

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: P181684

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181684
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
Description: ICON SITE SMALL 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: 2245.4 lumens
Efficiency: N/A
Efficacy: 86.7 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

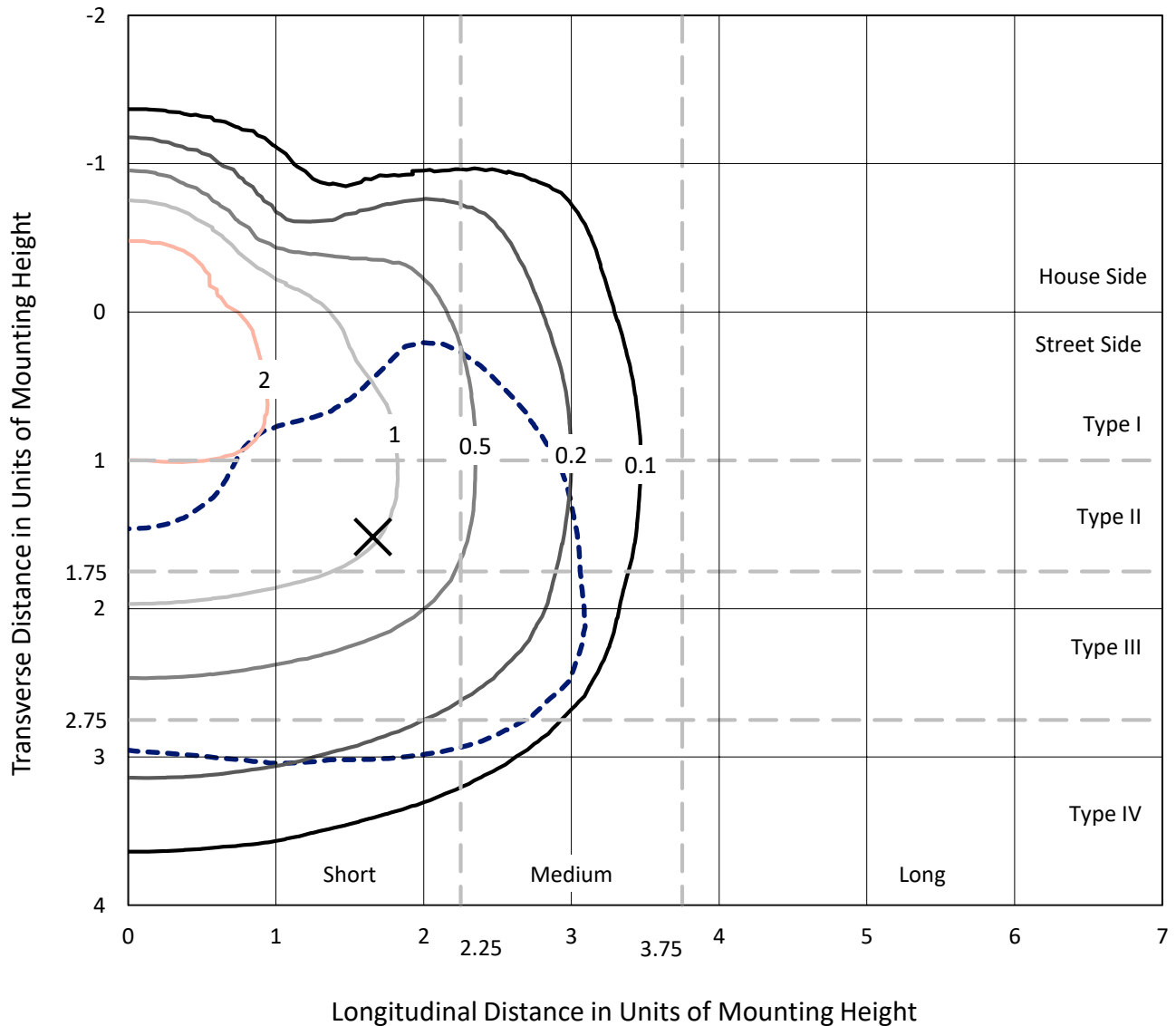
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

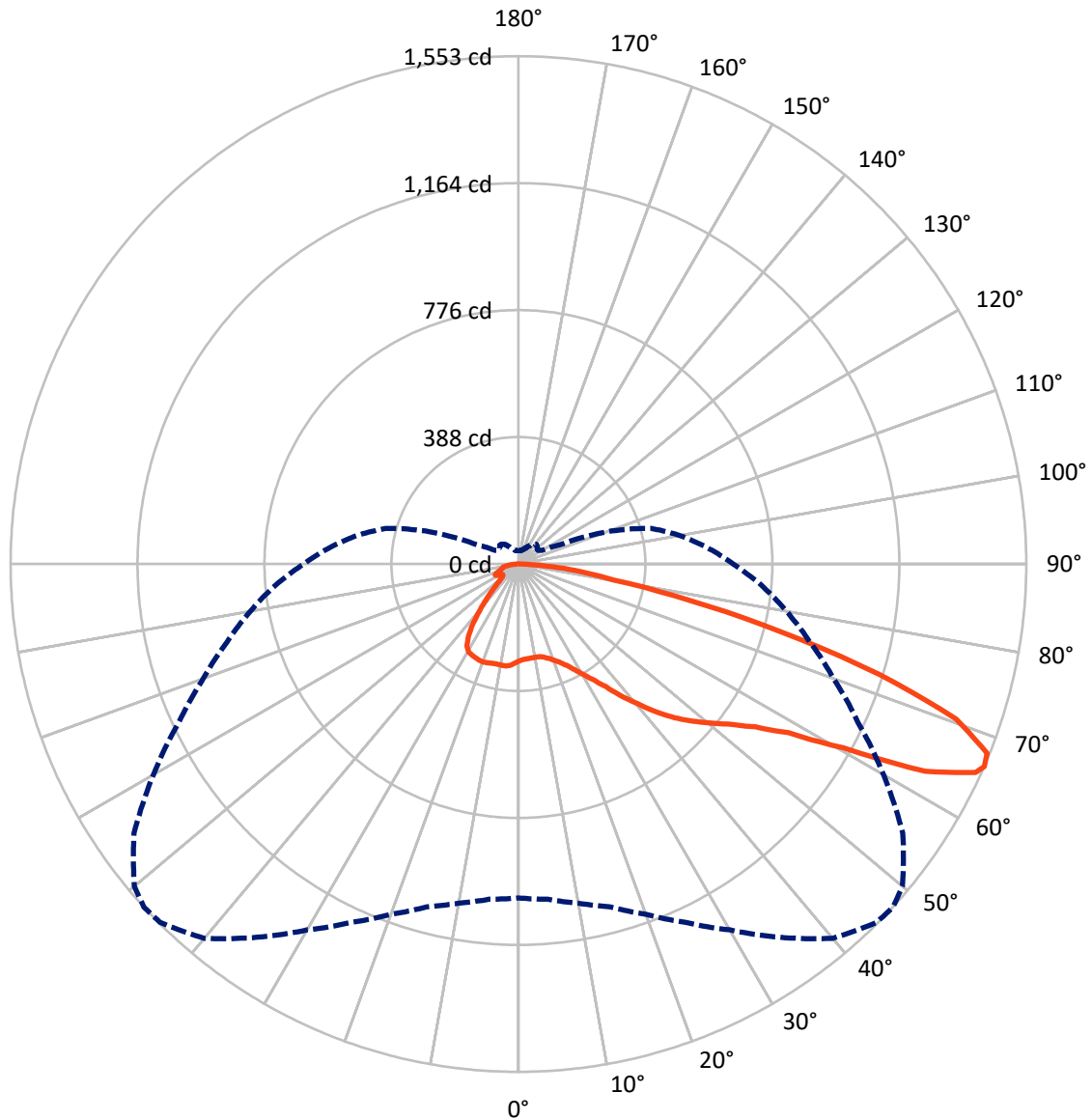
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.1 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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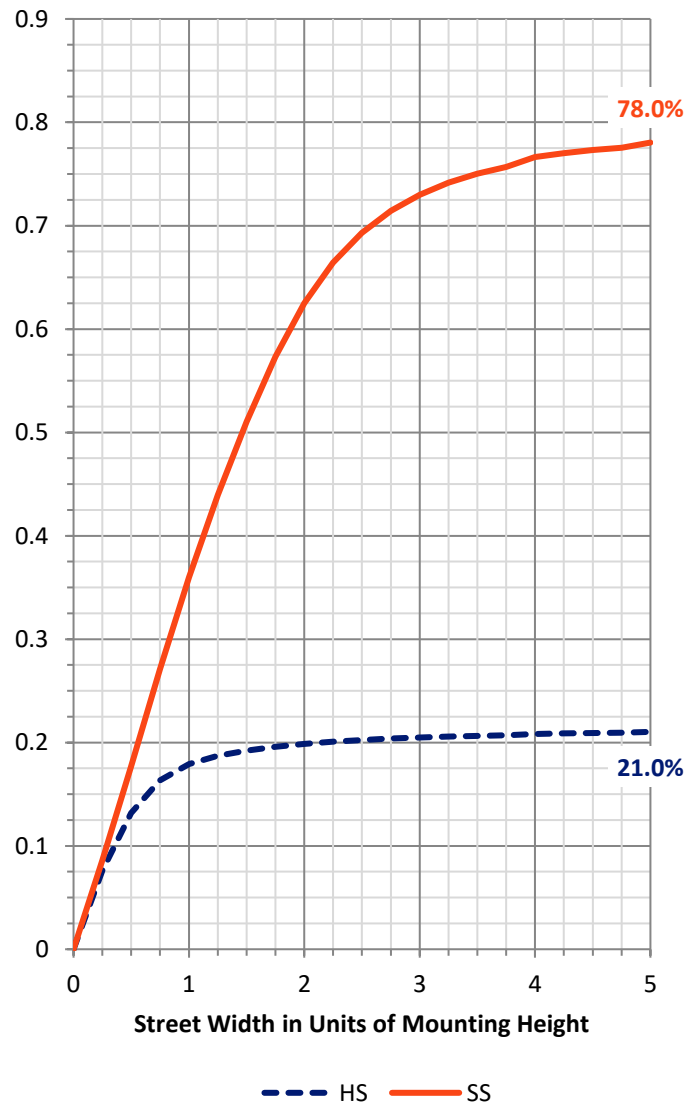
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	479.1	0.0	479.1
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	1766.3	0.0	1766.3
	% Fixture	78.7	0.0	78.7
Total	Lumens	2245.4	0.0	2245.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.7	1.3
10°-20°	87.3	3.9
20°-30°	150.3	6.7
30°-40°	227.4	10.1
40°-50°	294.7	13.1
50°-60°	406.3	18.1
60°-70°	631.3	28.1
70°-80°	367.1	16.3
80°-90°	52.2	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°	2245.4	100.0
0°-180°	2245.4	100.0

Coefficient of Utilization



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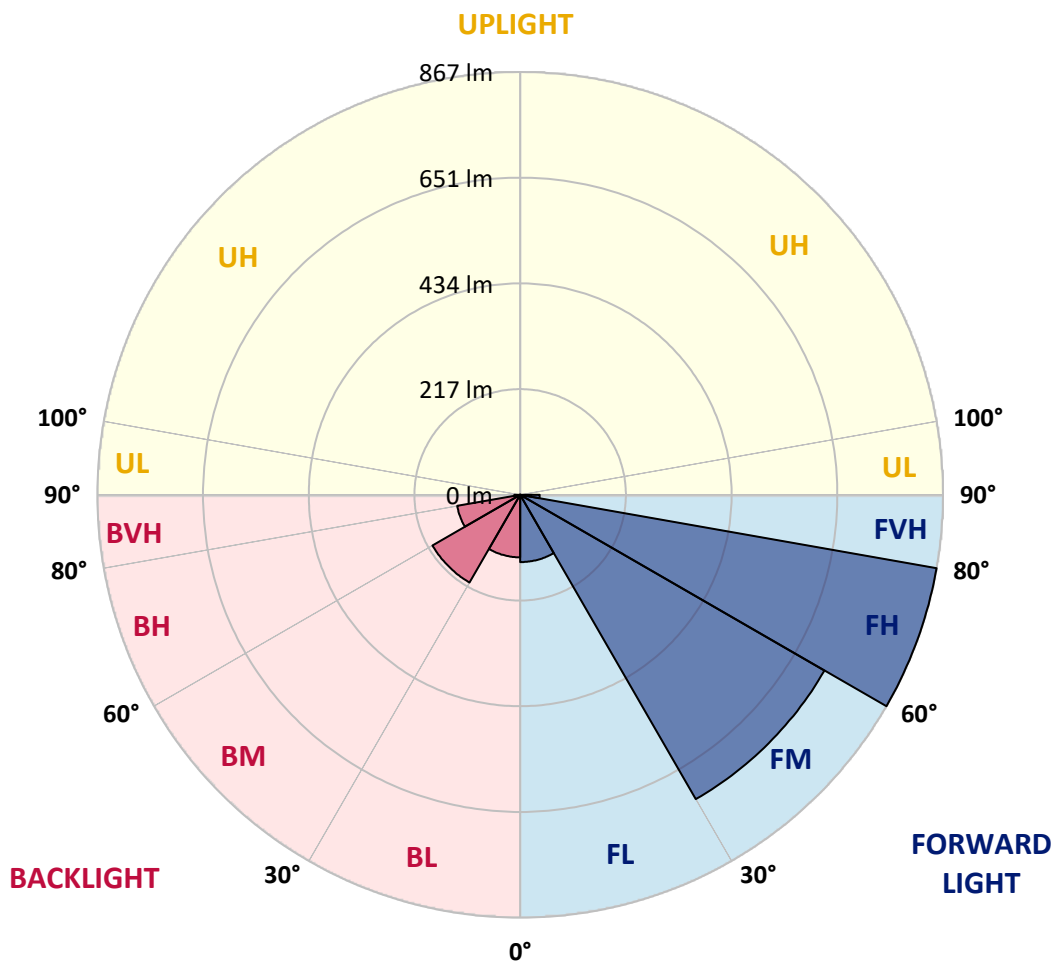
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	138.1	6.1			
FM	(30°-60°)	720.8	32.1			
FH	(60°-80°)	867.4	38.6			G1/1800
FVH	(80°-90°)	40.1	1.8			G1/100
BL	(0°-30°)	128.2	5.7	B1/500		
BM	(30°-60°)	207.7	9.2	B0/220		
BH	(60°-80°)	131.0	5.8	B1/500		G1/500
BVH	(80°-90°)	12.1	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°	296.0	296.0	296.0	296.0	296.0	296.0	296.0	296.0	296.0	296.0	296.0
2.5°	290.5	291.5	290.8	291.0	291.0	291.3	291.3	291.5	291.3	292.0	292.5
5°	285.3	285.8	285.6	286.1	286.6	287.5	287.3	288.5	288.8	289.5	290.8
7.5°	283.3	282.8	283.1	283.8	284.3	284.8	285.3	286.3	287.1	288.8	289.8
10°	285.3	285.1	285.3	285.8	285.8	286.1	285.6	286.6	287.1	288.5	289.5
12.5°	293.5	293.5	293.0	293.0	292.5	292.0	290.8	290.0	289.8	290.0	290.5
15°	306.6	306.1	305.1	304.4	303.4	301.7	299.9	298.4	297.5	296.0	295.5
17.5°	319.5	318.8	317.8	316.8	315.5	313.8	311.1	309.3	306.6	304.9	303.9
20°	334.4	332.9	331.6	330.4	327.9	327.4	324.7	321.7	318.5	314.5	314.0
22.5°	353.7	351.2	349.7	349.0	346.5	345.7	341.3	337.1	333.1	327.9	326.7
25°	373.2	370.8	370.0	369.0	367.3	366.3	362.1	357.4	352.2	345.0	343.5
27.5°	392.3	392.6	390.6	391.3	390.8	389.1	384.9	380.2	376.2	367.8	366.1
30°	416.1	414.6	413.6	415.1	413.4	413.6	409.9	407.4	401.0	396.0	392.6
32.5°	440.9	440.6	442.1	443.1	442.8	442.3	439.4	436.9	431.2	424.0	422.5
35°	474.8	476.3	477.5	482.0	482.0	485.2	482.2	479.2	472.6	463.9	460.9
37.5°	497.8	498.3	503.3	509.2	516.6	523.6	525.6	526.3	523.6	517.1	512.7
40°	518.9	519.9	527.8	537.0	547.8	561.5	569.6	573.4	574.1	571.1	561.5
42.5°	539.9	541.4	549.6	563.0	578.1	595.4	609.8	618.9	624.1	624.1	618.4
45°	564.4	566.4	575.3	590.0	607.5	629.3	649.1	666.7	675.2	675.6	670.2
47.5°	593.4	595.2	605.6	620.4	638.5	660.5	685.6	705.6	721.2	722.2	717.8
50°	630.8	633.3	642.0	655.3	673.9	696.2	721.2	749.2	765.6	769.5	764.8
52.5°	680.4	680.8	688.0	700.4	718.5	739.8	766.3	796.8	818.3	821.5	813.8
55°	748.7	748.0	752.7	766.0	779.7	796.3	823.8	857.9	882.0	886.9	879.0
57.5°	841.6	840.8	844.8	848.0	873.5	889.6	916.6	949.3	972.6	987.0	973.3
60°	985.5	984.7	991.2	1010.0	1029.1	1052.6	1078.9	1118.0	1150.7	1154.9	1141.5
62.5°	1089.8	1093.5	1107.6	1129.6	1168.3	1214.3	1262.4	1313.9	1381.0	1402.3	1395.9
65°	1053.3	1060.8	1080.3	1113.8	1165.3	1228.9	1304.2	1397.6	1487.5	1537.8	1536.3
66°	1020.7	1028.8	1052.8	1085.0	1139.5	1209.1	1291.4	1393.1	1493.7	1549.2	1552.6
67.5°	961.2	970.4	993.9	1032.0	1085.0	1159.1	1247.5	1358.2	1471.9	1536.6	1545.7
70°	845.5	856.0	873.0	904.5	956.8	1022.9	1116.0	1215.1	1334.2	1408.3	1419.4
72.5°	706.9	716.0	735.1	760.8	803.7	845.3	918.4	991.4	1076.6	1161.1	1152.9
75°	507.5	511.4	522.8	550.8	573.9	611.3	669.9	729.9	788.1	826.7	832.2
77.5°	263.8	274.2	290.3	321.2	346.2	379.9	418.1	463.1	505.7	541.2	531.5
80°	172.6	177.1	191.4	207.3	225.6	247.2	272.7	289.5	295.0	292.7	295.0
82.5°	99.6	107.7	126.8	138.9	152.6	160.0	180.3	199.6	210.5	196.9	191.9
85°	12.6	16.3	51.5	64.9	74.3	85.4	91.6	103.3	96.3	86.2	105.0
87.5°	2.7	2.5	3.5	7.4	7.7	6.4	12.1	12.9	7.9	4.0	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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	296.0	296.0	296.0	296.0	296.0	296.0	296.0	296.0	296.0	296.0	296.0
2.5°	293.0	293.2	293.7	294.5	295.0	295.5	296.0	296.7	297.2	297.7	298.7
5°	291.8	292.7	293.7	294.7	296.0	297.9	299.2	300.2	301.2	303.1	303.9
7.5°	291.0	292.7	294.2	296.0	297.9	299.7	301.9	303.1	304.6	305.9	307.4
10°	290.5	293.0	294.5	297.0	299.2	300.9	303.4	304.9	306.6	308.1	308.8
12.5°	291.5	292.7	294.2	296.7	299.4	301.9	304.6	305.9	307.4	308.6	308.8
15°	295.7	295.7	296.0	297.9	300.7	302.7	304.9	306.1	306.9	307.6	307.6
17.5°	303.4	301.7	300.4	300.7	302.4	303.6	304.9	304.9	304.4	304.1	303.6
20°	312.3	310.1	307.6	305.9	305.4	304.4	303.6	301.2	299.2	297.5	296.2
22.5°	325.2	321.7	318.3	315.0	312.1	308.4	304.1	299.2	294.5	291.3	289.3
25°	341.0	338.3	334.1	329.2	325.4	318.5	313.1	305.9	299.9	295.7	292.3
27.5°	363.6	360.4	356.4	351.9	346.5	338.8	332.1	323.7	316.5	310.3	305.9
30°	391.6	387.4	384.4	378.9	375.2	366.6	359.9	349.5	335.6	325.7	319.5
32.5°	420.3	415.6	413.1	408.9	404.7	399.5	389.3	373.2	355.4	339.3	328.7
35°	458.7	453.7	449.3	445.6	439.4	429.7	420.8	401.5	377.0	354.4	336.6
37.5°	507.0	498.8	487.7	478.3	467.4	453.5	439.9	420.0	392.1	362.8	339.1
40°	558.5	544.1	528.3	510.7	491.9	471.8	456.2	436.1	404.7	370.0	337.3
42.5°	612.2	589.5	567.4	542.6	516.4	492.6	472.3	450.3	414.1	372.0	330.4
45°	665.5	640.0	606.5	574.1	540.9	511.4	488.7	463.9	422.8	372.7	321.2
47.5°	709.6	683.3	645.2	604.6	565.2	531.7	505.0	478.3	434.4	377.9	319.0
50°	756.1	724.2	681.8	633.8	589.2	551.8	523.3	495.6	450.8	391.3	326.2
52.5°	806.9	770.3	720.7	667.0	618.2	576.3	545.4	516.9	471.6	410.1	339.8
55°	868.8	824.0	770.3	709.6	657.3	611.0	576.8	543.1	496.3	432.4	356.9
57.5°	963.4	908.5	848.0	778.9	721.0	666.2	625.4	586.5	534.7	465.6	380.2
60°	1134.6	1075.9	997.4	913.7	845.5	781.6	721.7	673.4	609.8	531.0	431.7
62.5°	1379.8	1301.8	1197.0	1079.8	990.7	898.6	830.9	759.1	680.1	595.2	492.4
65°	1516.0	1421.4	1281.2	1145.2	1030.6	930.5	844.6	761.3	673.7	592.4	506.5
66°	1532.8	1434.3	1288.6	1145.5	1025.1	922.3	831.9	745.7	656.1	578.6	500.5
67.5°	1525.9	1425.1	1275.0	1123.9	1001.6	891.1	797.7	708.3	618.9	546.6	480.7
70°	1412.2	1316.6	1169.3	1022.9	906.7	797.7	708.6	620.7	538.7	476.8	428.2
72.5°	1172.7	1091.0	962.9	848.0	756.9	667.0	591.4	507.5	438.1	392.3	363.6
75°	846.5	797.0	680.4	614.5	534.5	474.8	401.5	351.7	301.9	279.6	274.7
77.5°	534.7	468.1	394.0	324.4	266.7	221.2	172.1	146.1	121.9	119.4	144.1
80°	270.7	243.7	187.7	149.6	125.8	101.8	80.5	60.9	42.6	51.3	61.4
82.5°	177.3	147.9	115.9	95.4	83.0	68.9	53.5	37.2	27.2	30.7	42.1
85°	95.8	81.7	65.9	52.0	42.1	37.6	25.3	17.8	17.6	18.8	24.0
87.5°	6.9	6.9	5.4	5.0	5.9	5.0	4.5	4.5	4.2	4.5	5.9
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	296.0	296.0	296.0	296.0	296.0	296.0	296.0	296.0	296.0	296.0	296.0
2.5°	299.2	299.9	300.2	301.4	302.2	302.7	303.1	303.1	303.4	304.1	304.4
5°	304.9	306.1	307.6	308.6	309.1	310.6	311.1	311.1	311.6	312.6	313.3
7.5°	308.4	310.1	311.6	312.1	313.1	313.6	314.3	314.8	314.8	315.8	316.3
10°	309.6	310.6	312.1	312.1	313.1	313.1	313.8	314.0	314.0	315.0	315.8
12.5°	309.6	310.1	311.3	311.3	312.1	312.3	313.3	314.0	314.3	315.5	316.5
15°	308.1	308.6	309.6	309.8	311.6	312.6	314.8	316.3	316.3	317.5	318.0
17.5°	303.9	305.1	307.1	309.1	312.3	314.5	317.3	318.5	317.5	316.8	316.0
20°	297.0	299.2	303.9	308.8	314.5	317.5	319.0	317.8	314.3	310.8	308.6
22.5°	290.0	294.5	302.4	309.8	316.3	318.3	317.5	313.1	307.4	303.1	300.2
25°	293.2	298.4	306.1	312.8	317.0	316.5	313.6	307.4	301.2	295.7	290.8
27.5°	306.6	312.3	316.5	318.8	318.3	314.8	310.1	303.1	295.7	288.5	281.6
30°	319.2	322.2	323.2	321.5	317.5	311.8	305.9	297.9	288.0	279.1	271.2
32.5°	324.9	322.0	317.3	312.6	306.1	301.2	293.0	284.3	271.9	261.3	253.4
35°	324.9	313.1	301.2	291.3	281.6	275.4	266.0	254.4	243.0	234.0	227.9
37.5°	317.8	295.0	275.4	259.3	247.2	240.5	226.4	216.0	206.3	203.3	199.4
40°	304.6	271.0	242.7	221.7	206.3	196.4	182.3	175.1	171.4	169.9	169.2
42.5°	287.1	244.2	206.6	180.6	164.0	152.8	143.4	138.9	138.7	138.4	138.4
45°	268.2	215.5	171.4	140.4	125.8	115.9	111.5	109.7	111.2	111.0	111.2
47.5°	256.6	193.7	139.2	106.3	95.1	88.7	86.4	87.2	88.4	87.9	87.9
50°	255.1	182.5	117.6	82.7	74.3	71.1	70.6	70.6	71.3	70.8	70.6
52.5°	260.5	180.8	106.5	71.1	64.4	61.7	61.2	60.9	60.7	59.2	58.0
55°	270.0	184.8	103.3	68.1	61.2	58.2	57.5	57.0	56.0	54.0	51.8
57.5°	288.8	197.1	106.3	69.6	62.2	59.7	58.9	58.9	57.0	53.7	50.5
60°	334.1	228.6	118.4	75.3	66.9	64.4	64.9	64.6	61.7	57.0	52.0
62.5°	392.6	269.7	134.2	83.2	72.8	72.3	74.8	74.3	69.3	62.2	55.0
65°	419.6	289.0	138.7	85.0	74.1	76.3	81.2	80.7	74.5	64.6	55.5
66°	420.0	289.0	136.7	83.5	72.3	75.0	80.0	79.8	73.6	63.7	54.5
67.5°	409.9	281.1	131.0	80.5	68.9	70.8	75.3	75.0	69.3	61.2	52.5
70°	371.8	251.6	116.4	75.3	64.1	63.2	64.6	63.7	59.9	54.2	48.3
72.5°	318.5	211.3	101.5	71.3	60.9	57.0	56.0	55.2	52.3	49.0	45.3
75°	250.9	167.2	89.2	68.4	58.0	52.8	51.0	50.0	48.0	45.8	42.8
77.5°	154.8	119.6	77.8	64.4	55.7	50.5	49.3	47.8	44.8	42.1	39.9
80°	69.1	74.1	63.9	56.2	49.8	45.1	43.1	40.9	37.9	36.2	34.9
82.5°	46.1	47.8	46.3	42.1	37.6	33.9	31.0	31.0	30.5	29.0	28.5
85°	29.5	29.7	28.7	26.0	24.3	22.0	20.8	21.1	22.0	21.8	21.5
87.5°	6.7	6.7	7.9	7.4	8.7	9.2	9.9	10.6	12.1	12.1	12.9
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°	296.0	296.0	296.0	296.0	296.0
2.5°	304.6	305.1	305.6	304.9	305.1
5°	313.3	313.1	314.3	313.6	314.0
7.5°	316.0	316.3	317.3	317.3	317.5
10°	316.3	316.8	318.0	318.8	319.2
12.5°	317.5	318.5	320.5	321.0	321.0
15°	318.5	319.0	320.2	320.7	321.2
17.5°	315.0	314.0	314.5	314.8	314.5
20°	306.4	305.4	305.1	304.1	304.6
22.5°	297.0	294.2	292.5	290.5	290.5
25°	285.6	281.4	277.9	274.4	275.2
27.5°	274.9	269.5	266.0	263.8	263.3
30°	264.5	258.8	255.6	252.9	252.9
32.5°	247.2	243.2	239.0	237.3	237.0
35°	223.2	220.7	217.2	216.5	215.2
37.5°	196.2	195.4	192.4	192.2	191.0
40°	167.9	168.4	167.4	166.9	166.2
42.5°	139.7	142.2	141.7	141.4	140.9
45°	112.7	114.4	114.7	115.4	116.7
47.5°	88.7	89.2	89.7	89.4	89.7
50°	69.3	68.1	67.9	67.1	67.9
52.5°	56.0	54.0	53.0	52.0	51.5
55°	49.3	47.3	46.3	45.8	45.3
57.5°	47.6	45.6	44.1	43.1	42.8
60°	48.0	45.1	43.1	41.9	41.6
62.5°	49.3	45.3	42.6	41.4	41.1
65°	49.0	44.8	42.4	40.9	40.6
66°	48.3	44.3	41.9	40.6	40.4
67.5°	47.1	43.6	41.4	40.4	39.9
70°	44.8	42.6	40.9	39.6	39.1
72.5°	42.8	41.1	39.6	38.4	38.1
75°	40.6	39.1	37.6	36.7	36.4
77.5°	37.9	36.4	35.4	34.7	34.4
80°	33.4	32.4	31.5	30.5	30.5
82.5°	27.7	27.0	26.0	25.3	25.0
85°	21.3	21.3	20.6	19.8	19.6
87.5°	12.6	12.4	12.4	11.6	11.6
90°	0.0	0.0	0.0	0.0	0.0

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