

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: P677304

Luminaire Tested: **CCW-SA-1A-760-U-SLL-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677304
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-760-U-SLL-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
SLL distribution lens and House Side Shield
Light Source: (16) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

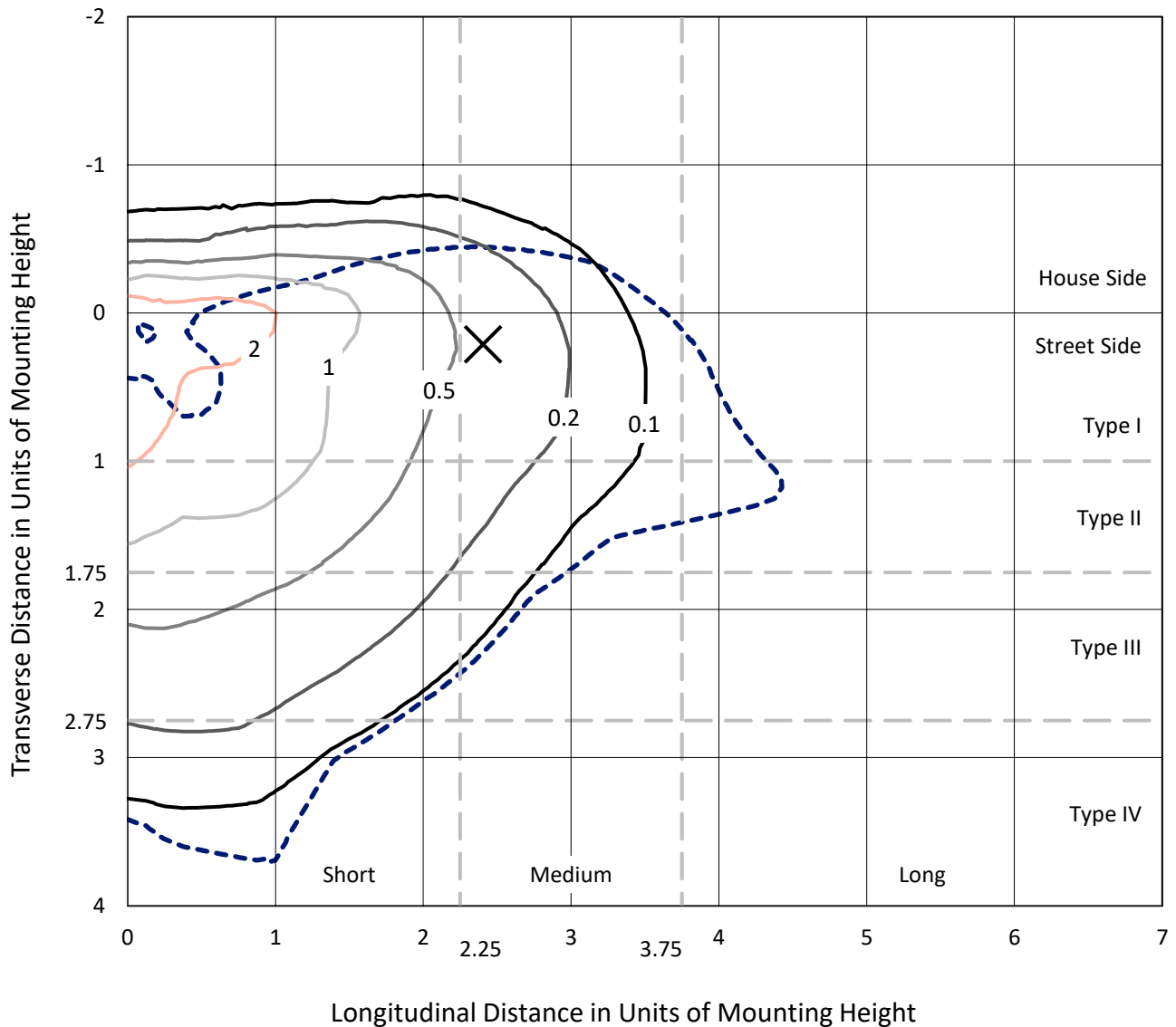
Lumens per Lamp: N/A
Luminaire Lumens: 2030.4 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B0 - U0 - G1

Input Watts (W): 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

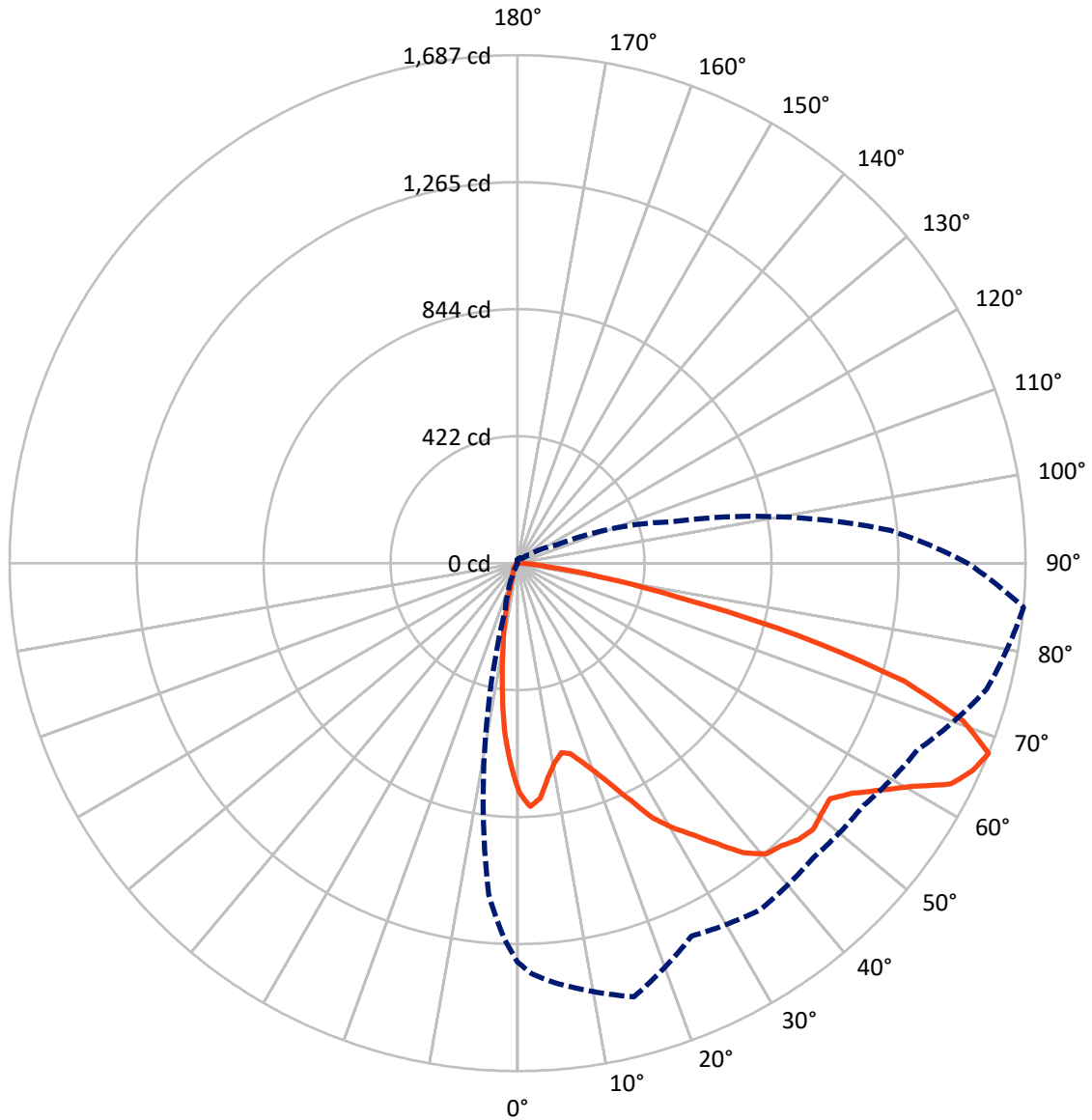
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.8 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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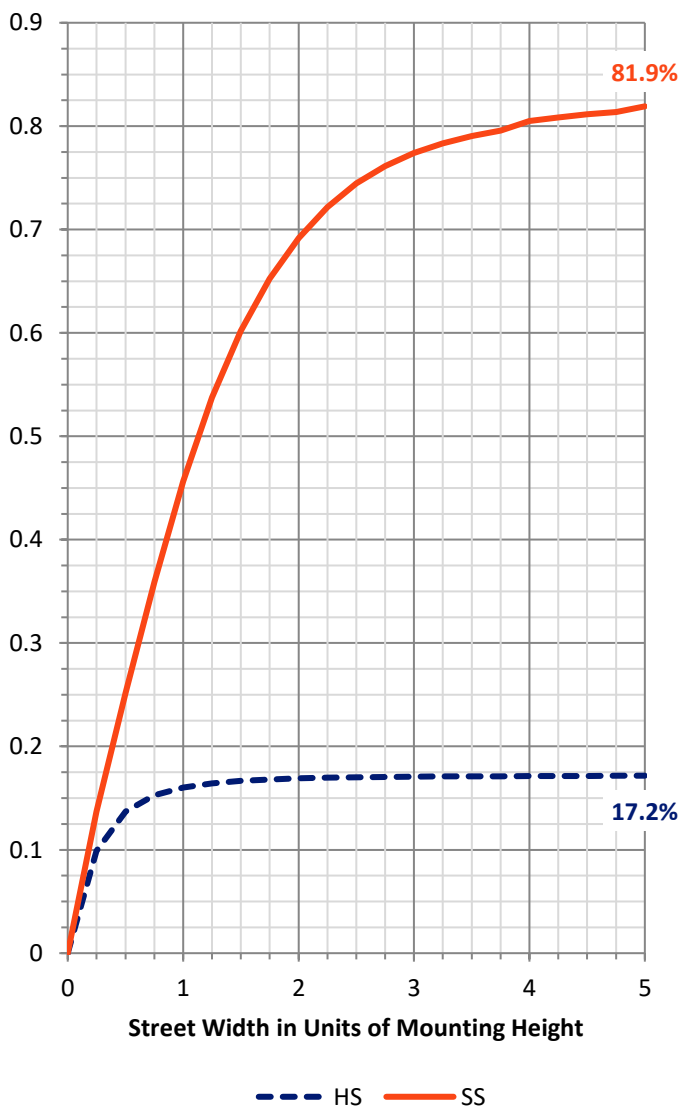
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	352.5	0.0	352.5
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	1677.9	0.0	1677.9
	% Fixture	82.6	0.0	82.6
Total	Lumens	2030.4	0.0	2030.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.0	2.9
10°-20°	113.7	5.6
20°-30°	157.4	7.8
30°-40°	222.4	11.0
40°-50°	302.8	14.9
50°-60°	401.1	19.8
60°-70°	465.7	22.9
70°-80°	263.7	13.0
80°-90°	45.6	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°	2030.4	100.0
0°-180°	2030.4	100.0



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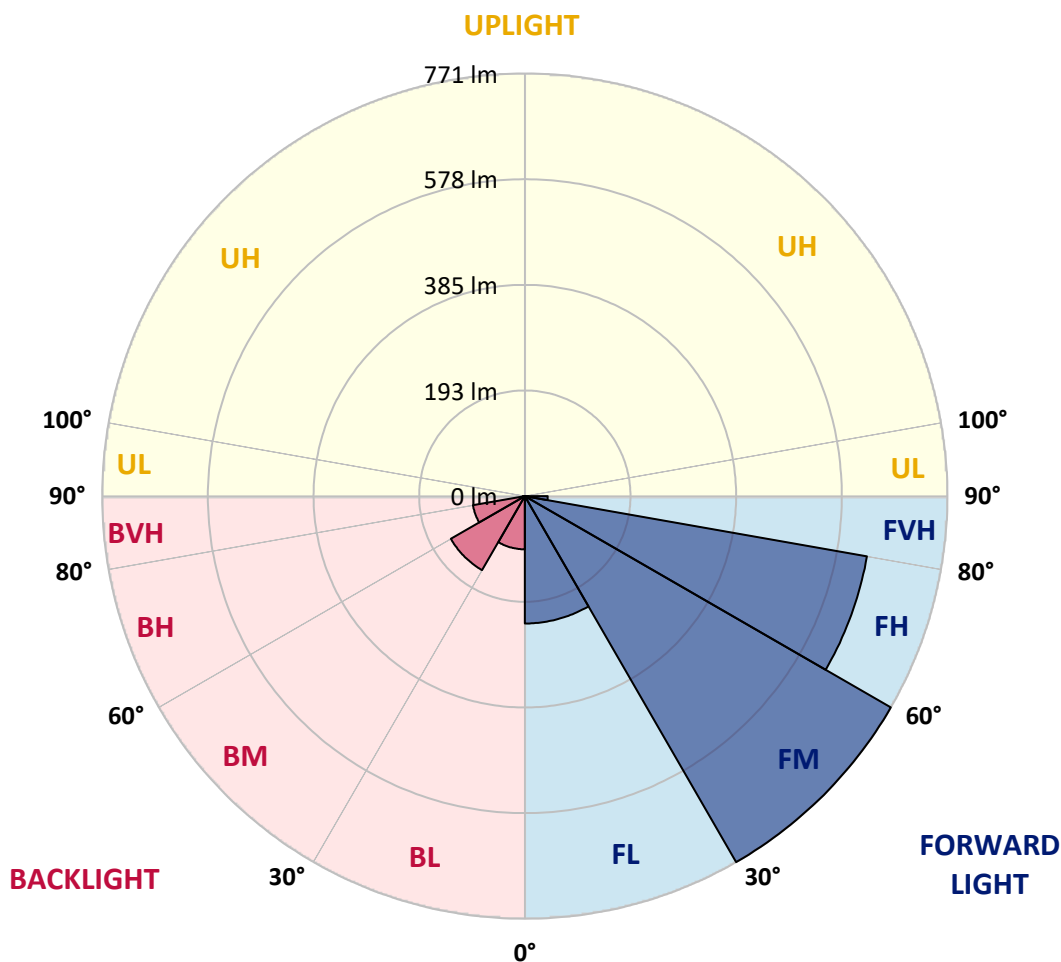
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	232.2	11.4			
FM (30°-60°)	770.6	38.0			
FH (60°-80°)	633.4	31.2			G0/660
FVH (80°-90°)	41.7	2.1			G1/100
BL (0°-30°)	96.9	4.8	B0/110		
BM (30°-60°)	155.8	7.7	B0/220		
BH (60°-80°)	96.0	4.7	B0/110		G0/110
BVH (80°-90°)	3.8	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°	763.4	763.4	763.4	763.4	763.4	763.4	763.4	763.4	763.4	763.4	763.4
2.5°	793.2	810.0	810.6	818.2	825.8	825.8	843.7	839.3	823.6	820.9	809.5
5°	799.2	805.2	809.5	848.0	880.5	877.3	887.0	880.5	850.2	811.1	784.6
7.5°	747.7	754.2	771.5	837.2	881.1	895.7	914.1	873.5	841.5	771.0	720.0
10°	679.4	691.8	723.8	798.7	852.9	899.5	899.5	867.0	805.2	736.3	674.0
12.5°	641.4	666.4	683.7	759.6	830.1	862.1	861.0	843.7	803.5	716.8	646.3
15°	647.9	655.0	691.8	750.9	797.6	795.9	815.5	810.0	781.9	734.1	656.6
17.5°	677.7	688.6	720.6	750.9	773.2	766.7	766.1	792.2	793.8	763.4	695.1
20°	726.5	758.5	773.7	782.9	755.8	728.2	724.9	761.2	789.4	800.8	741.2
22.5°	804.6	825.8	856.7	809.5	739.0	704.3	697.8	737.9	794.9	845.3	800.8
25°	881.1	897.3	927.2	866.4	758.0	699.4	688.0	722.8	815.5	907.1	872.9
27.5°	961.9	976.0	979.2	908.2	768.3	689.7	676.1	722.8	832.8	939.6	959.1
30°	1011.2	1028.0	1031.3	945.1	785.1	697.8	691.3	726.0	844.7	967.3	1021.0
32.5°	1066.5	1070.8	1068.1	951.6	803.5	721.7	694.6	747.7	858.3	1000.4	1077.3
35°	1132.7	1140.2	1112.6	981.4	844.7	736.8	727.1	774.3	881.6	1015.5	1145.7
37.5°	1183.1	1206.9	1144.6	992.8	852.9	768.8	770.5	829.6	897.9	1034.0	1221.0
40°	1278.0	1237.8	1198.8	1031.8	883.8	823.1	814.4	886.5	952.6	1045.9	1270.4
42.5°	1330.0	1308.9	1219.9	1035.6	931.5	897.9	900.0	951.0	981.4	1079.5	1283.9
45°	1343.0	1320.8	1248.7	1038.3	978.7	986.3	1023.7	1033.4	1023.7	1101.7	1309.4
47.5°	1376.1	1327.8	1245.4	1074.6	1055.1	1084.4	1132.1	1153.3	1081.1	1093.6	1321.3
50°	1369.6	1341.9	1238.4	1089.8	1148.4	1225.9	1257.9	1249.2	1145.1	1076.8	1308.3
52.5°	1342.5	1312.7	1260.1	1131.0	1235.7	1329.5	1373.9	1352.2	1202.1	1114.8	1299.6
55°	1382.1	1359.3	1288.3	1186.9	1301.3	1420.6	1452.0	1435.7	1272.0	1150.0	1349.0
57.5°	1424.9	1420.0	1364.7	1252.5	1378.8	1514.4	1514.4	1494.3	1332.7	1201.0	1422.2
60°	1486.7	1497.6	1421.1	1295.9	1405.4	1508.9	1587.6	1564.2	1394.0	1290.4	1505.1
62.5°	1466.6	1501.3	1493.8	1389.1	1435.7	1535.5	1578.3	1595.7	1469.9	1399.4	1615.8
65°	1402.1	1439.0	1493.2	1450.4	1413.0	1471.0	1492.7	1545.3	1507.9	1501.9	1661.3
67.5°	1325.1	1365.3	1398.9	1491.6	1366.9	1405.4	1386.4	1403.2	1466.6	1614.1	1687.3
70°	1157.1	1195.5	1248.7	1400.0	1244.9	1210.2	1205.3	1197.2	1295.9	1574.0	1569.1
72.5°	951.6	969.5	1057.3	1138.1	921.2	914.7	922.3	913.1	1027.5	1424.9	1344.1
75°	712.4	730.3	780.2	874.0	627.3	589.9	633.3	676.1	784.6	1106.1	965.7
77.5°	535.7	558.5	589.9	653.9	460.3	401.8	407.7	448.4	567.1	886.0	541.1
80°	347.5	344.8	405.6	450.0	346.5	357.3	342.1	371.9	411.0	473.9	276.5
82.5°	200.6	203.3	228.8	258.1	241.3	276.0	199.0	332.4	293.3	193.0	103.0
85°	112.8	117.7	141.0	178.9	151.3	101.4	83.0	164.8	184.3	79.2	49.9
87.5°	11.4	9.8	19.0	67.8	41.2	16.8	24.9	39.6	44.5	29.8	14.6
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°	763.4	763.4	763.4	763.4	763.4	763.4	763.4	763.4	763.4	763.4	763.4
2.5°	793.2	793.2	779.7	756.9	747.7	731.4	709.2	716.2	708.7	681.0	674.0
5°	760.7	734.7	706.5	671.8	651.7	610.5	597.5	574.2	578.0	554.7	555.8
7.5°	692.9	672.3	624.6	579.1	539.5	503.7	453.3	434.3	415.9	406.6	417.5
10°	653.3	614.9	549.8	490.1	437.6	405.6	371.9	345.9	322.1	304.2	300.4
12.5°	624.6	590.5	511.8	439.2	398.0	371.9	341.0	305.3	281.9	251.0	241.8
15°	615.9	574.2	491.2	419.1	379.0	336.2	300.9	265.7	235.3	202.8	191.4
17.5°	645.8	597.5	490.7	402.9	346.5	300.4	251.6	212.0	181.1	151.3	144.2
20°	696.2	622.4	506.4	393.1	315.6	253.7	198.4	158.9	124.2	104.6	99.8
22.5°	753.7	664.7	508.0	367.1	284.7	207.1	144.8	104.6	85.1	75.9	73.2
25°	824.1	732.5	527.6	345.9	248.3	157.2	103.0	80.2	68.9	63.4	62.4
27.5°	882.2	779.7	548.7	323.7	212.5	116.6	80.8	65.6	59.6	54.2	53.7
30°	942.3	833.9	554.7	310.1	181.6	96.0	69.4	58.0	51.5	48.8	48.3
32.5°	994.9	893.0	573.6	287.9	152.4	84.6	62.9	52.1	47.7	43.4	42.8
35°	1062.7	927.2	582.9	276.0	141.5	76.4	57.5	47.7	41.2	38.5	37.4
37.5°	1135.4	960.2	588.8	266.8	132.3	71.6	54.2	45.0	39.0	35.2	34.2
40°	1203.1	1006.9	580.2	255.4	125.2	65.6	52.1	41.7	36.3	32.5	30.9
42.5°	1255.2	1052.4	577.4	244.5	117.7	63.4	49.3	40.1	34.2	29.8	29.3
45°	1284.5	1083.3	558.5	235.9	111.7	64.5	48.3	38.0	32.5	28.7	26.6
47.5°	1277.4	1107.2	563.3	233.1	103.6	60.2	47.7	36.3	29.8	26.6	24.9
50°	1316.5	1155.4	555.2	224.5	97.6	54.2	52.1	36.3	29.3	25.5	23.9
52.5°	1323.0	1199.3	572.6	208.7	88.4	49.9	51.5	35.8	28.2	24.4	22.2
55°	1377.2	1250.3	606.2	200.1	80.8	43.4	47.2	34.7	25.5	22.2	21.1
57.5°	1450.9	1356.0	627.9	191.9	70.5	38.0	39.6	34.2	23.3	20.6	19.0
60°	1522.0	1398.3	629.5	177.3	60.7	34.2	30.9	34.2	21.7	18.4	16.8
62.5°	1575.1	1398.3	618.6	164.8	53.1	30.4	27.1	32.5	19.5	16.3	15.2
65°	1546.3	1360.9	590.5	154.5	48.3	26.6	23.3	24.9	17.4	14.1	13.0
67.5°	1494.8	1244.3	528.1	142.1	47.7	23.3	20.1	18.4	15.2	12.5	11.4
70°	1412.4	1087.1	439.7	128.0	46.6	21.1	17.9	15.7	13.6	10.8	9.8
72.5°	1138.1	897.9	361.1	119.8	45.5	18.4	15.2	13.6	11.4	9.2	8.1
75°	788.4	573.6	278.1	102.5	44.5	16.8	14.1	11.9	9.8	7.6	7.0
77.5°	472.8	383.3	179.5	77.0	29.3	13.6	11.9	9.2	8.1	6.5	6.0
80°	221.2	181.1	72.7	29.8	14.1	9.8	8.1	7.0	6.5	5.4	4.9
82.5°	86.8	76.4	35.2	17.4	11.4	7.6	6.5	6.0	5.4	4.3	3.8
85°	46.6	41.2	16.8	11.9	8.1	5.4	5.4	4.9	4.3	3.8	3.3
87.5°	10.3	7.6	7.0	7.0	6.0	4.3	4.3	3.8	3.3	2.7	2.2
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	763.4	763.4	763.4	763.4	763.4	763.4	763.4	763.4	763.4	763.4	763.4
2.5°	670.2	678.3	665.3	673.4	662.0	670.7	671.8	663.7	665.8	676.7	681.5
5°	570.9	565.5	553.6	549.8	550.3	543.3	546.0	549.8	555.8	559.0	568.8
7.5°	411.5	424.0	423.5	432.7	433.2	432.1	424.5	408.3	413.7	409.4	414.8
10°	294.4	299.8	310.1	316.1	326.9	321.0	303.6	297.1	293.9	293.3	298.8
12.5°	235.3	222.3	221.2	223.4	228.8	221.8	213.1	205.5	209.3	216.9	222.8
15°	182.2	171.3	157.2	155.1	156.2	152.9	143.7	133.9	136.6	144.2	148.6
17.5°	139.9	127.4	117.7	111.2	109.0	97.6	84.0	75.9	73.7	73.2	77.0
20°	94.3	92.2	90.5	82.4	82.4	66.1	54.8	48.8	48.8	49.9	50.4
22.5°	70.5	67.8	68.3	66.7	62.4	49.3	43.4	41.7	41.7	42.8	42.8
25°	61.3	57.5	56.4	55.8	51.5	42.3	38.0	36.3	36.3	37.4	37.4
27.5°	52.1	51.0	49.3	47.2	43.4	36.3	33.6	32.0	32.5	33.1	32.5
30°	47.7	45.0	42.8	42.8	38.5	32.5	30.4	29.3	28.2	29.3	29.8
32.5°	42.3	40.7	39.6	38.0	33.1	28.7	26.6	25.5	24.9	24.9	25.5
35°	36.3	36.3	35.2	33.1	28.7	26.0	23.3	22.2	21.7	22.2	22.2
37.5°	32.5	30.9	31.4	29.3	25.5	22.8	20.1	19.0	19.0	18.4	19.0
40°	30.4	27.7	26.0	24.9	22.8	19.5	17.4	16.3	15.7	15.7	15.7
42.5°	27.1	24.9	21.7	21.1	20.6	16.8	14.1	13.6	13.0	12.5	12.5
45°	25.5	22.2	19.5	16.8	16.8	14.1	11.9	10.8	10.3	9.8	10.3
47.5°	23.3	20.1	16.8	14.1	13.6	11.4	9.2	8.1	7.6	7.6	7.6
50°	22.2	17.9	14.6	11.9	10.3	9.2	7.0	6.0	5.4	5.4	5.4
52.5°	20.6	16.8	13.0	10.3	8.1	7.0	5.4	4.3	3.8	3.8	3.8
55°	18.4	15.2	11.4	8.7	7.0	5.4	3.8	2.7	2.2	2.2	2.2
57.5°	17.4	13.6	9.8	7.6	5.4	3.8	2.2	1.6	1.6	1.1	1.6
60°	15.7	11.9	8.1	6.0	4.3	2.7	1.6	0.5	0.5	0.5	0.5
62.5°	13.6	10.3	7.0	4.9	3.3	1.6	0.5	0.0	0.0	0.0	0.0
65°	11.4	8.1	5.4	3.8	2.2	0.5	0.0	0.0	0.0	0.0	0.0
67.5°	9.8	7.0	4.3	2.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	8.7	6.0	3.3	2.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7.0	4.9	2.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	6.0	3.8	1.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.9	2.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.8	2.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	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°	763.4	763.4	763.4	763.4	763.4	763.4	763.4	763.4	763.4	763.4
2.5°	688.6	685.3	701.6	728.2	741.7	768.3	774.8	791.6	787.3	793.2
5°	569.9	576.4	600.2	639.3	653.3	691.8	728.2	764.5	787.8	799.2
7.5°	422.9	444.6	473.9	509.7	546.0	596.4	658.2	700.5	723.3	747.7
10°	315.0	338.3	371.9	407.2	466.3	522.7	584.5	637.1	656.6	679.4
12.5°	247.8	284.1	323.2	361.1	396.3	450.0	526.5	602.9	624.1	641.4
15°	172.4	216.9	272.7	322.1	371.4	418.0	497.2	589.9	618.6	647.9
17.5°	95.4	130.7	194.6	264.1	336.7	408.3	507.0	613.8	657.1	677.7
20°	55.3	69.4	114.9	197.4	293.3	387.1	511.8	658.8	716.2	726.5
22.5°	45.5	50.4	65.1	123.6	240.2	373.6	536.8	721.7	780.2	804.6
25°	39.0	42.8	50.4	74.3	181.6	344.8	552.5	800.3	854.5	881.1
27.5°	34.7	38.5	44.5	54.8	123.6	305.3	578.5	871.3	925.5	961.9
30°	30.4	33.6	39.6	46.6	85.7	260.8	600.8	923.4	999.8	1011.2
32.5°	27.1	29.8	34.2	40.1	63.4	197.9	618.6	977.0	1041.6	1066.5
35°	23.3	26.6	29.3	34.2	48.3	149.1	607.8	1018.8	1102.8	1132.7
37.5°	20.6	22.8	25.5	28.7	40.7	116.6	585.6	1068.7	1155.4	1183.1
40°	17.4	19.0	22.2	25.5	36.9	90.0	560.1	1128.9	1229.2	1278.0
42.5°	14.6	16.3	18.4	23.9	30.4	66.7	508.6	1175.5	1288.8	1330.0
45°	11.4	13.6	16.8	23.9	24.4	49.3	455.4	1210.2	1322.4	1343.0
47.5°	8.7	10.8	16.3	20.6	19.5	34.2	392.6	1249.8	1357.1	1376.1
50°	6.5	8.7	18.4	17.9	16.3	26.0	353.0	1277.4	1359.3	1369.6
52.5°	4.3	6.5	15.2	13.6	13.6	22.8	342.1	1276.3	1364.7	1342.5
55°	3.3	4.9	8.7	9.8	11.9	20.1	332.4	1317.0	1366.3	1382.1
57.5°	2.2	3.8	6.0	7.6	10.3	17.4	312.3	1365.8	1416.8	1424.9
60°	1.1	2.7	4.3	6.0	8.7	15.2	284.1	1401.6	1478.0	1486.7
62.5°	0.5	1.6	3.3	4.9	7.0	11.9	254.8	1344.7	1451.5	1466.6
65°	0.0	1.1	2.2	3.3	4.3	8.7	207.1	1214.0	1346.3	1402.1
67.5°	0.0	0.0	1.1	2.2	2.7	6.5	156.2	1104.5	1249.2	1325.1
70°	0.0	0.0	0.5	0.5	1.6	4.9	99.8	914.7	1115.3	1157.1
72.5°	0.0	0.0	0.0	0.0	0.5	3.3	58.0	679.4	874.0	951.6
75°	0.0	0.0	0.0	0.0	0.0	2.7	29.3	437.0	608.3	712.4
77.5°	0.0	0.0	0.0	0.0	0.0	2.2	15.7	281.9	448.4	535.7
80°	0.0	0.0	0.0	0.0	0.0	0.5	9.2	163.7	286.8	347.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.8	80.2	171.3	200.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	42.8	85.7	112.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	6.0	11.4
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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