

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: P181677

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181677
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-E01-LED-E1-T4-8030
Description: ICON SITE SMALL 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: 2295.6 lumens
Efficiency: N/A
Efficacy: 92.9 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

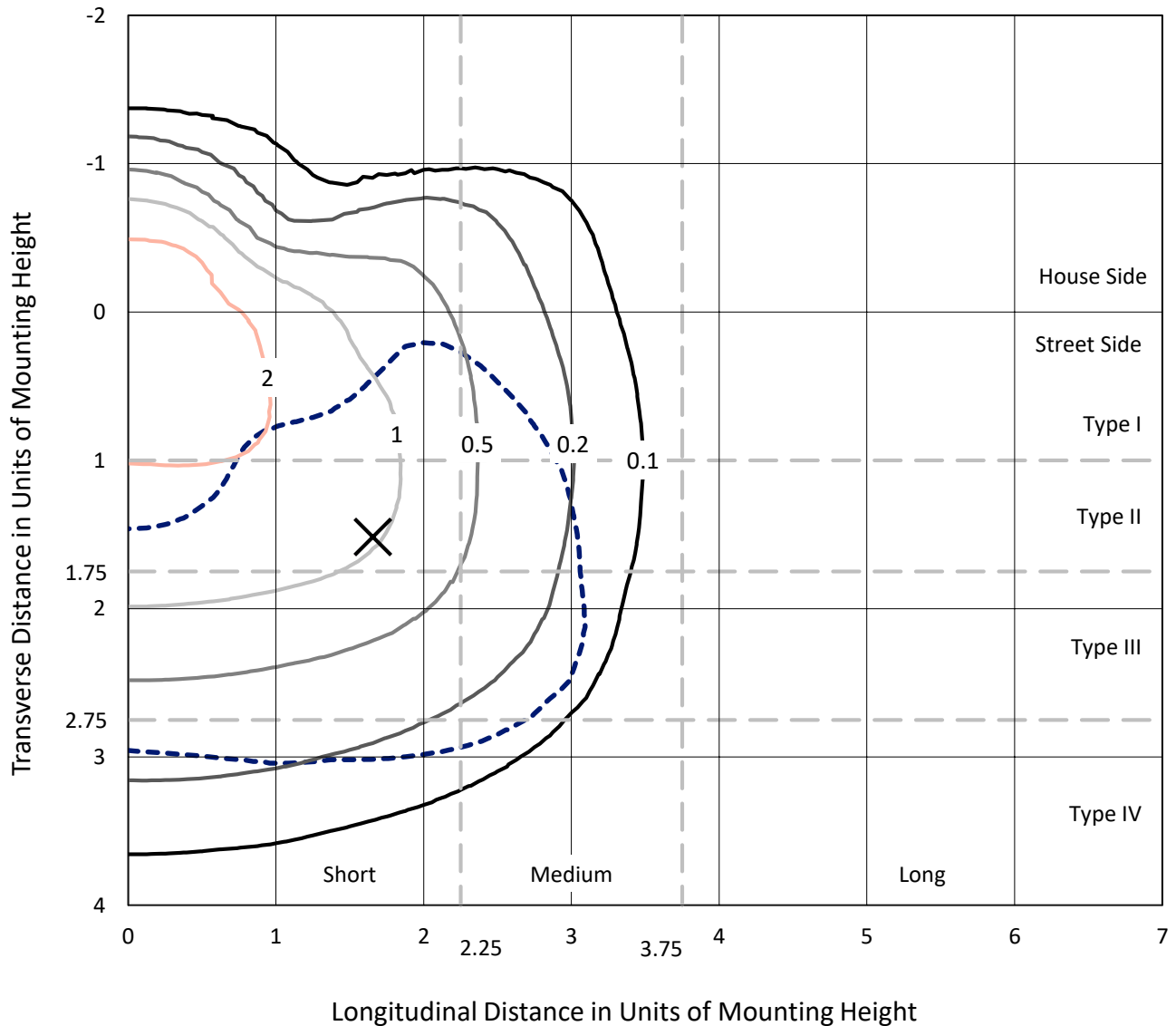
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

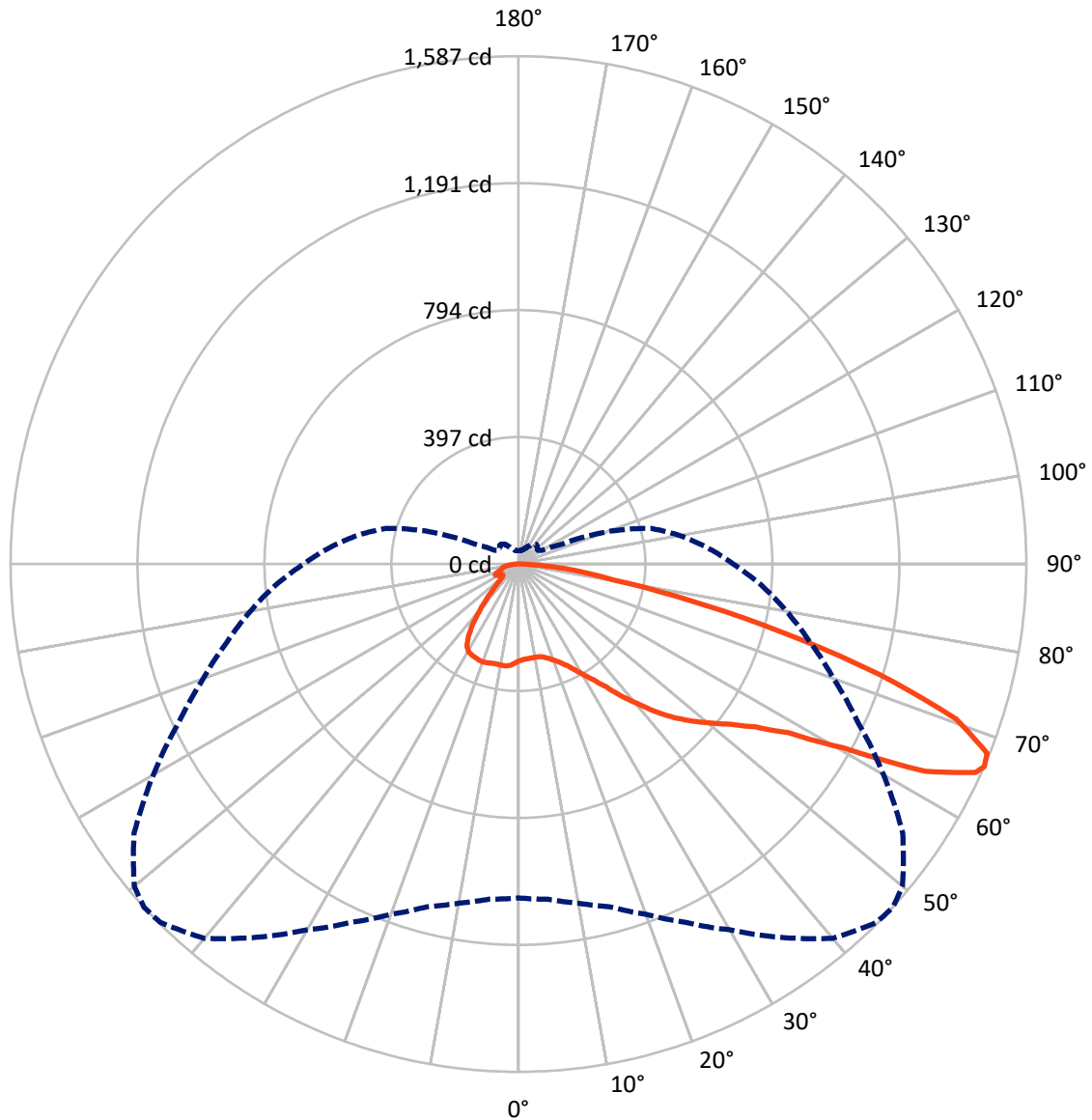
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.2 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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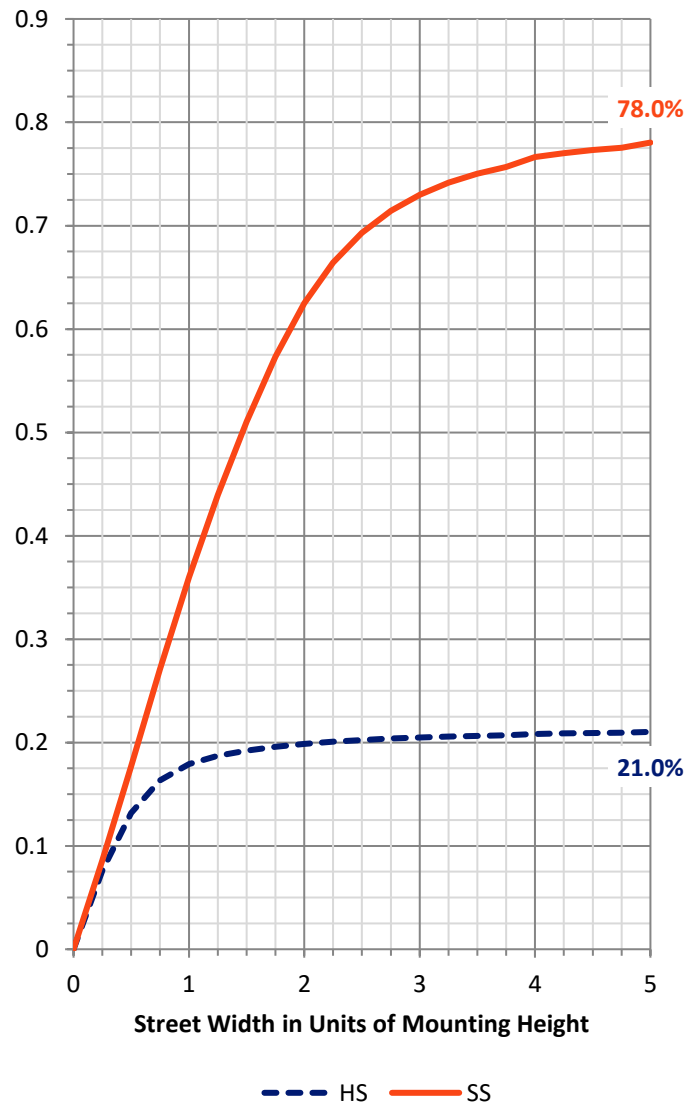
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	489.8	0.0	489.8
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	1805.8	0.0	1805.8
	% Fixture	78.7	0.0	78.7
Total	Lumens	2295.6	0.0	2295.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.4	1.3
10°-20°	89.2	3.9
20°-30°	153.7	6.7
30°-40°	232.5	10.1
40°-50°	301.3	13.1
50°-60°	415.4	18.1
60°-70°	645.4	28.1
70°-80°	375.3	16.3
80°-90°	53.4	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°	2295.6	100.0
0°-180°	2295.6	100.0



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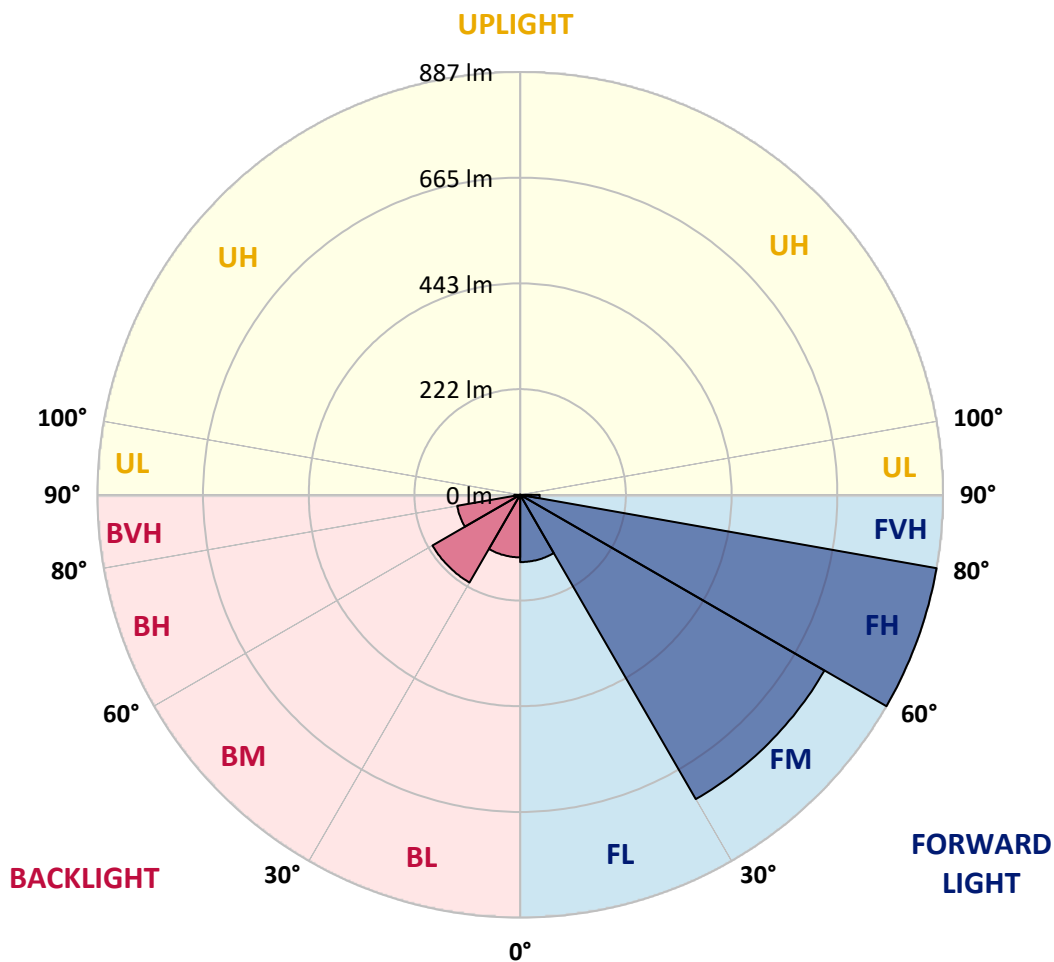
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	141.1	6.1			
FM	(30°-60°)	736.9	32.1			
FH	(60°-80°)	886.8	38.6			G1/1800
FVH	(80°-90°)	41.0	1.8			G1/100
BL	(0°-30°)	131.1	5.7	B1/500		
BM	(30°-60°)	212.3	9.2	B0/220		
BH	(60°-80°)	134.0	5.8	B1/500		G1/500
BVH	(80°-90°)	12.4	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°	302.6	302.6	302.6	302.6	302.6	302.6	302.6	302.6	302.6	302.6	302.6
2.5°	297.0	298.0	297.3	297.5	297.5	297.8	297.8	298.0	297.8	298.5	299.0
5°	291.7	292.2	292.0	292.5	293.0	294.0	293.7	295.0	295.2	296.0	297.3
7.5°	289.7	289.2	289.4	290.2	290.7	291.2	291.7	292.7	293.5	295.2	296.3
10°	291.7	291.4	291.7	292.2	292.2	292.5	292.0	293.0	293.5	295.0	296.0
12.5°	300.1	300.1	299.5	299.5	299.0	298.5	297.3	296.5	296.3	296.5	297.0
15°	313.5	313.0	312.0	311.2	310.2	308.4	306.6	305.1	304.1	302.6	302.1
17.5°	326.6	325.9	324.9	323.9	322.6	320.8	318.0	316.3	313.5	311.7	310.7
20°	341.8	340.3	339.0	337.8	335.3	334.7	332.0	328.9	325.6	321.6	321.1
22.5°	361.6	359.1	357.5	356.8	354.2	353.5	348.9	344.6	340.6	335.3	334.0
25°	381.6	379.1	378.3	377.3	375.5	374.5	370.2	365.4	360.1	352.7	351.2
27.5°	401.1	401.3	399.3	400.1	399.6	397.8	393.5	388.7	384.6	376.0	374.2
30°	425.4	423.9	422.9	424.4	422.6	422.9	419.1	416.5	409.9	404.9	401.3
32.5°	450.7	450.5	452.0	453.0	452.7	452.2	449.2	446.7	440.8	433.5	432.0
35°	485.4	486.9	488.2	492.7	492.7	496.0	493.0	490.0	483.1	474.3	471.2
37.5°	509.0	509.5	514.5	520.6	528.2	535.3	537.3	538.1	535.3	528.7	524.1
40°	530.5	531.5	539.6	549.0	560.1	574.0	582.4	586.2	586.9	583.9	574.0
42.5°	552.0	553.5	561.9	575.5	591.0	608.7	623.4	632.8	638.1	638.1	632.3
45°	577.1	579.1	588.2	603.1	621.1	643.4	663.7	681.6	690.3	690.8	685.2
47.5°	606.7	608.5	619.1	634.3	652.8	675.3	700.9	721.4	737.4	738.4	733.8
50°	644.9	647.5	656.3	670.0	689.0	711.8	737.4	766.0	782.7	786.7	781.9
52.5°	695.6	696.1	703.4	716.1	734.6	756.3	783.4	814.6	836.6	839.9	832.1
55°	765.5	764.7	769.5	783.2	797.1	814.1	842.2	877.1	901.7	906.7	898.6
57.5°	860.4	859.7	863.7	867.0	893.1	909.5	937.1	970.6	994.4	1009.0	995.1
60°	1007.5	1006.8	1013.4	1032.6	1052.1	1076.1	1103.0	1143.0	1176.4	1180.7	1167.0
62.5°	1114.1	1117.9	1132.4	1154.9	1194.4	1241.5	1290.6	1343.3	1411.9	1433.7	1427.1
65°	1076.9	1084.5	1104.5	1138.7	1191.4	1256.4	1333.4	1428.9	1520.8	1572.2	1570.7
66°	1043.5	1051.8	1076.4	1109.3	1165.0	1236.2	1320.2	1424.3	1527.1	1583.8	1587.4
67.5°	982.7	992.1	1016.1	1055.1	1109.3	1185.0	1275.4	1388.6	1504.8	1570.9	1580.3
70°	864.5	875.1	892.6	924.7	978.2	1045.8	1141.0	1242.3	1364.0	1439.8	1451.2
72.5°	722.7	732.0	751.5	777.9	821.7	864.2	938.9	1013.6	1100.7	1187.1	1178.7
75°	518.8	522.9	534.5	563.1	586.7	624.9	684.9	746.2	805.7	845.2	850.8
77.5°	269.7	280.3	296.8	328.4	354.0	388.4	427.4	473.5	517.1	553.3	543.4
80°	176.5	181.0	195.7	211.9	230.7	252.7	278.8	296.0	301.6	299.3	301.6
82.5°	101.8	110.1	129.6	142.1	156.0	163.6	184.3	204.1	215.2	201.3	196.2
85°	12.9	16.7	52.7	66.3	76.0	87.4	93.7	105.6	98.5	88.1	107.4
87.5°	2.8	2.5	3.5	7.6	7.8	6.6	12.4	13.2	8.1	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°	302.6	302.6	302.6	302.6	302.6	302.6	302.6	302.6	302.6	302.6	302.6
2.5°	299.5	299.8	300.3	301.1	301.6	302.1	302.6	303.3	303.9	304.4	305.4
5°	298.3	299.3	300.3	301.3	302.6	304.6	305.9	306.9	307.9	309.9	310.7
7.5°	297.5	299.3	300.8	302.6	304.6	306.4	308.7	309.9	311.4	312.7	314.2
10°	297.0	299.5	301.1	303.6	305.9	307.7	310.2	311.7	313.5	315.0	315.8
12.5°	298.0	299.3	300.8	303.3	306.1	308.7	311.4	312.7	314.2	315.5	315.8
15°	302.3	302.3	302.6	304.6	307.4	309.4	311.7	313.0	313.7	314.5	314.5
17.5°	310.2	308.4	307.1	307.4	309.2	310.4	311.7	311.7	311.2	310.9	310.4
20°	319.3	317.0	314.5	312.7	312.2	311.2	310.4	307.9	305.9	304.1	302.8
22.5°	332.5	328.9	325.4	322.1	319.0	315.2	310.9	305.9	301.1	297.8	295.8
25°	348.7	345.9	341.6	336.5	332.7	325.6	320.1	312.7	306.6	302.3	298.8
27.5°	371.7	368.4	364.4	359.8	354.2	346.4	339.6	330.9	323.6	317.3	312.7
30°	400.3	396.0	393.0	387.4	383.6	374.8	367.9	357.3	343.1	333.0	326.6
32.5°	429.7	424.9	422.4	418.1	413.7	408.4	398.0	381.6	363.4	346.9	336.0
35°	468.9	463.9	459.3	455.5	449.2	439.3	430.2	410.5	385.4	362.3	344.1
37.5°	518.3	510.0	498.6	489.0	477.8	463.6	449.7	429.4	400.8	371.0	346.6
40°	571.0	556.3	540.1	522.1	502.9	482.4	466.4	445.9	413.7	378.3	344.9
42.5°	625.9	602.6	580.1	554.8	527.9	503.6	482.9	460.3	423.4	380.3	337.8
45°	680.4	654.3	620.1	586.9	553.0	522.9	499.6	474.3	432.2	381.1	328.4
47.5°	725.4	698.6	659.6	618.1	577.8	543.6	516.3	489.0	444.1	386.4	326.1
50°	773.1	740.4	697.1	648.0	602.4	564.2	535.0	506.7	460.8	400.1	333.5
52.5°	825.0	787.5	736.8	681.9	632.0	589.2	557.6	528.5	482.1	419.3	347.4
55°	888.3	842.4	787.5	725.4	672.0	624.7	589.7	555.3	507.4	442.1	364.9
57.5°	985.0	928.8	867.0	796.3	737.1	681.1	639.4	599.6	546.7	476.0	388.7
60°	1160.0	1099.9	1019.7	934.1	864.5	799.1	737.9	688.5	623.4	542.9	441.3
62.5°	1410.6	1330.9	1223.8	1104.0	1012.8	918.6	849.5	776.1	695.3	608.5	503.4
65°	1549.9	1453.2	1309.9	1170.8	1053.6	951.3	863.4	778.4	688.7	605.7	517.8
66°	1567.1	1466.3	1317.5	1171.1	1048.0	943.0	850.5	762.4	670.8	591.5	511.7
67.5°	1560.0	1457.0	1303.5	1149.1	1024.0	911.1	815.6	724.2	632.8	558.8	491.5
70°	1443.8	1346.1	1195.4	1045.8	927.0	815.6	724.4	634.5	550.7	487.4	437.8
72.5°	1199.0	1115.4	984.5	867.0	773.8	681.9	604.7	518.8	447.9	401.1	371.7
75°	865.5	814.8	695.6	628.2	546.4	485.4	410.5	359.6	308.7	285.9	280.8
77.5°	546.7	478.6	402.9	331.7	272.7	226.1	176.0	149.4	124.6	122.0	147.4
80°	276.8	249.2	191.9	152.9	128.6	104.1	82.3	62.3	43.6	52.4	62.8
82.5°	181.3	151.2	118.5	97.5	84.8	70.4	54.7	38.0	27.9	31.4	43.0
85°	98.0	83.6	67.4	53.2	43.0	38.5	25.8	18.2	18.0	19.2	24.6
87.5°	7.1	7.1	5.6	5.1	6.1	5.1	4.6	4.6	4.3	4.6	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°	302.6	302.6	302.6	302.6	302.6	302.6	302.6	302.6	302.6	302.6	302.6
2.5°	305.9	306.6	306.9	308.2	308.9	309.4	309.9	309.9	310.2	310.9	311.2
5°	311.7	313.0	314.5	315.5	316.0	317.5	318.0	318.0	318.5	319.6	320.3
7.5°	315.2	317.0	318.5	319.0	320.1	320.6	321.3	321.8	321.8	322.8	323.4
10°	316.5	317.5	319.0	319.0	320.1	320.1	320.8	321.1	321.1	322.1	322.8
12.5°	316.5	317.0	318.3	318.3	319.0	319.3	320.3	321.1	321.3	322.6	323.6
15°	315.0	315.5	316.5	316.8	318.5	319.6	321.8	323.4	323.4	324.6	325.1
17.5°	310.7	312.0	314.0	316.0	319.3	321.6	324.4	325.6	324.6	323.9	323.1
20°	303.6	305.9	310.7	315.8	321.6	324.6	326.1	324.9	321.3	317.8	315.5
22.5°	296.5	301.1	309.2	316.8	323.4	325.4	324.6	320.1	314.2	309.9	306.9
25°	299.8	305.1	313.0	319.8	324.1	323.6	320.6	314.2	307.9	302.3	297.3
27.5°	313.5	319.3	323.6	325.9	325.4	321.8	317.0	309.9	302.3	295.0	287.9
30°	326.4	329.4	330.4	328.7	324.6	318.8	312.7	304.6	294.5	285.4	277.3
32.5°	332.2	329.2	324.4	319.6	313.0	307.9	299.5	290.7	278.0	267.1	259.0
35°	332.2	320.1	307.9	297.8	287.9	281.6	271.9	260.0	248.4	239.3	233.0
37.5°	324.9	301.6	281.6	265.1	252.7	245.9	231.4	220.8	210.9	207.9	203.8
40°	311.4	277.0	248.1	226.6	210.9	200.8	186.4	179.0	175.2	173.7	172.9
42.5°	293.5	249.7	211.2	184.6	167.6	156.2	146.6	142.1	141.8	141.5	141.5
45°	274.2	220.3	175.2	143.6	128.6	118.5	113.9	112.2	113.7	113.4	113.7
47.5°	262.3	198.0	142.3	108.6	97.2	90.6	88.4	89.1	90.4	89.9	89.9
50°	260.8	186.6	120.3	84.6	76.0	72.7	72.2	72.2	72.9	72.4	72.2
52.5°	266.4	184.8	108.9	72.7	65.8	63.0	62.5	62.3	62.0	60.5	59.3
55°	276.0	188.9	105.6	69.6	62.5	59.5	58.7	58.2	57.2	55.2	52.9
57.5°	295.2	201.6	108.6	71.2	63.6	61.0	60.3	60.3	58.2	54.9	51.7
60°	341.6	233.7	121.0	77.0	68.4	65.8	66.3	66.1	63.0	58.2	53.2
62.5°	401.3	275.7	137.2	85.1	74.4	73.9	76.5	76.0	70.9	63.6	56.2
65°	428.9	295.5	141.8	86.9	75.7	78.0	83.1	82.5	76.2	66.1	56.7
66°	429.4	295.5	139.8	85.3	73.9	76.7	81.8	81.5	75.2	65.1	55.7
67.5°	419.1	287.4	133.9	82.3	70.4	72.4	77.0	76.7	70.9	62.5	53.7
70°	380.1	257.3	119.0	77.0	65.6	64.6	66.1	65.1	61.3	55.5	49.4
72.5°	325.6	216.0	103.8	72.9	62.3	58.2	57.2	56.5	53.4	50.1	46.3
75°	256.5	170.9	91.2	69.9	59.3	53.9	52.2	51.1	49.1	46.8	43.8
77.5°	158.3	122.3	79.5	65.8	57.0	51.7	50.4	48.9	45.8	43.0	40.8
80°	70.6	75.7	65.3	57.5	50.9	46.1	44.1	41.8	38.7	37.0	35.7
82.5°	47.1	48.9	47.4	43.0	38.5	34.7	31.7	31.7	31.1	29.6	29.1
85°	30.1	30.4	29.4	26.6	24.8	22.5	21.3	21.5	22.5	22.3	22.0
87.5°	6.8	6.8	8.1	7.6	8.9	9.4	10.1	10.9	12.4	12.4	13.2
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):

	160°	165°	170°	175°	180°
0°	302.6	302.6	302.6	302.6	302.6
2.5°	311.4	312.0	312.5	311.7	312.0
5°	320.3	320.1	321.3	320.6	321.1
7.5°	323.1	323.4	324.4	324.4	324.6
10°	323.4	323.9	325.1	325.9	326.4
12.5°	324.6	325.6	327.7	328.2	328.2
15°	325.6	326.1	327.4	327.9	328.4
17.5°	322.1	321.1	321.6	321.8	321.6
20°	313.2	312.2	312.0	310.9	311.4
22.5°	303.6	300.8	299.0	297.0	297.0
25°	292.0	287.6	284.1	280.6	281.3
27.5°	281.1	275.5	271.9	269.7	269.2
30°	270.4	264.6	261.3	258.5	258.5
32.5°	252.7	248.7	244.3	242.6	242.3
35°	228.1	225.6	222.1	221.3	220.0
37.5°	200.5	199.8	196.7	196.5	195.2
40°	171.7	172.2	171.2	170.7	169.9
42.5°	142.8	145.3	144.8	144.6	144.1
45°	115.2	117.0	117.2	118.0	119.3
47.5°	90.6	91.2	91.7	91.4	91.7
50°	70.9	69.6	69.4	68.6	69.4
52.5°	57.2	55.2	54.2	53.2	52.7
55°	50.4	48.4	47.4	46.8	46.3
57.5°	48.6	46.6	45.1	44.1	43.8
60°	49.1	46.1	44.1	42.8	42.5
62.5°	50.4	46.3	43.6	42.3	42.0
65°	50.1	45.8	43.3	41.8	41.5
66°	49.4	45.3	42.8	41.5	41.3
67.5°	48.1	44.6	42.3	41.3	40.8
70°	45.8	43.6	41.8	40.5	40.0
72.5°	43.8	42.0	40.5	39.2	39.0
75°	41.5	40.0	38.5	37.5	37.2
77.5°	38.7	37.2	36.2	35.4	35.2
80°	34.2	33.2	32.2	31.1	31.1
82.5°	28.4	27.6	26.6	25.8	25.6
85°	21.8	21.8	21.0	20.3	20.0
87.5°	12.9	12.7	12.7	11.9	11.9
90°	0.0	0.0	0.0	0.0	0.0

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