

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: P181417

Luminaire Tested: **ICM-E01-LED-E1-T3-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181417
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33672)
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-T3-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2421.2 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 24.7
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

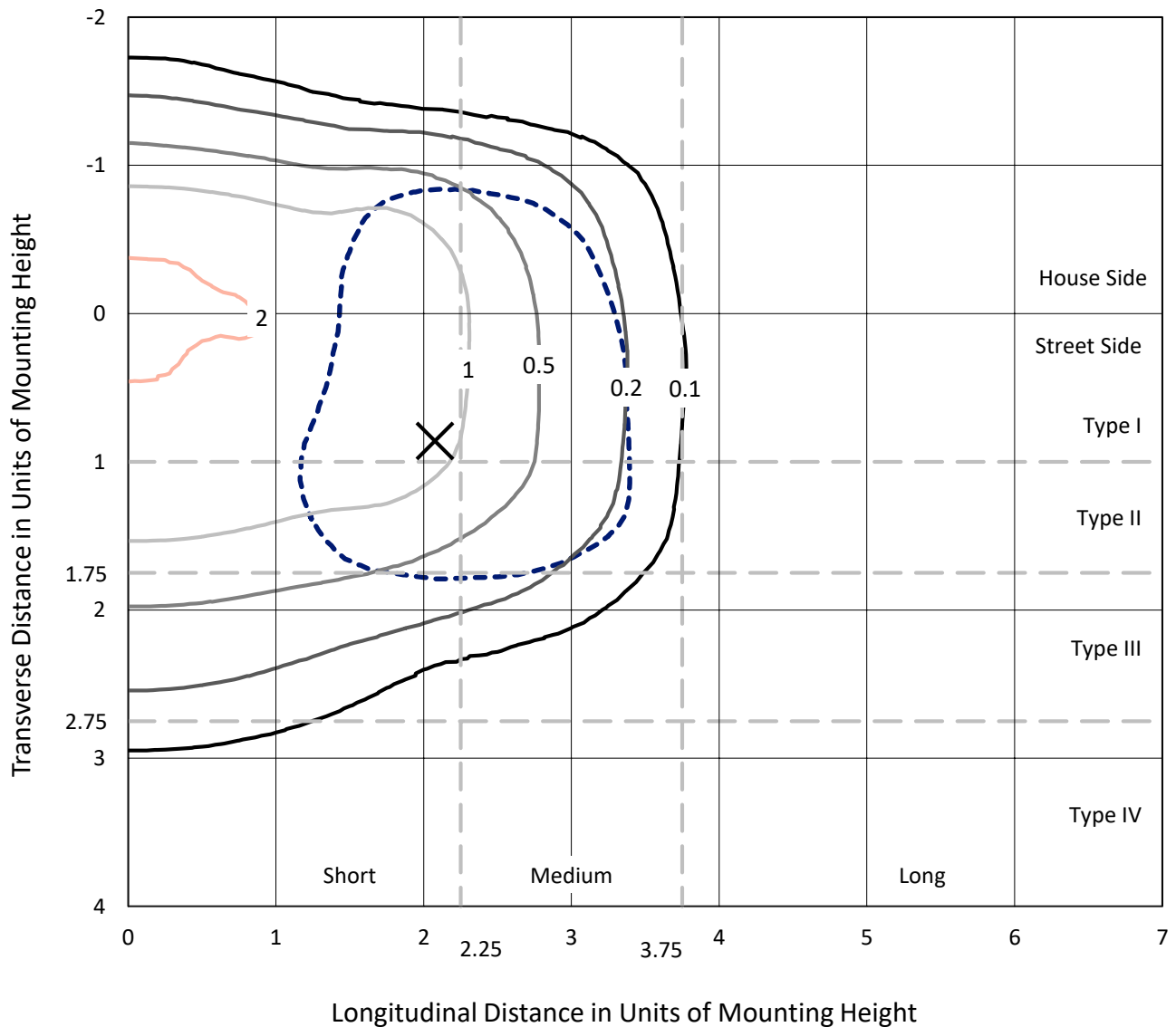


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

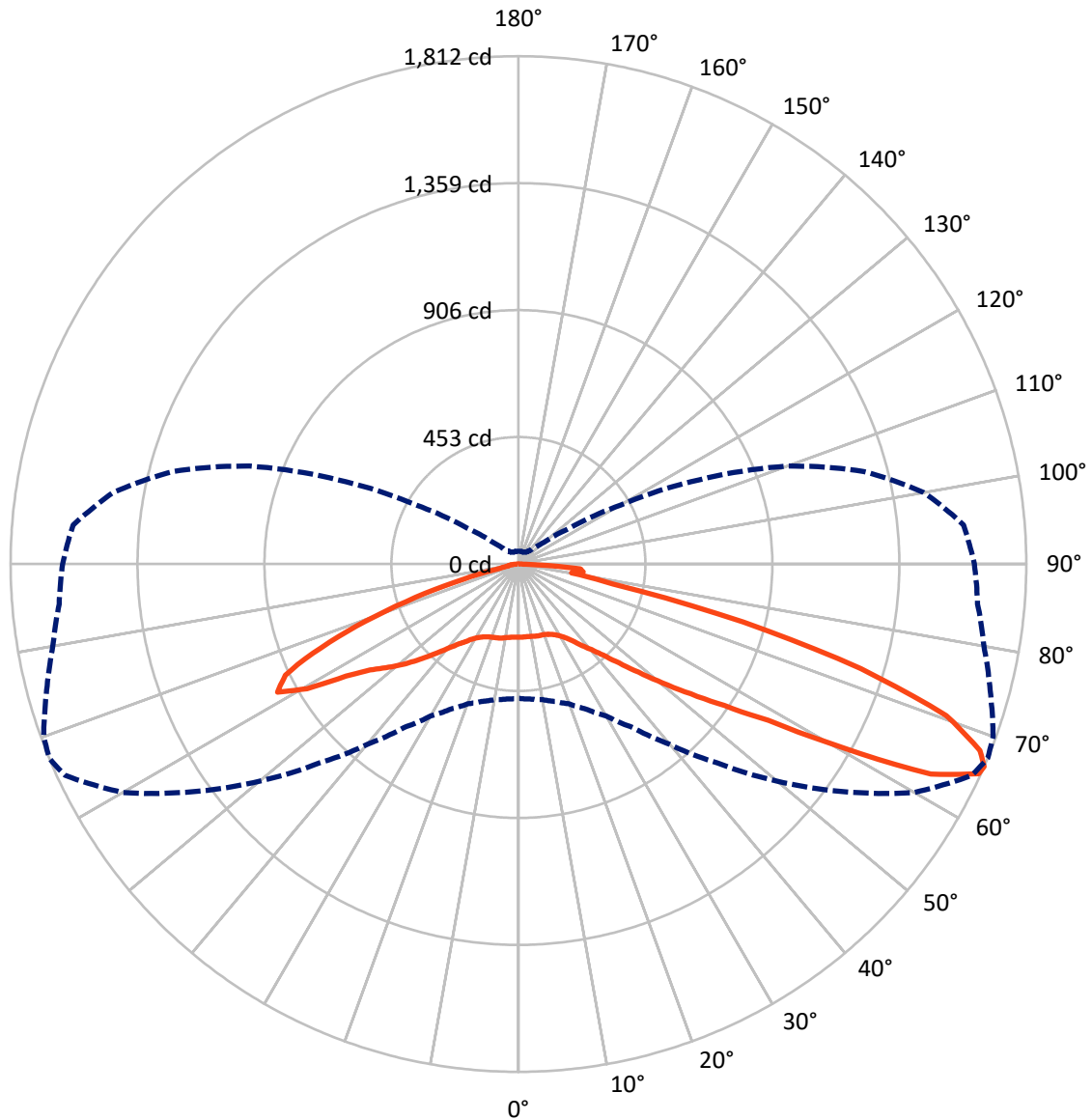


Based on 10 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	836.1	0.0	836.1
	% Fixture	34.5	0.0	34.5
Street Side	Lumens	1585.1	0.0	1585.1
	% Fixture	65.5	0.0	65.5
Total	Lumens	2421.2	0.0	2421.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.0	1.0
10°-20°	73.8	3.0
20°-30°	126.8	5.2
30°-40°	205.8	8.5
40°-50°	343.6	14.2
50°-60°	541.1	22.3
60°-70°	737.8	30.5
70°-80°	319.4	13.2
80°-90°	48.0	2.0
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°	2421.2	100.0
0°-180°	2421.2	100.0



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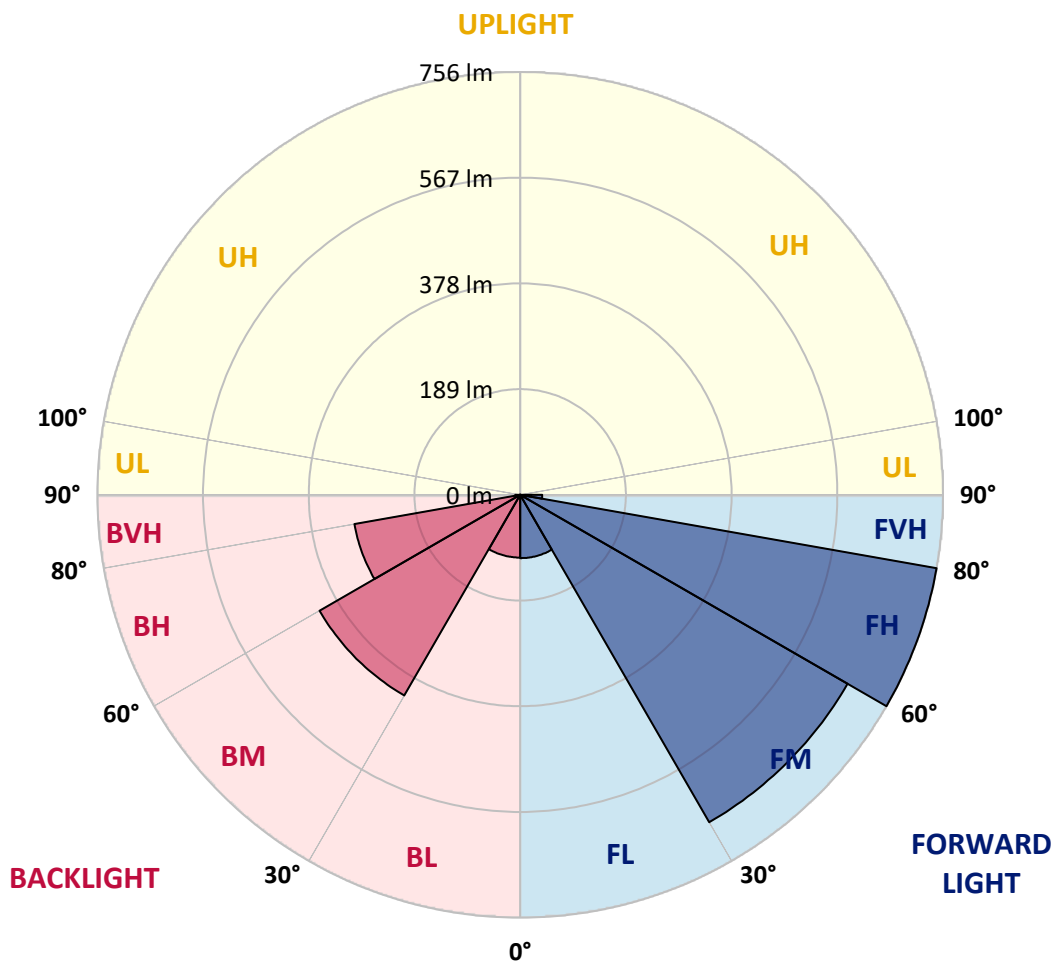
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	113.3	4.7			
FM	(30°-60°)	676.2	27.9			
FH	(60°-80°)	756.2	31.2			G1/1800
FVH	(80°-90°)	39.4	1.6			G1/100
BL	(0°-30°)	112.2	4.6	B1/500		
BM	(30°-60°)	414.3	17.1	B1/1000		
BH	(60°-80°)	301.0	12.4	B1/500		G1/500
BVH	(80°-90°)	8.6	0.4			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	260.9	260.9	260.9	260.9	260.9	260.9	260.9	260.9	260.9	260.9	260.9
2.5°	262.0	263.0	262.0	262.2	262.5	262.2	262.0	262.0	261.2	261.7	262.2
5°	260.9	261.7	261.4	261.7	262.0	261.7	261.4	261.7	261.2	261.4	262.2
7.5°	259.6	259.4	259.6	260.1	260.7	260.7	260.7	260.9	260.7	260.7	261.4
10°	255.7	255.9	256.5	257.2	257.5	258.3	258.3	259.1	259.4	259.9	260.9
12.5°	250.7	251.0	251.5	252.0	253.3	254.6	254.6	256.5	257.2	258.6	260.4
15°	247.1	247.4	247.8	248.4	249.4	250.7	251.5	253.6	254.9	257.2	259.9
17.5°	249.1	248.8	249.4	249.7	249.7	250.7	250.7	252.3	253.9	255.9	259.4
20°	255.2	255.2	255.7	255.7	255.4	255.9	254.9	254.9	255.2	256.2	258.6
22.5°	261.2	260.9	262.0	262.5	262.8	263.5	262.5	262.2	260.9	260.1	260.9
25°	267.0	266.7	268.0	268.7	270.0	270.9	270.9	270.9	269.9	268.5	267.7
27.5°	275.8	275.8	277.1	278.0	279.0	280.6	281.3	281.3	281.6	279.7	278.4
30°	290.8	291.0	291.3	292.3	293.4	293.9	295.0	295.7	296.5	295.4	293.4
32.5°	308.6	307.0	307.0	308.6	309.9	311.4	311.9	313.0	314.6	313.8	313.5
35°	329.8	329.2	328.7	329.2	330.8	332.7	334.7	336.6	335.5	337.1	336.3
37.5°	361.1	361.7	362.0	362.0	361.7	362.2	363.3	365.1	364.6	365.1	366.1
40°	412.9	411.2	409.3	409.6	407.0	407.4	403.3	405.1	405.4	403.5	404.4
42.5°	464.7	465.9	466.6	468.7	466.9	465.9	461.9	461.9	459.8	458.0	457.5
45°	520.7	522.9	523.2	527.4	525.8	529.1	532.0	531.3	527.8	527.6	523.9
47.5°	565.6	568.9	572.7	577.6	581.5	589.1	598.0	602.4	605.0	607.2	603.0
50°	599.1	600.7	610.1	617.9	626.5	639.1	651.4	667.4	680.2	686.1	691.9
52.5°	617.1	621.0	631.3	643.5	658.7	677.6	697.4	722.8	744.8	759.4	772.6
55°	621.0	624.9	636.5	652.2	672.8	698.2	726.8	761.3	794.2	822.5	850.1
57.5°	610.1	614.5	626.8	644.8	669.2	700.1	735.9	781.2	826.7	872.6	913.1
60°	589.9	595.4	606.6	624.5	651.4	686.1	729.1	785.9	849.8	919.9	997.6
62.5°	556.7	562.4	572.8	592.5	620.3	658.7	708.5	779.1	869.4	979.8	1117.8
65°	503.3	505.9	518.7	538.6	563.2	605.6	660.3	745.6	863.1	1016.8	1206.7
66°	479.2	483.6	491.4	507.4	531.0	570.8	625.8	712.4	839.3	1003.9	1204.4
67.5°	441.5	444.9	450.1	460.8	475.3	504.6	556.7	638.5	766.5	939.0	1154.3
70°	356.9	358.5	365.6	369.3	374.2	383.9	402.8	449.9	549.6	711.5	931.6
72.5°	243.4	247.8	255.4	265.9	279.5	292.6	301.5	307.5	328.9	424.5	620.7
75°	178.5	183.2	192.8	206.8	230.6	257.8	286.0	299.2	290.2	278.0	345.7
77.5°	103.6	110.0	118.0	131.3	153.4	189.5	237.9	280.8	309.9	311.7	296.0
80°	43.7	44.5	49.5	56.3	69.9	95.3	132.9	194.7	259.1	302.5	312.7
82.5°	10.0	12.3	15.7	18.6	22.8	31.4	46.6	77.5	140.0	219.5	286.3
85°	3.6	3.6	4.9	7.3	8.4	9.4	12.3	19.6	33.5	61.8	128.7
87.5°	0.0	0.3	0.6	0.6	1.0	1.3	2.1	2.9	2.6	2.3	7.8
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	260.9	260.9	260.9	260.9	260.9	260.9	260.9	260.9	260.9	260.9	260.9
2.5°	261.7	261.4	260.9	260.9	260.9	260.9	260.4	260.7	260.1	260.4	260.4
5°	261.4	261.4	261.2	260.7	260.9	260.9	261.2	260.7	260.7	260.9	260.7
7.5°	261.4	261.2	261.2	261.2	261.4	261.2	261.4	261.4	261.4	261.7	261.7
10°	261.4	261.4	262.0	262.2	262.2	262.5	263.3	263.3	263.5	263.8	264.3
12.5°	261.7	262.8	263.5	264.3	264.6	265.1	266.4	266.4	267.0	267.7	268.0
15°	262.0	263.5	265.1	265.7	266.1	267.2	268.5	269.0	269.9	270.6	271.2
17.5°	261.7	263.8	265.7	266.4	267.2	268.5	270.0	270.6	271.6	272.7	273.8
20°	261.4	264.3	267.2	268.3	269.3	271.2	273.2	274.5	275.5	277.1	278.2
22.5°	263.0	266.4	270.3	271.9	273.8	276.1	279.0	280.6	281.9	283.4	284.2
25°	268.0	270.6	275.4	278.0	280.3	284.2	288.1	290.0	291.5	292.8	293.1
27.5°	276.4	277.1	282.9	286.3	289.7	296.0	300.7	302.0	304.8	306.0	305.7
30°	290.0	288.7	293.4	298.6	303.5	312.2	318.0	321.4	324.0	324.0	321.9
32.5°	309.6	307.5	308.8	314.8	320.6	333.1	339.9	344.4	346.2	345.7	341.3
35°	335.3	334.0	333.1	337.9	347.0	361.7	370.6	372.9	375.8	375.3	369.5
37.5°	365.6	364.6	364.6	370.0	379.0	400.7	410.3	411.9	411.6	407.4	396.7
40°	401.5	400.9	398.6	401.7	409.3	437.6	450.7	452.7	449.9	443.1	430.5
42.5°	453.0	449.9	442.5	444.4	450.1	477.6	494.6	500.4	497.5	490.7	470.3
45°	520.3	516.8	504.6	503.0	506.1	530.2	552.2	553.5	553.0	544.4	520.3
47.5°	599.3	594.1	581.0	576.8	575.7	598.0	619.2	621.3	620.0	607.2	575.0
50°	684.8	677.3	668.7	665.8	661.6	677.6	699.0	699.3	694.1	676.3	646.1
52.5°	776.2	773.6	772.0	769.1	767.4	781.2	794.2	786.4	778.6	760.0	733.9
55°	868.4	879.1	890.1	891.1	894.2	909.1	908.9	887.4	881.7	871.4	845.6
57.5°	966.2	1006.0	1040.6	1051.3	1061.8	1089.5	1086.9	1065.7	1058.3	1045.8	1024.3
60°	1099.4	1206.7	1306.4	1330.2	1346.7	1380.0	1376.8	1344.1	1359.3	1358.2	1330.5
62.5°	1286.1	1464.5	1614.0	1650.6	1662.1	1665.8	1645.9	1610.5	1625.4	1642.1	1556.8
65°	1412.4	1622.3	1775.6	1803.9	1805.5	1761.8	1717.6	1675.9	1672.3	1657.9	1535.9
66°	1415.3	1630.1	1784.0	1811.5	1801.9	1742.2	1686.1	1644.3	1626.2	1594.5	1468.2
67.5°	1364.6	1581.2	1746.9	1775.9	1754.7	1670.2	1593.0	1539.1	1503.7	1452.5	1340.9
70°	1146.0	1360.8	1565.0	1619.2	1626.0	1499.8	1392.8	1329.5	1281.9	1211.4	1115.4
72.5°	852.1	1046.3	1226.3	1278.1	1304.6	1203.8	1113.6	1065.4	1000.2	926.1	857.9
75°	534.1	671.3	791.9	828.3	803.4	725.4	671.3	651.1	587.0	542.8	511.6
77.5°	305.4	348.4	358.0	344.1	314.8	241.0	171.4	126.9	110.1	122.0	134.5
80°	298.0	273.2	217.8	191.5	173.5	119.3	70.1	48.2	40.0	41.1	44.5
82.5°	323.0	346.5	285.3	232.7	195.3	131.9	72.7	38.7	26.1	30.9	34.8
85°	209.9	292.1	263.0	221.7	179.5	112.8	59.9	20.2	13.3	17.5	24.1
87.5°	21.2	23.3	19.9	27.0	20.2	9.4	4.7	2.9	2.6	3.2	4.7
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	260.9	260.9	260.9	260.9	260.9	260.9	260.9	260.9	260.9	260.9	260.9
2.5°	260.7	260.7	260.9	261.2	261.4	261.7	261.7	261.7	261.7	262.2	262.0
5°	261.2	261.7	262.2	262.5	263.0	263.0	263.8	263.5	263.5	264.3	264.6
7.5°	262.2	263.0	264.1	263.8	264.8	264.6	265.1	265.1	264.3	264.6	264.1
10°	264.6	265.7	266.1	265.4	265.7	264.6	264.3	263.0	261.4	260.7	259.6
12.5°	268.5	269.6	269.6	268.3	266.7	264.3	262.5	259.6	257.2	255.9	254.6
15°	271.9	272.9	272.7	270.6	268.3	264.6	262.0	258.6	255.2	253.0	251.7
17.5°	274.5	275.1	274.2	271.4	268.7	265.4	262.8	259.1	255.2	252.6	250.2
20°	278.4	278.0	276.1	272.5	269.6	266.4	264.3	261.2	256.7	253.3	250.0
22.5°	284.2	282.1	278.7	274.8	271.9	269.0	267.0	263.5	259.1	254.9	251.0
25°	291.8	287.6	282.9	278.7	276.1	272.9	270.6	267.0	262.2	257.5	252.8
27.5°	302.8	295.4	289.5	285.8	282.9	279.0	276.1	271.4	266.4	260.9	255.7
30°	315.1	305.1	299.4	296.5	293.4	289.2	284.7	278.7	272.9	267.0	260.7
32.5°	331.1	319.0	313.5	310.6	306.4	301.2	296.0	289.2	281.0	273.2	265.7
35°	352.0	339.7	334.0	329.5	323.7	316.9	309.3	300.2	289.2	278.7	269.0
37.5°	374.5	361.1	355.6	351.0	342.3	333.4	322.7	309.3	294.4	280.6	268.5
40°	403.0	390.7	383.6	375.5	365.3	349.9	333.1	313.8	294.7	277.7	263.5
42.5°	439.2	426.8	416.4	403.5	385.8	362.0	338.1	313.0	290.0	270.6	255.4
45°	487.1	472.1	454.0	431.5	402.8	369.5	338.4	308.0	281.0	259.6	243.4
47.5°	545.7	522.9	493.3	455.4	414.0	371.6	334.2	298.0	267.2	243.9	225.9
50°	615.3	579.4	530.7	475.0	419.8	368.5	323.7	283.2	247.5	222.7	201.2
52.5°	694.8	636.2	564.5	489.1	419.5	358.0	306.0	260.7	222.0	194.1	173.8
55°	788.3	701.1	599.3	499.6	412.2	338.6	278.7	229.0	190.2	164.7	145.8
57.5°	925.1	806.3	660.0	515.8	397.5	308.8	241.8	191.1	157.0	132.7	116.7
60°	1175.4	982.0	769.4	548.6	375.0	265.1	198.6	150.5	122.0	102.3	91.6
62.5°	1363.7	1117.8	828.6	541.2	329.8	211.2	147.3	109.7	89.8	76.4	69.6
65°	1336.8	1075.6	765.5	466.0	258.6	148.9	97.9	74.6	61.8	55.4	51.5
66°	1275.8	1020.7	710.8	419.5	223.5	123.8	80.6	62.5	53.1	48.7	46.0
67.5°	1160.1	918.6	612.9	343.9	171.7	89.8	60.7	49.5	43.2	41.4	39.5
70°	964.4	732.5	430.2	200.2	87.6	50.0	38.5	34.5	32.9	32.7	32.2
72.5°	739.1	518.4	253.3	94.7	45.6	33.2	29.9	28.6	28.0	28.0	28.3
75°	453.0	291.3	112.0	46.3	31.9	28.0	26.4	26.0	25.7	26.0	25.7
77.5°	151.3	92.7	47.9	35.1	29.0	26.0	24.8	24.4	24.4	24.4	24.4
80°	46.3	40.3	36.7	32.5	27.4	24.6	23.1	22.8	23.1	23.3	22.5
82.5°	34.8	32.9	30.9	28.7	24.8	22.0	21.5	21.5	21.5	20.7	19.6
85°	25.7	25.4	20.9	19.6	18.3	18.3	18.3	18.3	17.5	16.2	15.2
87.5°	4.7	4.5	4.7	4.9	7.3	7.8	7.8	8.4	9.1	8.7	8.7
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):

	160°	165°	170°	175°	180°
0°	260.9	260.9	260.9	260.9	260.9
2.5°	262.0	261.7	262.5	262.0	262.2
5°	264.3	264.1	264.6	264.1	264.8
7.5°	263.5	263.0	262.8	263.0	263.3
10°	258.0	257.5	257.2	257.0	257.2
12.5°	253.3	252.3	252.3	251.7	252.0
15°	250.0	249.1	248.8	248.4	248.7
17.5°	248.4	247.1	246.5	246.0	246.0
20°	247.4	245.8	244.9	244.5	244.2
22.5°	247.4	244.9	243.9	243.4	243.2
25°	248.4	245.5	243.9	243.2	242.9
27.5°	250.4	246.8	244.9	243.9	243.9
30°	254.1	249.4	246.8	245.5	245.2
32.5°	257.8	251.5	247.8	246.2	245.8
35°	259.6	251.5	247.1	244.5	243.9
37.5°	257.5	248.1	242.6	238.7	237.9
40°	251.0	241.0	235.0	231.4	230.8
42.5°	242.3	232.7	225.6	223.0	222.1
45°	230.6	219.1	212.0	208.3	208.6
47.5°	210.4	198.6	192.4	188.9	189.5
50°	186.6	175.1	169.6	166.0	166.7
52.5°	160.5	150.0	144.7	142.9	142.3
55°	132.9	124.8	121.2	119.1	118.3
57.5°	107.8	102.0	99.4	96.8	97.1
60°	85.0	82.1	81.4	78.5	78.2
62.5°	67.0	65.2	64.4	62.3	62.5
65°	50.8	50.2	50.8	49.5	50.0
66°	45.8	46.0	46.0	45.3	45.8
67.5°	39.5	40.0	40.8	40.0	40.6
70°	32.7	33.2	33.8	33.8	33.8
72.5°	28.6	29.0	29.3	29.3	29.3
75°	26.1	26.4	26.7	26.1	26.1
77.5°	24.6	24.6	24.1	23.8	23.5
80°	22.2	22.0	21.2	20.7	20.7
82.5°	18.6	18.0	17.5	16.7	16.7
85°	14.1	13.6	13.1	12.0	11.5
87.5°	7.3	7.6	7.3	6.0	5.2
90°	0.0	0.0	0.0	0.0	0.0

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