

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: P676231

Luminaire Tested: **CCW-SA-1B-722-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676231
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-722-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
T2 distribution lens and House Side Shield
Light Source: (16) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

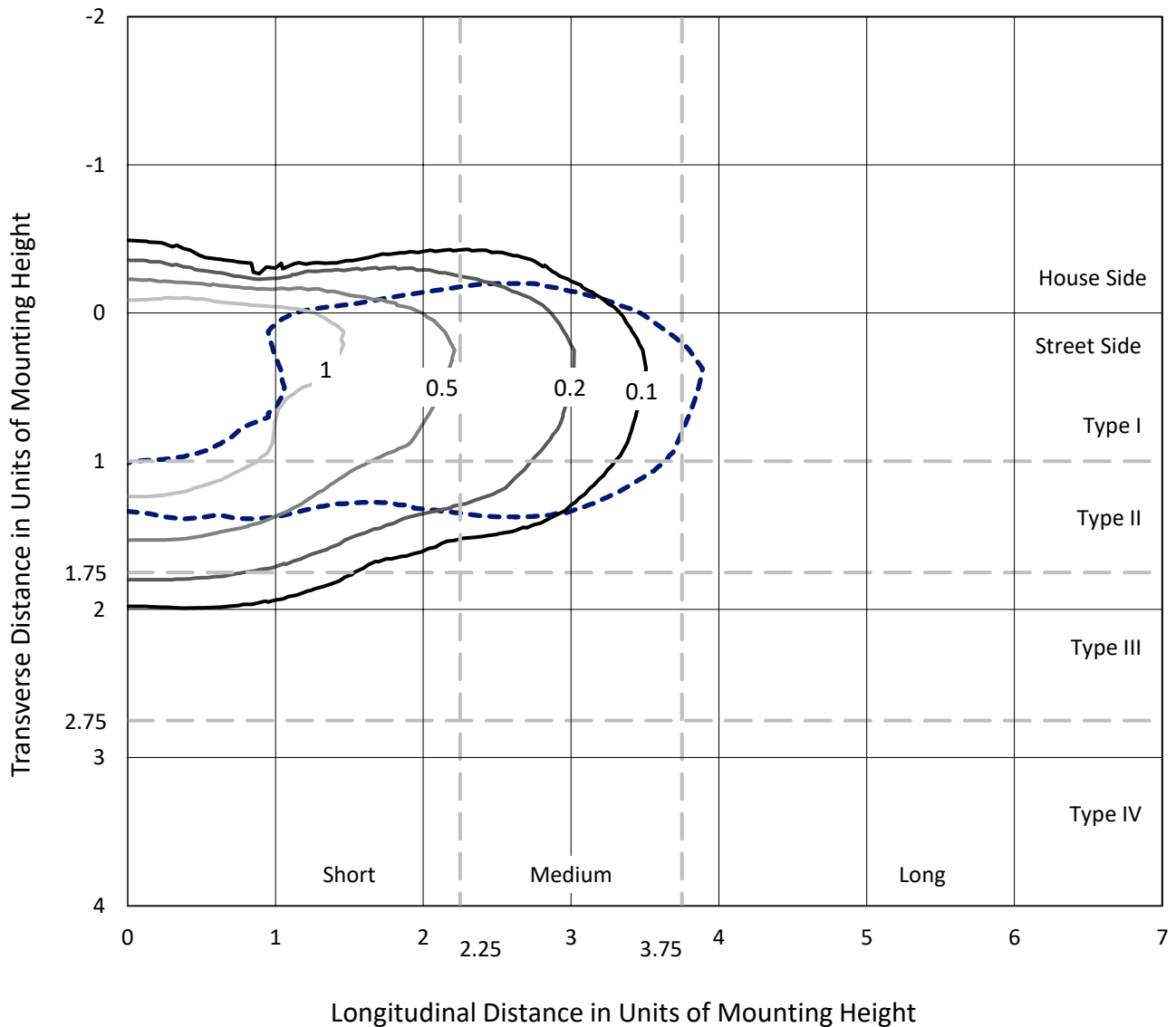
Lumens per Lamp: N/A
Luminaire Lumens: 1964 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 24
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

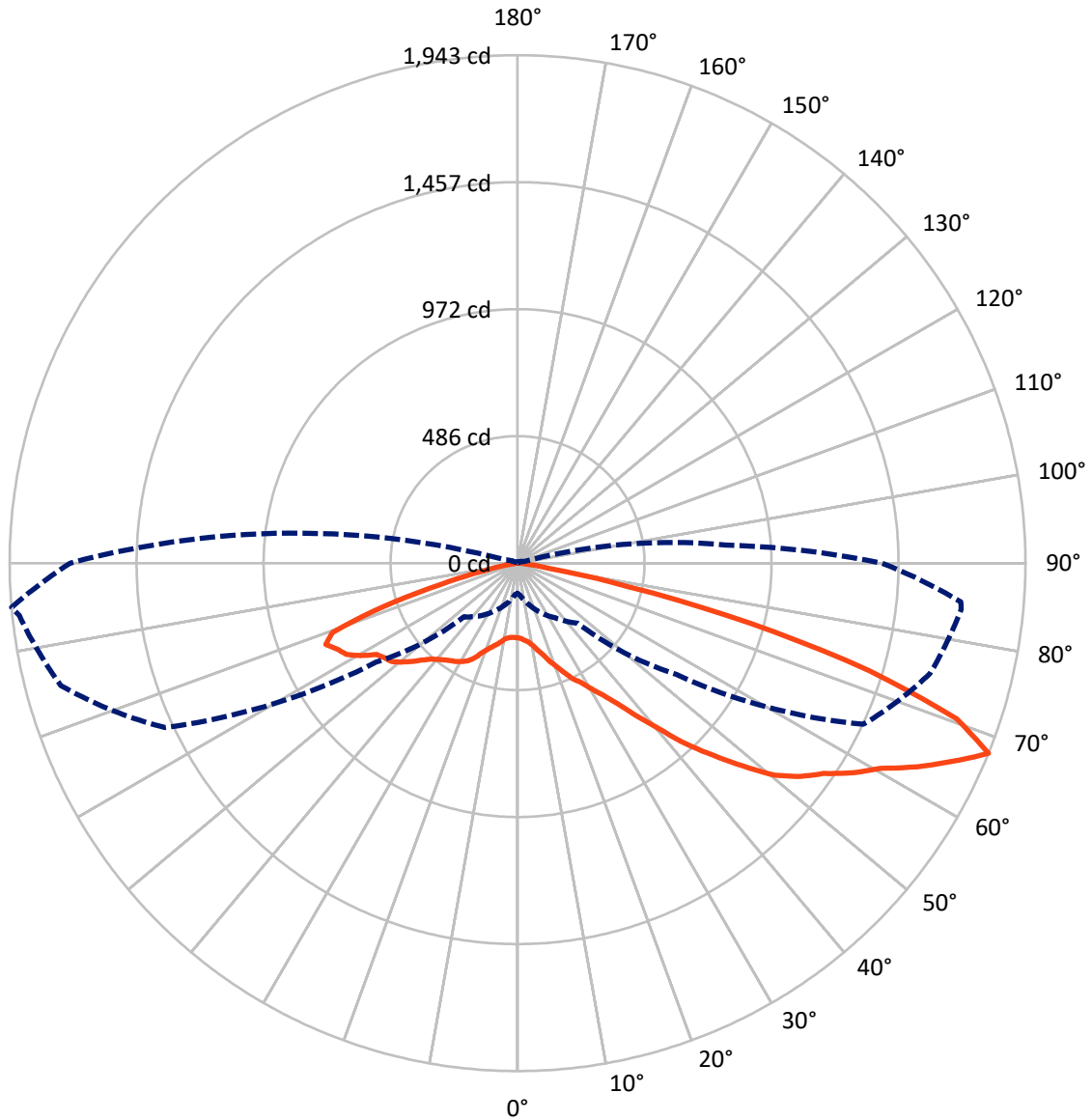
× Max cd
 - - - 1/2 Max cd



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	279.0	0.0	279.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	1685.0	0.0	1685.0
	% Fixture	85.8	0.0	85.8
Total	Lumens	1964.0	0.0	1964.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.0	1.3
10°-20°	70.0	3.6
20°-30°	116.3	5.9
30°-40°	200.1	10.2
40°-50°	359.6	18.3
50°-60°	511.9	26.1
60°-70°	466.6	23.8
70°-80°	198.7	10.1
80°-90°	14.8	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°	1964.0	100.0
0°-180°	1964.0	100.0



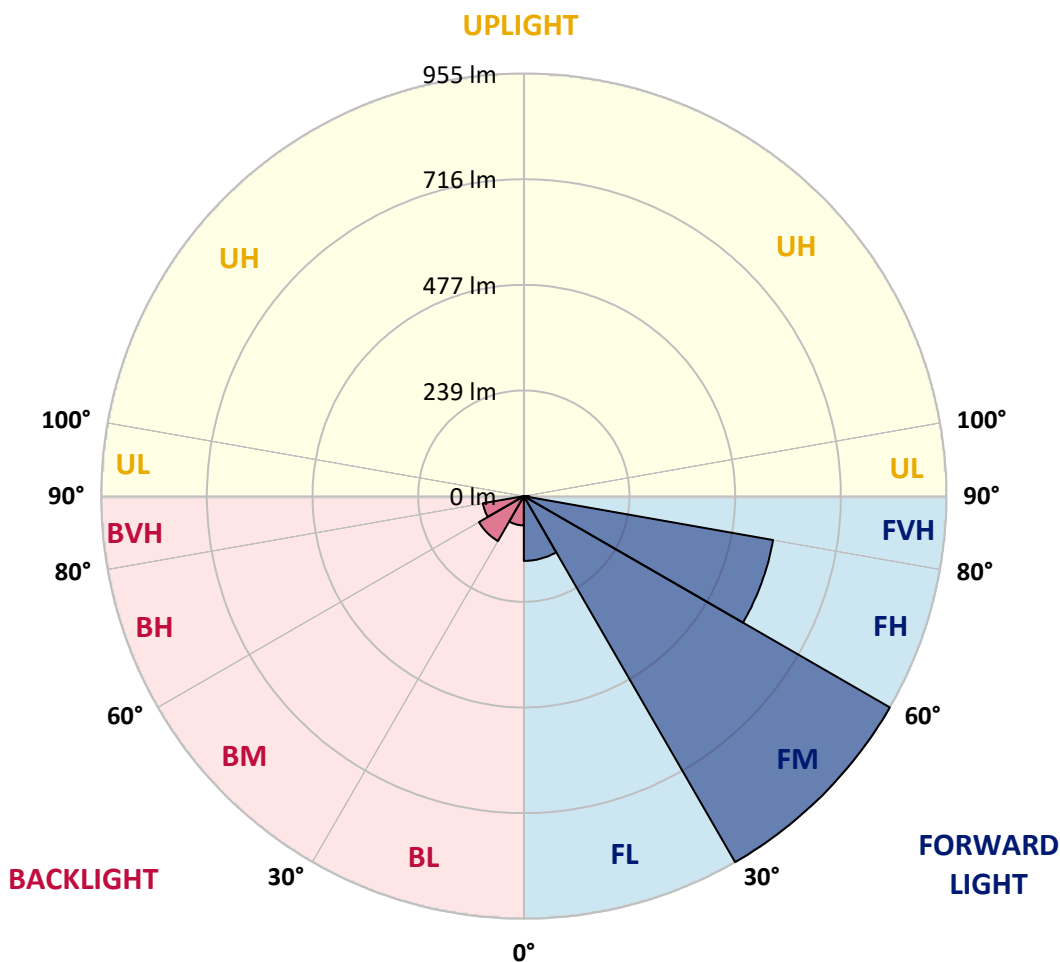
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	146.3	7.4			
FM (30°-60°)	954.5	48.6			
FH (60°-80°)	571.6	29.1			G0/660
FVH (80°-90°)	12.6	0.6			G1/100
BL (0°-30°)	66.1	3.4	B0/110		
BM (30°-60°)	117.0	6.0	B0/220		
BH (60°-80°)	93.7	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°	285.6	285.6	285.6	285.6	285.6	285.6	285.6	285.6	285.6	285.6	285.6
2.5°	295.9	298.7	298.7	297.8	295.0	293.1	292.1	290.3	288.4	288.4	289.3
5°	298.7	295.9	299.6	295.0	295.0	295.0	298.7	296.8	295.9	291.2	291.2
7.5°	298.7	295.9	295.9	298.7	295.9	297.8	302.5	300.6	304.3	295.9	297.8
10°	290.3	289.3	291.2	295.0	295.9	299.6	304.3	313.7	314.6	309.0	308.1
12.5°	273.4	272.5	279.0	280.9	292.1	301.5	315.6	323.1	331.5	328.7	323.1
15°	261.2	263.1	267.8	275.3	285.6	302.5	318.4	335.2	350.2	346.5	344.6
17.5°	265.9	265.0	265.9	270.6	283.7	300.6	327.7	347.4	368.9	368.9	370.8
20°	280.0	282.8	281.8	279.0	285.6	299.6	327.7	362.4	398.0	395.2	395.2
22.5°	304.3	305.3	299.6	297.8	296.8	305.3	333.4	381.1	422.3	427.9	426.1
25°	329.6	330.5	328.7	323.1	315.6	317.4	343.7	396.1	456.0	465.4	463.5
27.5°	371.7	370.8	366.1	359.6	348.3	339.9	359.6	407.3	482.2	498.2	493.5
30°	413.9	411.1	404.5	396.1	385.8	369.9	379.2	428.9	515.0	530.0	519.7
32.5°	465.4	459.8	461.6	448.5	427.0	401.7	399.8	448.5	541.2	562.8	554.3
35°	530.9	524.4	515.0	502.8	482.2	448.5	438.2	480.4	585.2	601.2	601.2
37.5°	617.1	623.6	612.4	561.8	539.4	507.5	486.0	513.1	623.6	662.0	652.7
40°	705.1	710.7	690.1	652.7	604.0	564.6	551.5	566.5	681.7	727.6	709.8
42.5°	776.3	783.7	776.3	727.6	689.2	638.6	615.2	629.2	756.6	811.8	788.4
45°	851.2	858.7	850.2	818.4	780.9	751.9	692.9	710.7	835.2	917.7	891.4
47.5°	907.4	916.7	901.7	895.2	865.2	860.5	760.3	780.0	917.7	1024.4	991.6
50°	920.5	930.8	943.9	951.4	941.1	952.3	851.2	868.0	1003.8	1122.7	1090.9
52.5°	889.6	899.9	928.9	963.5	1011.3	1045.0	942.9	957.0	1093.7	1204.2	1187.3
55°	798.7	808.1	867.1	913.9	1028.1	1083.4	1031.0	1089.9	1158.3	1289.4	1248.2
57.5°	646.1	657.3	735.1	807.2	972.0	1061.9	1083.4	1200.4	1265.0	1352.1	1304.4
60°	458.8	465.4	532.8	660.1	816.5	954.2	1073.1	1282.8	1349.3	1436.4	1411.1
62.5°	264.1	269.7	339.9	459.8	616.1	796.9	1027.2	1360.6	1440.1	1529.1	1515.1
65°	175.1	177.0	224.7	290.3	400.8	587.1	911.1	1429.8	1530.0	1603.1	1587.2
67.5°	115.2	125.5	162.9	207.9	256.6	324.9	742.5	1458.9	1633.0	1706.1	1702.3
70°	82.4	86.1	117.0	160.1	192.9	182.6	434.5	1253.8	1628.4	1734.2	1703.3
72.5°	48.7	52.4	77.7	119.9	151.7	116.1	203.2	886.8	1349.3	1384.0	1375.5
75°	35.6	35.6	47.8	86.1	110.5	83.3	95.5	560.9	896.1	972.9	972.0
77.5°	25.3	26.2	32.8	51.5	85.2	60.9	52.4	311.8	489.7	535.6	510.3
80°	15.0	15.9	22.5	30.9	61.8	44.0	34.6	142.3	188.2	190.1	180.7
82.5°	11.2	11.2	15.0	21.5	43.1	30.0	21.5	54.3	60.9	55.2	46.8
85°	6.6	5.6	11.2	15.9	25.3	16.9	15.0	25.3	28.1	20.6	18.7
87.5°	1.9	1.9	4.7	5.6	11.2	9.4	6.6	9.4	13.1	7.5	5.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	285.6	285.6	285.6	285.6	285.6	285.6	285.6	285.6	285.6	285.6	285.6
2.5°	287.5	284.7	280.0	278.1	271.5	268.7	266.9	262.2	263.1	260.3	260.3
5°	284.7	284.7	275.3	265.0	254.7	248.1	240.6	231.3	231.3	227.5	228.5
7.5°	295.0	287.5	275.3	256.6	239.7	224.7	218.2	208.8	203.2	200.4	200.4
10°	301.5	294.0	273.4	250.9	229.4	210.7	196.6	183.5	176.0	176.0	175.1
12.5°	319.3	308.1	280.9	250.0	218.2	190.1	168.5	153.6	143.3	135.8	137.6
15°	334.3	322.1	284.7	242.5	198.5	159.2	133.0	104.9	90.8	83.3	80.5
17.5°	357.7	335.2	293.1	229.4	168.5	124.5	86.1	62.7	57.1	56.2	56.2
20°	377.4	351.1	294.0	204.1	138.6	79.6	55.2	51.5	48.7	47.8	46.8
22.5°	404.5	371.7	290.3	175.1	99.3	53.4	46.8	43.1	41.2	38.4	38.4
25°	432.6	398.9	282.8	147.9	60.9	45.9	41.2	37.5	33.7	31.8	32.8
27.5°	462.6	419.5	261.2	115.2	46.8	40.3	33.7	30.9	29.0	28.1	28.1
30°	486.9	432.6	229.4	76.8	42.1	35.6	30.0	27.2	25.3	24.3	24.3
32.5°	504.7	443.8	193.8	51.5	38.4	31.8	27.2	24.3	22.5	21.5	21.5
35°	534.7	452.3	161.1	44.0	34.6	28.1	23.4	21.5	19.7	19.7	19.7
37.5°	580.6	463.5	128.3	40.3	31.8	25.3	22.5	19.7	18.7	17.8	17.8
40°	620.8	477.6	91.8	36.5	29.0	23.4	19.7	17.8	16.9	15.9	15.9
42.5°	678.9	493.5	59.9	32.8	26.2	21.5	17.8	15.9	15.0	14.0	14.0
45°	752.8	519.7	46.8	29.0	23.4	19.7	16.9	15.0	13.1	13.1	12.2
47.5°	831.5	551.5	42.1	27.2	21.5	17.8	15.0	13.1	12.2	11.2	11.2
50°	904.5	582.4	39.3	25.3	19.7	16.9	14.0	12.2	10.3	9.4	9.4
52.5°	970.1	611.5	37.5	23.4	18.7	15.0	12.2	10.3	9.4	8.4	8.4
55°	1004.7	624.6	36.5	22.5	16.9	14.0	11.2	9.4	8.4	7.5	7.5
57.5°	1059.0	641.4	35.6	21.5	15.9	12.2	10.3	8.4	7.5	6.6	6.6
60°	1147.1	696.7	34.6	20.6	15.0	12.2	9.4	7.5	5.6	4.7	4.7
62.5°	1220.1	742.5	30.9	17.8	13.1	10.3	7.5	5.6	3.7	2.8	2.8
65°	1303.4	764.1	27.2	15.9	11.2	8.4	5.6	3.7	2.8	0.9	0.9
67.5°	1394.3	796.9	22.5	14.0	10.3	6.6	4.7	2.8	0.9	0.0	0.0
70°	1346.5	755.7	18.7	12.2	9.4	5.6	3.7	1.9	0.0	0.0	0.0
72.5°	1055.3	541.2	15.0	11.2	8.4	5.6	3.7	0.9	0.0	0.0	0.0
75°	705.1	306.2	13.1	9.4	6.6	4.7	2.8	0.9	0.0	0.0	0.0
77.5°	383.0	137.6	11.2	8.4	5.6	3.7	2.8	0.9	0.0	0.0	0.0
80°	124.5	54.3	9.4	7.5	5.6	3.7	2.8	0.9	0.0	0.0	0.0
82.5°	33.7	16.9	9.4	7.5	5.6	3.7	2.8	0.9	0.0	0.0	0.0
85°	14.0	11.2	9.4	7.5	5.6	3.7	2.8	0.9	0.0	0.0	0.0
87.5°	5.6	3.7	3.7	4.7	3.7	2.8	1.9	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°	285.6	285.6	285.6	285.6	285.6	285.6	285.6	285.6	285.6	285.6	285.6
2.5°	261.2	263.1	264.1	264.1	268.7	273.4	279.0	283.7	283.7	286.5	289.3
5°	229.4	231.3	234.1	242.5	251.9	262.2	272.5	280.0	290.3	295.0	297.8
7.5°	203.2	205.1	212.6	221.0	234.1	251.9	269.7	286.5	296.8	301.5	305.3
10°	176.0	178.8	187.3	202.3	219.1	240.6	261.2	290.3	307.1	316.5	320.2
12.5°	136.7	144.2	155.4	171.4	192.9	225.7	264.1	294.0	323.1	334.3	341.8
15°	86.1	92.7	110.5	135.8	164.8	203.2	256.6	299.6	339.9	351.1	363.3
17.5°	55.2	56.2	61.8	89.0	126.4	175.1	245.3	308.1	358.6	374.6	393.3
20°	46.8	48.7	49.6	53.4	84.3	144.2	221.9	318.4	381.1	402.6	420.4
22.5°	39.3	40.3	42.1	44.9	50.6	104.9	190.1	318.4	400.8	432.6	453.2
25°	31.8	33.7	35.6	38.4	44.0	65.5	157.3	312.8	424.2	463.5	489.7
27.5°	28.1	28.1	30.0	32.8	37.5	45.9	124.5	295.9	442.0	482.2	516.9
30°	24.3	25.3	26.2	29.0	33.7	40.3	86.1	268.7	460.7	518.8	558.1
32.5°	21.5	21.5	23.4	25.3	30.0	36.5	55.2	227.5	485.0	546.8	602.1
35°	19.7	19.7	20.6	22.5	27.2	32.8	43.1	192.9	514.1	600.2	661.1
37.5°	17.8	17.8	18.7	20.6	24.3	29.0	39.3	165.7	544.0	653.6	742.5
40°	15.9	15.9	16.9	18.7	21.5	26.2	35.6	133.9	581.5	732.2	831.5
42.5°	14.0	14.0	15.0	16.9	19.7	23.4	30.9	100.2	631.1	817.5	946.7
45°	12.2	12.2	13.1	15.0	16.9	21.5	28.1	76.8	685.4	912.0	1047.8
47.5°	10.3	11.2	12.2	14.0	15.9	19.7	25.3	67.4	738.8	1012.2	1160.2
50°	9.4	9.4	10.3	12.2	15.0	17.8	23.4	66.5	793.1	1089.0	1275.3
52.5°	8.4	8.4	9.4	11.2	14.0	16.9	22.5	68.4	838.1	1160.2	1355.9
55°	7.5	7.5	8.4	9.4	12.2	15.9	20.6	70.2	869.9	1232.3	1420.5
57.5°	6.6	6.6	7.5	9.4	11.2	14.0	18.7	72.1	921.4	1303.4	1514.1
60°	4.7	4.7	6.6	8.4	10.3	12.2	17.8	74.0	1003.8	1401.8	1593.7
62.5°	2.8	2.8	3.7	6.6	8.4	11.2	15.9	70.2	1080.6	1528.2	1715.4
65°	0.9	1.9	2.8	3.7	6.6	9.4	13.1	63.7	1145.2	1654.6	1827.8
67.5°	0.0	0.0	0.9	2.8	5.6	7.5	11.2	46.8	1155.5	1711.7	1943.0
70°	0.0	0.0	0.9	2.8	4.7	7.5	10.3	26.2	984.1	1529.1	1781.0
72.5°	0.0	0.0	0.0	1.9	4.7	6.6	9.4	19.7	725.7	1152.7	1407.4
75°	0.0	0.0	0.0	0.9	3.7	5.6	8.4	15.0	441.0	768.8	918.6
77.5°	0.0	0.0	0.0	0.9	2.8	5.6	8.4	13.1	155.4	366.1	431.7
80°	0.0	0.0	0.0	1.9	3.7	5.6	7.5	11.2	37.5	91.8	123.6
82.5°	0.0	0.0	0.0	0.9	2.8	4.7	6.6	9.4	15.0	27.2	43.1
85°	0.0	0.0	0.0	0.9	1.9	4.7	6.6	8.4	10.3	13.1	18.7
87.5°	0.0	0.0	0.0	0.0	0.9	1.9	2.8	3.7	3.7	3.7	6.6
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):

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	285.6	285.6	285.6	285.6	285.6	285.6	285.6	285.6	285.6	285.6
2.5°	288.4	292.1	294.0	297.8	299.6	298.7	297.8	300.6	298.7	295.9
5°	298.7	298.7	301.5	302.5	302.5	299.6	301.5	300.6	298.7	298.7
7.5°	309.9	314.6	314.6	309.0	308.1	306.2	306.2	298.7	295.9	298.7
10°	321.2	324.9	325.9	319.3	310.9	307.1	302.5	293.1	288.4	290.3
12.5°	344.6	344.6	334.3	326.8	315.6	302.5	291.2	278.1	271.5	273.4
15°	361.4	365.2	351.1	334.3	314.6	290.3	278.1	267.8	264.1	261.2
17.5°	394.2	386.7	364.3	339.9	311.8	286.5	278.1	268.7	265.9	265.9
20°	422.3	418.6	384.9	340.8	310.9	294.0	288.4	283.7	282.8	280.0
22.5°	460.7	443.8	400.8	351.1	321.2	306.2	304.3	309.0	306.2	304.3
25°	489.7	475.7	412.9	366.1	337.1	332.4	335.2	339.9	332.4	329.6
27.5°	529.1	502.8	436.4	385.8	358.6	363.3	372.7	373.6	368.9	371.7
30°	565.6	537.5	454.1	408.3	395.2	399.8	413.9	424.2	417.6	413.9
32.5°	618.0	574.9	489.7	445.7	441.0	453.2	469.1	475.7	467.3	465.4
35°	673.3	618.0	526.2	487.9	496.3	513.1	527.2	538.4	525.3	530.9
37.5°	759.4	687.3	588.0	554.3	558.1	564.6	590.9	621.8	628.3	617.1
40°	849.3	762.2	645.2	618.9	627.4	645.2	676.1	705.1	720.1	705.1
42.5°	953.2	834.3	733.2	702.3	710.7	736.0	777.2	800.6	798.7	776.3
45°	1081.5	934.5	815.6	777.2	808.1	830.6	871.8	874.6	856.8	851.2
47.5°	1179.8	1018.8	904.5	880.2	922.3	923.3	932.6	933.6	913.9	907.4
50°	1288.5	1116.2	1003.8	968.2	1039.4	1006.6	981.3	964.5	934.5	920.5
52.5°	1395.2	1185.5	1095.6	1059.0	1133.0	1045.9	1000.1	948.6	904.5	889.6
55°	1452.3	1299.7	1229.5	1144.3	1153.6	1057.2	942.0	877.4	802.5	798.7
57.5°	1519.7	1376.5	1342.8	1202.3	1119.0	978.5	821.2	736.0	655.5	646.1
60°	1599.3	1498.2	1462.6	1192.9	996.3	822.1	650.8	541.2	465.4	458.8
62.5°	1688.3	1642.4	1536.6	1101.2	791.2	578.7	429.8	338.0	267.8	264.1
65°	1828.7	1763.2	1575.9	927.0	523.4	370.8	285.6	219.1	177.0	175.1
67.5°	1916.8	1809.1	1487.9	661.1	290.3	245.3	200.4	159.2	122.7	115.2
70°	1792.2	1660.2	1177.0	378.3	168.5	186.3	154.5	106.7	84.3	82.4
72.5°	1431.7	1232.3	792.2	177.9	104.9	146.1	112.4	72.1	50.6	48.7
75°	976.6	775.3	497.2	82.4	74.0	106.7	82.4	42.1	35.6	35.6
77.5°	436.4	395.2	254.7	50.6	55.2	81.5	47.8	29.0	26.2	25.3
80°	133.0	139.5	103.9	34.6	41.2	61.8	29.0	19.7	15.9	15.0
82.5°	44.9	52.4	46.8	20.6	28.1	44.0	19.7	13.1	11.2	11.2
85°	21.5	26.2	23.4	13.1	15.0	21.5	15.9	10.3	6.6	6.6
87.5°	8.4	12.2	8.4	5.6	8.4	11.2	6.6	4.7	1.9	1.9
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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