

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: P677316

Luminaire Tested: **CCW-SA-1B-827-U-SLL-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677316
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-827-U-SLL-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
SLL distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

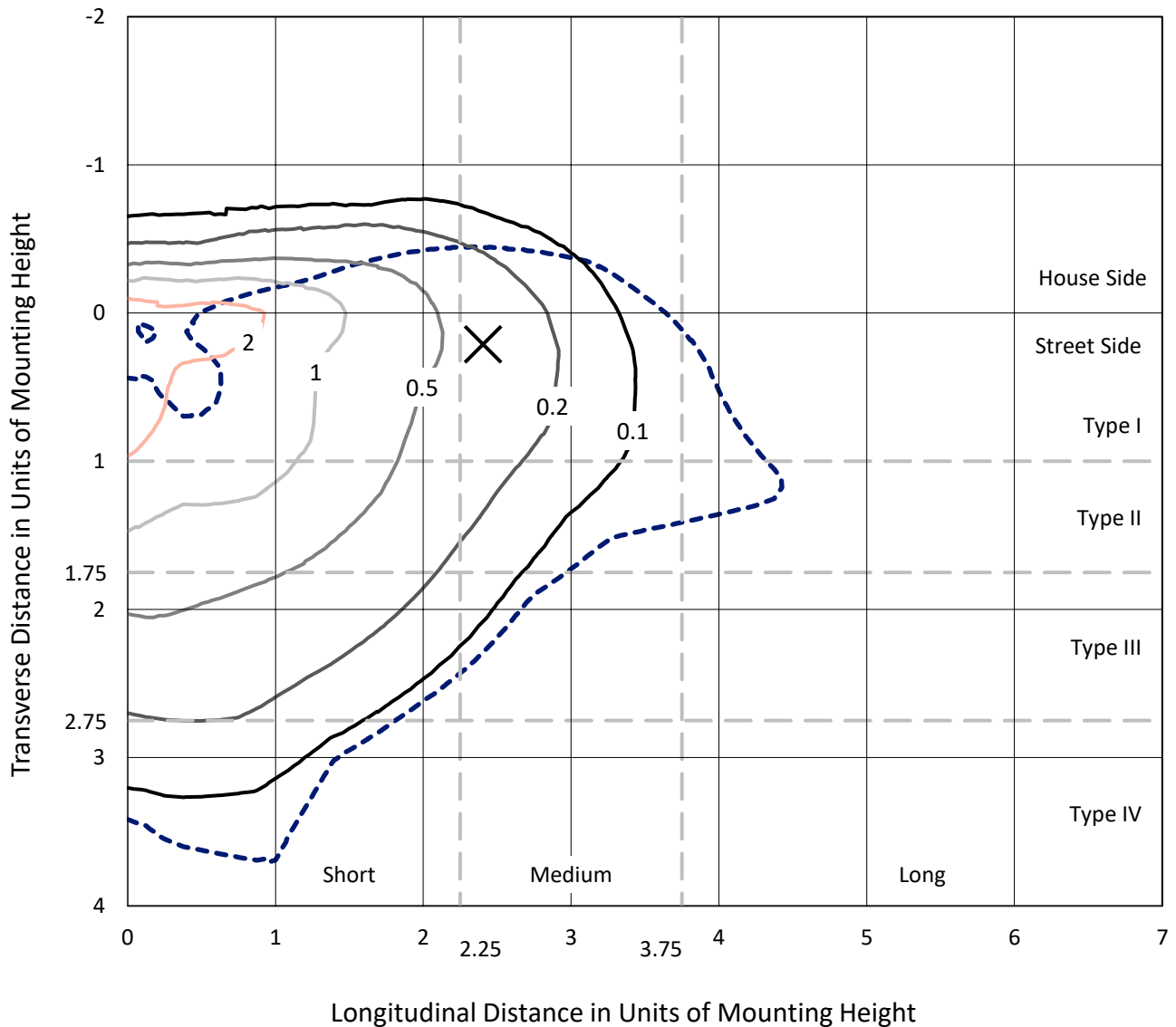
Lumens per Lamp: N/A
Luminaire Lumens: 1842 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B0 - U0 - G1

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

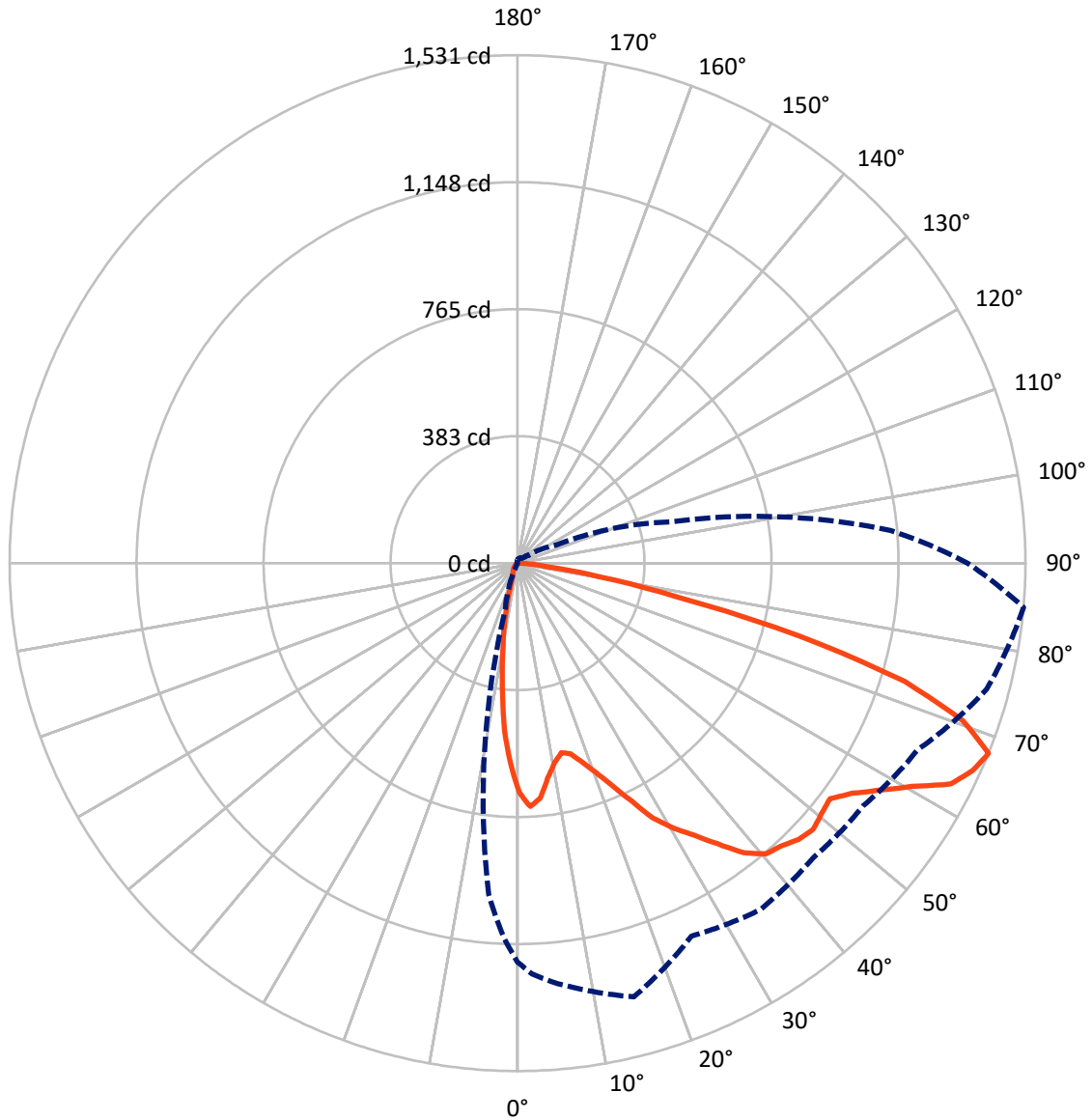
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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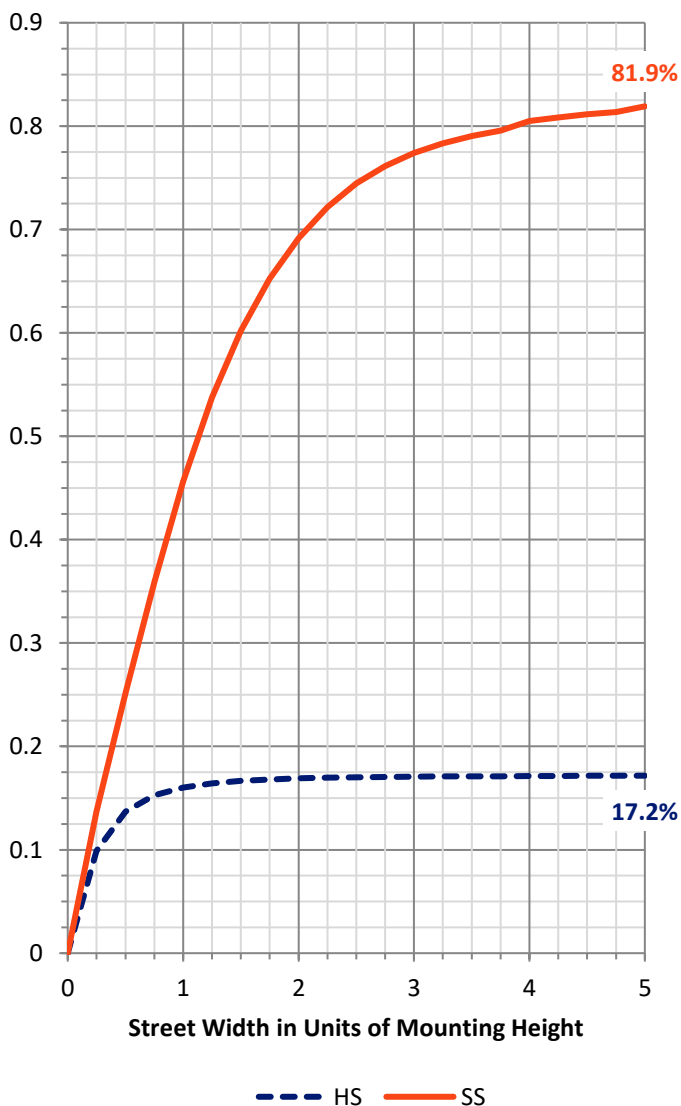
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	319.8	0.0	319.8
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	1522.1	0.0	1522.1
	% Fixture	82.6	0.0	82.6
Total	Lumens	1842.0	0.0	1842.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.6	2.9
10°-20°	103.2	5.6
20°-30°	142.8	7.8
30°-40°	201.8	11.0
40°-50°	274.7	14.9
50°-60°	363.9	19.8
60°-70°	422.5	22.9
70°-80°	239.2	13.0
80°-90°	41.3	2.2
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°	1842.0	100.0
0°-180°	1842.0	100.0



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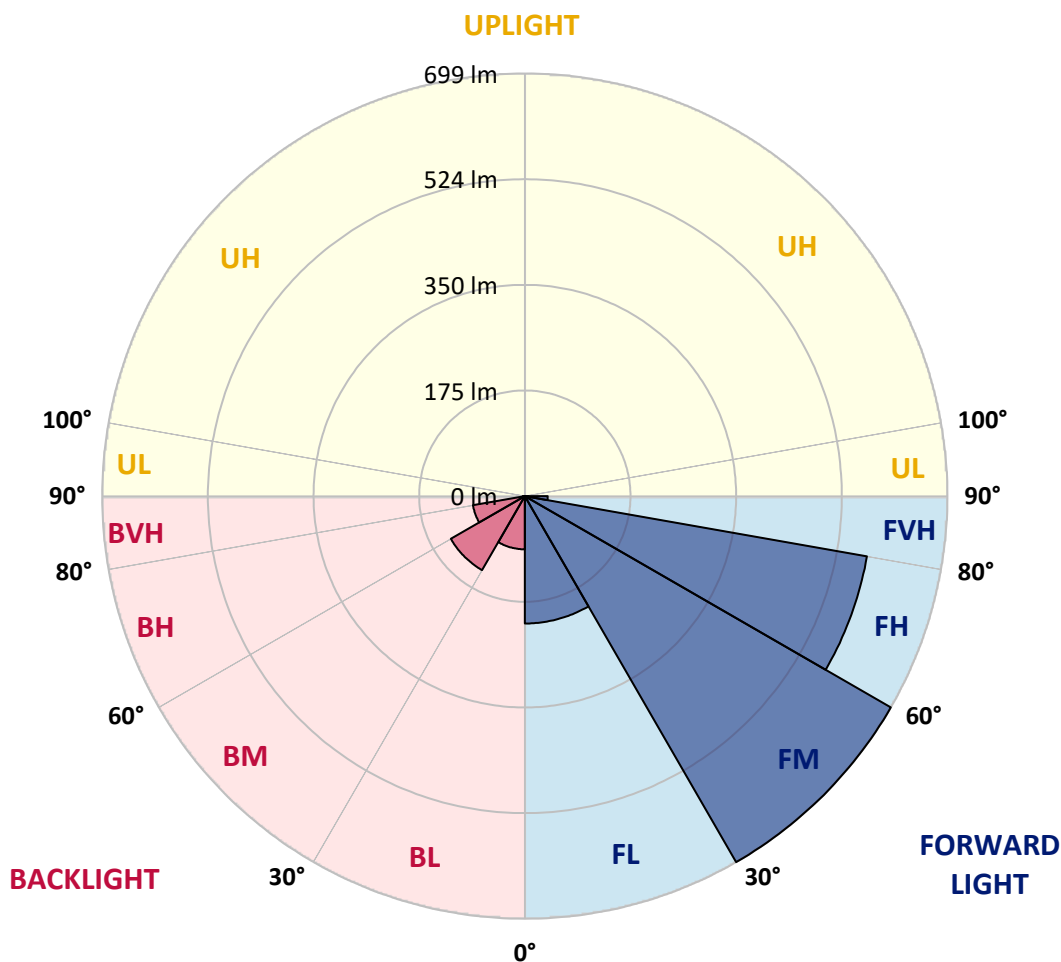
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	210.6	11.4			
FM (30°-60°)	699.0	38.0			
FH (60°-80°)	574.6	31.2			G0/660
FVH (80°-90°)	37.9	2.1			G1/100
BL (0°-30°)	87.9	4.8	B0/110		
BM (30°-60°)	141.3	7.7	B0/220		
BH (60°-80°)	87.1	4.7	B0/110		G0/110
BVH (80°-90°)	3.5	0.2			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	692.6	692.6	692.6	692.6	692.6	692.6	692.6	692.6	692.6	692.6	692.6
2.5°	719.6	734.9	735.4	742.2	749.1	749.1	765.4	761.4	747.2	744.7	734.4
5°	725.0	730.4	734.4	769.3	798.8	795.9	804.7	798.8	771.3	735.8	711.7
7.5°	678.3	684.2	699.9	759.5	799.3	812.6	829.3	792.4	763.4	699.5	653.2
10°	616.3	627.6	656.7	724.5	773.7	816.0	816.0	786.5	730.4	668.0	611.4
12.5°	581.9	604.5	620.3	689.1	753.1	782.1	781.1	765.4	729.0	650.3	586.3
15°	587.8	594.2	627.6	681.3	723.6	722.1	739.8	734.9	709.3	666.0	595.7
17.5°	614.8	624.7	653.7	681.3	701.4	695.5	695.0	718.6	720.1	692.6	630.6
20°	659.1	688.1	701.9	710.3	685.7	660.6	657.6	690.6	716.2	726.5	672.4
22.5°	729.9	749.1	777.2	734.4	670.4	638.9	633.0	669.4	721.1	766.8	726.5
25°	799.3	814.1	841.1	786.0	687.6	634.5	624.2	655.7	739.8	822.9	791.9
27.5°	872.6	885.4	888.3	823.9	697.0	625.7	613.4	655.7	755.5	852.4	870.1
30°	917.4	932.6	935.6	857.3	712.2	633.0	627.1	658.6	766.3	877.5	926.2
32.5°	967.5	971.5	969.0	863.2	729.0	654.7	630.1	678.3	778.6	907.5	977.4
35°	1027.5	1034.4	1009.3	890.3	766.3	668.5	659.6	702.4	799.8	921.3	1039.3
37.5°	1073.3	1094.9	1038.4	900.6	773.7	697.5	699.0	752.6	814.5	938.0	1107.7
40°	1159.4	1123.0	1087.5	936.0	801.8	746.7	738.8	804.2	864.2	948.8	1152.5
42.5°	1206.6	1187.4	1106.7	939.5	845.0	814.5	816.5	862.8	890.3	979.3	1164.8
45°	1218.4	1198.2	1132.8	941.9	887.8	894.7	928.7	937.5	928.7	999.5	1187.9
47.5°	1248.4	1204.6	1129.8	974.9	957.2	983.8	1027.0	1046.2	980.8	992.1	1198.7
50°	1242.5	1217.4	1123.4	988.7	1041.8	1112.1	1141.2	1133.3	1038.8	976.9	1186.9
52.5°	1217.9	1190.8	1143.1	1026.1	1121.0	1206.1	1246.4	1226.7	1090.5	1011.3	1179.0
55°	1253.8	1233.1	1168.7	1076.7	1180.5	1288.7	1317.2	1302.5	1153.9	1043.3	1223.8
57.5°	1292.7	1288.2	1238.1	1136.2	1250.8	1373.8	1373.8	1355.6	1209.0	1089.5	1290.2
60°	1348.7	1358.6	1289.2	1175.6	1274.9	1368.9	1440.2	1419.1	1264.6	1170.7	1365.5
62.5°	1330.5	1362.0	1355.1	1260.2	1302.5	1393.0	1431.9	1447.6	1333.5	1269.5	1465.8
65°	1272.0	1305.4	1354.6	1315.8	1281.8	1334.5	1354.1	1401.9	1367.9	1362.5	1507.1
67.5°	1202.1	1238.5	1269.0	1353.2	1240.0	1274.9	1257.7	1273.0	1330.5	1464.3	1530.7
70°	1049.7	1084.6	1132.8	1270.0	1129.4	1097.9	1093.4	1086.1	1175.6	1427.9	1423.5
72.5°	863.2	879.5	959.2	1032.5	835.7	829.8	836.7	828.3	932.1	1292.7	1219.4
75°	646.3	662.6	707.8	792.9	569.1	535.2	574.5	613.4	711.7	1003.4	876.0
77.5°	486.0	506.6	535.2	593.2	417.6	364.5	369.9	406.8	514.5	803.7	490.9
80°	315.3	312.8	367.9	408.3	314.3	324.1	310.4	337.4	372.8	429.9	250.9
82.5°	182.0	184.5	207.6	234.1	218.9	250.4	180.5	301.5	266.1	175.1	93.5
85°	102.3	106.7	127.9	162.3	137.2	92.0	75.3	149.5	167.2	71.8	45.3
87.5°	10.3	8.9	17.2	61.5	37.4	15.2	22.6	35.9	40.3	27.1	13.3
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°	692.6	692.6	692.6	692.6	692.6	692.6	692.6	692.6	692.6	692.6	692.6
2.5°	719.6	719.6	707.3	686.7	678.3	663.5	643.4	649.8	642.9	617.8	611.4
5°	690.1	666.5	640.9	609.4	591.2	553.9	542.0	520.9	524.3	503.2	504.2
7.5°	628.6	609.9	566.6	525.3	489.4	457.0	411.2	394.0	377.3	368.9	378.7
10°	592.7	557.8	498.8	444.7	396.9	367.9	337.4	313.8	292.2	275.9	272.5
12.5°	566.6	535.7	464.3	398.4	361.0	337.4	309.4	276.9	255.8	227.7	219.4
15°	558.8	520.9	445.6	380.2	343.8	305.0	273.0	241.0	213.5	184.0	173.6
17.5°	585.8	542.0	445.1	365.5	314.3	272.5	228.2	192.3	164.3	137.2	130.8
20°	631.6	564.7	459.4	356.6	286.3	230.2	180.0	144.1	112.6	94.9	90.5
22.5°	683.7	603.0	460.9	333.0	258.2	187.9	131.3	94.9	77.2	68.9	66.4
25°	747.7	664.5	478.6	313.8	225.3	142.6	93.5	72.8	62.5	57.5	56.6
27.5°	800.3	707.3	497.8	293.7	192.8	105.8	73.3	59.5	54.1	49.2	48.7
30°	854.9	756.5	503.2	281.4	164.8	87.1	63.0	52.6	46.7	44.3	43.8
32.5°	902.6	810.1	520.4	261.2	138.2	76.7	57.1	47.2	43.3	39.4	38.9
35°	964.1	841.1	528.8	250.4	128.4	69.4	52.1	43.3	37.4	34.9	33.9
37.5°	1030.0	871.1	534.2	242.0	120.0	64.9	49.2	40.8	35.4	32.0	31.0
40°	1091.5	913.4	526.3	231.7	113.6	59.5	47.2	37.9	33.0	29.5	28.0
42.5°	1138.7	954.7	523.8	221.8	106.7	57.5	44.8	36.4	31.0	27.1	26.6
45°	1165.3	982.8	506.6	214.0	101.3	58.5	43.8	34.4	29.5	26.1	24.1
47.5°	1158.9	1004.4	511.1	211.5	93.9	54.6	43.3	33.0	27.1	24.1	22.6
50°	1194.3	1048.2	503.7	203.6	88.5	49.2	47.2	33.0	26.6	23.1	21.6
52.5°	1200.2	1088.0	519.4	189.4	80.2	45.3	46.7	32.5	25.6	22.1	20.2
55°	1249.4	1134.3	549.9	181.5	73.3	39.4	42.8	31.5	23.1	20.2	19.2
57.5°	1316.3	1230.2	569.6	174.1	63.9	34.4	35.9	31.0	21.2	18.7	17.2
60°	1380.7	1268.6	571.1	160.8	55.1	31.0	28.0	31.0	19.7	16.7	15.2
62.5°	1428.9	1268.6	561.2	149.5	48.2	27.5	24.6	29.5	17.7	14.8	13.8
65°	1402.8	1234.6	535.7	140.2	43.8	24.1	21.2	22.6	15.7	12.8	11.8
67.5°	1356.1	1128.9	479.1	128.9	43.3	21.2	18.2	16.7	13.8	11.3	10.3
70°	1281.3	986.2	398.9	116.1	42.3	19.2	16.2	14.3	12.3	9.8	8.9
72.5°	1032.5	814.5	327.6	108.7	41.3	16.7	13.8	12.3	10.3	8.4	7.4
75°	715.2	520.4	252.3	93.0	40.3	15.2	12.8	10.8	8.9	6.9	6.4
77.5°	428.9	347.8	162.8	69.8	26.6	12.3	10.8	8.4	7.4	5.9	5.4
80°	200.7	164.3	65.9	27.1	12.8	8.9	7.4	6.4	5.9	4.9	4.4
82.5°	78.7	69.4	32.0	15.7	10.3	6.9	5.9	5.4	4.9	3.9	3.4
85°	42.3	37.4	15.2	10.8	7.4	4.9	4.9	4.4	3.9	3.4	3.0
87.5°	9.3	6.9	6.4	6.4	5.4	3.9	3.9	3.4	3.0	2.5	2.0
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°	692.6	692.6	692.6	692.6	692.6	692.6	692.6	692.6	692.6	692.6	692.6
2.5°	608.0	615.3	603.5	610.9	600.6	608.5	609.4	602.1	604.0	613.9	618.3
5°	517.9	513.0	502.2	498.8	499.3	492.9	495.3	498.8	504.2	507.1	516.0
7.5°	373.3	384.6	384.2	392.5	393.0	392.0	385.1	370.4	375.3	371.4	376.3
10°	267.1	272.0	281.4	286.8	296.6	291.2	275.5	269.5	266.6	266.1	271.0
12.5°	213.5	201.7	200.7	202.7	207.6	201.2	193.3	186.4	189.9	196.8	202.2
15°	165.3	155.4	142.6	140.7	141.7	138.7	130.3	121.5	124.0	130.8	134.8
17.5°	126.9	115.6	106.7	100.8	98.9	88.5	76.2	68.9	66.9	66.4	69.8
20°	85.6	83.6	82.1	74.8	74.8	60.0	49.7	44.3	44.3	45.3	45.7
22.5°	63.9	61.5	62.0	60.5	56.6	44.8	39.4	37.9	37.9	38.9	38.9
25°	55.6	52.1	51.2	50.7	46.7	38.4	34.4	33.0	33.0	33.9	33.9
27.5°	47.2	46.2	44.8	42.8	39.4	33.0	30.5	29.0	29.5	30.0	29.5
30°	43.3	40.8	38.9	38.9	34.9	29.5	27.5	26.6	25.6	26.6	27.1
32.5°	38.4	36.9	35.9	34.4	30.0	26.1	24.1	23.1	22.6	22.6	23.1
35°	33.0	33.0	32.0	30.0	26.1	23.6	21.2	20.2	19.7	20.2	20.2
37.5°	29.5	28.0	28.5	26.6	23.1	20.7	18.2	17.2	17.2	16.7	17.2
40°	27.5	25.1	23.6	22.6	20.7	17.7	15.7	14.8	14.3	14.3	14.3
42.5°	24.6	22.6	19.7	19.2	18.7	15.2	12.8	12.3	11.8	11.3	11.3
45°	23.1	20.2	17.7	15.2	15.2	12.8	10.8	9.8	9.3	8.9	9.3
47.5°	21.2	18.2	15.2	12.8	12.3	10.3	8.4	7.4	6.9	6.9	6.9
50°	20.2	16.2	13.3	10.8	9.3	8.4	6.4	5.4	4.9	4.9	4.9
52.5°	18.7	15.2	11.8	9.3	7.4	6.4	4.9	3.9	3.4	3.4	3.4
55°	16.7	13.8	10.3	7.9	6.4	4.9	3.4	2.5	2.0	2.0	2.0
57.5°	15.7	12.3	8.9	6.9	4.9	3.4	2.0	1.5	1.5	1.0	1.5
60°	14.3	10.8	7.4	5.4	3.9	2.5	1.5	0.5	0.5	0.5	0.5
62.5°	12.3	9.3	6.4	4.4	3.0	1.5	0.5	0.0	0.0	0.0	0.0
65°	10.3	7.4	4.9	3.4	2.0	0.5	0.0	0.0	0.0	0.0	0.0
67.5°	8.9	6.4	3.9	2.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	7.9	5.4	3.0	2.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6.4	4.4	2.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	5.4	3.4	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.4	2.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.4	2.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	0.5	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):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	692.6	692.6	692.6	692.6	692.6	692.6	692.6	692.6	692.6	692.6
2.5°	624.7	621.7	636.5	660.6	672.9	697.0	702.9	718.1	714.2	719.6
5°	517.0	522.9	544.5	579.9	592.7	627.6	660.6	693.5	714.7	725.0
7.5°	383.7	403.3	429.9	462.4	495.3	541.1	597.1	635.5	656.2	678.3
10°	285.8	306.9	337.4	369.4	423.0	474.2	530.2	578.0	595.7	616.3
12.5°	224.8	257.7	293.2	327.6	359.6	408.3	477.6	547.0	566.2	581.9
15°	156.4	196.8	247.4	292.2	336.9	379.2	451.1	535.2	561.2	587.8
17.5°	86.6	118.5	176.6	239.5	305.5	370.4	459.9	556.8	596.2	614.8
20°	50.2	63.0	104.3	179.0	266.1	351.2	464.3	597.6	649.8	659.1
22.5°	41.3	45.7	59.0	112.1	217.9	338.9	487.0	654.7	707.8	729.9
25°	35.4	38.9	45.7	67.4	164.8	312.8	501.2	726.0	775.2	799.3
27.5°	31.5	34.9	40.3	49.7	112.1	276.9	524.8	790.4	839.6	872.6
30°	27.5	30.5	35.9	42.3	77.7	236.6	545.0	837.7	907.0	917.4
32.5°	24.6	27.1	31.0	36.4	57.5	179.5	561.2	886.4	944.9	967.5
35°	21.2	24.1	26.6	31.0	43.8	135.3	551.4	924.2	1000.5	1027.5
37.5°	18.7	20.7	23.1	26.1	36.9	105.8	531.2	969.5	1048.2	1073.3
40°	15.7	17.2	20.2	23.1	33.4	81.7	508.1	1024.1	1115.1	1159.4
42.5°	13.3	14.8	16.7	21.6	27.5	60.5	461.4	1066.4	1169.2	1206.6
45°	10.3	12.3	15.2	21.6	22.1	44.8	413.2	1097.9	1199.7	1218.4
47.5°	7.9	9.8	14.8	18.7	17.7	31.0	356.1	1133.8	1231.2	1248.4
50°	5.9	7.9	16.7	16.2	14.8	23.6	320.2	1158.9	1233.1	1242.5
52.5°	3.9	5.9	13.8	12.3	12.3	20.7	310.4	1157.9	1238.1	1217.9
55°	3.0	4.4	7.9	8.9	10.8	18.2	301.5	1194.8	1239.5	1253.8
57.5°	2.0	3.4	5.4	6.9	9.3	15.7	283.3	1239.0	1285.3	1292.7
60°	1.0	2.5	3.9	5.4	7.9	13.8	257.7	1271.5	1340.9	1348.7
62.5°	0.5	1.5	3.0	4.4	6.4	10.8	231.2	1219.9	1316.8	1330.5
65°	0.0	1.0	2.0	3.0	3.9	7.9	187.9	1101.3	1221.3	1272.0
67.5°	0.0	0.0	1.0	2.0	2.5	5.9	141.7	1002.0	1133.3	1202.1
70°	0.0	0.0	0.5	0.5	1.5	4.4	90.5	829.8	1011.8	1049.7
72.5°	0.0	0.0	0.0	0.0	0.5	3.0	52.6	616.3	792.9	863.2
75°	0.0	0.0	0.0	0.0	0.0	2.5	26.6	396.5	551.9	646.3
77.5°	0.0	0.0	0.0	0.0	0.0	2.0	14.3	255.8	406.8	486.0
80°	0.0	0.0	0.0	0.0	0.0	0.5	8.4	148.5	260.2	315.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	72.8	155.4	182.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	38.9	77.7	102.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	5.4	10.3
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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