

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: P181617

Luminaire Tested: **ICM-E01-LED-E1-T4-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P181617  
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-E01-LED-E1-T4-8030  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 4  
Light Source: (21) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2372.6 lumens  
Efficiency: N/A  
Efficacy: 96.1 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): 24.7  
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: 25 FT

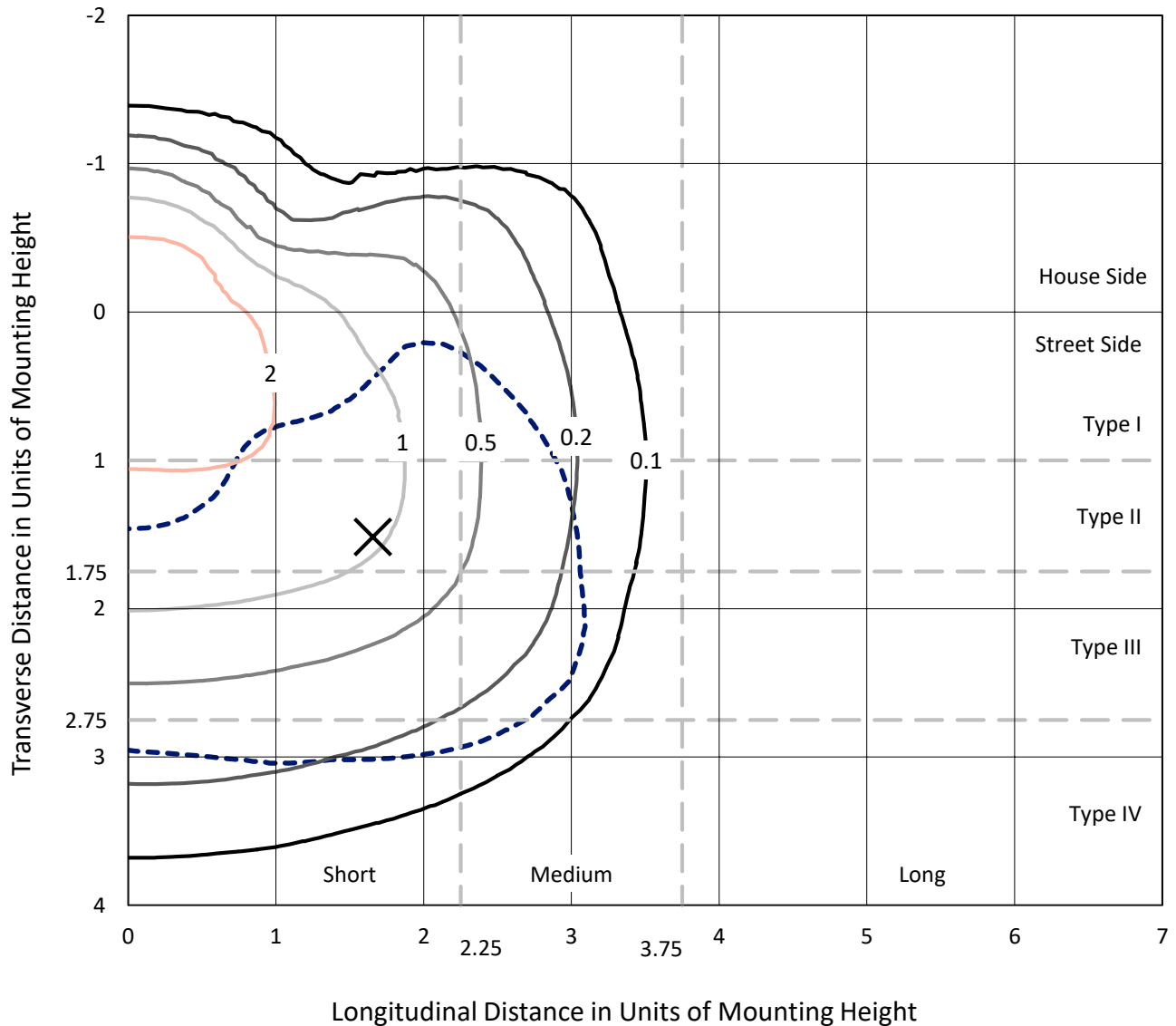


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

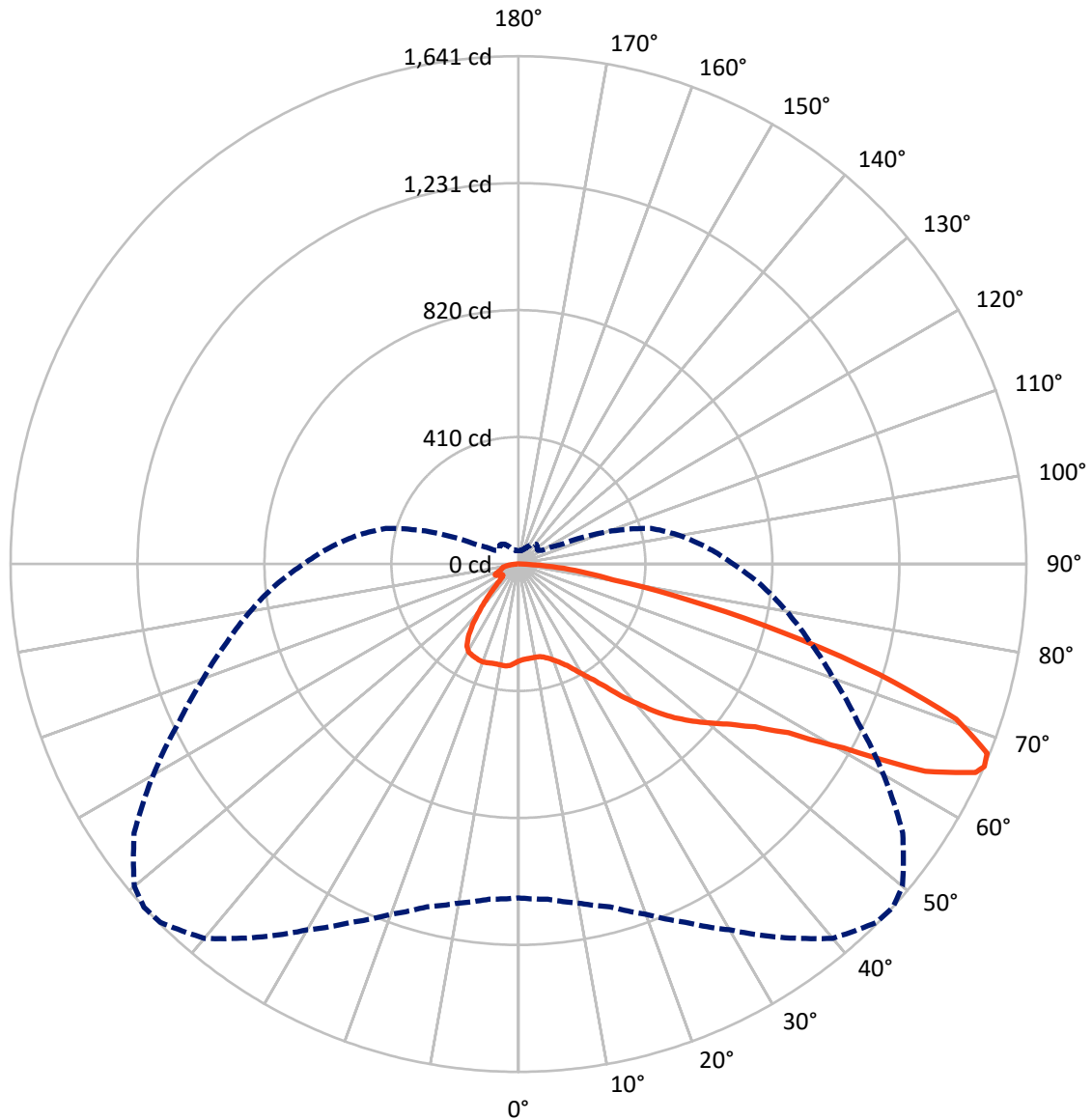


Based on 10 foot mounting height. Maximum calculated value = 3.3 fc  
 Type IV - Short - Semi-Cutoff

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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
<b>House Side</b>	Lumens	506.3	0.0	506.3
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	1866.4	0.0	1866.4
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	2372.6	0.0	2372.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.4	1.3
10°-20°	92.2	3.9
20°-30°	158.8	6.7
30°-40°	240.3	10.1
40°-50°	311.4	13.1
50°-60°	429.4	18.1
60°-70°	667.1	28.1
70°-80°	387.9	16.3
80°-90°	55.2	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°	2372.6	100.0
0°-180°	2372.6	100.0



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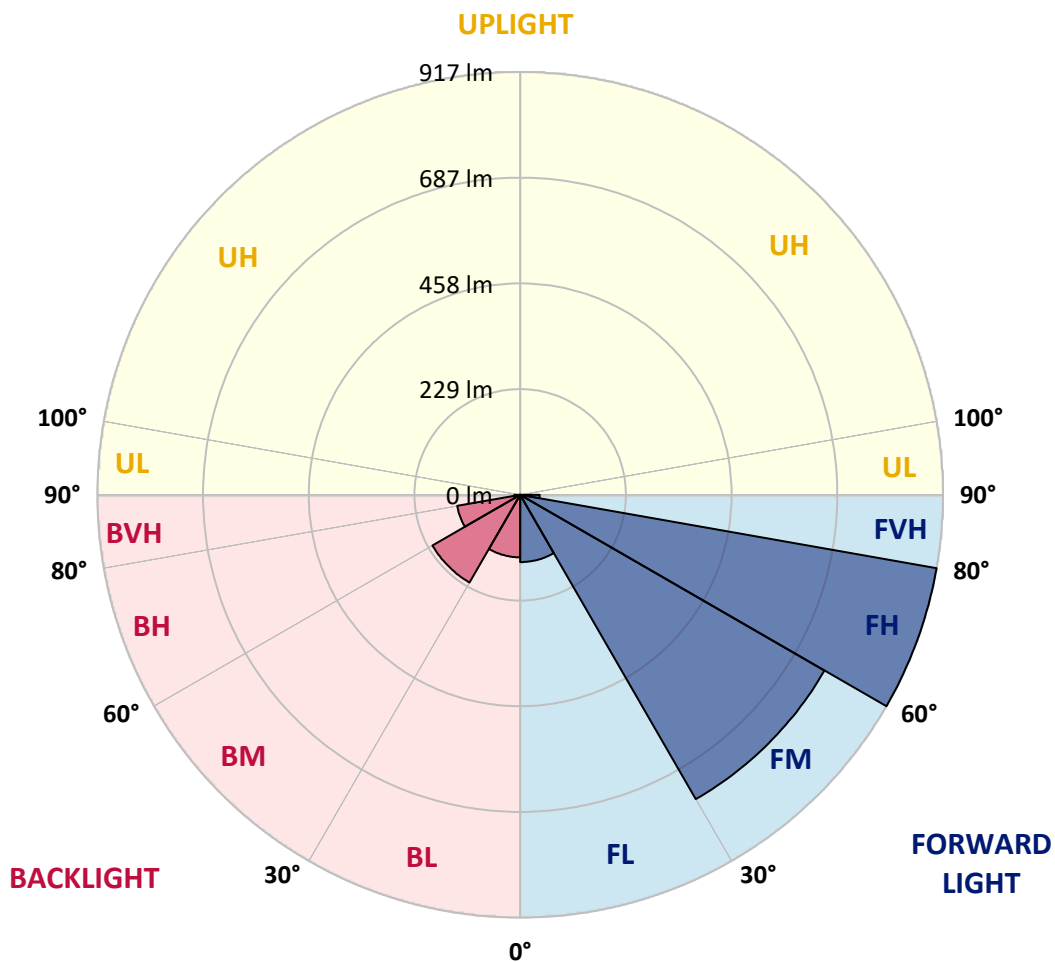
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	145.9	6.1			
FM	(30°-60°)	761.6	32.1			
FH	(60°-80°)	916.6	38.6			G1/1800
FVH	(80°-90°)	42.3	1.8			G1/100
BL	(0°-30°)	135.5	5.7	B1/500		
BM	(30°-60°)	219.5	9.2	B0/220		
BH	(60°-80°)	138.5	5.8	B1/500		G1/500
BVH	(80°-90°)	12.8	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°	312.7	312.7	312.7	312.7	312.7	312.7	312.7	312.7	312.7	312.7	312.7
2.5°	307.0	308.0	307.3	307.5	307.5	307.7	307.7	308.0	307.7	308.6	309.1
5°	301.5	302.0	301.8	302.2	302.8	303.8	303.5	304.8	305.1	306.0	307.3
7.5°	299.4	298.9	299.2	299.9	300.5	300.9	301.5	302.5	303.4	305.1	306.2
10°	301.5	301.2	301.5	302.0	302.0	302.2	301.8	302.8	303.4	304.8	306.0
12.5°	310.1	310.1	309.6	309.6	309.1	308.6	307.3	306.4	306.2	306.4	307.0
15°	324.0	323.4	322.4	321.7	320.6	318.8	316.9	315.4	314.3	312.7	312.2
17.5°	337.6	336.8	335.7	334.7	333.4	331.5	328.7	326.9	324.0	322.1	321.1
20°	353.3	351.7	350.4	349.1	346.5	346.0	343.1	339.9	336.6	332.4	331.8
22.5°	373.7	371.1	369.5	368.7	366.1	365.3	360.7	356.2	352.0	346.5	345.2
25°	394.4	391.8	391.0	390.0	388.1	387.1	382.6	377.7	372.2	364.6	363.0
27.5°	414.5	414.8	412.7	413.5	412.9	411.2	406.7	401.7	397.5	388.7	386.8
30°	439.6	438.0	437.0	438.6	436.7	437.0	433.1	430.5	423.7	418.4	414.8
32.5°	465.9	465.6	467.2	468.2	467.9	467.4	464.3	461.7	455.6	448.0	446.4
35°	501.7	503.3	504.6	509.3	509.3	512.7	509.6	506.4	499.4	490.1	487.1
37.5°	526.0	526.5	531.8	538.0	546.0	553.2	555.4	556.1	553.2	546.4	541.8
40°	548.3	549.3	557.7	567.4	578.9	593.3	602.0	605.9	606.6	603.4	593.3
42.5°	570.5	572.1	580.7	594.9	610.8	629.1	644.3	654.0	659.5	659.5	653.5
45°	596.5	598.5	607.9	623.4	642.0	665.0	686.0	704.5	713.4	714.0	708.2
47.5°	627.1	628.8	639.9	655.5	674.7	698.0	724.4	745.6	762.1	763.2	758.4
50°	666.5	669.2	678.3	692.5	712.1	735.6	762.1	791.6	808.9	813.1	808.1
52.5°	718.9	719.4	727.0	740.1	759.2	781.7	809.7	841.9	864.7	868.1	860.0
55°	791.2	790.3	795.4	809.5	823.8	841.4	870.4	906.5	931.9	937.1	928.7
57.5°	889.3	888.5	892.7	896.1	923.1	940.0	968.6	1003.1	1027.7	1042.9	1028.5
60°	1041.3	1040.6	1047.4	1067.3	1087.4	1112.3	1140.0	1181.3	1215.9	1220.3	1206.2
62.5°	1151.5	1155.4	1170.3	1193.6	1234.4	1283.2	1333.9	1388.4	1459.3	1481.8	1475.0
65°	1113.0	1120.8	1141.6	1176.8	1231.4	1298.6	1378.1	1476.8	1571.8	1624.9	1623.4
66°	1078.5	1087.1	1112.5	1146.5	1204.1	1277.7	1364.6	1472.1	1578.3	1636.9	1640.7
67.5°	1015.6	1025.4	1050.2	1090.5	1146.5	1224.8	1318.2	1435.2	1555.3	1623.6	1633.3
70°	893.5	904.5	922.5	955.7	1011.0	1080.8	1179.3	1283.9	1409.8	1488.0	1499.8
72.5°	746.9	756.6	776.7	803.9	849.2	893.2	970.4	1047.6	1137.6	1226.9	1218.2
75°	536.2	540.4	552.5	582.1	606.3	645.9	707.9	771.3	832.7	873.6	879.4
77.5°	278.7	289.7	306.7	339.4	365.9	401.5	441.8	489.4	534.4	571.8	561.6
80°	182.4	187.2	202.3	219.1	238.4	261.2	288.1	306.0	311.7	309.3	311.7
82.5°	105.2	113.9	134.0	146.8	161.2	169.0	190.5	211.0	222.4	208.1	202.8
85°	13.3	17.3	54.4	68.6	78.5	90.3	96.8	109.1	101.8	91.1	111.0
87.5°	2.9	2.6	3.6	7.8	8.1	6.8	12.8	13.6	8.4	4.2	5.2
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°	312.7	312.7	312.7	312.7	312.7	312.7	312.7	312.7	312.7	312.7	312.7
2.5°	309.6	309.9	310.4	311.2	311.7	312.2	312.7	313.5	314.0	314.6	315.6
5°	308.3	309.3	310.4	311.4	312.7	314.8	316.1	317.2	318.2	320.3	321.1
7.5°	307.5	309.3	310.9	312.7	314.8	316.7	319.0	320.3	321.9	323.2	324.7
10°	307.0	309.6	311.2	313.8	316.1	318.0	320.6	322.1	324.0	325.6	326.3
12.5°	308.0	309.3	310.9	313.5	316.4	319.0	321.9	323.2	324.7	326.0	326.3
15°	312.5	312.5	312.7	314.8	317.7	319.8	322.1	323.4	324.3	325.0	325.0
17.5°	320.6	318.8	317.5	317.7	319.5	320.8	322.1	322.1	321.7	321.4	320.8
20°	330.0	327.6	325.0	323.2	322.7	321.7	320.8	318.2	316.1	314.3	313.0
22.5°	343.6	339.9	336.3	332.9	329.8	325.9	321.4	316.1	311.2	307.7	305.7
25°	360.4	357.5	353.0	347.8	343.9	336.6	330.8	323.2	316.9	312.5	308.8
27.5°	384.2	380.7	376.6	371.9	366.1	358.0	351.0	342.0	334.4	327.9	323.2
30°	413.8	409.3	406.1	400.4	396.5	387.4	380.3	369.3	354.6	344.1	337.6
32.5°	444.1	439.2	436.6	432.1	427.6	422.1	411.4	394.4	375.5	358.5	347.3
35°	484.7	479.4	474.7	470.8	464.3	454.0	444.7	424.2	398.3	374.5	355.6
37.5°	535.7	527.1	515.3	505.3	493.9	479.2	464.7	443.8	414.2	383.4	358.2
40°	590.1	575.0	558.2	539.6	519.7	498.5	482.0	460.8	427.6	391.0	356.5
42.5°	646.9	622.9	599.5	573.4	545.7	520.6	499.1	475.8	437.6	393.1	349.1
45°	703.2	676.3	640.9	606.6	571.5	540.4	516.4	490.1	446.7	393.9	339.4
47.5°	749.8	722.1	681.8	638.8	597.2	561.9	533.6	505.3	459.1	399.4	337.1
50°	799.0	765.2	720.5	669.7	622.6	583.1	553.0	523.6	476.3	413.5	344.7
52.5°	852.7	813.9	761.6	704.7	653.2	609.0	576.3	546.1	498.3	433.4	359.1
55°	918.1	870.7	813.9	749.8	694.6	645.6	609.5	574.0	524.5	456.9	377.1
57.5°	1018.1	959.9	896.1	823.1	761.9	704.0	660.8	619.7	565.0	492.0	401.7
60°	1198.9	1136.8	1053.9	965.4	893.5	826.0	762.6	711.5	644.3	561.1	456.2
62.5°	1458.0	1375.5	1264.8	1141.0	1046.8	949.5	878.1	802.1	718.6	628.8	520.3
65°	1601.9	1502.0	1353.8	1210.1	1088.9	983.3	892.4	804.5	711.8	626.0	535.2
66°	1619.7	1515.5	1361.7	1210.4	1083.2	974.6	879.1	788.0	693.2	611.4	528.9
67.5°	1612.4	1505.9	1347.3	1187.6	1058.3	941.6	843.0	748.5	654.0	577.6	508.0
70°	1492.2	1391.3	1235.5	1080.8	958.1	843.0	748.7	655.8	569.2	503.8	452.5
72.5°	1239.2	1152.8	1017.5	896.1	799.7	704.7	624.9	536.2	463.0	414.5	384.2
75°	894.5	842.1	718.9	649.3	564.7	501.7	424.2	371.6	319.0	295.4	290.2
77.5°	565.0	494.6	416.4	342.8	281.9	233.7	181.9	154.4	128.7	126.1	152.3
80°	286.0	257.5	198.3	158.0	132.9	107.5	85.0	64.4	45.0	54.1	64.9
82.5°	187.3	156.3	122.5	100.7	87.6	72.7	56.6	39.3	28.7	32.5	44.5
85°	101.3	86.3	69.6	55.0	44.5	39.8	26.7	18.9	18.6	19.9	25.4
87.5°	7.3	7.3	5.8	5.2	6.3	5.2	4.7	4.7	4.5	4.7	6.3
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):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	312.7	312.7	312.7	312.7	312.7	312.7	312.7	312.7	312.7	312.7	312.7
2.5°	316.1	316.9	317.2	318.5	319.3	319.8	320.3	320.3	320.6	321.4	321.7
5°	322.1	323.4	325.0	326.0	326.6	328.2	328.7	328.7	329.2	330.2	331.1
7.5°	325.9	327.6	329.2	329.8	330.8	331.4	332.1	332.7	332.7	333.7	334.2
10°	327.2	328.2	329.8	329.8	330.8	330.8	331.5	331.8	331.8	332.9	333.7
12.5°	327.2	327.6	328.9	328.9	329.8	330.0	331.1	331.8	332.1	333.4	334.4
15°	325.6	326.0	327.2	327.4	329.2	330.2	332.7	334.2	334.2	335.5	336.0
17.5°	321.1	322.4	324.5	326.6	330.0	332.4	335.3	336.6	335.5	334.7	334.0
20°	313.8	316.1	321.1	326.3	332.4	335.5	337.1	335.7	332.1	328.5	326.0
22.5°	306.4	311.2	319.5	327.4	334.2	336.3	335.5	330.8	324.7	320.3	317.2
25°	309.9	315.4	323.4	330.5	335.0	334.4	331.4	324.7	318.2	312.5	307.3
27.5°	324.0	330.0	334.4	336.8	336.3	332.7	327.6	320.3	312.5	304.8	297.6
30°	337.3	340.5	341.5	339.7	335.5	329.5	323.2	314.8	304.4	295.0	286.6
32.5°	343.4	340.2	335.3	330.2	323.4	318.2	309.6	300.5	287.4	276.1	267.7
35°	343.4	330.8	318.2	307.7	297.6	291.0	281.0	268.7	256.7	247.4	240.7
37.5°	335.7	311.7	291.0	274.0	261.2	254.1	239.2	228.2	218.0	214.9	210.7
40°	321.9	286.3	256.5	234.2	218.0	207.5	192.7	185.0	181.1	179.5	178.7
42.5°	303.4	258.0	218.2	190.8	173.2	161.5	151.5	146.8	146.5	146.3	146.3
45°	283.4	227.7	181.1	148.4	132.9	122.5	117.8	115.9	117.5	117.2	117.5
47.5°	271.2	204.7	147.1	112.3	100.5	93.7	91.3	92.1	93.4	92.9	92.9
50°	269.6	192.8	124.3	87.4	78.5	75.1	74.6	74.6	75.3	74.9	74.6
52.5°	275.4	191.1	112.6	75.1	68.0	65.2	64.7	64.4	64.1	62.5	61.2
55°	285.3	195.3	109.1	72.0	64.7	61.5	60.7	60.2	59.2	57.0	54.7
57.5°	305.1	208.3	112.3	73.6	65.7	63.1	62.3	62.3	60.2	56.7	53.4
60°	353.0	241.6	125.1	79.5	70.7	68.0	68.6	68.3	65.2	60.2	55.0
62.5°	414.8	285.0	141.9	87.9	76.9	76.4	79.1	78.5	73.3	65.7	58.1
65°	443.4	305.4	146.5	89.8	78.2	80.6	85.9	85.3	78.8	68.3	58.6
66°	443.8	305.4	144.5	88.2	76.4	79.3	84.6	84.3	77.8	67.3	57.6
67.5°	433.1	297.0	138.4	85.0	72.7	74.9	79.5	79.3	73.3	64.7	55.4
70°	392.8	265.9	123.0	79.5	67.8	66.7	68.3	67.3	63.3	57.3	51.1
72.5°	336.6	223.3	107.3	75.3	64.4	60.2	59.2	58.3	55.3	51.8	47.9
75°	265.1	176.7	94.2	72.2	61.2	55.7	54.0	52.8	50.8	48.4	45.3
77.5°	163.5	126.4	82.1	68.0	58.9	53.4	52.1	50.5	47.3	44.5	42.1
80°	73.0	78.2	67.5	59.4	52.6	47.6	45.6	43.2	40.0	38.2	36.9
82.5°	48.7	50.5	48.9	44.5	39.8	35.8	32.7	32.7	32.2	30.6	30.1
85°	31.2	31.4	30.3	27.4	25.7	23.3	22.0	22.2	23.3	23.1	22.8
87.5°	7.1	7.1	8.4	7.8	9.1	9.7	10.5	11.3	12.8	12.8	13.6
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°	312.7	312.7	312.7	312.7	312.7
2.5°	321.9	322.4	323.0	322.1	322.4
5°	331.1	330.8	332.1	331.4	331.8
7.5°	334.0	334.2	335.3	335.3	335.5
10°	334.2	334.7	336.0	336.8	337.3
12.5°	335.5	336.6	338.6	339.2	339.2
15°	336.6	337.1	338.4	338.9	339.4
17.5°	332.9	331.8	332.4	332.7	332.4
20°	323.7	322.7	322.4	321.4	321.9
22.5°	313.8	310.9	309.1	307.0	307.0
25°	301.8	297.3	293.7	290.0	290.8
27.5°	290.5	284.7	281.0	278.7	278.2
30°	279.5	273.5	270.0	267.2	267.2
32.5°	261.2	257.0	252.6	250.7	250.4
35°	235.8	233.2	229.5	228.7	227.4
37.5°	207.3	206.5	203.4	203.1	201.8
40°	177.4	178.0	176.9	176.4	175.6
42.5°	147.6	150.2	149.7	149.4	148.9
45°	119.1	120.9	121.2	122.0	123.3
47.5°	93.7	94.2	94.7	94.5	94.7
50°	73.3	72.0	71.7	70.9	71.7
52.5°	59.2	57.0	56.0	55.0	54.4
55°	52.1	50.0	48.9	48.4	47.9
57.5°	50.2	48.2	46.6	45.6	45.3
60°	50.8	47.6	45.6	44.2	44.0
62.5°	52.1	47.9	45.0	43.7	43.4
65°	51.8	47.3	44.7	43.2	42.9
66°	51.1	46.9	44.2	42.9	42.7
67.5°	49.8	46.0	43.7	42.7	42.1
70°	47.3	45.0	43.2	41.9	41.4
72.5°	45.3	43.4	41.9	40.6	40.3
75°	42.9	41.4	39.8	38.7	38.5
77.5°	40.0	38.5	37.4	36.7	36.4
80°	35.3	34.3	33.2	32.2	32.2
82.5°	29.3	28.6	27.4	26.7	26.4
85°	22.5	22.5	21.8	20.9	20.7
87.5°	13.3	13.1	13.1	12.3	12.3
90°	0.0	0.0	0.0	0.0	0.0

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