

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: P677492

Luminaire Tested: **CCW-SA-1A-840-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677492
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-840-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
SLR distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

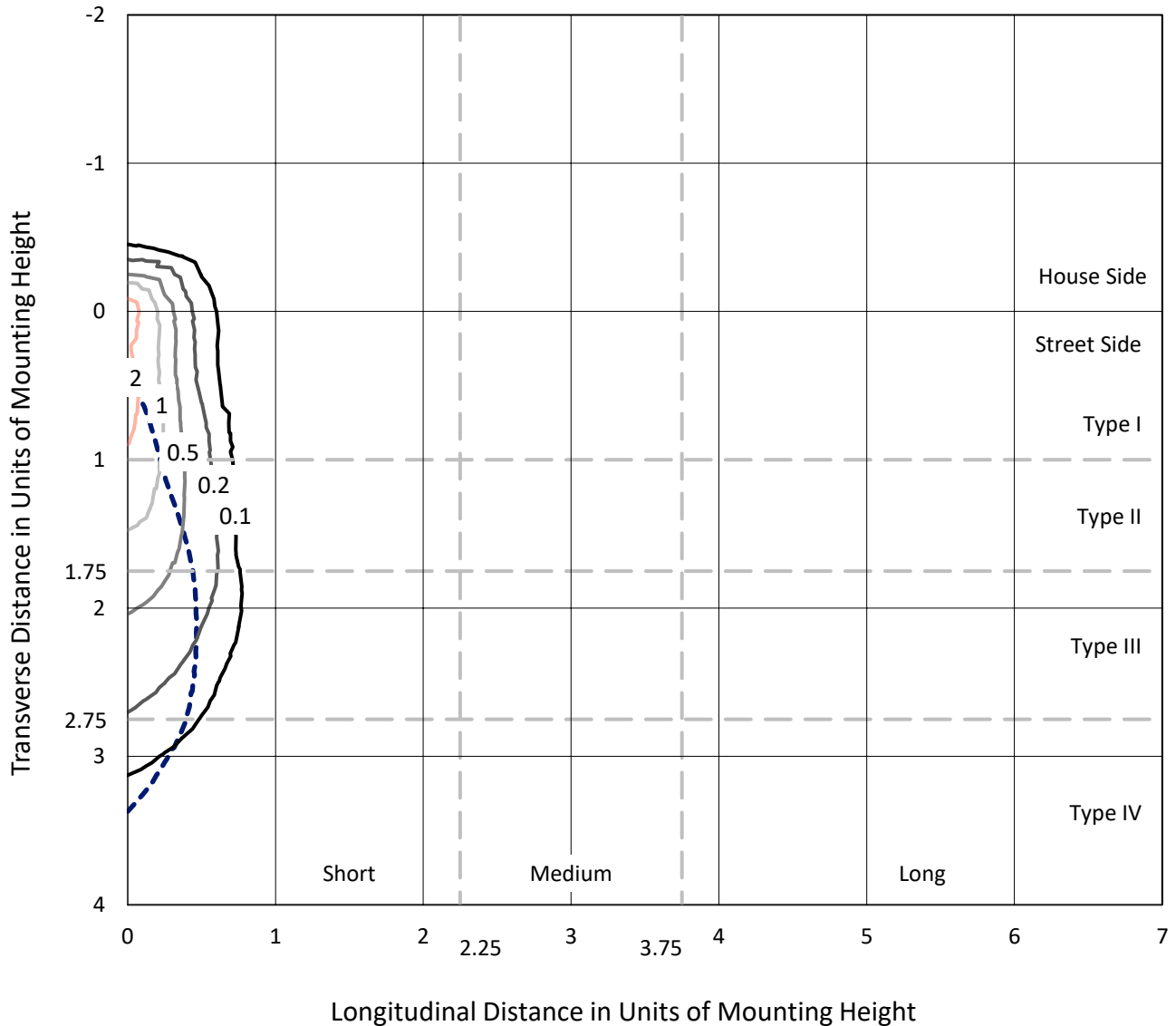
Lumens per Lamp: N/A
Luminaire Lumens: 1676.3 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

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

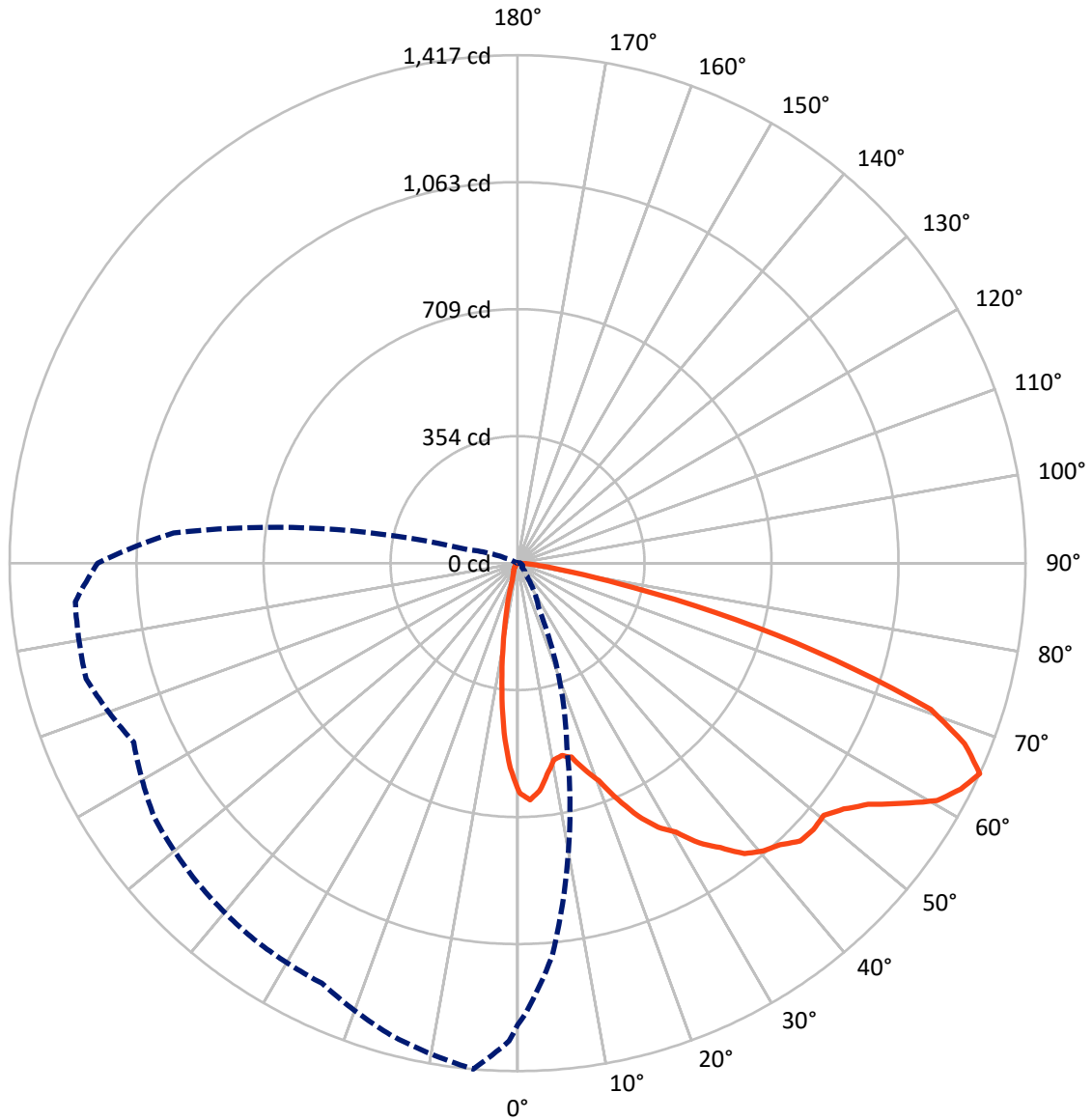
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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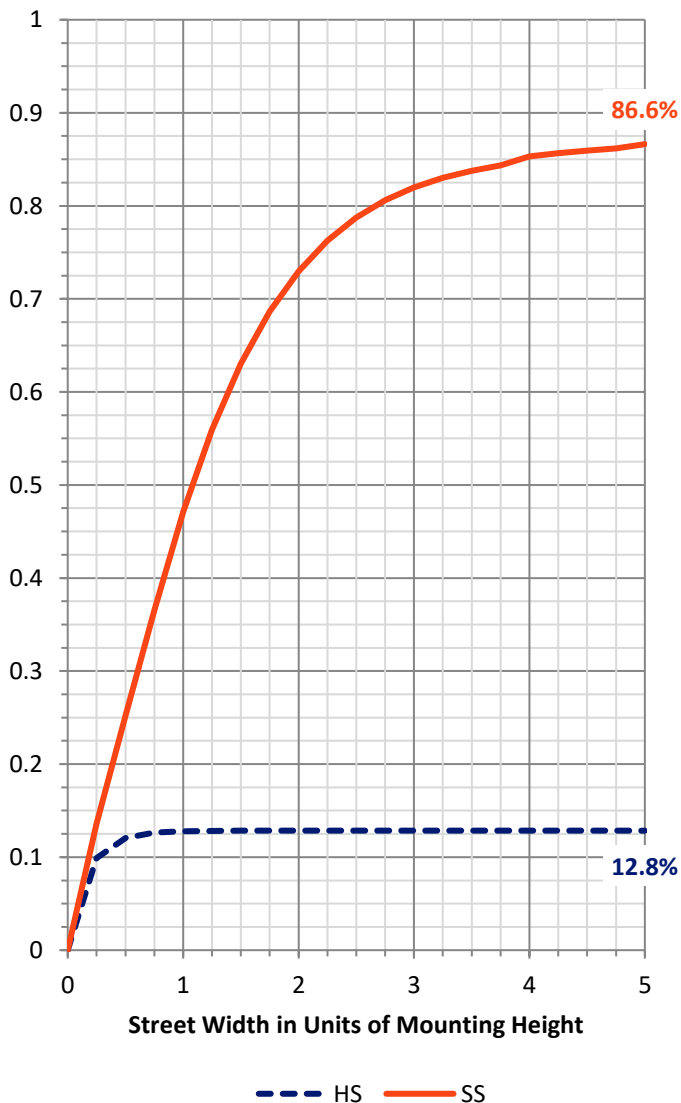
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	217.6	0.0	217.6
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	1458.6	0.0	1458.6
	% Fixture	87.0	0.0	87.0
Total	Lumens	1676.3	0.0	1676.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.5	2.9
10°-20°	94.0	5.6
20°-30°	130.9	7.8
30°-40°	186.0	11.1
40°-50°	258.0	15.4
50°-60°	351.5	21.0
60°-70°	386.4	23.1
70°-80°	189.9	11.3
80°-90°	31.0	1.9
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°	1676.3	100.0
0°-180°	1676.3	100.0



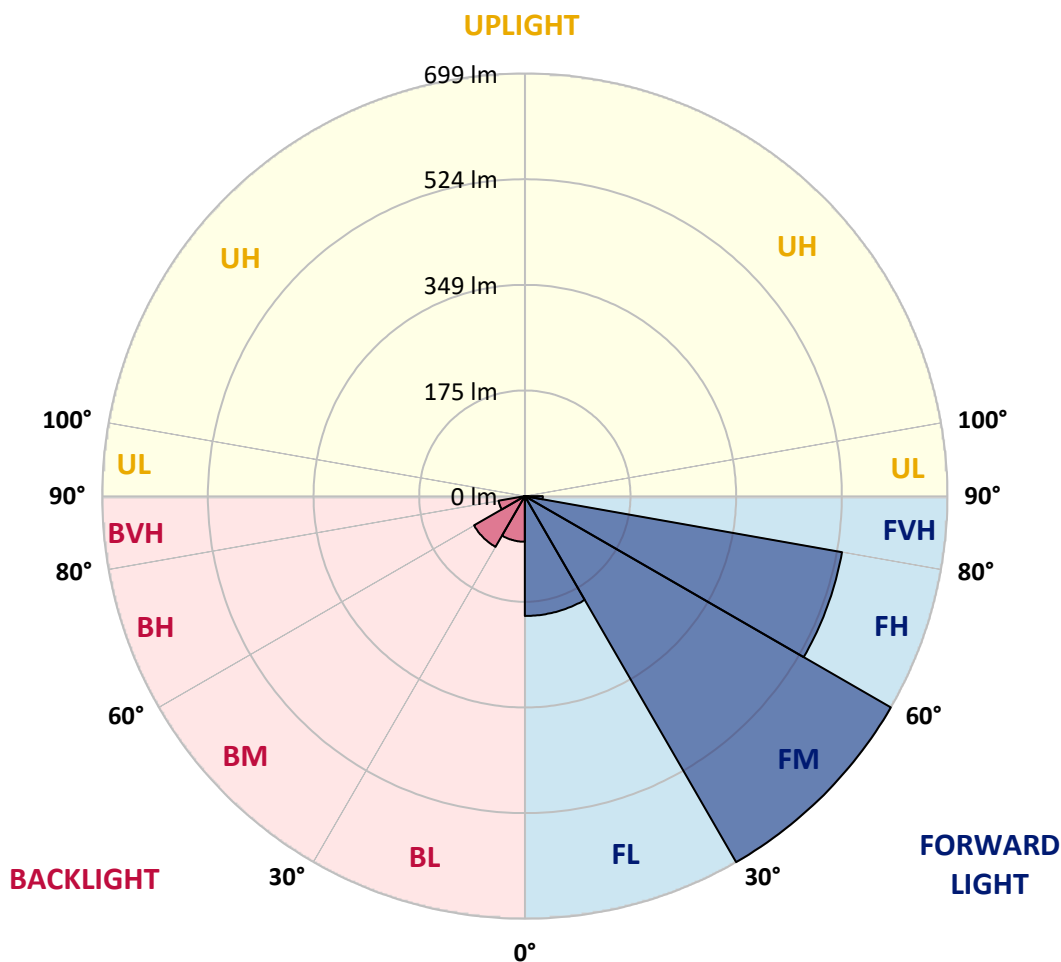
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	198.1	11.8			
FM (30°-60°)	698.5	41.7			
FH (60°-80°)	532.4	31.8			G0/660
FVH (80°-90°)	29.6	1.8			G1/100
BL (0°-30°)	75.4	4.5	B0/110		
BM (30°-60°)	96.9	5.8	B0/220		
BH (60°-80°)	44.0	2.6	B0/110		G0/110
BVH (80°-90°)	1.4	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8
2.5°	653.9	661.6	654.4	629.1	624.6	612.4	593.8	592.5	573.0	575.3	564.9
5°	614.6	622.3	606.9	573.5	542.3	517.5	502.5	475.9	470.0	456.9	456.9
7.5°	574.4	573.9	547.7	519.7	473.2	427.5	406.7	368.3	345.7	333.5	321.8
10°	541.0	533.7	517.5	459.6	409.0	361.5	335.8	310.5	287.0	266.6	246.3
12.5°	517.5	522.0	496.2	433.4	367.9	334.9	307.3	280.6	252.6	229.6	207.0
15°	529.7	522.4	492.1	427.5	361.1	315.9	279.3	246.8	215.6	185.3	168.1
17.5°	567.6	549.1	513.4	427.5	347.1	287.0	242.7	204.3	170.8	143.7	122.5
20°	618.7	597.4	559.0	443.3	336.7	265.7	205.2	156.8	122.0	96.7	80.4
22.5°	671.1	654.4	596.5	449.7	324.5	237.3	161.8	113.4	81.3	65.1	56.9
25°	733.9	710.4	647.2	475.0	306.4	209.7	127.4	79.1	60.6	52.0	47.0
27.5°	784.1	780.0	694.6	490.3	292.8	187.1	100.8	62.8	50.2	43.8	40.7
30°	847.4	825.2	752.5	521.1	277.5	161.3	84.1	56.5	46.1	39.3	37.1
32.5°	885.3	874.9	782.7	538.2	260.3	140.1	72.3	49.7	42.0	37.1	34.8
35°	940.5	919.7	826.1	549.1	251.3	127.9	65.1	45.2	35.3	30.3	27.6
37.5°	1001.9	994.2	878.1	548.6	238.2	120.7	60.1	42.0	33.4	28.0	24.9
40°	1064.7	1033.6	909.7	561.3	231.4	115.2	56.5	40.2	31.6	26.7	22.6
42.5°	1111.7	1076.0	946.3	556.8	223.3	105.8	55.1	37.5	30.3	24.4	20.8
45°	1124.4	1111.7	979.3	555.4	217.4	98.1	52.9	37.1	29.4	23.0	19.4
47.5°	1148.8	1140.2	1020.0	557.7	212.9	92.2	47.5	38.0	28.0	21.7	18.5
50°	1159.6	1144.3	1053.0	563.1	202.5	85.0	42.5	39.8	27.6	21.2	17.6
52.5°	1204.4	1190.8	1098.2	578.5	193.9	75.5	37.5	38.0	28.5	19.9	16.7
55°	1248.2	1232.8	1167.8	613.7	181.7	67.8	32.1	33.4	27.1	18.1	14.9
57.5°	1308.3	1283.0	1214.3	628.2	170.8	57.4	28.5	27.6	25.3	16.3	13.1
60°	1317.4	1327.8	1207.5	619.1	159.5	50.6	24.9	21.2	27.1	14.5	11.3
62.5°	1347.6	1304.3	1175.9	598.3	151.4	46.5	22.1	17.6	23.5	12.7	9.5
65°	1289.3	1257.3	1101.8	531.5	141.0	47.0	19.4	14.5	14.9	10.4	7.7
67.5°	1203.9	1178.6	978.9	458.7	130.6	46.1	17.2	12.7	11.3	9.0	6.8
70°	1056.6	1001.9	831.5	372.4	115.2	42.9	14.5	11.3	9.5	7.2	5.0
72.5°	768.7	746.6	596.5	287.9	103.5	38.9	13.6	9.5	8.1	5.4	4.1
75°	517.5	480.8	376.5	188.9	83.2	33.9	11.3	8.6	6.3	4.1	3.2
77.5°	273.4	258.5	213.3	89.9	46.1	15.8	6.3	5.0	3.6	3.2	1.8
80°	118.4	105.3	92.2	36.6	16.3	7.2	4.1	2.7	2.3	1.8	0.9
82.5°	60.6	57.8	47.9	15.8	9.5	5.4	2.3	1.8	1.4	0.9	0.5
85°	29.8	30.7	25.3	5.0	5.4	3.2	0.5	0.5	0.0	0.0	0.0
87.5°	2.3	2.3	1.8	0.9	1.4	0.5	0.0	0.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8
2.5°	560.8	567.2	556.3	563.1	559.9	561.3	562.6	559.0	559.9	572.6	573.0
5°	449.2	461.4	456.9	463.2	474.1	468.6	473.6	472.7	473.6	475.4	483.6
7.5°	320.4	316.8	325.4	342.1	361.5	373.3	367.4	364.3	362.4	357.9	363.3
10°	241.8	240.0	237.7	242.7	255.3	268.4	275.7	263.5	256.7	248.1	244.9
12.5°	200.7	189.4	183.0	175.3	179.0	190.7	191.2	179.4	168.6	164.0	169.0
15°	158.2	150.5	139.2	128.3	122.9	132.0	124.3	113.0	99.0	97.2	96.7
17.5°	113.0	108.5	100.3	95.8	89.5	87.2	79.1	61.9	52.0	49.3	50.2
20°	76.8	73.2	72.8	68.7	66.0	64.2	51.1	39.8	36.6	37.1	37.5
22.5°	56.9	55.1	52.9	52.4	50.2	47.9	37.5	33.4	31.2	31.2	32.5
25°	46.5	45.6	43.4	42.5	41.6	38.4	31.6	28.5	27.6	26.7	28.0
27.5°	39.8	39.3	38.0	36.6	35.7	32.5	27.6	24.9	24.0	24.0	24.0
30°	35.7	35.7	33.9	31.2	31.2	27.6	23.5	21.7	20.8	20.8	20.3
32.5°	33.4	32.5	30.3	28.5	27.1	23.5	20.8	19.0	17.6	17.6	18.1
35°	27.1	27.1	26.7	25.3	23.5	19.9	17.6	15.8	14.9	14.5	14.9
37.5°	24.0	22.6	20.8	21.2	20.3	17.2	14.9	13.6	12.2	12.2	12.2
40°	21.7	20.3	18.5	17.2	16.7	15.4	13.1	10.8	9.5	9.0	9.0
42.5°	19.4	18.5	15.8	13.6	13.1	13.1	9.9	8.1	6.8	6.8	6.8
45°	18.1	16.7	14.5	11.8	9.5	9.9	8.1	5.9	5.0	4.5	4.5
47.5°	17.2	15.8	12.7	9.9	7.2	7.2	5.9	4.1	3.2	2.7	2.7
50°	15.8	14.5	11.3	8.1	5.4	4.5	3.6	2.3	1.4	0.9	0.9
52.5°	14.9	13.6	9.9	6.8	4.5	3.2	2.3	0.5	0.0	0.0	0.0
55°	13.6	11.8	8.6	5.4	3.6	1.8	0.5	0.0	0.0	0.0	0.0
57.5°	11.8	10.4	6.8	4.1	2.3	0.5	0.0	0.0	0.0	0.0	0.0
60°	9.9	8.6	5.4	3.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8.1	7.2	4.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	6.8	5.4	3.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5.9	4.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4.5	3.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3.2	2.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8
2.5°	574.8	588.4	601.1	604.7	614.6	642.2	642.2	655.3	678.8	687.4	689.2
5°	484.9	499.4	502.1	530.1	543.2	571.2	589.8	634.0	660.7	677.4	687.8
7.5°	368.8	373.7	384.1	410.3	436.1	470.0	505.3	561.7	608.7	627.7	663.0
10°	253.5	268.4	291.0	314.5	354.8	392.3	437.9	491.2	549.1	572.6	602.9
12.5°	170.8	191.6	227.8	261.2	298.3	336.2	379.6	451.0	516.5	549.1	579.4
15°	99.9	125.2	156.4	210.6	259.9	302.3	345.7	418.0	497.6	539.6	576.7
17.5°	50.6	58.3	84.1	131.1	196.1	265.7	330.4	422.5	512.0	563.5	594.3
20°	38.0	40.2	47.5	69.6	134.2	219.6	315.9	429.3	552.3	615.1	631.8
22.5°	33.0	34.8	38.0	45.2	75.5	168.1	295.6	446.0	606.9	666.1	701.4
25°	28.0	29.8	32.5	37.1	48.4	114.3	270.7	463.7	655.7	730.3	763.3
27.5°	24.4	25.8	28.5	32.1	39.3	72.8	227.8	487.2	730.3	808.0	816.6
30°	20.8	22.1	24.4	28.5	33.4	51.5	167.2	490.3	771.4	841.9	865.9
32.5°	18.1	18.5	21.2	24.9	28.0	40.7	117.5	493.5	801.7	885.8	890.7
35°	14.9	15.8	18.5	20.8	24.4	32.1	89.0	477.7	841.0	931.0	929.6
37.5°	12.2	13.6	15.4	17.2	19.9	27.1	71.0	448.3	890.3	1001.0	958.5
40°	9.5	10.8	12.7	14.9	16.7	24.4	53.3	404.0	941.8	1035.4	990.2
42.5°	6.8	7.7	9.5	11.8	14.9	20.3	38.4	351.6	962.1	1075.6	1028.1
45°	5.0	5.9	7.2	9.9	15.4	16.3	26.7	303.7	983.8	1093.2	1019.5
47.5°	2.7	3.6	5.4	8.6	13.6	12.2	19.0	260.8	1008.7	1109.0	1026.3
50°	0.9	1.4	3.2	9.0	10.8	9.5	14.9	237.7	1033.1	1112.2	1039.9
52.5°	0.0	0.0	1.8	9.5	8.1	7.2	13.1	228.7	1026.8	1122.1	1031.3
55°	0.0	0.0	0.5	4.1	4.5	5.4	10.8	228.2	1071.5	1125.3	1078.3
57.5°	0.0	0.0	0.0	1.4	2.7	4.5	9.5	213.8	1100.0	1203.9	1141.6
60°	0.0	0.0	0.0	0.5	1.8	3.2	7.2	201.1	1128.9	1239.2	1209.3
62.5°	0.0	0.0	0.0	0.0	0.5	1.4	5.0	181.7	1070.6	1236.5	1274.9
65°	0.0	0.0	0.0	0.0	0.0	0.0	3.2	143.7	963.1	1171.8	1238.7
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	99.4	843.3	1090.5	1172.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.1	680.6	956.3	994.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.8	485.8	759.2	815.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.4	300.5	555.0	624.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	194.8	420.3	474.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	103.9	263.5	306.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.2	160.0	184.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5	97.2	110.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.9	19.9
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8
2.5°	690.1	703.2	708.2	700.5	701.4	685.6	683.3	661.2	652.1	653.9
5°	721.7	740.7	751.1	742.5	723.1	692.8	665.2	639.0	622.8	614.6
7.5°	714.5	735.7	748.8	757.0	734.8	686.0	644.0	594.7	573.9	574.4
10°	674.7	719.0	745.7	735.3	724.9	676.1	611.0	557.7	539.1	541.0
12.5°	642.6	691.9	707.7	715.8	694.6	655.7	611.9	550.9	530.1	517.5
15°	622.8	659.4	660.3	672.9	664.3	664.3	621.4	561.7	543.7	529.7
17.5°	622.8	630.9	630.0	634.5	649.0	666.1	645.3	605.6	569.9	567.6
20°	636.8	611.5	605.6	607.4	619.6	670.7	698.2	648.5	625.9	618.7
22.5°	669.3	613.7	578.0	571.7	609.2	670.2	732.1	716.3	677.0	671.1
25°	714.0	609.6	570.8	562.6	591.1	686.5	778.7	781.8	746.1	733.9
27.5°	756.5	627.7	569.9	568.1	605.6	682.9	810.8	834.3	794.0	784.1
30°	771.0	645.8	586.6	562.6	611.0	696.0	809.8	871.3	845.1	847.4
32.5°	788.2	663.9	588.4	578.9	634.0	717.2	835.6	931.0	912.0	885.3
35°	813.5	688.3	605.6	597.0	650.3	736.2	841.0	974.8	971.6	940.5
37.5°	835.2	712.2	641.3	642.6	700.0	766.9	865.0	1028.6	1023.2	1001.9
40°	850.5	745.7	696.9	700.5	743.4	801.3	907.5	1055.7	1095.9	1064.7
42.5°	852.8	775.5	760.6	789.5	829.7	854.6	924.6	1074.2	1132.1	1111.7
45°	861.4	823.0	864.5	885.8	918.8	901.6	923.7	1105.9	1134.8	1124.4
47.5°	894.8	909.3	961.7	1026.3	1038.1	981.6	945.4	1110.8	1150.1	1148.8
50°	929.6	1001.9	1075.6	1118.5	1133.4	1036.7	965.8	1106.8	1170.5	1159.6
52.5°	968.5	1082.4	1188.6	1241.4	1233.3	1097.7	988.8	1139.8	1208.0	1204.4
55°	992.9	1118.5	1261.3	1335.0	1328.7	1166.0	1062.0	1187.2	1257.3	1248.2
57.5°	1057.5	1177.3	1333.6	1368.0	1384.7	1255.4	1113.1	1264.9	1298.4	1308.3
60°	1110.8	1215.7	1352.6	1402.3	1408.2	1308.8	1202.6	1344.9	1350.8	1317.4
62.5°	1189.0	1230.6	1312.4	1357.1	1387.4	1339.1	1283.0	1387.9	1349.9	1347.6
65°	1246.4	1181.8	1237.4	1262.2	1281.7	1293.0	1363.9	1417.2	1333.2	1289.3
67.5°	1214.3	1089.6	1079.2	1080.6	1086.4	1154.7	1336.8	1345.4	1240.1	1203.9
70°	1068.8	893.9	879.9	890.7	861.4	943.6	1227.0	1222.9	1094.1	1056.6
72.5°	864.5	651.7	627.7	642.6	649.4	736.6	1032.2	927.3	798.1	768.7
75°	686.9	477.7	403.1	439.3	462.3	536.4	806.2	630.0	557.2	517.5
77.5°	539.6	361.5	313.6	299.2	320.4	390.0	586.6	330.8	291.9	273.4
80°	342.1	265.7	288.3	267.5	276.6	278.4	305.5	150.5	119.8	118.4
82.5°	206.1	181.7	216.0	118.9	216.5	193.4	127.0	68.2	60.6	60.6
85°	146.0	112.5	74.6	48.4	96.3	106.2	49.3	35.3	30.7	29.8
87.5°	73.2	34.8	16.7	10.8	12.2	19.9	5.9	2.7	2.7	2.3
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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