

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: P677437

Luminaire Tested: **CCW-SA-1A-750-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677437
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-750-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) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

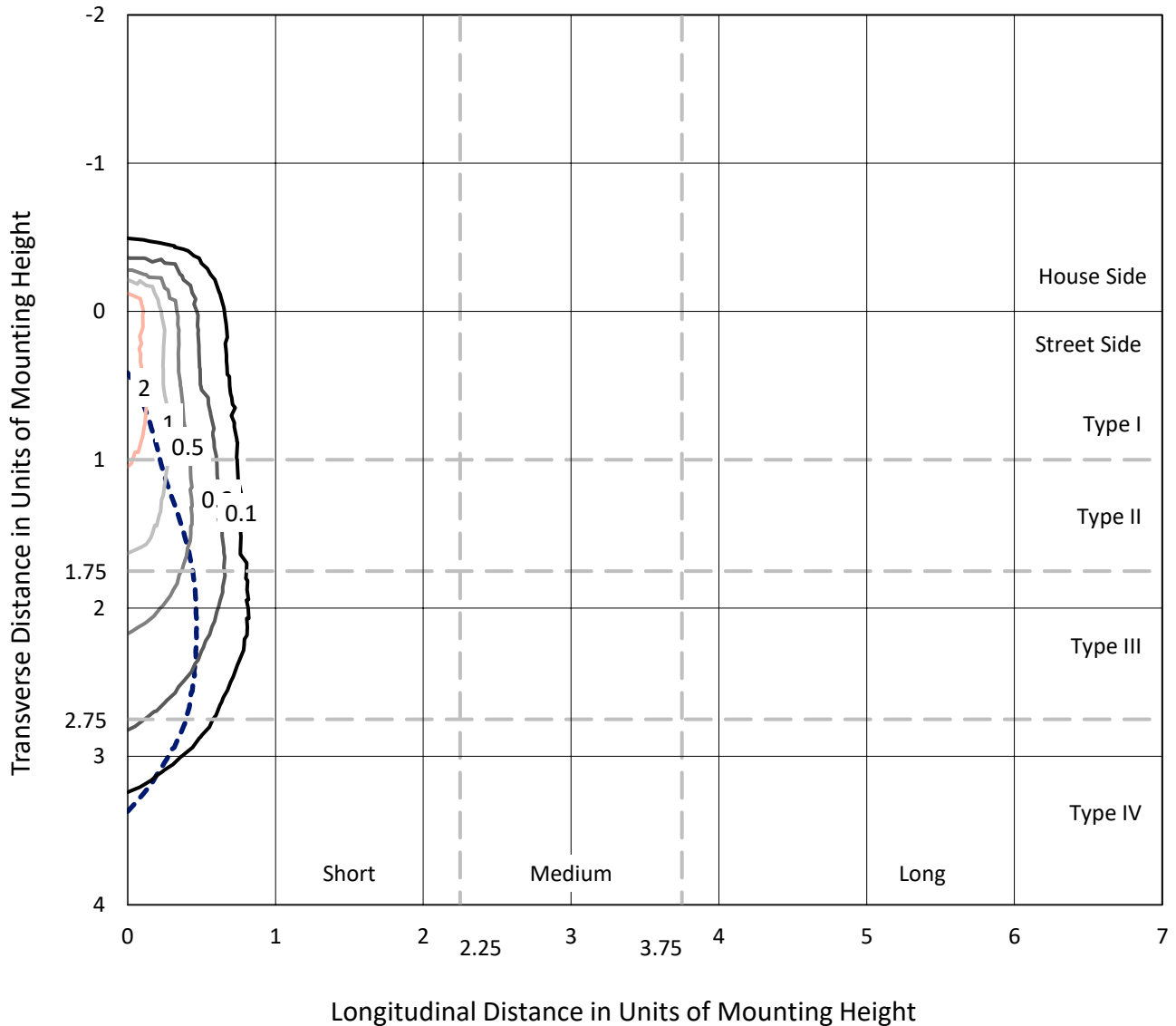
Lumens per Lamp: N/A
Luminaire Lumens: 2011.1 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

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

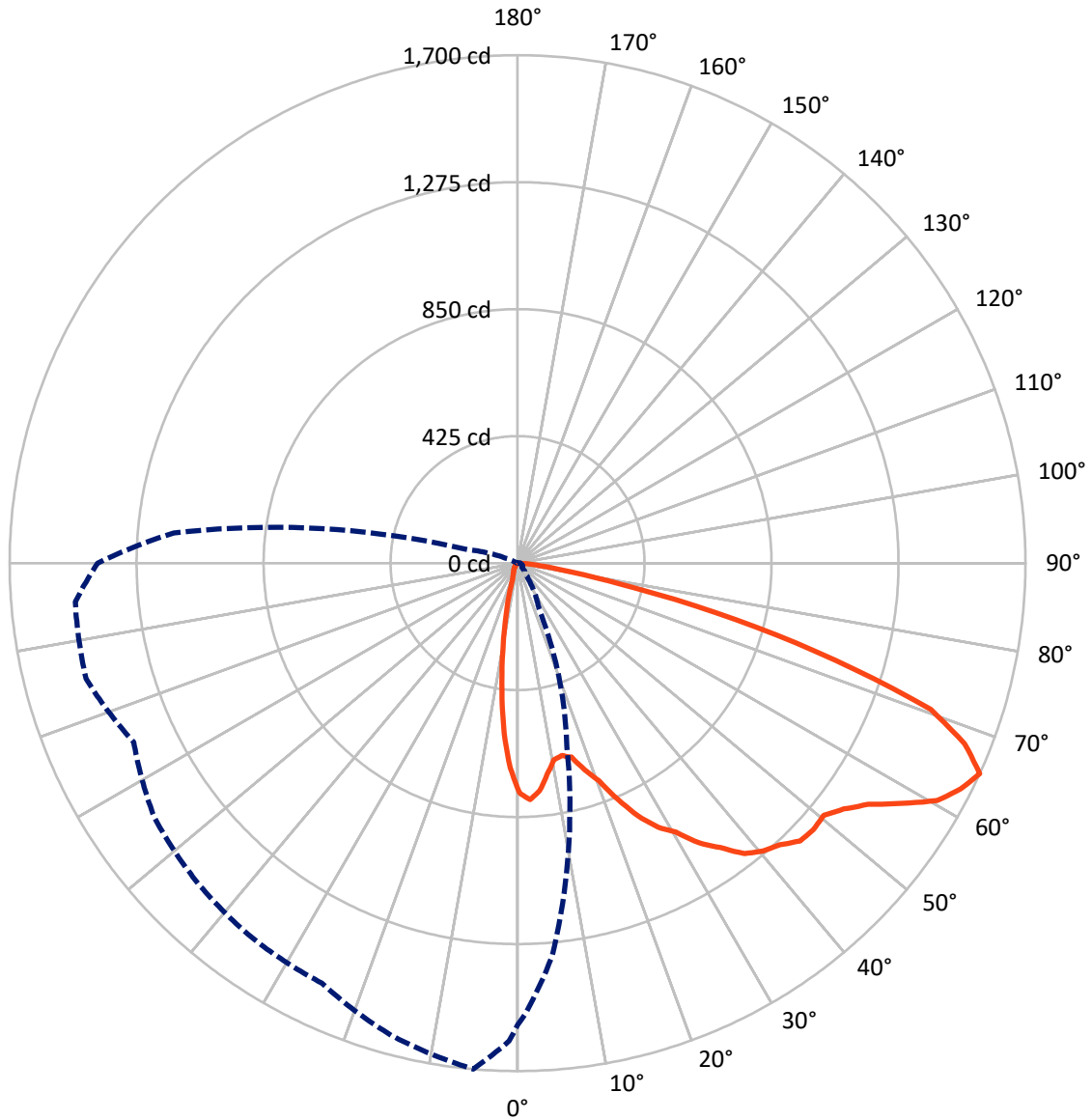
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.4 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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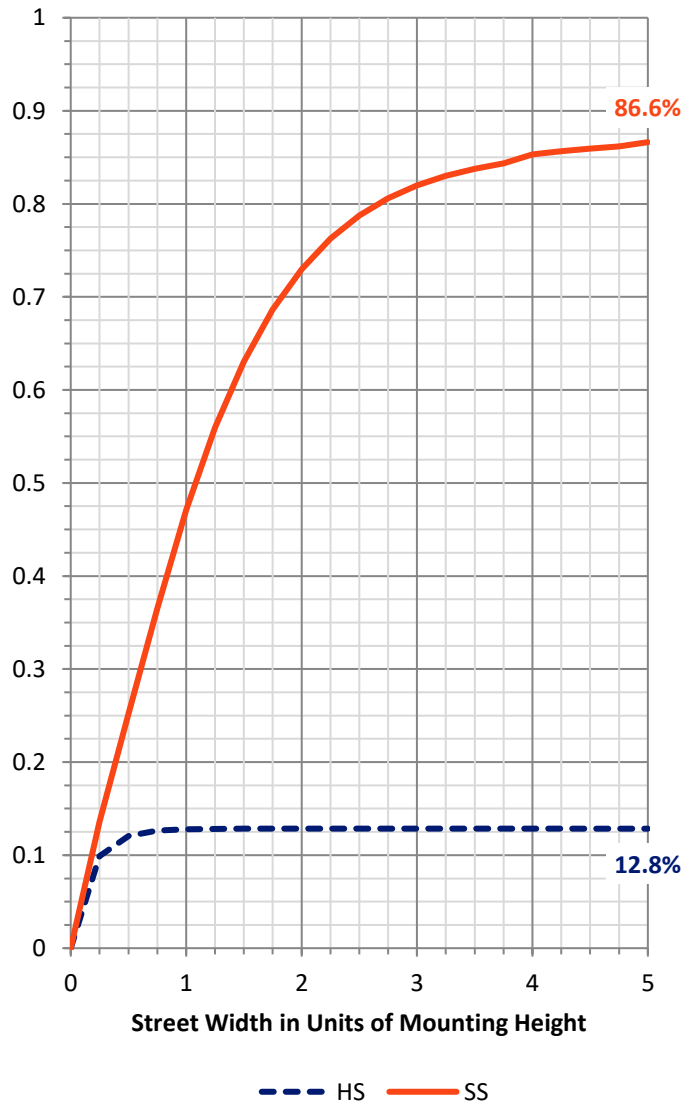
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	261.1	0.0	261.1
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	1750.0	0.0	1750.0
	% Fixture	87.0	0.0	87.0
Total	Lumens	2011.1	0.0	2011.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.2	2.9
10°-20°	112.8	5.6
20°-30°	157.1	7.8
30°-40°	223.2	11.1
40°-50°	309.5	15.4
50°-60°	421.7	21.0
60°-70°	463.6	23.1
70°-80°	227.9	11.3
80°-90°	37.2	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°	2011.1	100.0
0°-180°	2011.1	100.0



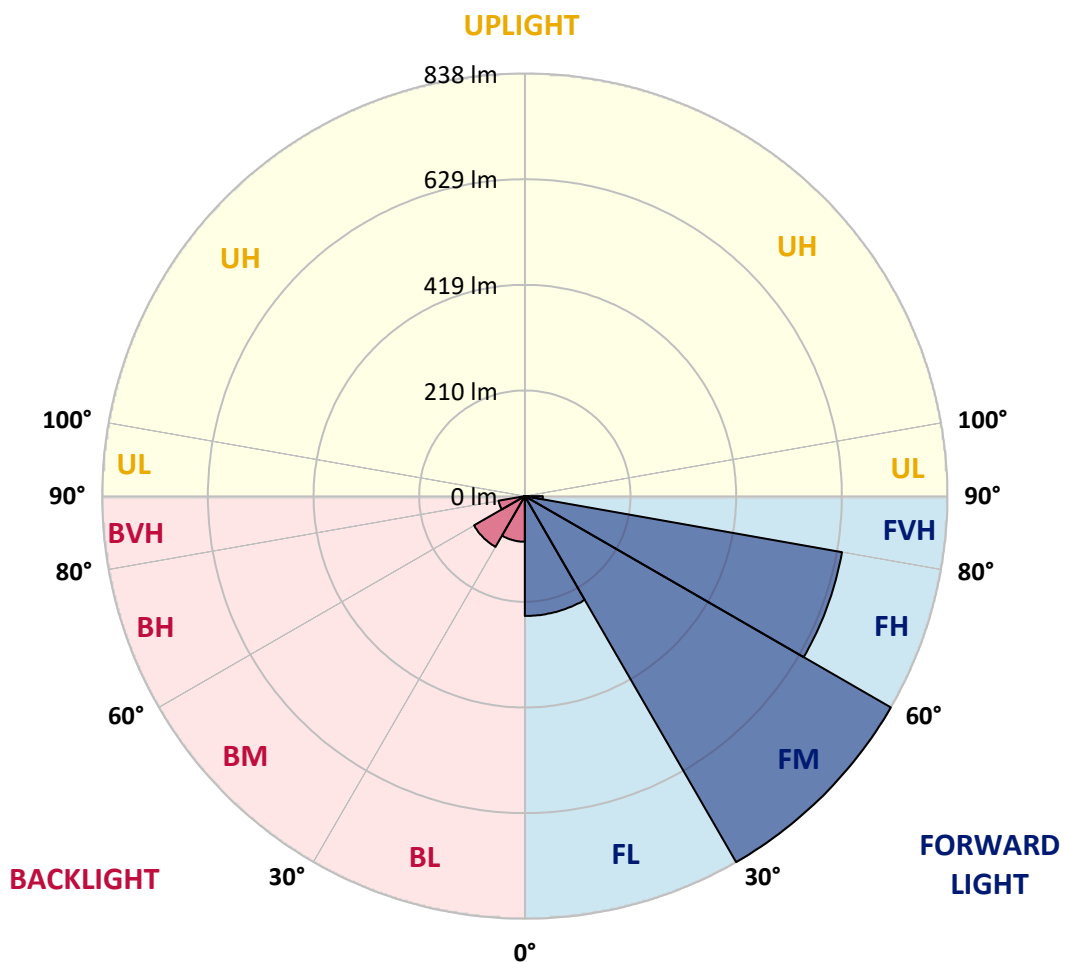
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	237.7	11.8			
FM (30°-60°)	838.1	41.7			
FH (60°-80°)	638.7	31.8			G0/660
FVH (80°-90°)	35.5	1.8			G1/100
BL (0°-30°)	90.4	4.5	B0/110		
BM (30°-60°)	116.3	5.8	B0/220		
BH (60°-80°)	52.8	2.6	B0/110		G0/110
BVH (80°-90°)	1.7	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°	768.8	768.8	768.8	768.8	768.8	768.8	768.8	768.8	768.8	768.8	768.8
2.5°	784.6	793.8	785.1	754.7	749.3	734.7	712.4	710.8	687.5	690.2	677.7
5°	737.4	746.6	728.2	688.0	650.6	620.8	602.9	570.9	563.9	548.2	548.2
7.5°	689.1	688.6	657.1	623.5	567.7	512.9	488.0	441.9	414.8	400.1	386.0
10°	649.0	640.3	620.8	551.4	490.7	433.8	402.8	372.5	344.3	319.9	295.5
12.5°	620.8	626.2	595.3	520.0	441.3	401.8	368.7	336.7	303.1	275.4	248.3
15°	635.4	626.8	590.4	512.9	433.2	379.0	335.1	296.0	258.6	222.3	201.7
17.5°	681.0	658.8	615.9	512.9	416.4	344.3	291.2	245.1	204.9	172.4	146.9
20°	742.3	716.8	670.7	531.9	403.9	318.8	246.2	188.1	146.4	116.0	96.5
22.5°	805.2	785.1	715.7	539.5	389.3	284.7	194.1	136.1	97.6	78.1	68.3
25°	880.5	852.3	776.4	569.8	367.6	251.6	152.9	94.9	72.7	62.4	56.4
27.5°	940.7	935.8	833.4	588.3	351.3	224.5	120.9	75.4	60.2	52.6	48.8
30°	1016.6	990.0	902.8	625.1	332.9	193.6	100.8	67.8	55.3	47.2	44.5
32.5°	1062.2	1049.7	939.1	645.8	312.3	168.1	86.8	59.6	50.4	44.5	41.7
35°	1128.3	1103.4	991.1	658.8	301.5	153.4	78.1	54.2	42.3	36.3	33.1
37.5°	1202.0	1192.8	1053.5	658.2	285.7	144.8	72.1	50.4	40.1	33.6	29.8
40°	1277.4	1240.0	1091.4	673.4	277.6	138.3	67.8	48.3	38.0	32.0	27.1
42.5°	1333.8	1291.0	1135.4	668.0	267.8	126.9	66.1	45.0	36.3	29.3	24.9
45°	1349.0	1333.8	1174.9	666.4	260.8	117.7	63.4	44.5	35.2	27.7	23.3
47.5°	1378.3	1368.0	1223.7	669.1	255.4	110.6	56.9	45.5	33.6	26.0	22.2
50°	1391.3	1372.8	1263.3	675.6	242.9	101.9	51.0	47.7	33.1	25.5	21.1
52.5°	1444.9	1428.7	1317.5	694.0	232.6	90.5	45.0	45.5	34.2	23.9	20.1
55°	1497.5	1479.1	1401.0	736.3	218.0	81.3	38.5	40.1	32.5	21.7	17.9
57.5°	1569.6	1539.3	1456.9	753.6	204.9	68.9	34.2	33.1	30.4	19.5	15.7
60°	1580.5	1593.0	1448.7	742.8	191.4	60.7	29.8	25.5	32.5	17.4	13.6
62.5°	1616.8	1564.8	1410.8	717.9	181.6	55.8	26.6	21.1	28.2	15.2	11.4
65°	1546.9	1508.4	1321.9	637.6	169.2	56.4	23.3	17.4	17.9	12.5	9.2
67.5°	1444.4	1414.0	1174.4	550.3	156.7	55.3	20.6	15.2	13.6	10.8	8.1
70°	1267.6	1202.0	997.6	446.8	138.3	51.5	17.4	13.6	11.4	8.7	6.0
72.5°	922.3	895.7	715.7	345.4	124.2	46.6	16.3	11.4	9.8	6.5	4.9
75°	620.8	576.9	451.6	226.6	99.8	40.7	13.6	10.3	7.6	4.9	3.8
77.5°	328.0	310.1	255.9	107.9	55.3	19.0	7.6	6.0	4.3	3.8	2.2
80°	142.1	126.3	110.6	43.9	19.5	8.7	4.9	3.3	2.7	2.2	1.1
82.5°	72.7	69.4	57.5	19.0	11.4	6.5	2.7	2.2	1.6	1.1	0.5
85°	35.8	36.9	30.4	6.0	6.5	3.8	0.5	0.5	0.0	0.0	0.0
87.5°	2.7	2.7	2.2	1.1	1.6	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°	768.8	768.8	768.8	768.8	768.8	768.8	768.8	768.8	768.8	768.8	768.8
2.5°	672.9	680.5	667.4	675.6	671.8	673.4	675.0	670.7	671.8	687.0	687.5
5°	538.9	553.6	548.2	555.7	568.8	562.3	568.2	567.1	568.2	570.4	580.1
7.5°	384.4	380.1	390.4	410.4	433.8	447.9	440.8	437.0	434.8	429.4	435.9
10°	290.1	287.9	285.2	291.2	306.3	322.1	330.7	316.1	308.0	297.7	293.9
12.5°	240.7	227.2	219.6	210.4	214.7	228.8	229.3	215.3	202.2	196.8	202.8
15°	189.8	180.6	167.0	154.0	147.5	158.3	149.1	135.5	118.7	116.6	116.0
17.5°	135.5	130.1	120.4	114.9	107.4	104.6	94.9	74.3	62.4	59.1	60.2
20°	92.2	87.8	87.3	82.4	79.2	77.0	61.3	47.7	43.9	44.5	45.0
22.5°	68.3	66.1	63.4	62.9	60.2	57.5	45.0	40.1	37.4	37.4	39.0
25°	55.8	54.8	52.1	51.0	49.9	46.1	38.0	34.2	33.1	32.0	33.6
27.5°	47.7	47.2	45.5	43.9	42.8	39.0	33.1	29.8	28.7	28.7	28.7
30°	42.8	42.8	40.7	37.4	37.4	33.1	28.2	26.0	24.9	24.9	24.4
32.5°	40.1	39.0	36.3	34.2	32.5	28.2	24.9	22.8	21.1	21.1	21.7
35°	32.5	32.5	32.0	30.4	28.2	23.9	21.1	19.0	17.9	17.4	17.9
37.5°	28.7	27.1	24.9	25.5	24.4	20.6	17.9	16.3	14.6	14.6	14.6
40°	26.0	24.4	22.2	20.6	20.1	18.4	15.7	13.0	11.4	10.8	10.8
42.5°	23.3	22.2	19.0	16.3	15.7	15.7	11.9	9.8	8.1	8.1	8.1
45°	21.7	20.1	17.4	14.1	11.4	11.9	9.8	7.0	6.0	5.4	5.4
47.5°	20.6	19.0	15.2	11.9	8.7	8.7	7.0	4.9	3.8	3.3	3.3
50°	19.0	17.4	13.6	9.8	6.5	5.4	4.3	2.7	1.6	1.1	1.1
52.5°	17.9	16.3	11.9	8.1	5.4	3.8	2.7	0.5	0.0	0.0	0.0
55°	16.3	14.1	10.3	6.5	4.3	2.2	0.5	0.0	0.0	0.0	0.0
57.5°	14.1	12.5	8.1	4.9	2.7	0.5	0.0	0.0	0.0	0.0	0.0
60°	11.9	10.3	6.5	3.8	1.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	9.8	8.7	4.9	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8.1	6.5	3.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7.0	5.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	5.4	3.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3.8	2.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1.6	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°	768.8	768.8	768.8	768.8	768.8	768.8	768.8	768.8	768.8	768.8	768.8
2.5°	689.7	705.9	721.1	725.5	737.4	770.5	770.5	786.2	814.4	824.7	826.8
5°	581.8	599.1	602.4	636.0	651.7	685.3	707.6	760.7	792.7	812.7	825.2
7.5°	442.4	448.4	460.9	492.3	523.2	563.9	606.2	673.9	730.3	753.1	795.4
10°	304.2	322.1	349.2	377.4	425.6	470.6	525.4	589.4	658.8	687.0	723.3
12.5°	204.9	229.9	273.3	313.4	357.8	403.4	455.4	541.1	619.7	658.8	695.1
15°	119.8	150.2	187.6	252.7	311.8	362.7	414.8	501.5	597.0	647.4	691.8
17.5°	60.7	69.9	100.8	157.2	235.3	318.8	396.3	507.0	614.3	676.1	713.0
20°	45.5	48.3	56.9	83.5	161.0	263.5	379.0	515.1	662.6	737.9	758.0
22.5°	39.6	41.7	45.5	54.2	90.5	201.7	354.6	535.1	728.2	799.2	841.5
25°	33.6	35.8	39.0	44.5	58.0	137.2	324.8	556.3	786.7	876.2	915.8
27.5°	29.3	30.9	34.2	38.5	47.2	87.3	273.3	584.5	876.2	969.4	979.7
30°	24.9	26.6	29.3	34.2	40.1	61.8	200.6	588.3	925.5	1010.1	1038.8
32.5°	21.7	22.2	25.5	29.8	33.6	48.8	141.0	592.1	961.8	1062.7	1068.7
35°	17.9	19.0	22.2	24.9	29.3	38.5	106.8	573.1	1009.0	1116.9	1115.3
37.5°	14.6	16.3	18.4	20.6	23.9	32.5	85.1	537.9	1068.1	1201.0	1150.0
40°	11.4	13.0	15.2	17.9	20.1	29.3	64.0	484.7	1129.9	1242.2	1187.9
42.5°	8.1	9.2	11.4	14.1	17.9	24.4	46.1	421.8	1154.3	1290.4	1233.5
45°	6.0	7.0	8.7	11.9	18.4	19.5	32.0	364.4	1180.4	1311.6	1223.2
47.5°	3.3	4.3	6.5	10.3	16.3	14.6	22.8	312.8	1210.2	1330.5	1231.3
50°	1.1	1.6	3.8	10.8	13.0	11.4	17.9	285.2	1239.5	1334.3	1247.6
52.5°	0.0	0.0	2.2	11.4	9.8	8.7	15.7	274.3	1231.9	1346.3	1237.3
55°	0.0	0.0	0.5	4.9	5.4	6.5	13.0	273.8	1285.5	1350.1	1293.7
57.5°	0.0	0.0	0.0	1.6	3.3	5.4	11.4	256.5	1319.7	1444.4	1369.6
60°	0.0	0.0	0.0	0.5	2.2	3.8	8.7	241.3	1354.4	1486.7	1450.9
62.5°	0.0	0.0	0.0	0.0	0.5	1.6	6.0	218.0	1284.5	1483.4	1529.5
65°	0.0	0.0	0.0	0.0	0.0	0.0	3.8	172.4	1155.4	1405.9	1486.1
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	119.3	1011.7	1308.3	1406.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.1	816.5	1147.3	1192.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.9	582.9	910.9	978.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	360.6	665.8	749.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	233.7	504.2	568.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	124.7	316.1	367.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.2	191.9	221.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.4	116.6	132.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.9	23.9
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°	768.8	768.8	768.8	768.8	768.8	768.8	768.8	768.8	768.8	768.8
2.5°	827.9	843.7	849.6	840.4	841.5	822.5	819.8	793.2	782.4	784.6
5°	865.9	888.7	901.1	890.8	867.5	831.2	798.1	766.7	747.1	737.4
7.5°	857.2	882.7	898.4	908.2	881.6	823.0	772.6	713.5	688.6	689.1
10°	809.5	862.6	894.6	882.1	869.7	811.1	733.0	669.1	646.8	649.0
12.5°	771.0	830.1	849.1	858.8	833.4	786.7	734.1	660.9	636.0	620.8
15°	747.1	791.1	792.1	807.3	797.0	797.0	745.5	673.9	652.3	635.4
17.5°	747.1	756.9	755.8	761.2	778.6	799.2	774.3	726.5	683.7	681.0
20°	763.9	733.6	726.5	728.7	743.3	804.6	837.7	778.0	750.9	742.3
22.5°	803.0	736.3	693.5	685.9	730.9	804.1	878.4	859.4	812.2	805.2
25°	856.7	731.4	684.8	675.0	709.2	823.6	934.2	938.0	895.2	880.5
27.5°	907.6	753.1	683.7	681.5	726.5	819.3	972.7	1000.9	952.6	940.7
30°	925.0	774.8	703.8	675.0	733.0	835.0	971.6	1045.3	1013.9	1016.6
32.5°	945.6	796.5	705.9	694.5	760.7	860.5	1002.5	1116.9	1094.1	1062.2
35°	975.9	825.8	726.5	716.2	780.2	883.2	1009.0	1169.5	1165.7	1128.3
37.5°	1002.0	854.5	769.4	771.0	839.9	920.1	1037.8	1234.0	1227.5	1202.0
40°	1020.4	894.6	836.1	840.4	891.9	961.3	1088.7	1266.6	1314.8	1277.4
42.5°	1023.1	930.4	912.5	947.2	995.5	1025.3	1109.3	1288.8	1358.2	1333.8
45°	1033.4	987.3	1037.2	1062.7	1102.3	1081.7	1108.2	1326.7	1361.4	1349.0
47.5°	1073.5	1090.9	1153.8	1231.3	1245.4	1177.6	1134.3	1332.7	1379.9	1378.3
50°	1115.3	1202.0	1290.4	1341.9	1359.8	1243.8	1158.7	1327.8	1404.3	1391.3
52.5°	1161.9	1298.6	1426.0	1489.4	1479.6	1317.0	1186.3	1367.4	1449.3	1444.9
55°	1191.2	1341.9	1513.3	1601.6	1594.0	1398.9	1274.2	1424.3	1508.4	1497.5
57.5°	1268.7	1412.4	1600.0	1641.2	1661.3	1506.2	1335.4	1517.6	1557.7	1569.6
60°	1332.7	1458.5	1622.8	1682.4	1689.5	1570.2	1442.8	1613.6	1620.6	1580.5
62.5°	1426.5	1476.4	1574.5	1628.2	1664.5	1606.5	1539.3	1665.1	1619.5	1616.8
65°	1495.4	1417.8	1484.5	1514.3	1537.7	1551.2	1636.3	1700.3	1599.5	1546.9
67.5°	1456.9	1307.2	1294.8	1296.4	1303.4	1385.3	1603.8	1614.1	1487.8	1444.4
70°	1282.3	1072.5	1055.6	1068.7	1033.4	1132.1	1472.1	1467.2	1312.6	1267.6
72.5°	1037.2	781.8	753.1	771.0	779.1	883.8	1238.4	1112.6	957.5	922.3
75°	824.1	573.1	483.6	527.0	554.7	643.6	967.3	755.8	668.5	620.8
77.5°	647.4	433.8	376.3	358.9	384.4	467.9	703.8	396.9	350.3	328.0
80°	410.4	318.8	345.9	321.0	331.8	334.0	366.5	180.6	143.7	142.1
82.5°	247.2	218.0	259.2	142.6	259.7	232.1	152.4	81.9	72.7	72.7
85°	175.1	135.0	89.5	58.0	115.5	127.4	59.1	42.3	36.9	35.8
87.5°	87.8	41.7	20.1	13.0	14.6	23.9	7.0	3.3	3.3	2.7
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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