

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: P181624

Luminaire Tested: **ICM-F01-LED-E1-T4**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181624
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: ICM-F01-LED-E1-T4
Description: ICON SITE MEDIUM LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (7) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2320.7 lumens
Efficiency: N/A
Efficacy: 89.6 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

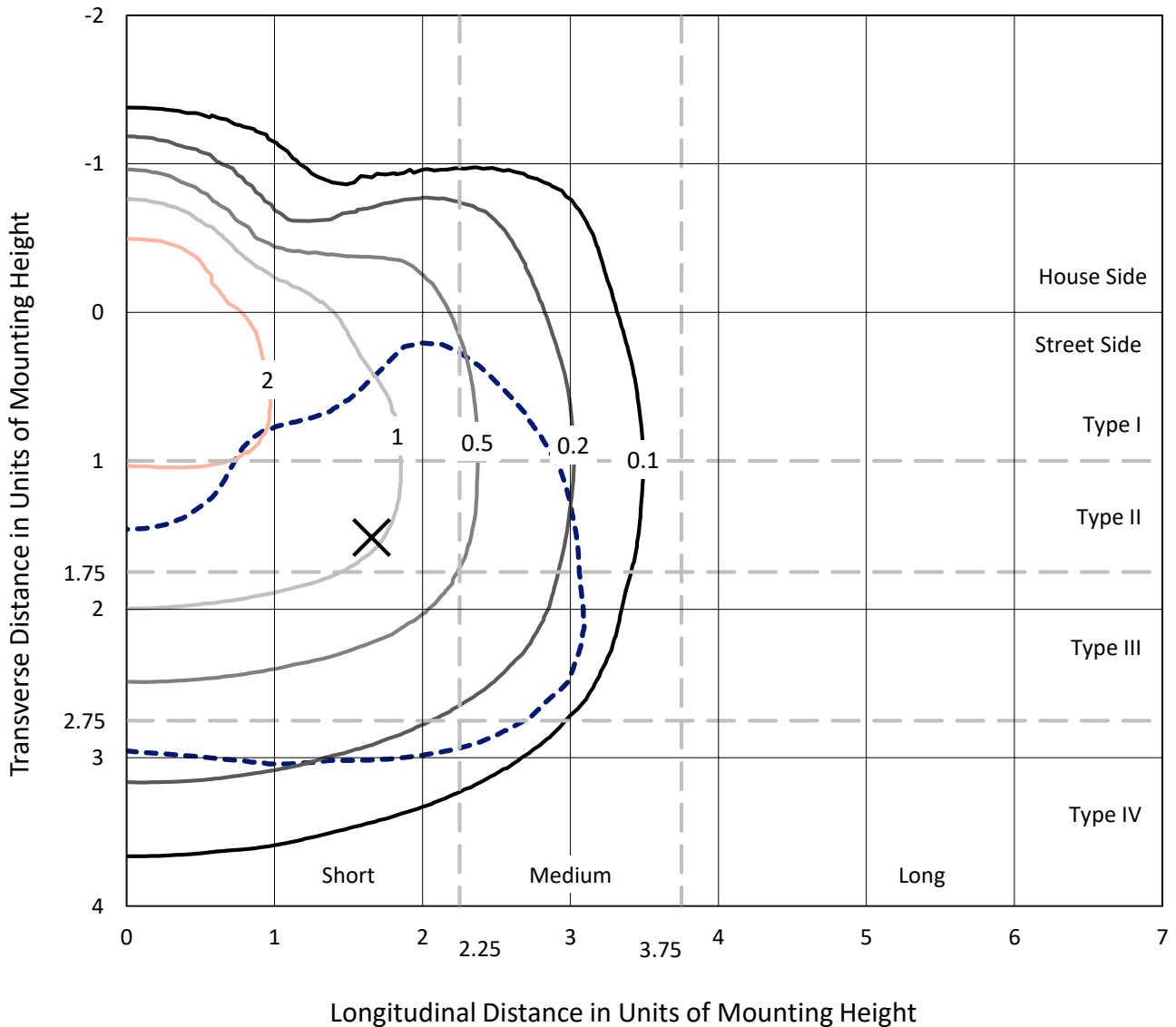
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

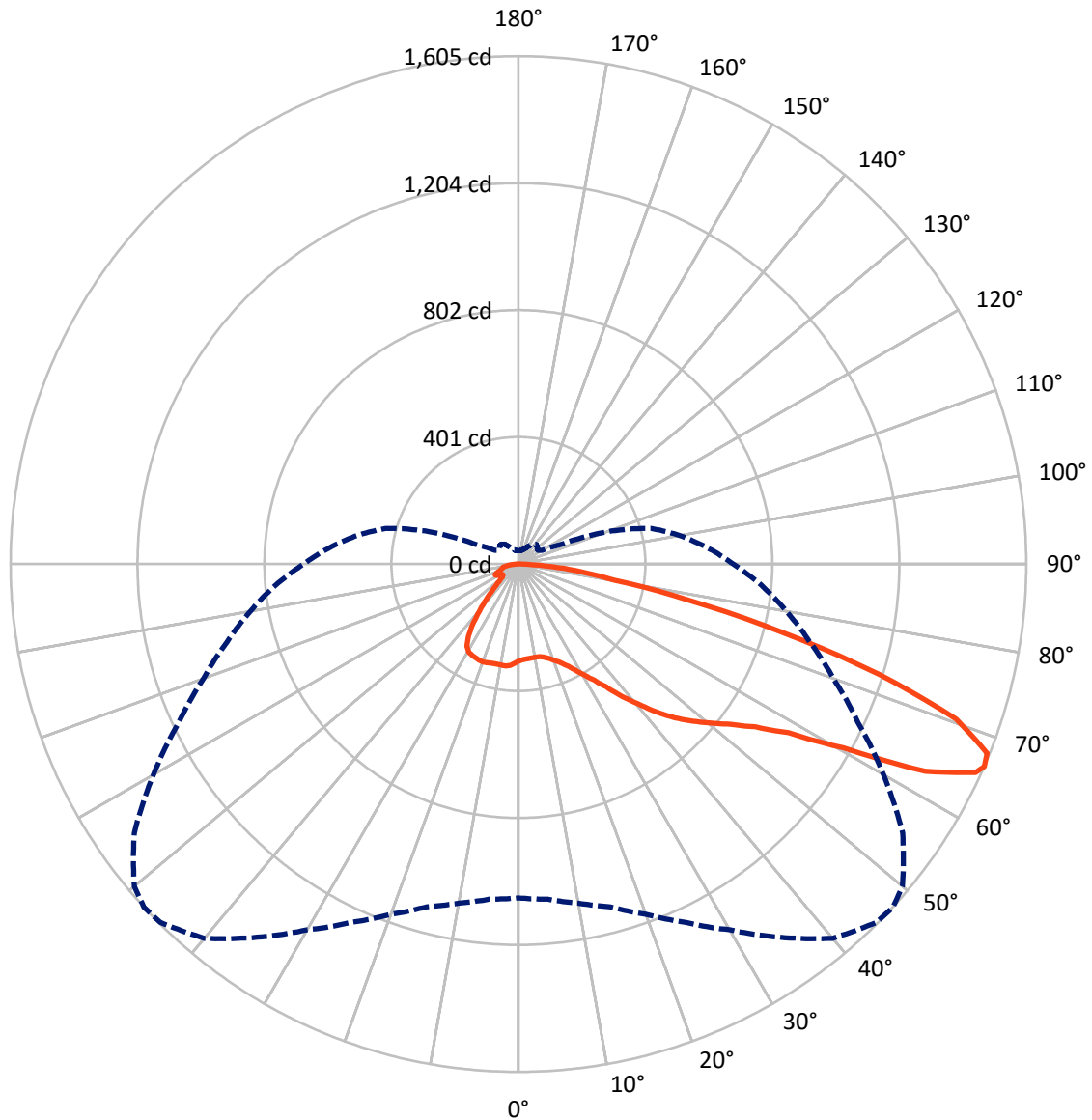
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.2 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	495.2	0.0	495.2
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	1825.5	0.0	1825.5
	% Fixture	78.7	0.0	78.7
Total	Lumens	2320.7	0.0	2320.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.7	1.3
10°-20°	90.2	3.9
20°-30°	155.3	6.7
30°-40°	235.0	10.1
40°-50°	304.6	13.1
50°-60°	420.0	18.1
60°-70°	652.5	28.1
70°-80°	379.4	16.3
80°-90°	54.0	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°	2320.7	100.0
0°-180°	2320.7	100.0

Coefficient of Utilization



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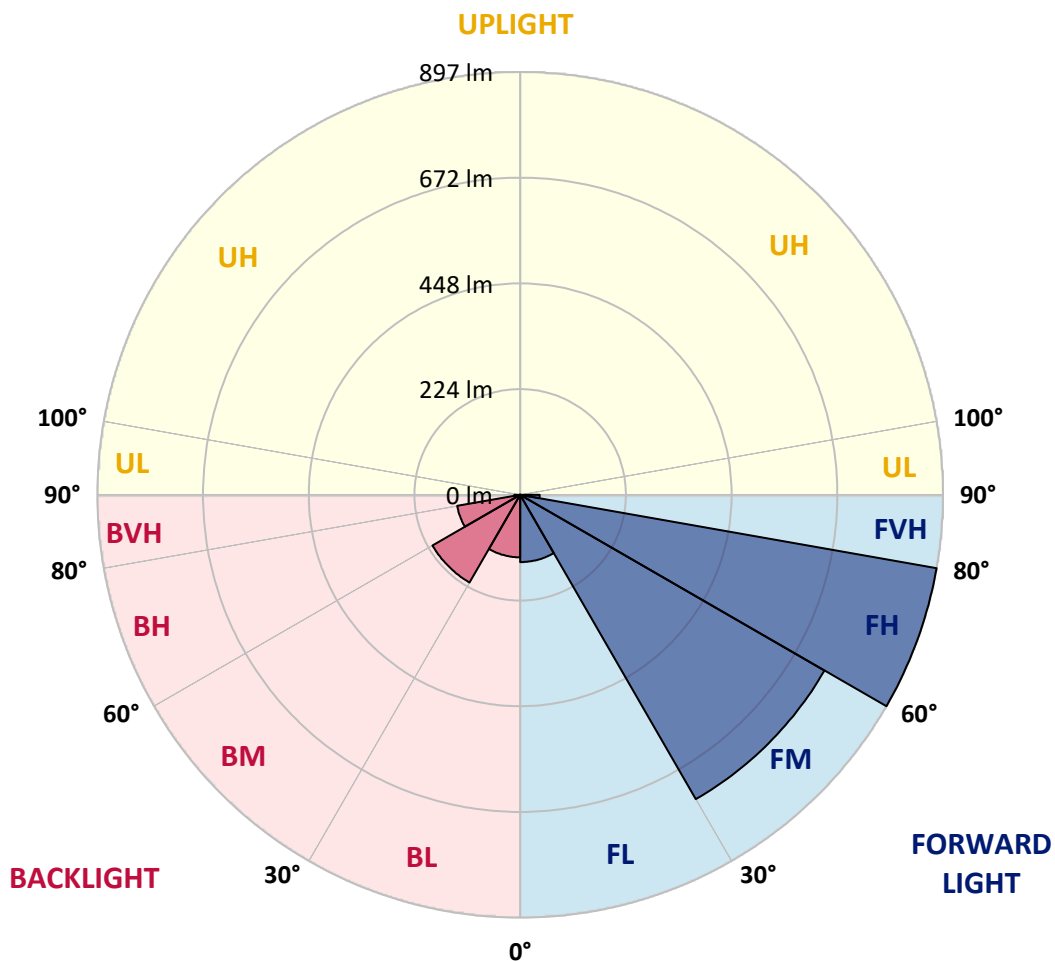
CATALOG NUMBER: ICM-F01-LED-E1-T4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	142.7	6.1			
FM	(30°-60°)	745.0	32.1			
FH	(60°-80°)	896.5	38.6			G1/1800
FVH	(80°-90°)	41.4	1.8			G1/100
BL	(0°-30°)	132.5	5.7	B1/500		
BM	(30°-60°)	214.7	9.2	B0/220		
BH	(60°-80°)	135.4	5.8	B1/500		G1/500
BVH	(80°-90°)	12.5	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°	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9
2.5°	300.3	301.3	300.6	300.7	300.7	301.0	301.0	301.3	301.0	301.8	302.3
5°	294.9	295.4	295.2	295.6	296.2	297.2	296.9	298.2	298.5	299.3	300.6
7.5°	292.8	292.3	292.6	293.4	293.9	294.4	294.9	295.9	296.7	298.5	299.5
10°	294.9	294.6	294.9	295.4	295.4	295.6	295.2	296.2	296.7	298.2	299.3
12.5°	303.4	303.4	302.8	302.8	302.3	301.8	300.6	299.7	299.5	299.7	300.3
15°	316.9	316.4	315.4	314.6	313.6	311.8	310.0	308.5	307.4	305.9	305.4
17.5°	330.2	329.5	328.4	327.4	326.1	324.3	321.5	319.7	316.9	315.1	314.0
20°	345.6	344.0	342.8	341.5	338.9	338.4	335.6	332.6	329.2	325.1	324.6
22.5°	365.5	363.0	361.4	360.7	358.1	357.3	352.7	348.4	344.3	338.9	337.7
25°	385.8	383.2	382.4	381.4	379.6	378.6	374.2	369.4	364.0	356.6	355.1
27.5°	405.5	405.8	403.7	404.5	403.9	402.1	397.8	392.9	388.8	380.1	378.3
30°	430.0	428.5	427.4	429.0	427.3	427.4	423.6	421.1	414.4	409.3	405.8
32.5°	455.6	455.4	456.9	458.0	457.7	457.2	454.1	451.5	445.7	438.2	436.7
35°	490.7	492.3	493.5	498.1	498.1	501.5	498.4	495.4	488.4	479.4	476.4
37.5°	514.5	515.1	520.2	526.3	534.0	541.1	543.2	543.9	541.1	534.5	529.9
40°	536.3	537.3	545.5	555.0	566.2	580.3	588.7	592.6	593.4	590.3	580.3
42.5°	558.0	559.5	568.0	581.9	597.5	615.4	630.2	639.7	645.0	645.0	639.2
45°	583.4	585.4	594.6	609.8	627.9	650.4	670.9	689.1	697.8	698.3	692.7
47.5°	613.3	615.1	625.9	641.2	659.9	682.7	708.6	729.3	745.4	746.4	741.9
50°	652.0	654.5	663.5	677.3	696.6	719.5	745.4	774.3	791.3	795.4	790.4
52.5°	703.2	703.7	711.1	723.9	742.6	764.6	792.0	823.4	845.8	849.1	841.1
55°	773.9	773.0	778.0	791.7	805.9	823.0	851.4	886.7	911.5	916.7	908.5
57.5°	869.8	869.0	873.1	876.5	902.8	919.4	947.4	981.1	1005.2	1020.1	1006.0
60°	1018.5	1017.8	1024.5	1043.9	1063.6	1087.9	1115.1	1155.4	1189.3	1193.6	1179.8
62.5°	1126.3	1130.1	1144.8	1167.5	1207.4	1255.1	1304.8	1358.0	1427.4	1449.3	1442.7
65°	1088.7	1096.4	1116.6	1151.2	1204.4	1270.1	1348.0	1444.5	1537.4	1589.4	1587.8
66°	1054.9	1063.4	1088.2	1121.4	1177.8	1249.7	1334.7	1439.9	1543.8	1601.1	1604.8
67.5°	993.5	1002.9	1027.3	1066.7	1121.4	1198.0	1289.4	1403.8	1521.3	1588.1	1597.6
70°	873.9	884.7	902.3	934.8	988.8	1057.2	1153.4	1255.8	1379.0	1455.5	1467.0
72.5°	730.5	740.0	759.7	786.3	830.6	873.7	949.1	1024.7	1112.8	1200.0	1191.5
75°	524.5	528.6	540.4	569.3	593.1	631.7	692.4	754.3	814.5	854.4	860.1
77.5°	272.7	283.4	300.0	332.0	357.9	392.7	432.1	478.7	522.7	559.4	549.3
80°	178.4	183.1	197.9	214.2	233.2	255.4	281.9	299.3	304.8	302.6	304.8
82.5°	102.9	111.3	131.1	143.6	157.7	165.4	186.3	206.3	217.6	203.5	198.4
85°	13.0	16.9	53.2	67.1	76.8	88.3	94.7	106.7	99.5	89.1	108.6
87.5°	2.8	2.6	3.6	7.7	7.9	6.7	12.6	13.3	8.2	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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9
2.5°	302.8	303.1	303.6	304.4	304.8	305.4	305.9	306.7	307.2	307.7	308.7
5°	301.6	302.6	303.6	304.7	305.9	307.9	309.2	310.2	311.3	313.3	314.0
7.5°	300.7	302.6	304.1	305.9	307.9	309.8	312.0	313.3	314.9	316.1	317.7
10°	300.3	302.8	304.4	306.9	309.2	311.0	313.6	315.1	316.9	318.4	319.2
12.5°	301.3	302.6	304.1	306.7	309.5	312.0	314.9	316.1	317.7	319.0	319.2
15°	305.7	305.7	305.9	307.9	310.8	312.8	315.1	316.4	317.1	318.0	318.0
17.5°	313.6	311.8	310.5	310.8	312.6	313.9	315.1	315.1	314.6	314.3	313.9
20°	322.8	320.5	318.0	316.1	315.6	314.6	313.9	311.3	309.2	307.4	306.1
22.5°	336.1	332.6	328.9	325.6	322.5	318.7	314.3	309.2	304.4	301.0	299.0
25°	352.5	349.7	345.3	340.2	336.4	329.2	323.5	316.1	310.0	305.7	302.0
27.5°	375.8	372.5	368.4	363.7	358.1	350.1	343.3	334.6	327.2	320.7	316.1
30°	404.7	400.4	397.3	391.6	387.8	378.9	371.9	361.2	346.9	336.7	330.2
32.5°	434.4	429.5	427.0	422.6	418.2	412.9	402.4	385.8	367.4	350.7	339.7
35°	474.0	468.9	464.4	460.5	454.1	444.1	434.9	415.0	389.6	366.3	347.9
37.5°	524.0	515.5	504.0	494.3	483.1	468.7	454.6	434.1	405.2	375.0	350.4
40°	577.2	562.4	546.0	527.8	508.4	487.6	471.5	450.8	418.2	382.4	348.7
42.5°	632.7	609.2	586.4	560.8	533.7	509.1	488.2	465.4	428.0	384.5	341.5
45°	687.8	661.5	626.9	593.4	559.1	528.6	505.0	479.4	436.9	385.2	332.0
47.5°	733.4	706.2	666.8	624.8	584.1	549.6	522.0	494.3	449.0	390.6	329.7
50°	781.5	748.5	704.7	655.1	608.9	570.3	540.8	512.2	465.9	404.5	337.1
52.5°	834.0	796.1	744.9	689.3	638.9	595.6	563.6	534.2	487.4	423.9	351.2
55°	898.0	851.6	796.1	733.4	679.4	631.5	596.2	561.4	513.0	447.0	368.8
57.5°	995.7	938.9	876.5	805.0	745.1	688.6	646.3	606.1	552.7	481.2	392.9
60°	1172.7	1112.0	1030.8	944.3	873.9	807.9	746.0	696.0	630.2	548.8	446.1
62.5°	1426.1	1345.4	1237.1	1116.1	1023.9	928.7	858.8	784.6	702.9	615.1	508.8
65°	1566.8	1469.0	1324.2	1183.6	1065.1	961.7	872.8	786.9	696.3	612.3	523.4
66°	1584.3	1482.3	1331.8	1183.9	1059.4	953.3	859.8	770.8	678.1	598.0	517.3
67.5°	1577.1	1472.9	1317.8	1161.6	1035.2	921.0	824.5	732.1	639.7	564.9	496.8
70°	1459.5	1360.8	1208.5	1057.2	937.1	824.5	732.4	641.5	556.7	492.7	442.6
72.5°	1212.1	1127.5	995.3	876.5	782.2	689.3	611.3	524.5	452.8	405.5	375.8
75°	874.9	823.7	703.2	635.1	552.4	490.7	415.0	363.4	312.0	289.0	283.9
77.5°	552.7	483.8	407.3	335.4	275.7	228.6	177.9	151.1	126.0	123.3	149.0
80°	279.8	251.9	194.0	154.6	130.0	105.2	83.2	63.0	44.0	53.0	63.4
82.5°	183.3	152.8	119.8	98.5	85.8	71.2	55.3	38.4	28.2	31.7	43.5
85°	99.1	84.5	68.1	53.8	43.5	38.9	26.1	18.4	18.1	19.4	24.8
87.5°	7.2	7.2	5.7	5.1	6.1	5.1	4.7	4.7	4.4	4.7	6.1
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°	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9
2.5°	309.2	310.0	310.2	311.5	312.3	312.8	313.3	313.3	313.6	314.3	314.6
5°	315.1	316.4	318.0	319.0	319.4	321.0	321.5	321.5	322.0	323.1	323.8
7.5°	318.7	320.5	322.0	322.5	323.5	324.1	324.8	325.3	325.3	326.3	326.9
10°	320.0	321.0	322.5	322.5	323.5	323.5	324.3	324.6	324.6	325.6	326.3
12.5°	320.0	320.5	321.8	321.8	322.5	322.8	323.8	324.6	324.8	326.1	327.2
15°	318.4	319.0	320.0	320.2	322.0	323.1	325.3	326.9	326.9	328.2	328.7
17.5°	314.0	315.4	317.4	319.4	322.8	325.1	327.9	329.2	328.2	327.4	326.6
20°	306.9	309.2	314.0	319.2	325.1	328.2	329.7	328.4	324.8	321.2	319.0
22.5°	299.7	304.4	312.6	320.2	326.9	328.9	328.2	323.5	317.7	313.3	310.2
25°	303.1	308.5	316.4	323.3	327.6	327.2	324.1	317.7	311.3	305.7	300.6
27.5°	316.9	322.8	327.2	329.5	328.9	325.3	320.5	313.3	305.7	298.2	291.1
30°	330.0	333.0	334.0	332.3	328.2	322.2	316.1	307.9	297.7	288.5	280.3
32.5°	335.8	332.7	327.9	323.1	316.4	311.3	302.8	293.9	281.0	270.0	261.9
35°	335.8	323.5	311.3	301.0	291.1	284.7	274.9	262.9	251.1	241.9	235.5
37.5°	328.4	304.8	284.7	268.0	255.4	248.6	234.0	223.3	213.2	210.1	206.0
40°	314.9	280.0	250.9	229.1	213.2	203.0	188.4	180.9	177.1	175.6	174.8
42.5°	296.7	252.4	213.5	186.6	169.5	158.0	148.2	143.6	143.3	143.1	143.1
45°	277.2	222.7	177.1	145.1	130.0	119.8	115.2	113.4	115.0	114.7	115.0
47.5°	265.2	200.2	143.8	109.9	98.3	91.6	89.3	90.1	91.3	90.9	90.9
50°	263.6	188.7	121.6	85.5	76.8	73.5	72.9	72.9	73.8	73.2	72.9
52.5°	269.3	186.9	110.0	73.5	66.5	63.7	63.3	63.0	62.7	61.2	59.9
55°	279.0	191.0	106.7	70.4	63.3	60.2	59.3	58.9	57.9	55.8	53.5
57.5°	298.5	203.7	109.9	71.9	64.3	61.7	60.9	60.9	58.9	55.5	52.2
60°	345.3	236.3	122.3	77.9	69.1	66.5	67.1	66.8	63.7	58.9	53.8
62.5°	405.8	278.8	138.7	86.0	75.3	74.8	77.3	76.8	71.6	64.3	56.8
65°	433.6	298.7	143.3	87.8	76.6	78.9	84.0	83.4	77.0	66.8	57.3
66°	434.1	298.7	141.3	86.2	74.8	77.6	82.7	82.4	76.0	65.8	56.3
67.5°	423.6	290.5	135.4	83.2	71.2	73.2	77.9	77.6	71.6	63.3	54.2
70°	384.2	260.1	120.3	77.9	66.3	65.3	66.8	65.8	62.0	56.1	50.0
72.5°	329.2	218.3	104.9	73.8	63.0	58.9	57.9	57.1	54.0	50.7	46.9
75°	259.4	172.7	92.2	70.6	59.9	54.5	52.7	51.7	49.7	47.3	44.3
77.5°	160.0	123.6	80.4	66.5	57.6	52.2	51.0	49.4	46.3	43.5	41.2
80°	71.4	76.6	66.0	58.1	51.4	46.6	44.6	42.2	39.2	37.4	36.1
82.5°	47.6	49.4	47.9	43.5	38.9	35.1	32.0	32.0	31.4	30.0	29.4
85°	30.4	30.7	29.7	26.9	25.1	22.8	21.5	21.8	22.8	22.5	22.2
87.5°	6.9	6.9	8.2	7.7	8.9	9.5	10.2	11.0	12.6	12.6	13.3
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°	305.9	305.9	305.9	305.9	305.9
2.5°	314.9	315.4	315.9	315.1	315.4
5°	323.8	323.5	324.8	324.1	324.6
7.5°	326.6	326.9	327.9	327.9	328.2
10°	326.9	327.4	328.7	329.5	330.0
12.5°	328.2	329.2	331.3	331.7	331.7
15°	329.2	329.7	331.0	331.5	332.0
17.5°	325.6	324.6	325.1	325.3	325.1
20°	316.7	315.6	315.4	314.3	314.9
22.5°	306.9	304.1	302.3	300.3	300.3
25°	295.2	290.8	287.2	283.6	284.4
27.5°	284.1	278.5	274.9	272.7	272.1
30°	273.4	267.5	264.2	261.4	261.4
32.5°	255.4	251.4	247.0	245.2	244.9
35°	230.6	228.1	224.5	223.7	222.4
37.5°	202.7	202.0	198.9	198.6	197.4
40°	173.6	174.0	173.0	172.6	171.7
42.5°	144.4	147.0	146.4	146.1	145.7
45°	116.5	118.2	118.5	119.3	120.6
47.5°	91.6	92.2	92.7	92.4	92.7
50°	71.6	70.4	70.1	69.4	70.1
52.5°	57.9	55.8	54.8	53.8	53.2
55°	51.0	48.9	47.9	47.3	46.9
57.5°	49.1	47.1	45.6	44.6	44.3
60°	49.7	46.6	44.6	43.3	43.0
62.5°	51.0	46.9	44.0	42.8	42.5
65°	50.7	46.3	43.8	42.2	42.0
66°	50.0	45.9	43.3	42.0	41.8
67.5°	48.7	45.0	42.8	41.8	41.2
70°	46.3	44.0	42.2	40.9	40.5
72.5°	44.3	42.5	40.9	39.7	39.4
75°	42.0	40.5	38.9	37.9	37.7
77.5°	39.2	37.7	36.7	35.8	35.5
80°	34.5	33.5	32.5	31.4	31.4
82.5°	28.7	27.9	26.9	26.1	25.9
85°	22.0	22.0	21.2	20.5	20.2
87.5°	13.0	12.8	12.8	12.0	12.0
90°	0.0	0.0	0.0	0.0	0.0

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