

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: P676252

Luminaire Tested: **CCW-SA-1A-730-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676252
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-730-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
T2 distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

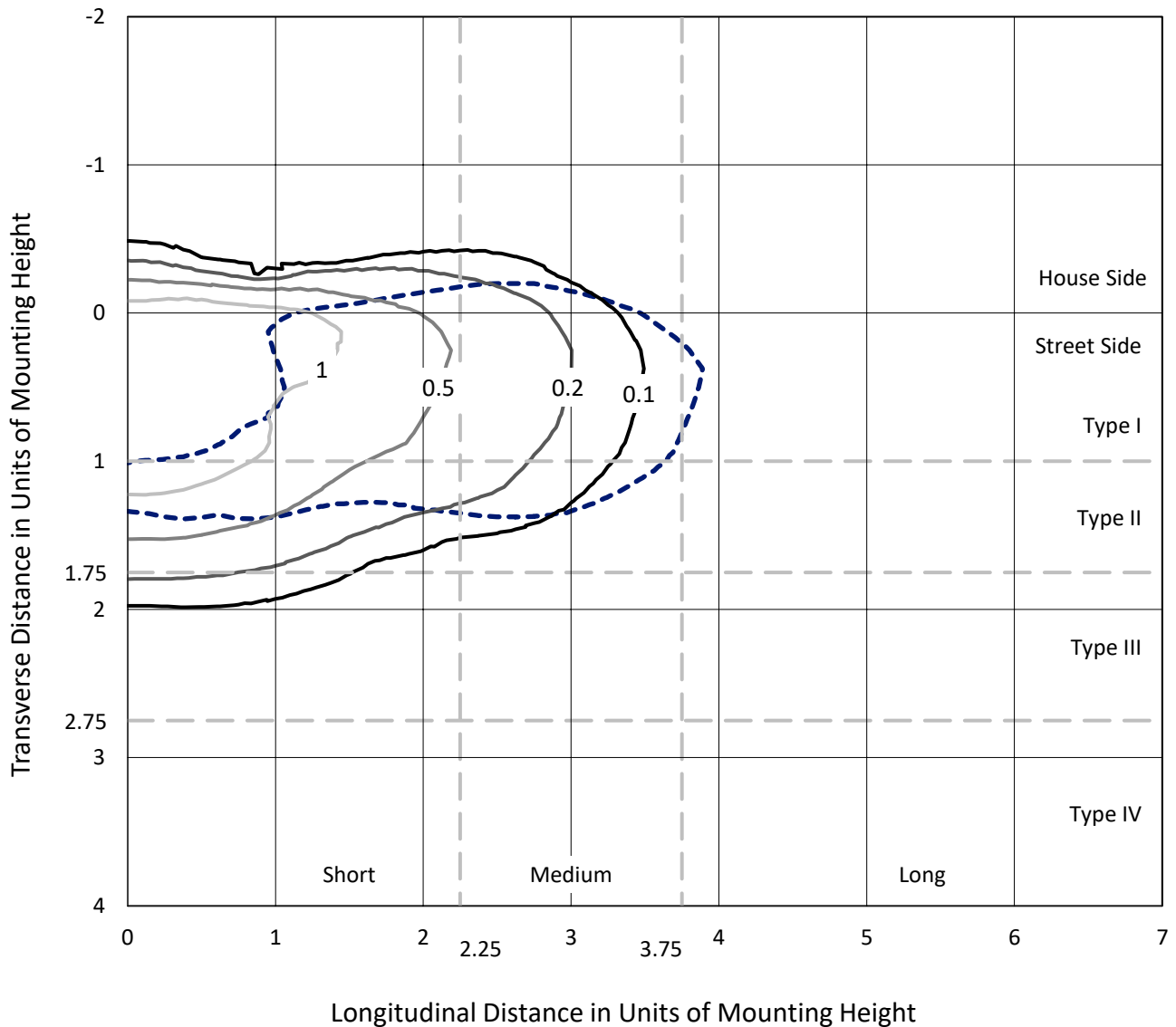
Lumens per Lamp: N/A
Luminaire Lumens: 1923.3 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 18
Input Voltage (V): 120
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

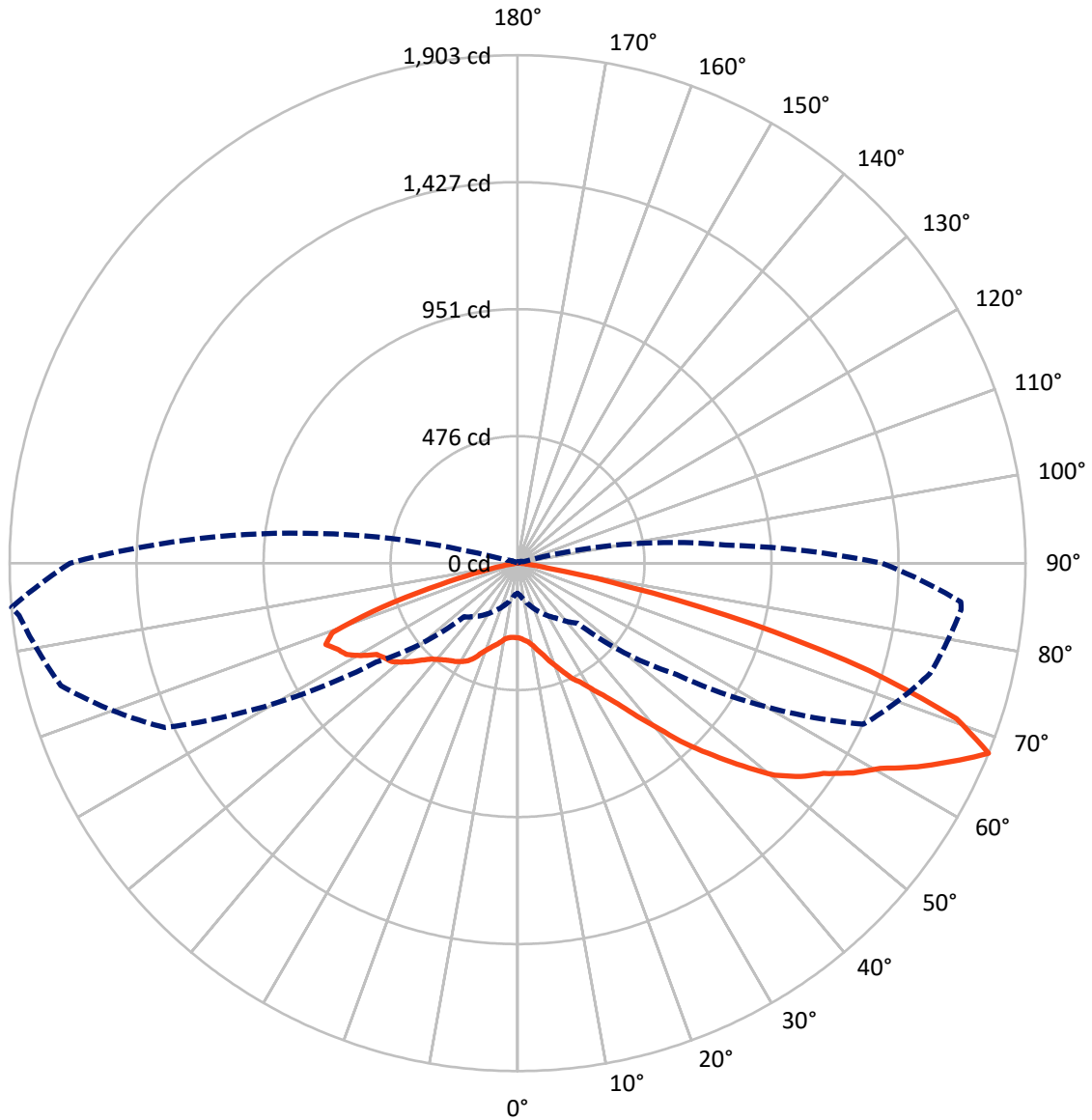
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 275-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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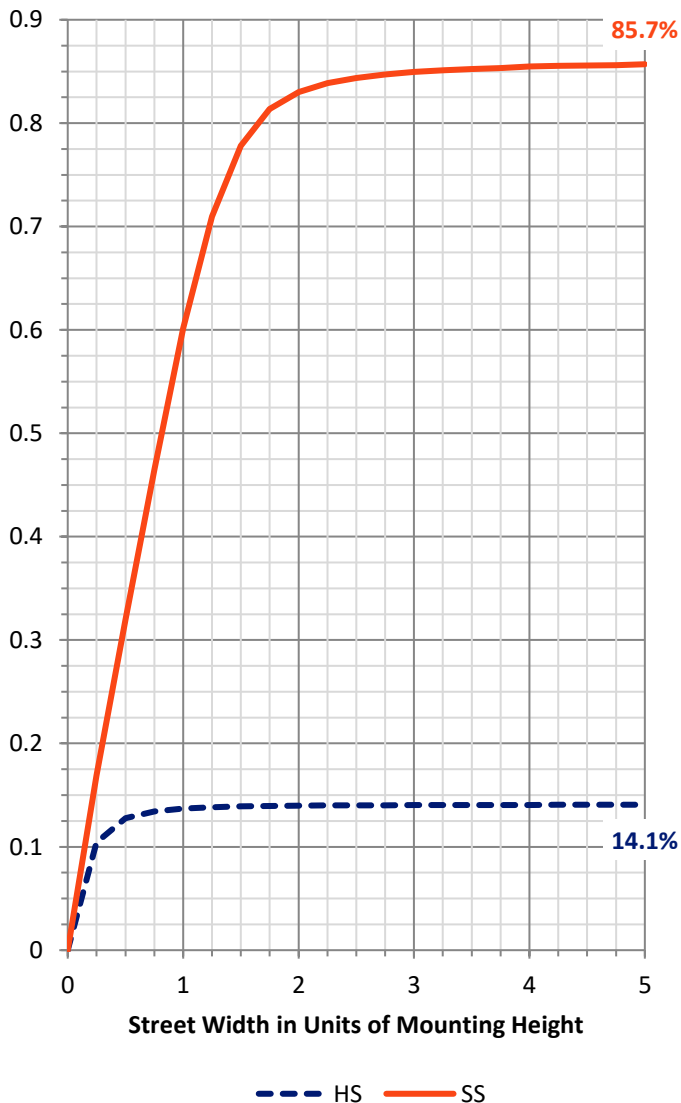
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	273.3	0.0	273.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	1650.1	0.0	1650.1
	% Fixture	85.8	0.0	85.8
Total	Lumens	1923.3	0.0	1923.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.5	1.3
10°-20°	68.6	3.6
20°-30°	113.9	5.9
30°-40°	195.9	10.2
40°-50°	352.1	18.3
50°-60°	501.3	26.1
60°-70°	457.0	23.8
70°-80°	194.6	10.1
80°-90°	14.5	0.8
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°	1923.3	100.0
0°-180°	1923.3	100.0



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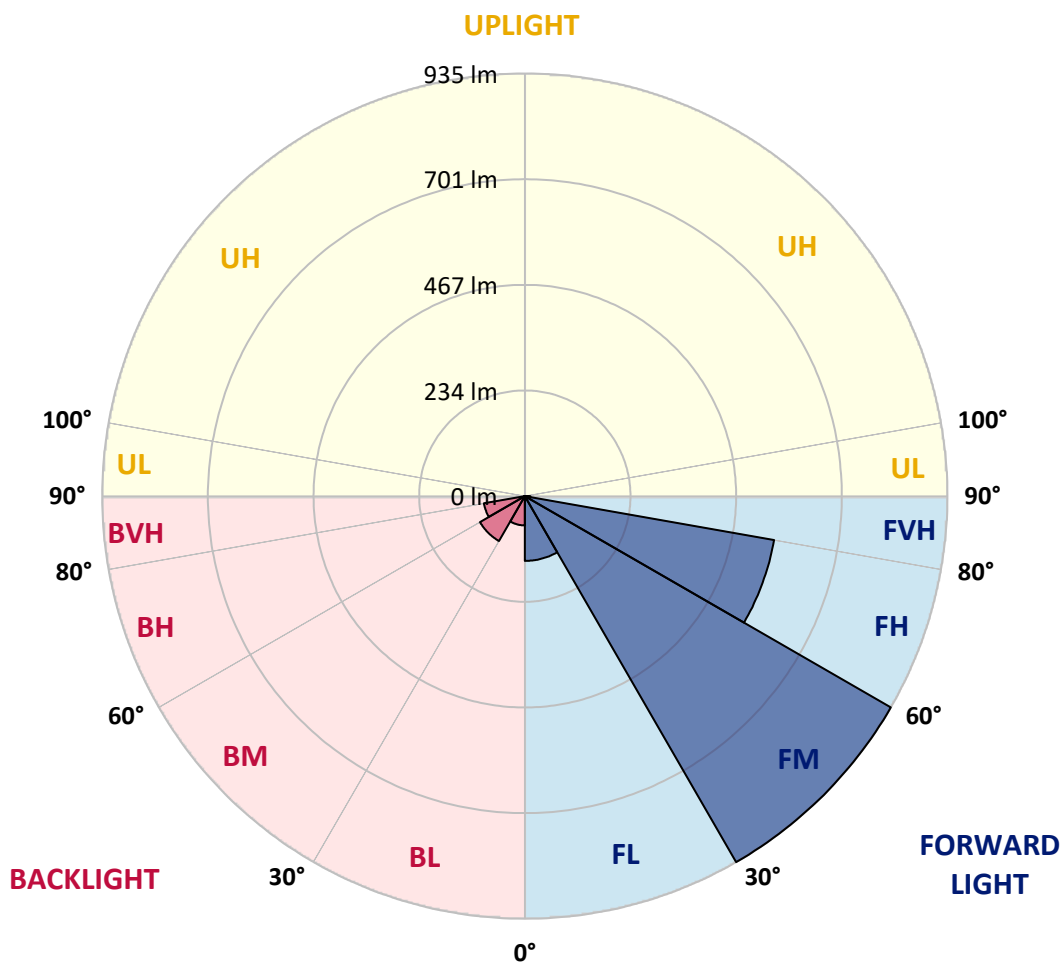
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	143.3	7.4			
FM (30°-60°)	934.7	48.6			
FH (60°-80°)	559.8	29.1			G0/660
FVH (80°-90°)	12.3	0.6			G1/100
BL (0°-30°)	64.7	3.4	B0/110		
BM (30°-60°)	114.6	6.0	B0/220		
BH (60°-80°)	91.8	4.8	B0/110		G0/110
BVH (80°-90°)	2.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	279.7	279.7	279.7	279.7	279.7	279.7	279.7	279.7	279.7	279.7	279.7
2.5°	289.8	292.5	292.5	291.6	288.8	287.0	286.1	284.3	282.4	282.4	283.3
5°	292.5	289.8	293.4	288.8	288.8	288.8	292.5	290.7	289.8	285.2	285.2
7.5°	292.5	289.8	289.8	292.5	289.8	291.6	296.2	294.4	298.0	289.8	291.6
10°	284.3	283.3	285.2	288.8	289.8	293.4	298.0	307.2	308.1	302.6	301.7
12.5°	267.8	266.8	273.3	275.1	286.1	295.3	309.0	316.4	324.6	321.9	316.4
15°	255.8	257.7	262.3	269.6	279.7	296.2	311.8	328.3	343.0	339.3	337.4
17.5°	260.4	259.5	260.4	265.0	277.8	294.4	320.9	340.2	361.3	361.3	363.1
20°	274.2	276.9	276.0	273.3	279.7	293.4	320.9	354.9	389.7	387.0	387.0
22.5°	298.0	298.9	293.4	291.6	290.7	298.9	326.4	373.2	413.6	419.1	417.2
25°	322.8	323.7	321.9	316.4	309.0	310.9	336.5	387.9	446.6	455.7	453.9
27.5°	364.0	363.1	358.5	352.1	341.1	332.9	352.1	398.9	472.2	487.8	483.3
30°	405.3	402.6	396.1	387.9	377.8	362.2	371.4	420.0	504.3	519.0	508.9
32.5°	455.7	450.2	452.1	439.2	418.1	393.4	391.6	439.2	530.0	551.1	542.9
35°	519.9	513.5	504.3	492.4	472.2	439.2	429.1	470.4	573.1	588.7	588.7
37.5°	604.3	610.7	599.7	550.2	528.2	497.0	475.9	502.5	610.7	648.3	639.1
40°	690.5	696.0	675.8	639.1	591.5	552.9	540.1	554.8	667.6	712.5	695.1
42.5°	760.2	767.5	760.2	712.5	674.9	625.4	602.5	616.2	740.9	795.0	772.1
45°	833.5	840.9	832.6	801.4	764.8	736.3	678.6	696.0	817.9	898.6	873.0
47.5°	888.6	897.7	883.1	876.6	847.3	842.7	744.6	763.8	898.6	1003.2	971.1
50°	901.4	911.5	924.3	931.7	921.6	932.6	833.5	850.0	983.0	1099.5	1068.3
52.5°	871.1	881.2	909.6	943.6	990.3	1023.4	923.4	937.2	1071.0	1179.2	1162.7
55°	782.2	791.4	849.1	895.0	1006.8	1060.9	1009.6	1067.4	1134.3	1262.7	1222.3
57.5°	632.7	643.7	719.8	790.4	951.8	1039.9	1060.9	1175.6	1238.8	1324.1	1277.4
60°	449.3	455.7	521.8	646.5	799.6	934.4	1050.9	1256.3	1321.4	1406.7	1381.9
62.5°	258.6	264.1	332.9	450.2	603.4	780.4	1005.9	1332.4	1410.3	1497.4	1483.7
65°	171.5	173.3	220.1	284.3	392.5	574.9	892.2	1400.2	1498.4	1569.9	1554.3
67.5°	112.8	122.9	159.6	203.6	251.3	318.2	727.2	1428.7	1599.2	1670.7	1667.1
70°	80.7	84.4	114.6	156.8	188.9	178.8	425.5	1227.8	1594.6	1698.3	1668.0
72.5°	47.7	51.4	76.1	117.4	148.6	113.7	199.0	868.4	1321.4	1355.3	1347.0
75°	34.8	34.8	46.8	84.4	108.2	81.6	93.5	549.3	877.6	952.7	951.8
77.5°	24.8	25.7	32.1	50.4	83.4	59.6	51.4	305.4	479.6	524.5	499.8
80°	14.7	15.6	22.0	30.3	60.5	43.1	33.9	139.4	184.3	186.1	177.0
82.5°	11.0	11.0	14.7	21.1	42.2	29.3	21.1	53.2	59.6	54.1	45.8
85°	6.4	5.5	11.0	15.6	24.8	16.5	14.7	24.8	27.5	20.2	18.3
87.5°	1.8	1.8	4.6	5.5	11.0	9.2	6.4	9.2	12.8	7.3	5.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	279.7	279.7	279.7	279.7	279.7	279.7	279.7	279.7	279.7	279.7	279.7
2.5°	281.5	278.8	274.2	272.3	265.9	263.2	261.3	256.8	257.7	254.9	254.9
5°	278.8	278.8	269.6	259.5	249.4	243.0	235.7	226.5	226.5	222.8	223.7
7.5°	288.8	281.5	269.6	251.3	234.7	220.1	213.7	204.5	199.0	196.2	196.2
10°	295.3	287.9	267.8	245.8	224.7	206.3	192.6	179.7	172.4	172.4	171.5
12.5°	312.7	301.7	275.1	244.8	213.7	186.1	165.1	150.4	140.3	133.0	134.8
15°	327.4	315.4	278.8	237.5	194.4	155.9	130.2	102.7	88.9	81.6	78.9
17.5°	350.3	328.3	287.0	224.7	165.1	122.0	84.4	61.4	55.9	55.0	55.0
20°	369.5	343.9	287.9	199.9	135.7	77.9	54.1	50.4	47.7	46.8	45.8
22.5°	396.1	364.0	284.3	171.5	97.2	52.3	45.8	42.2	40.3	37.6	37.6
25°	423.6	390.6	276.9	144.9	59.6	44.9	40.3	36.7	33.0	31.2	32.1
27.5°	453.0	410.8	255.8	112.8	45.8	39.4	33.0	30.3	28.4	27.5	27.5
30°	476.8	423.6	224.7	75.2	41.3	34.8	29.3	26.6	24.8	23.8	23.8
32.5°	494.3	434.7	189.8	50.4	37.6	31.2	26.6	23.8	22.0	21.1	21.1
35°	523.6	442.9	157.7	43.1	33.9	27.5	22.9	21.1	19.3	19.3	19.3
37.5°	568.5	453.9	125.6	39.4	31.2	24.8	22.0	19.3	18.3	17.4	17.4
40°	608.0	467.7	89.9	35.8	28.4	22.9	19.3	17.4	16.5	15.6	15.6
42.5°	664.8	483.3	58.7	32.1	25.7	21.1	17.4	15.6	14.7	13.8	13.8
45°	737.3	508.9	45.8	28.4	22.9	19.3	16.5	14.7	12.8	12.8	11.9
47.5°	814.3	540.1	41.3	26.6	21.1	17.4	14.7	12.8	11.9	11.0	11.0
50°	885.8	570.4	38.5	24.8	19.3	16.5	13.8	11.9	10.1	9.2	9.2
52.5°	950.0	598.8	36.7	22.9	18.3	14.7	11.9	10.1	9.2	8.3	8.3
55°	983.9	611.6	35.8	22.0	16.5	13.8	11.0	9.2	8.3	7.3	7.3
57.5°	1037.1	628.1	34.8	21.1	15.6	11.9	10.1	8.3	7.3	6.4	6.4
60°	1123.3	682.2	33.9	20.2	14.7	11.9	9.2	7.3	5.5	4.6	4.6
62.5°	1194.8	727.2	30.3	17.4	12.8	10.1	7.3	5.5	3.7	2.8	2.8
65°	1276.4	748.3	26.6	15.6	11.0	8.3	5.5	3.7	2.8	0.9	0.9
67.5°	1365.4	780.4	22.0	13.8	10.1	6.4	4.6	2.8	0.9	0.0	0.0
70°	1318.6	740.0	18.3	11.9	9.2	5.5	3.7	1.8	0.0	0.0	0.0
72.5°	1033.4	530.0	14.7	11.0	8.3	5.5	3.7	0.9	0.0	0.0	0.0
75°	690.5	299.9	12.8	9.2	6.4	4.6	2.8	0.9	0.0	0.0	0.0
77.5°	375.0	134.8	11.0	8.3	5.5	3.7	2.8	0.9	0.0	0.0	0.0
80°	122.0	53.2	9.2	7.3	5.5	3.7	2.8	0.9	0.0	0.0	0.0
82.5°	33.0	16.5	9.2	7.3	5.5	3.7	2.8	0.9	0.0	0.0	0.0
85°	13.8	11.0	9.2	7.3	5.5	3.7	2.8	0.9	0.0	0.0	0.0
87.5°	5.5	3.7	3.7	4.6	3.7	2.8	1.8	0.9	0.0	0.0	0.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	279.7	279.7	279.7	279.7	279.7	279.7	279.7	279.7	279.7	279.7	279.7
2.5°	255.8	257.7	258.6	258.6	263.2	267.8	273.3	277.8	277.8	280.6	283.3
5°	224.7	226.5	229.2	237.5	246.7	256.8	266.8	274.2	284.3	288.8	291.6
7.5°	199.0	200.8	208.2	216.4	229.2	246.7	264.1	280.6	290.7	295.3	298.9
10°	172.4	175.1	183.4	198.1	214.6	235.7	255.8	284.3	300.8	309.9	313.6
12.5°	133.9	141.2	152.2	167.8	188.9	221.0	258.6	287.9	316.4	327.4	334.7
15°	84.4	90.8	108.2	133.0	161.4	199.0	251.3	293.4	332.9	343.9	355.8
17.5°	54.1	55.0	60.5	87.1	123.8	171.5	240.2	301.7	351.2	366.8	385.1
20°	45.8	47.7	48.6	52.3	82.5	141.2	217.3	311.8	373.2	394.3	411.7
22.5°	38.5	39.4	41.3	44.0	49.5	102.7	186.1	311.8	392.5	423.6	443.8
25°	31.2	33.0	34.8	37.6	43.1	64.2	154.1	306.3	415.4	453.9	479.6
27.5°	27.5	27.5	29.3	32.1	36.7	44.9	122.0	289.8	432.8	472.2	506.2
30°	23.8	24.8	25.7	28.4	33.0	39.4	84.4	263.2	451.2	508.0	546.5
32.5°	21.1	21.1	22.9	24.8	29.3	35.8	54.1	222.8	475.0	535.5	589.6
35°	19.3	19.3	20.2	22.0	26.6	32.1	42.2	188.9	503.4	587.8	647.4
37.5°	17.4	17.4	18.3	20.2	23.8	28.4	38.5	162.3	532.8	640.1	727.2
40°	15.6	15.6	16.5	18.3	21.1	25.7	34.8	131.1	569.4	717.1	814.3
42.5°	13.8	13.8	14.7	16.5	19.3	22.9	30.3	98.1	618.0	800.5	927.1
45°	11.9	11.9	12.8	14.7	16.5	21.1	27.5	75.2	671.2	893.1	1026.1
47.5°	10.1	11.0	11.9	13.8	15.6	19.3	24.8	66.0	723.5	991.3	1136.1
50°	9.2	9.2	10.1	11.9	14.7	17.4	22.9	65.1	776.7	1066.5	1248.9
52.5°	8.3	8.3	9.2	11.0	13.8	16.5	22.0	66.9	820.7	1136.1	1327.8
55°	7.3	7.3	8.3	9.2	11.9	15.6	20.2	68.8	851.9	1206.8	1391.1
57.5°	6.4	6.4	7.3	9.2	11.0	13.8	18.3	70.6	902.3	1276.4	1482.8
60°	4.6	4.6	6.4	8.3	10.1	11.9	17.4	72.4	983.0	1372.7	1560.7
62.5°	2.8	2.8	3.7	6.4	8.3	11.0	15.6	68.8	1058.2	1496.5	1679.9
65°	0.9	1.8	2.8	3.7	6.4	9.2	12.8	62.4	1121.5	1620.3	1790.0
67.5°	0.0	0.0	0.9	2.8	5.5	7.3	11.0	45.8	1131.6	1676.2	1902.7
70°	0.0	0.0	0.9	2.8	4.6	7.3	10.1	25.7	963.7	1497.4	1744.1
72.5°	0.0	0.0	0.0	1.8	4.6	6.4	9.2	19.3	710.7	1128.8	1378.2
75°	0.0	0.0	0.0	0.9	3.7	5.5	8.3	14.7	431.9	752.8	899.6
77.5°	0.0	0.0	0.0	0.9	2.8	5.5	8.3	12.8	152.2	358.5	422.7
80°	0.0	0.0	0.0	1.8	3.7	5.5	7.3	11.0	36.7	89.9	121.0
82.5°	0.0	0.0	0.0	0.9	2.8	4.6	6.4	9.2	14.7	26.6	42.2
85°	0.0	0.0	0.0	0.9	1.8	4.6	6.4	8.3	10.1	12.8	18.3
87.5°	0.0	0.0	0.0	0.0	0.9	1.8	2.8	3.7	3.7	3.7	6.4
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):

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	279.7	279.7	279.7	279.7	279.7	279.7	279.7	279.7	279.7	279.7
2.5°	282.4	286.1	287.9	291.6	293.4	292.5	291.6	294.4	292.5	289.8
5°	292.5	292.5	295.3	296.2	296.2	293.4	295.3	294.4	292.5	292.5
7.5°	303.5	308.1	308.1	302.6	301.7	299.9	299.9	292.5	289.8	292.5
10°	314.5	318.2	319.1	312.7	304.4	300.8	296.2	287.0	282.4	284.3
12.5°	337.4	337.4	327.4	320.0	309.0	296.2	285.2	272.3	265.9	267.8
15°	354.0	357.6	343.9	327.4	308.1	284.3	272.3	262.3	258.6	255.8
17.5°	386.1	378.7	356.7	332.9	305.4	280.6	272.3	263.2	260.4	260.4
20°	413.6	409.9	376.9	333.8	304.4	287.9	282.4	277.8	276.9	274.2
22.5°	451.2	434.7	392.5	343.9	314.5	299.9	298.0	302.6	299.9	298.0
25°	479.6	465.8	404.4	358.5	330.1	325.5	328.3	332.9	325.5	322.8
27.5°	518.1	492.4	427.3	377.8	351.2	355.8	365.0	365.9	361.3	364.0
30°	553.9	526.3	444.7	399.8	387.0	391.6	405.3	415.4	409.0	405.3
32.5°	605.2	563.0	479.6	436.5	431.9	443.8	459.4	465.8	457.6	455.7
35°	659.3	605.2	515.3	477.7	486.0	502.5	516.3	527.3	514.4	519.9
37.5°	743.7	673.1	575.9	542.9	546.5	552.9	578.6	608.9	615.3	604.3
40°	831.7	746.4	631.8	606.1	614.4	631.8	662.1	690.5	705.2	690.5
42.5°	933.5	817.0	718.0	687.7	696.0	720.7	761.1	784.0	782.2	760.2
45°	1059.1	915.1	798.7	761.1	791.4	813.4	853.7	856.5	839.0	833.5
47.5°	1155.4	997.7	885.8	862.0	903.2	904.1	913.3	914.2	895.0	888.6
50°	1261.8	1093.0	983.0	948.2	1017.9	985.8	961.0	944.5	915.1	901.4
52.5°	1366.3	1160.9	1072.9	1037.1	1109.5	1024.3	979.3	928.9	885.8	871.1
55°	1422.2	1272.8	1204.0	1120.6	1129.7	1035.3	922.5	859.2	785.9	782.2
57.5°	1488.3	1348.0	1315.0	1177.4	1095.8	958.2	804.2	720.7	641.9	632.7
60°	1566.2	1467.2	1432.3	1168.2	975.7	805.1	637.3	530.0	455.7	449.3
62.5°	1653.3	1608.4	1504.8	1078.4	774.9	566.7	420.9	331.0	262.3	258.6
65°	1790.9	1726.7	1543.3	907.8	512.6	363.1	279.7	214.6	173.3	171.5
67.5°	1877.1	1771.6	1457.1	647.4	284.3	240.2	196.2	155.9	120.1	112.8
70°	1755.1	1625.8	1152.6	370.5	165.1	182.5	151.3	104.5	82.5	80.7
72.5°	1402.1	1206.8	775.8	174.2	102.7	143.0	110.0	70.6	49.5	47.7
75°	956.4	759.3	486.9	80.7	72.4	104.5	80.7	41.3	34.8	34.8
77.5°	427.3	387.0	249.4	49.5	54.1	79.8	46.8	28.4	25.7	24.8
80°	130.2	136.6	101.8	33.9	40.3	60.5	28.4	19.3	15.6	14.7
82.5°	44.0	51.4	45.8	20.2	27.5	43.1	19.3	12.8	11.0	11.0
85°	21.1	25.7	22.9	12.8	14.7	21.1	15.6	10.1	6.4	6.4
87.5°	8.3	11.9	8.3	5.5	8.3	11.0	6.4	4.6	1.8	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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