	14.9	12.3	11.4
55°	398.9	397.3	365.8	177.2	60.1	26.5	14.4	16.9	14.8	11.5	10.9
57.5°	428.6	428.2	401.9	186.7	57.2	23.2	13.3	14.2	14.0	10.9	10.2
60°	448.6	447.3	418.5	192.0	53.5	19.1	12.5	12.1	14.4	10.3	9.5
62.5°	455.5	451.0	413.6	190.0	47.8	16.5	11.5	11.0	13.3	9.7	8.7
64°	455.1	448.5	400.6	182.5	44.2	16.0	11.0	10.3	11.8	9.3	8.4
65°	452.7	446.4	389.7	176.7	42.2	16.0	10.7	10.0	10.7	9.0	8.2
67.5°	437.4	429.2	352.8	149.7	37.1	16.2	10.0	9.2	8.9	8.3	7.7
70°	402.5	391.8	302.2	117.7	34.4	16.3	9.2	8.3	8.0	7.6	7.1
72.5°	323.3	308.9	240.5	84.1	31.6	16.0	8.3	7.6	7.3	6.9	6.3
75°	216.8	201.1	177.2	55.4	25.9	14.4	7.2	6.6	6.4	6.0	5.6
77.5°	122.2	115.7	104.6	30.5	17.9	9.9	5.7	5.3	5.4	5.2	4.8
80°	63.9	60.8	56.0	14.8	8.6	4.8	3.6	3.6	4.2	4.2	4.0
82.5°	22.6	22.7	21.9	3.3	1.8	1.5	1.2	1.8	2.4	2.9	2.9
85°	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.7
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	221.3	221.3	221.3	221.3	221.3	221.3	221.3	221.3	221.3	221.3	221.3
2.5°	193.9	194.5	196.2	195.9	197.5	196.8	199.0	200.1	200.7	204.0	205.5
5°	158.8	159.0	165.0	166.2	169.3	167.7	171.5	170.1	173.2	173.6	178.8
7.5°	116.7	117.1	120.0	126.9	133.7	136.5	137.6	139.4	137.9	137.4	138.1
10°	88.7	89.0	89.3	94.2	100.2	106.1	106.1	106.2	103.6	101.0	100.5
12.5°	75.8	73.8	70.7	70.8	75.0	77.8	80.0	77.7	77.3	78.5	79.9
15°	62.4	60.4	58.4	55.9	56.0	57.9	59.1	59.0	61.1	62.0	64.8
17.5°	48.5	45.7	45.8	44.3	42.3	43.6	43.9	45.8	48.5	49.7	50.2
20°	32.6	32.6	33.4	35.2	34.2	35.1	35.2	36.6	37.9	37.1	37.9
22.5°	26.9	26.8	27.1	28.3	29.2	30.0	30.2	30.1	28.8	28.3	29.3
25°	24.4	24.3	24.4	25.1	26.1	27.0	26.6	26.0	24.5	24.4	24.7
27.5°	22.4	22.5	22.7	23.1	23.7	24.9	24.4	23.2	22.5	22.3	22.3
30°	20.6	20.6	21.0	21.4	22.2	23.2	22.5	21.4	20.7	20.5	20.4
32.5°	18.8	19.1	19.5	19.9	20.5	21.5	20.9	20.0	19.2	18.8	18.5
35°	17.1	17.3	17.9	18.5	19.0	19.9	19.5	18.6	17.9	17.0	16.5
37.5°	16.0	16.0	16.3	17.3	17.7	18.3	18.1	17.4	16.2	15.5	15.4
40°	15.1	15.1	15.2	15.7	16.4	17.2	16.7	15.6	14.9	14.6	14.5
42.5°	14.1	14.1	14.2	14.2	15.2	16.4	15.4	14.2	13.9	13.7	13.6
45°	13.3	13.3	13.3	13.2	13.7	15.3	14.1	13.2	13.0	13.0	12.9
47.5°	12.7	12.6	12.5	12.3	12.6	13.8	12.9	12.4	12.3	12.4	12.3
50°	11.9	11.8	11.6	11.5	11.8	12.3	12.1	11.5	11.6	11.6	11.8
52.5°	11.1	11.0	10.9	10.8	11.0	11.4	11.4	11.0	11.0	11.1	11.2
55°	10.7	10.5	10.4	10.4	10.5	11.0	10.9	10.6	10.6	10.8	10.9
57.5°	10.1	9.9	9.9	9.8	10.0	10.6	10.5	10.2	10.2	10.3	10.5
60°	9.5	9.4	9.3	9.5	9.6	10.2	10.1	9.9	9.8	10.1	10.1
62.5°	8.7	8.7	8.7	8.9	9.0	9.8	9.7	9.6	9.6	9.7	9.6
64°	8.3	8.3	8.4	8.5	8.7	9.4	9.4	9.4	9.4	9.4	9.3
65°	8.1	8.1	8.3	8.4	8.5	9.3	9.2	9.3	9.4	9.3	9.0
67.5°	7.6	7.6	7.9	7.9	8.0	8.8	8.7	8.9	9.2	8.9	8.7
70°	7.0	7.1	7.4	7.3	7.5	8.4	8.1	8.5	8.9	8.6	8.4
72.5°	6.3	6.4	6.9	6.7	6.8	7.9	7.5	7.9	8.5	8.3	8.1
75°	5.7	5.8	6.1	6.0	6.2	7.3	6.9	7.3	7.9	7.9	7.8
77.5°	4.9	5.1	5.3	5.2	5.6	6.6	6.1	6.4	7.0	7.4	7.2
80°	4.0	4.3	4.4	4.5	4.9	5.6	5.3	5.4	5.9	6.2	6.3
82.5°	2.7	3.2	3.4	3.5	4.2	4.4	4.5	4.4	4.7	5.1	4.8
85°	0.8	1.0	2.0	2.5	3.1	3.1	3.6	3.4	3.6	3.2	2.7
87.5°	0.0	0.0	0.0	0.7	1.9	1.9	2.6	2.4	2.5	1.9	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	221.3	221.3	221.3	221.3	221.3	221.3	221.3	221.3	221.3	221.3	221.3
2.5°	205.8	207.6	211.6	216.1	218.6	224.0	227.4	230.9	234.4	235.2	236.3
5°	179.8	181.9	186.4	192.5	198.7	205.8	214.2	223.0	232.8	236.9	241.0
7.5°	140.1	140.5	146.9	158.0	163.4	173.6	185.5	199.1	214.2	222.0	230.3
10°	103.5	107.8	112.5	121.8	135.4	147.2	161.8	177.8	193.5	204.8	213.4
12.5°	81.3	86.7	94.7	104.8	115.1	126.3	143.2	160.3	179.6	189.8	200.4
15°	67.0	73.8	84.1	94.9	104.4	114.3	129.4	150.3	175.1	185.5	194.9
17.5°	53.0	60.6	71.7	82.9	94.3	106.4	123.9	149.8	179.9	192.0	201.8
20°	40.7	46.6	55.9	67.2	80.6	97.1	119.5	153.7	194.4	209.5	215.9
22.5°	30.2	33.6	40.9	52.7	68.5	88.9	115.1	159.3	212.3	230.0	234.9
25°	25.0	25.9	29.2	39.5	55.9	79.7	111.8	166.6	230.2	250.0	253.6
27.5°	22.5	23.0	24.5	28.4	43.7	72.1	107.4	175.1	249.0	269.9	269.6
30°	20.3	20.4	21.3	24.0	35.5	65.3	102.3	184.4	265.8	284.2	283.2
32.5°	18.3	18.3	19.6	21.6	30.3	59.2	96.2	191.2	280.3	295.8	292.8
35°	16.5	16.9	18.0	20.1	26.8	52.3	90.5	193.7	292.8	309.9	301.3
37.5°	15.3	15.7	16.9	18.8	23.9	47.2	85.8	196.6	308.2	326.8	310.9
40°	14.5	14.8	15.8	17.5	21.6	43.0	80.7	198.6	323.5	344.9	321.0
42.5°	13.6	13.9	15.0	16.5	20.6	38.0	75.8	199.7	339.4	360.6	329.4
45°	12.9	13.3	14.4	15.8	20.7	33.5	71.8	199.3	349.0	372.0	336.0
47.5°	12.4	12.8	13.9	15.8	20.1	30.9	68.3	197.8	356.0	379.3	339.0
50°	11.9	12.3	13.6	17.5	19.0	30.2	65.7	197.6	363.4	380.8	339.0
52.5°	11.3	12.1	13.7	17.6	17.5	29.9	63.7	203.1	373.6	383.3	342.0
55°	11.0	11.6	14.1	16.2	15.3	28.8	62.4	210.7	390.8	397.0	357.2
57.5°	10.6	11.1	13.9	15.2	13.6	26.4	61.4	218.0	413.3	422.5	387.4
60°	10.1	10.7	13.5	13.0	12.4	22.5	60.7	224.0	421.8	438.9	420.0
62.5°	9.6	10.3	14.8	11.3	11.4	18.7	59.6	229.9	404.0	435.0	440.9
64°	9.3	10.0	13.7	10.6	10.9	17.1	58.5	230.2	388.3	425.6	444.9
65°	9.0	9.7	12.8	10.2	10.5	16.6	57.4	225.8	373.5	415.6	443.7
67.5°	8.7	9.2	9.9	9.5	9.8	15.9	50.3	206.6	342.1	389.9	425.9
70°	8.3	8.6	8.7	8.6	9.2	15.4	42.5	179.2	307.8	363.0	398.3
72.5°	7.9	7.9	7.9	7.8	8.4	14.7	38.3	144.8	266.0	327.6	363.8
75°	7.6	7.3	7.2	7.0	7.7	14.2	34.5	108.7	205.5	272.9	304.9
77.5°	7.0	6.7	6.3	6.1	6.9	12.7	28.8	76.8	151.5	198.6	235.3
80°	6.0	5.8	5.4	5.1	5.7	10.0	21.8	47.4	110.9	134.1	154.4
82.5°	4.9	4.8	4.4	4.0	4.2	7.2	14.9	24.1	74.0	72.8	86.2
85°	3.0	3.7	3.2	2.6	2.8	4.2	6.0	7.7	22.7	13.6	21.1
87.5°	1.8	2.4	2.0	1.4	1.0	1.9	1.7	1.6	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



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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	221.3	221.3	221.3	221.3	221.3	221.3	221.3	221.3	221.3	221.3
2.5°	239.0	240.4	241.1	238.4	235.5	232.9	227.9	222.9	220.3	220.8
5°	248.8	251.1	251.7	247.8	239.5	231.1	218.9	208.4	202.1	201.7
7.5°	245.1	252.5	253.8	249.5	237.8	222.1	205.5	190.9	184.5	183.1
10°	231.7	243.2	246.9	245.5	234.0	216.0	196.0	177.3	171.0	168.0
12.5°	218.1	230.1	232.4	233.8	226.9	211.7	189.6	170.5	162.9	160.4
15°	209.2	217.4	218.0	219.4	217.9	209.6	192.5	173.3	164.1	160.7
17.5°	207.9	205.0	203.0	205.8	207.6	209.7	200.1	183.8	174.0	169.6
20°	208.1	199.1	193.5	193.3	200.8	212.4	215.5	201.5	188.8	184.7
22.5°	215.7	196.0	186.6	185.5	194.7	217.0	231.2	222.5	209.8	204.4
25°	227.1	194.1	181.7	182.0	191.3	220.0	244.6	243.5	232.4	225.4
27.5°	238.0	197.2	181.1	181.9	192.4	222.0	255.8	263.3	250.8	244.7
30°	246.7	204.2	183.0	183.7	196.0	224.7	261.3	280.8	265.8	258.6
32.5°	254.3	210.7	185.8	186.3	201.6	228.5	266.5	295.6	280.3	271.8
35°	261.2	216.3	190.0	191.8	208.8	234.0	271.8	311.6	298.1	287.4
37.5°	267.2	223.2	198.5	201.4	219.3	242.0	278.7	332.7	318.0	305.8
40°	270.6	229.3	210.9	215.3	232.9	252.4	287.4	346.5	337.0	323.3
42.5°	273.2	237.8	231.0	238.9	254.0	262.2	291.5	352.6	348.2	336.5
45°	274.6	254.4	261.2	268.6	277.8	272.9	289.3	354.7	353.3	343.2
47.5°	280.7	279.5	296.1	306.3	305.8	289.1	284.9	354.5	356.7	348.3
50°	293.2	308.7	332.0	342.0	338.1	304.1	284.1	354.2	363.3	356.6
52.5°	308.1	337.9	370.8	375.0	366.9	319.4	290.3	359.6	375.8	371.3
55°	327.6	365.4	401.3	402.6	391.2	334.3	303.6	375.5	399.1	398.9
57.5°	354.9	390.0	426.9	425.2	409.1	354.9	325.0	399.3	425.0	428.6
60°	384.5	416.1	447.6	446.6	429.5	378.6	354.5	434.6	447.7	448.6
62.5°	412.9	440.2	467.5	463.1	443.7	403.2	395.2	472.0	462.4	455.5
64°	431.4	448.3	472.6	465.6	447.2	414.9	418.8	484.2	466.6	455.1
65°	443.7	450.3	471.5	463.0	446.0	419.3	436.5	489.3	467.3	452.7
67.5°	465.8	438.9	440.5	433.7	418.5	415.2	465.7	486.5	459.3	437.4
70°	459.6	393.3	371.8	367.6	349.4	368.1	462.0	460.0	429.3	402.5
72.5°	407.2	315.8	285.0	281.1	255.9	279.0	398.7	391.8	345.4	323.3
75°	335.5	239.3	203.6	206.8	187.5	208.9	317.1	268.5	230.0	216.8
77.5°	260.4	169.1	140.6	136.8	132.9	135.2	218.0	161.2	134.4	122.2
80°	166.0	106.3	105.5	96.4	93.3	78.6	112.0	85.8	67.5	63.9
82.5°	88.2	61.3	69.6	55.8	44.8	32.2	38.0	25.5	21.5	22.6
85°	24.1	12.7	3.5	0.0	0.0	0.0	0.0	0.1	0.1	0.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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