

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: P181682

Luminaire Tested: **ICS-F01-LED-E1-T4-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181682
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33673)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-F01-LED-E1-T4-8030
Description: ICON SITE SMALL LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (7) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1895.1 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

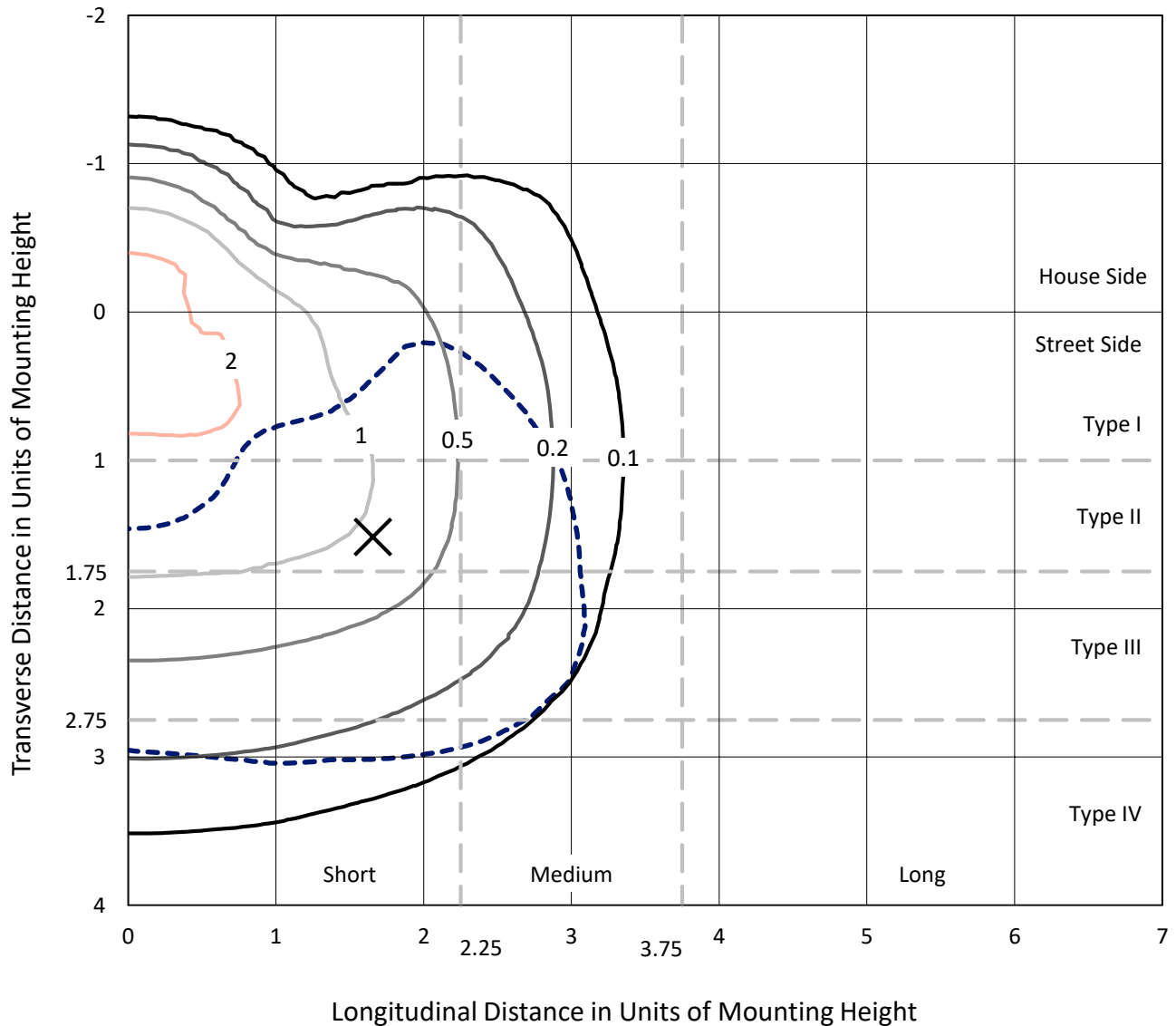
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

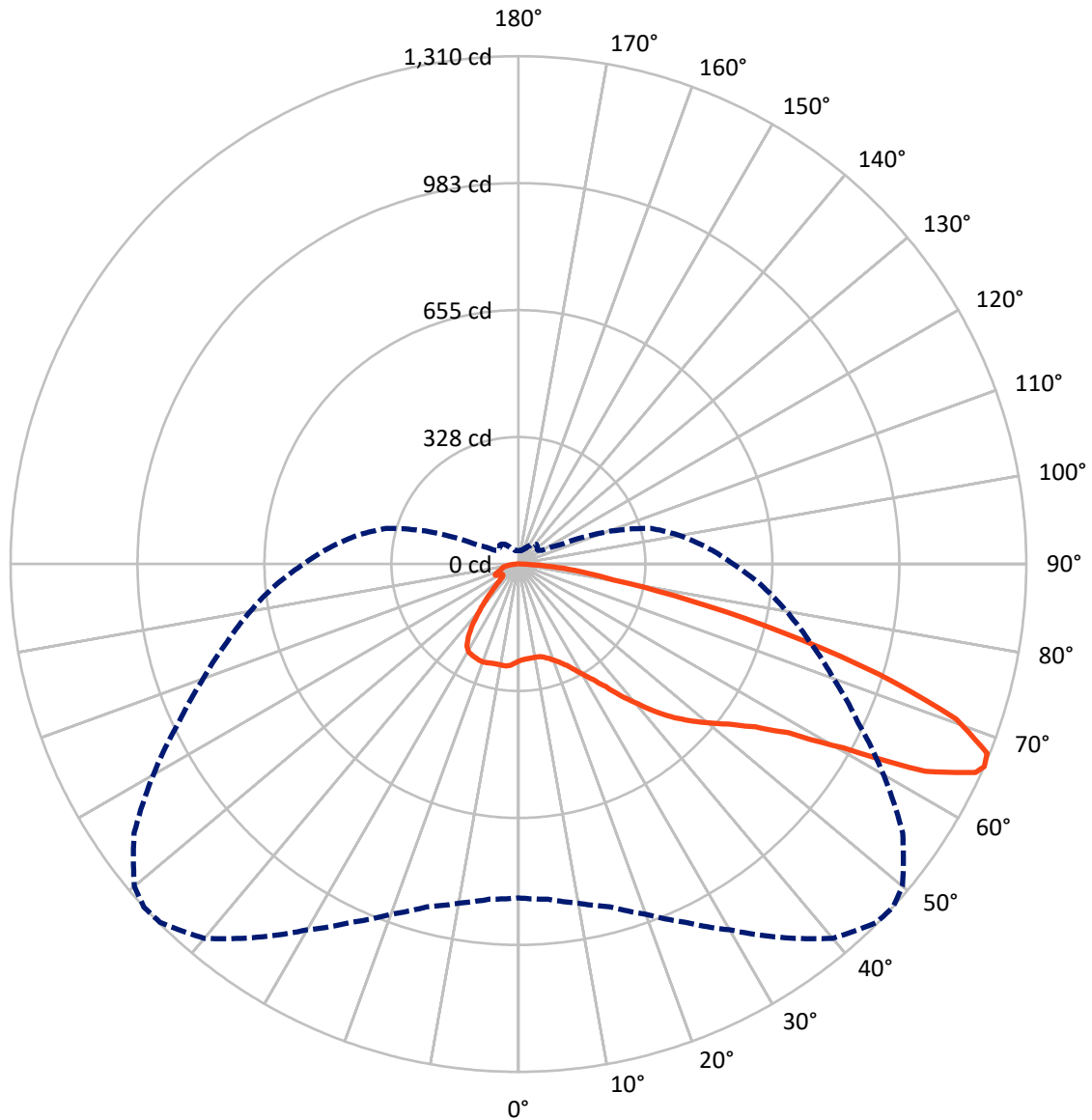
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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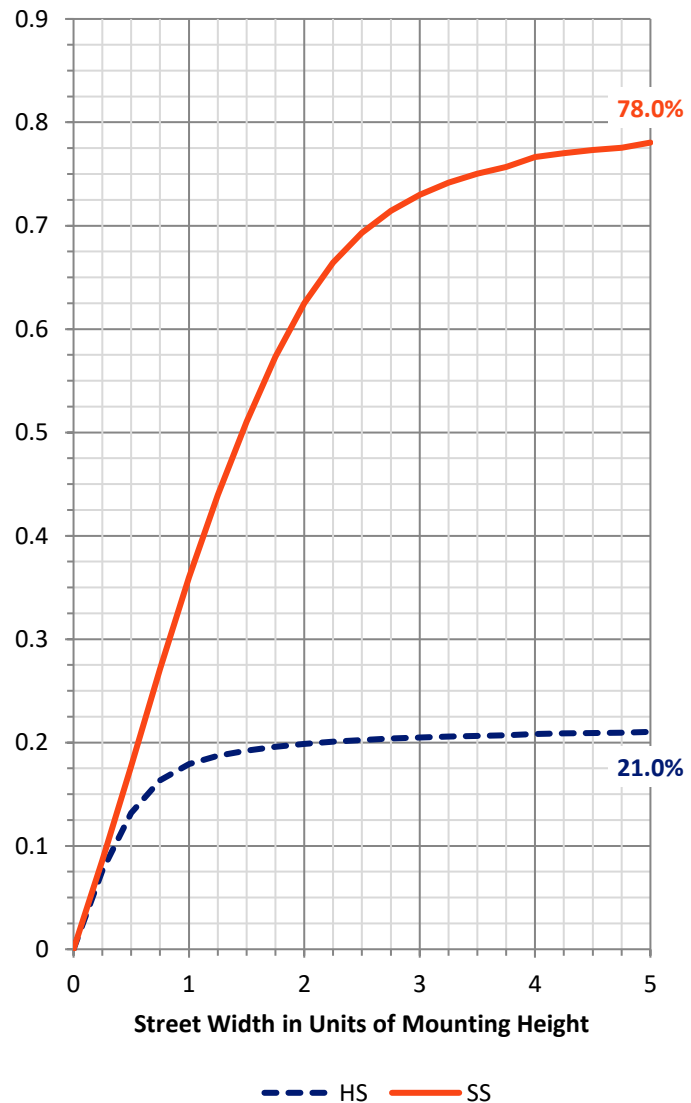
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	404.4	0.0	404.4
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	1490.7	0.0	1490.7
	% Fixture	78.7	0.0	78.7
Total	Lumens	1895.1	0.0	1895.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.3	1.3
10°-20°	73.6	3.9
20°-30°	126.8	6.7
30°-40°	191.9	10.1
40°-50°	248.8	13.1
50°-60°	342.9	18.1
60°-70°	532.8	28.1
70°-80°	309.8	16.3
80°-90°	44.1	2.3
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°	1895.1	100.0
0°-180°	1895.1	100.0



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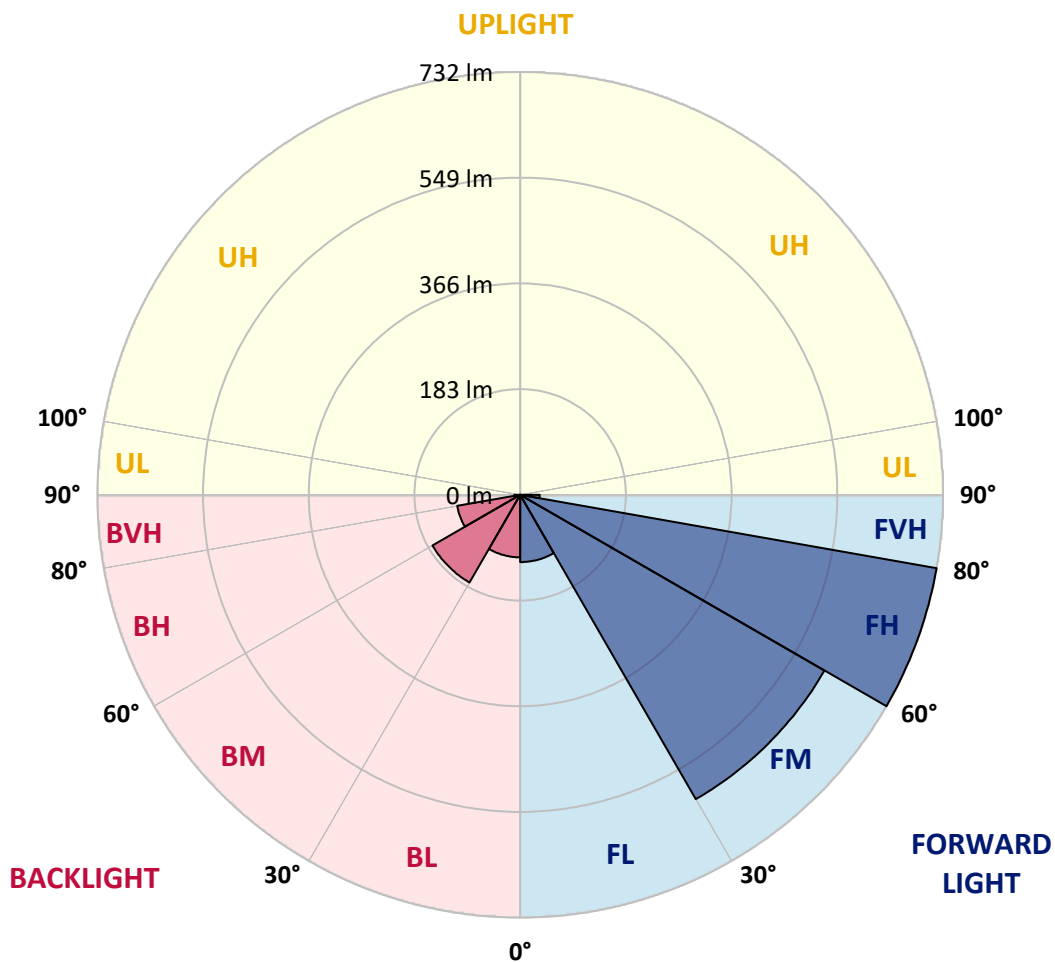
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	116.5	6.1			
FM	(30°-60°)	608.3	32.1			
FH	(60°-80°)	732.1	38.6			G1/1800
FVH	(80°-90°)	33.8	1.8			G1/100
BL	(0°-30°)	108.2	5.7	B0/110		
BM	(30°-60°)	175.3	9.2	B0/220		
BH	(60°-80°)	110.6	5.8	B1/500		G1/500
BVH	(80°-90°)	10.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	249.8	249.8	249.8	249.8	249.8	249.8	249.8	249.8	249.8	249.8	249.8
2.5°	245.2	246.0	245.4	245.6	245.6	245.8	245.8	246.0	245.8	246.4	246.9
5°	240.8	241.2	241.0	241.4	241.9	242.7	242.5	243.5	243.7	244.4	245.4
7.5°	239.1	238.7	238.9	239.6	240.0	240.4	240.8	241.6	242.3	243.7	244.6
10°	240.8	240.6	240.8	241.2	241.2	241.4	241.0	241.9	242.3	243.5	244.4
12.5°	247.7	247.7	247.3	247.3	246.9	246.4	245.4	244.8	244.6	244.8	245.2
15°	258.8	258.4	257.5	256.9	256.1	254.6	253.1	251.9	251.0	249.8	249.4
17.5°	269.7	269.0	268.2	267.4	266.3	264.8	262.5	261.1	258.8	257.3	256.5
20°	282.2	280.9	279.9	278.8	276.8	276.3	274.0	271.5	268.8	265.5	265.1
22.5°	298.5	296.4	295.2	294.5	292.4	291.8	288.0	284.5	281.1	276.8	275.7
25°	315.0	312.9	312.3	311.5	310.0	309.2	305.6	301.6	297.2	291.2	289.9
27.5°	331.1	331.3	329.6	330.3	329.9	328.4	324.8	320.9	317.5	310.4	308.9
30°	351.2	349.9	349.1	350.3	348.9	349.1	345.9	343.9	338.4	334.2	331.3
32.5°	372.1	371.9	373.1	374.0	373.7	373.3	370.8	368.7	363.9	357.9	356.6
35°	400.7	402.0	403.0	406.8	406.8	409.5	407.0	404.5	398.8	391.5	389.0
37.5°	420.2	420.6	424.8	429.8	436.0	441.9	443.6	444.2	441.9	436.5	432.7
40°	437.9	438.8	445.4	453.2	462.4	473.9	480.8	483.9	484.5	482.0	473.9
42.5°	455.7	456.9	463.8	475.1	487.9	502.5	514.6	522.4	526.8	526.8	522.0
45°	476.4	478.1	485.6	497.9	512.8	531.2	547.9	562.7	569.8	570.2	565.6
47.5°	500.8	502.3	511.1	523.6	538.9	557.5	578.6	595.5	608.7	609.5	605.8
50°	532.4	534.5	541.8	553.1	568.8	587.6	608.7	632.3	646.1	649.5	645.5
52.5°	574.2	574.6	580.7	591.1	606.4	624.4	646.7	672.5	690.6	693.4	686.9
55°	631.9	631.3	635.2	646.5	658.0	672.0	695.2	724.1	744.4	748.5	741.9
57.5°	710.3	709.7	713.0	715.7	737.3	750.8	773.6	801.2	820.9	833.0	821.5
60°	831.7	831.1	836.5	852.4	868.5	888.4	910.5	943.6	971.2	974.7	963.4
62.5°	919.7	922.9	934.8	953.4	986.0	1024.9	1065.4	1108.9	1165.6	1183.5	1178.1
65°	889.0	895.3	911.8	940.0	983.5	1037.2	1100.8	1179.6	1255.4	1297.9	1296.6
66°	861.4	868.3	888.6	915.8	961.8	1020.5	1089.9	1175.8	1260.7	1307.5	1310.4
67.5°	811.3	819.0	838.8	871.0	915.8	978.3	1052.9	1146.3	1242.3	1296.8	1304.6
70°	713.6	722.4	736.8	763.4	807.5	863.3	941.9	1025.5	1126.1	1188.6	1198.0
72.5°	596.6	604.3	620.4	642.1	678.3	713.4	775.1	836.8	908.7	979.9	973.0
75°	428.3	431.7	441.3	464.9	484.3	515.9	565.4	616.0	665.1	697.7	702.3
77.5°	222.6	231.4	245.0	271.1	292.2	320.7	352.8	390.9	426.8	456.7	448.6
80°	145.7	149.5	161.6	175.0	190.4	208.6	230.1	244.4	249.0	247.1	249.0
82.5°	84.0	90.9	107.0	117.3	128.8	135.0	152.2	168.5	177.7	166.2	162.0
85°	10.7	13.8	43.5	54.8	62.7	72.1	77.3	87.2	81.3	72.7	88.6
87.5°	2.3	2.1	2.9	6.3	6.5	5.4	10.2	10.9	6.7	3.3	4.2
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	249.8	249.8	249.8	249.8	249.8	249.8	249.8	249.8	249.8	249.8	249.8
2.5°	247.3	247.5	247.9	248.5	249.0	249.4	249.8	250.4	250.8	251.3	252.1
5°	246.2	247.1	247.9	248.7	249.8	251.5	252.5	253.3	254.2	255.9	256.5
7.5°	245.6	247.1	248.3	249.8	251.5	252.9	254.8	255.9	257.1	258.2	259.4
10°	245.2	247.3	248.5	250.6	252.5	254.0	256.1	257.3	258.8	260.0	260.7
12.5°	246.0	247.1	248.3	250.4	252.7	254.8	257.1	258.2	259.4	260.5	260.7
15°	249.6	249.6	249.8	251.5	253.8	255.4	257.3	258.4	259.0	259.6	259.6
17.5°	256.1	254.6	253.6	253.8	255.2	256.3	257.3	257.3	256.9	256.7	256.3
20°	263.6	261.7	259.6	258.2	257.7	256.9	256.3	254.2	252.5	251.0	250.0
22.5°	274.5	271.5	268.6	265.9	263.4	260.2	256.7	252.5	248.5	245.8	244.1
25°	287.8	285.5	282.0	277.8	274.7	268.8	264.2	258.2	253.1	249.6	246.7
27.5°	306.9	304.1	300.8	297.0	292.4	286.0	280.3	273.2	267.1	261.9	258.2
30°	330.5	326.9	324.4	319.8	316.7	309.4	303.7	294.9	283.2	274.9	269.7
32.5°	354.7	350.8	348.7	345.1	341.6	337.2	328.6	315.0	300.0	286.4	277.4
35°	387.1	382.9	379.2	376.0	370.8	362.7	355.1	338.8	318.1	299.1	284.1
37.5°	427.9	421.0	411.6	403.6	394.4	382.7	371.2	354.5	330.9	306.2	286.2
40°	471.4	459.2	445.9	431.0	415.1	398.2	385.0	368.1	341.6	312.3	284.7
42.5°	516.7	497.5	478.9	458.0	435.8	415.8	398.6	380.0	349.5	314.0	278.8
45°	561.7	540.1	511.9	484.5	456.5	431.7	412.4	391.5	356.8	314.6	271.1
47.5°	598.9	576.7	544.5	510.2	477.0	448.8	426.2	403.6	366.6	319.0	269.2
50°	638.2	611.2	575.5	534.9	497.3	465.7	441.7	418.3	380.4	330.3	275.3
52.5°	681.0	650.1	608.3	562.9	521.7	486.4	460.3	436.2	398.0	346.2	286.8
55°	733.3	695.4	650.1	598.9	554.8	515.7	486.8	458.4	418.9	365.0	301.2
57.5°	813.1	766.7	715.7	657.4	608.5	562.3	527.8	495.0	451.3	393.0	320.9
60°	957.6	908.0	841.8	771.1	713.6	659.7	609.1	568.4	514.6	448.2	364.3
62.5°	1164.5	1098.7	1010.3	911.4	836.1	758.4	701.3	640.7	574.0	502.3	415.6
65°	1279.5	1199.6	1081.3	966.6	869.8	785.3	712.8	642.6	568.6	500.0	427.5
66°	1293.7	1210.5	1087.6	966.8	865.2	778.4	702.1	629.4	553.7	488.3	422.5
67.5°	1287.8	1202.8	1076.1	948.6	845.3	752.1	673.3	597.8	522.4	461.3	405.7
70°	1191.9	1111.2	986.8	863.3	765.3	673.3	598.0	523.8	454.6	402.4	361.4
72.5°	989.8	920.8	812.7	715.7	638.8	562.9	499.2	428.3	369.8	331.1	306.9
75°	714.5	672.7	574.2	518.6	451.1	400.7	338.8	296.8	254.8	236.0	231.8
77.5°	451.3	395.1	332.6	273.8	225.1	186.7	145.3	123.3	102.8	100.8	121.7
80°	228.5	205.7	158.4	126.3	106.2	85.9	67.9	51.4	36.0	43.3	51.8
82.5°	149.7	124.8	97.8	80.5	70.0	58.1	45.2	31.4	23.0	25.9	35.5
85°	80.9	69.0	55.6	43.9	35.5	31.8	21.3	15.1	14.8	15.9	20.3
87.5°	5.9	5.9	4.6	4.2	5.0	4.2	3.8	3.8	3.6	3.8	5.0
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	249.8	249.8	249.8	249.8	249.8	249.8	249.8	249.8	249.8	249.8	249.8
2.5°	252.5	253.1	253.3	254.4	255.0	255.4	255.9	255.9	256.1	256.7	256.9
5°	257.3	258.4	259.6	260.5	260.9	262.1	262.5	262.5	263.0	263.8	264.4
7.5°	260.2	261.7	263.0	263.4	264.2	264.6	265.3	265.7	265.7	266.5	266.9
10°	261.3	262.1	263.4	263.4	264.2	264.2	264.8	265.1	265.1	265.9	266.5
12.5°	261.3	261.7	262.8	262.8	263.4	263.6	264.4	265.1	265.3	266.3	267.1
15°	260.0	260.5	261.3	261.5	263.0	263.8	265.7	266.9	266.9	268.0	268.4
17.5°	256.5	257.5	259.2	260.9	263.6	265.5	267.8	268.8	268.0	267.4	266.7
20°	250.6	252.5	256.5	260.7	265.5	268.0	269.2	268.2	265.3	262.3	260.5
22.5°	244.8	248.5	255.2	261.5	266.9	268.6	268.0	264.2	259.4	255.9	253.3
25°	247.5	251.9	258.4	264.0	267.6	267.1	264.6	259.4	254.2	249.6	245.4
27.5°	258.8	263.6	267.1	269.0	268.6	265.7	261.7	255.9	249.6	243.5	237.7
30°	269.4	272.0	272.8	271.3	268.0	263.2	258.2	251.5	243.1	235.6	228.9
32.5°	274.3	271.7	267.8	263.8	258.4	254.2	247.3	240.0	229.5	220.5	213.8
35°	274.3	264.2	254.2	245.8	237.7	232.4	224.5	214.7	205.1	197.5	192.3
37.5°	268.2	249.0	232.4	218.9	208.6	203.0	191.1	182.3	174.1	171.6	168.3
40°	257.1	228.7	204.9	187.1	174.1	165.8	153.8	147.8	144.7	143.4	142.8
42.5°	242.3	206.1	174.3	152.4	138.4	129.0	121.0	117.3	117.1	116.8	116.8
45°	226.4	181.9	144.7	118.5	106.2	97.8	94.1	92.6	93.9	93.6	93.9
47.5°	216.6	163.5	117.5	89.7	80.3	74.8	73.0	73.6	74.6	74.2	74.2
50°	215.3	154.1	99.3	69.8	62.7	60.0	59.6	59.6	60.2	59.8	59.6
52.5°	219.9	152.6	89.9	60.0	54.3	52.0	51.6	51.4	51.2	50.0	48.9
55°	227.8	155.9	87.2	57.5	51.6	49.1	48.5	48.1	47.2	45.6	43.7
57.5°	243.7	166.4	89.7	58.7	52.5	50.4	49.7	49.7	48.1	45.4	42.6
60°	282.0	192.9	99.9	63.5	56.4	54.3	54.8	54.6	52.0	48.1	43.9
62.5°	331.3	227.6	113.3	70.2	61.5	61.0	63.1	62.7	58.5	52.5	46.4
65°	354.1	243.9	117.1	71.7	62.5	64.4	68.6	68.1	62.9	54.6	46.8
66°	354.5	243.9	115.4	70.4	61.0	63.3	67.5	67.3	62.1	53.7	46.0
67.5°	345.9	237.3	110.6	67.9	58.1	59.8	63.5	63.3	58.5	51.6	44.3
70°	313.8	212.4	98.2	63.5	54.1	53.3	54.6	53.7	50.6	45.8	40.8
72.5°	268.8	178.3	85.7	60.2	51.4	48.1	47.2	46.6	44.1	41.4	38.3
75°	211.7	141.1	75.3	57.7	48.9	44.5	43.1	42.2	40.6	38.7	36.2
77.5°	130.6	101.0	65.6	54.3	47.0	42.6	41.6	40.3	37.8	35.5	33.7
80°	58.3	62.5	53.9	47.5	42.0	38.0	36.4	34.5	32.0	30.5	29.5
82.5°	38.9	40.3	39.1	35.5	31.8	28.6	26.1	26.1	25.7	24.5	24.0
85°	24.9	25.1	24.2	21.9	20.5	18.6	17.6	17.8	18.6	18.4	18.2
87.5°	5.6	5.6	6.7	6.3	7.3	7.7	8.4	9.0	10.2	10.2	10.9
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):

	160°	165°	170°	175°	180°
0°	249.8	249.8	249.8	249.8	249.8
2.5°	257.1	257.5	257.9	257.3	257.5
5°	264.4	264.2	265.3	264.6	265.1
7.5°	266.7	266.9	267.8	267.8	268.0
10°	266.9	267.4	268.4	269.0	269.4
12.5°	268.0	268.8	270.5	270.9	270.9
15°	268.8	269.2	270.3	270.7	271.1
17.5°	265.9	265.1	265.5	265.7	265.5
20°	258.6	257.7	257.5	256.7	257.1
22.5°	250.6	248.3	246.9	245.2	245.2
25°	241.0	237.5	234.5	231.6	232.2
27.5°	232.0	227.4	224.5	222.6	222.2
30°	223.2	218.4	215.7	213.4	213.4
32.5°	208.6	205.3	201.7	200.3	200.0
35°	188.3	186.2	183.3	182.7	181.6
37.5°	165.6	164.9	162.4	162.2	161.2
40°	141.7	142.1	141.3	140.9	140.3
42.5°	117.9	120.0	119.6	119.4	118.9
45°	95.1	96.6	96.8	97.4	98.5
47.5°	74.8	75.3	75.7	75.5	75.7
50°	58.5	57.5	57.3	56.6	57.3
52.5°	47.2	45.6	44.7	43.9	43.5
55°	41.6	39.9	39.1	38.7	38.3
57.5°	40.1	38.5	37.2	36.4	36.2
60°	40.6	38.0	36.4	35.3	35.1
62.5°	41.6	38.3	36.0	34.9	34.7
65°	41.4	37.8	35.7	34.5	34.3
66°	40.8	37.4	35.3	34.3	34.1
67.5°	39.7	36.8	34.9	34.1	33.7
70°	37.8	36.0	34.5	33.4	33.0
72.5°	36.2	34.7	33.4	32.4	32.2
75°	34.3	33.0	31.8	30.9	30.7
77.5°	32.0	30.7	29.9	29.3	29.1
80°	28.2	27.4	26.5	25.7	25.7
82.5°	23.4	22.8	21.9	21.3	21.1
85°	18.0	18.0	17.3	16.7	16.5
87.5°	10.7	10.5	10.5	9.8	9.8
90°	0.0	0.0	0.0	0.0	0.0

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