

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: P677405

Luminaire Tested: **CCW-SA-1B-730-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677405
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-730-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
SLR distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

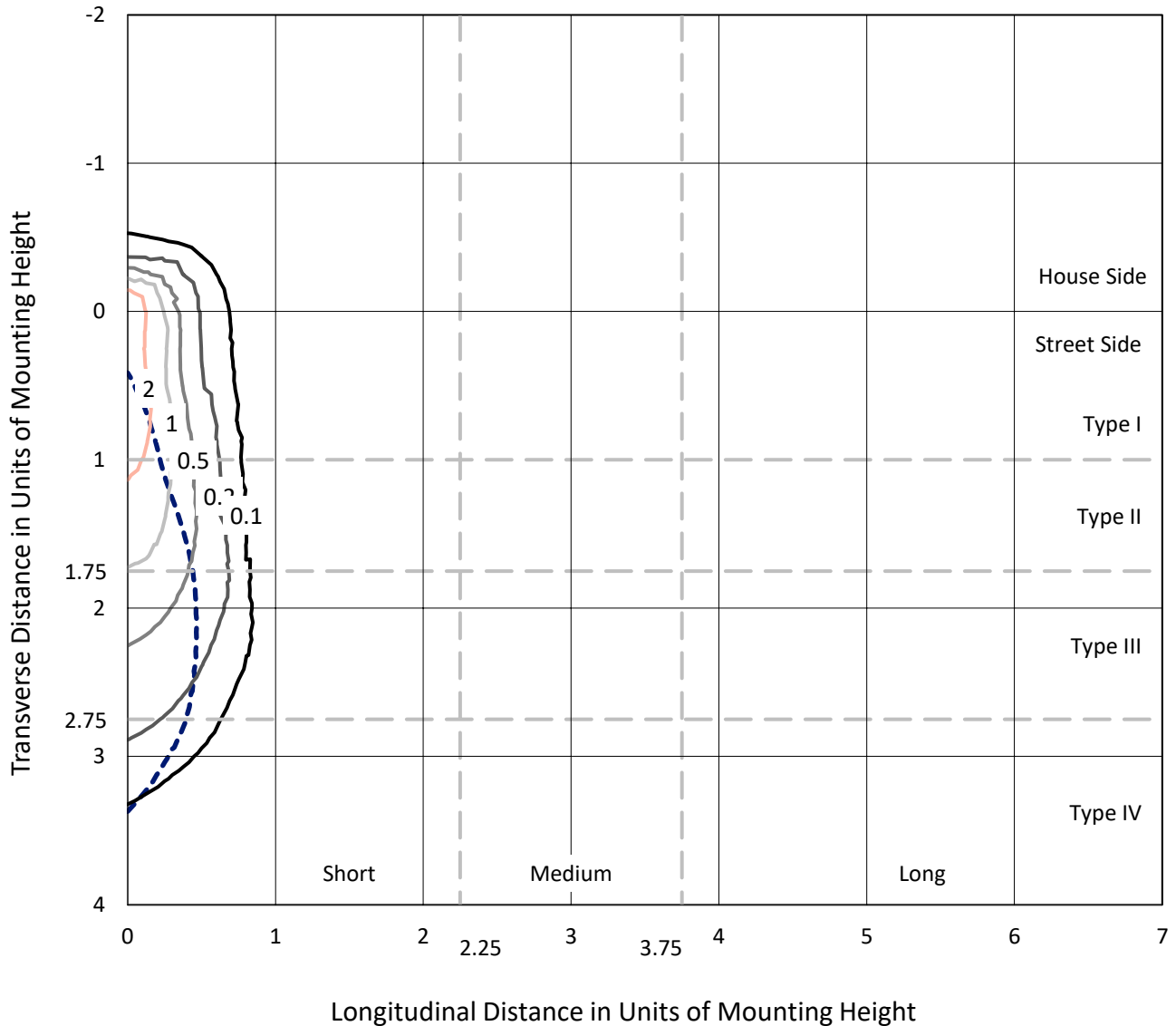
Lumens per Lamp: N/A
Luminaire Lumens: 2260 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 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

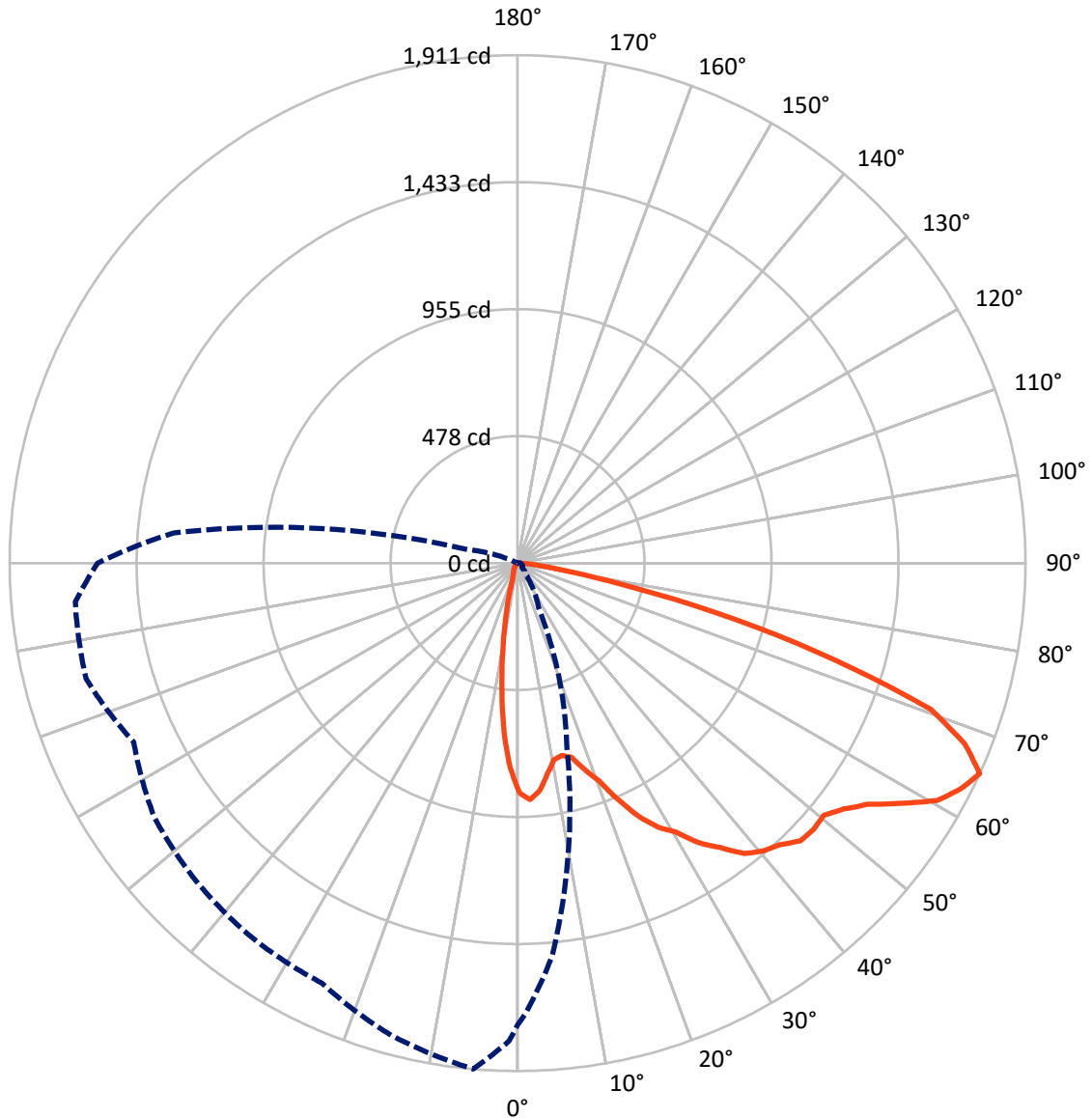
× Max cd
 - - - 1/2 Max cd



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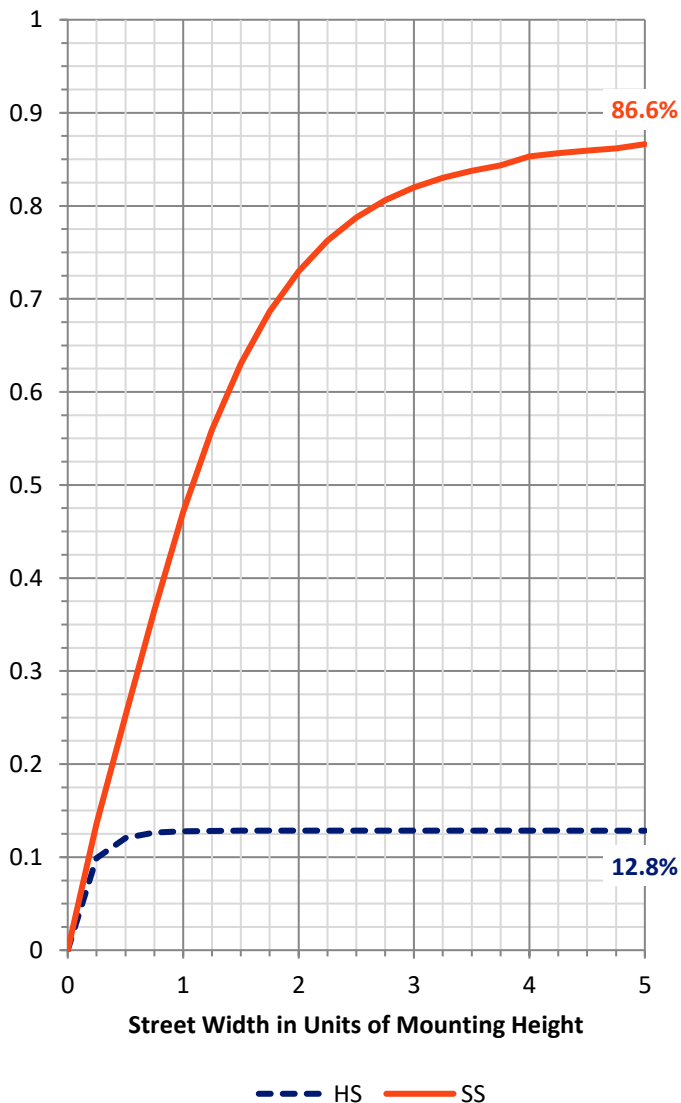
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	293.4	0.0	293.4
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	1966.6	0.0	1966.6
	% Fixture	87.0	0.0	87.0
Total	Lumens	2260.0	0.0	2260.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.4	2.9
10°-20°	126.7	5.6
20°-30°	176.5	7.8
30°-40°	250.8	11.1
40°-50°	347.8	15.4
50°-60°	473.9	21.0
60°-70°	521.0	23.1
70°-80°	256.1	11.3
80°-90°	41.8	1.8
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°	2260.0	100.0
0°-180°	2260.0	100.0



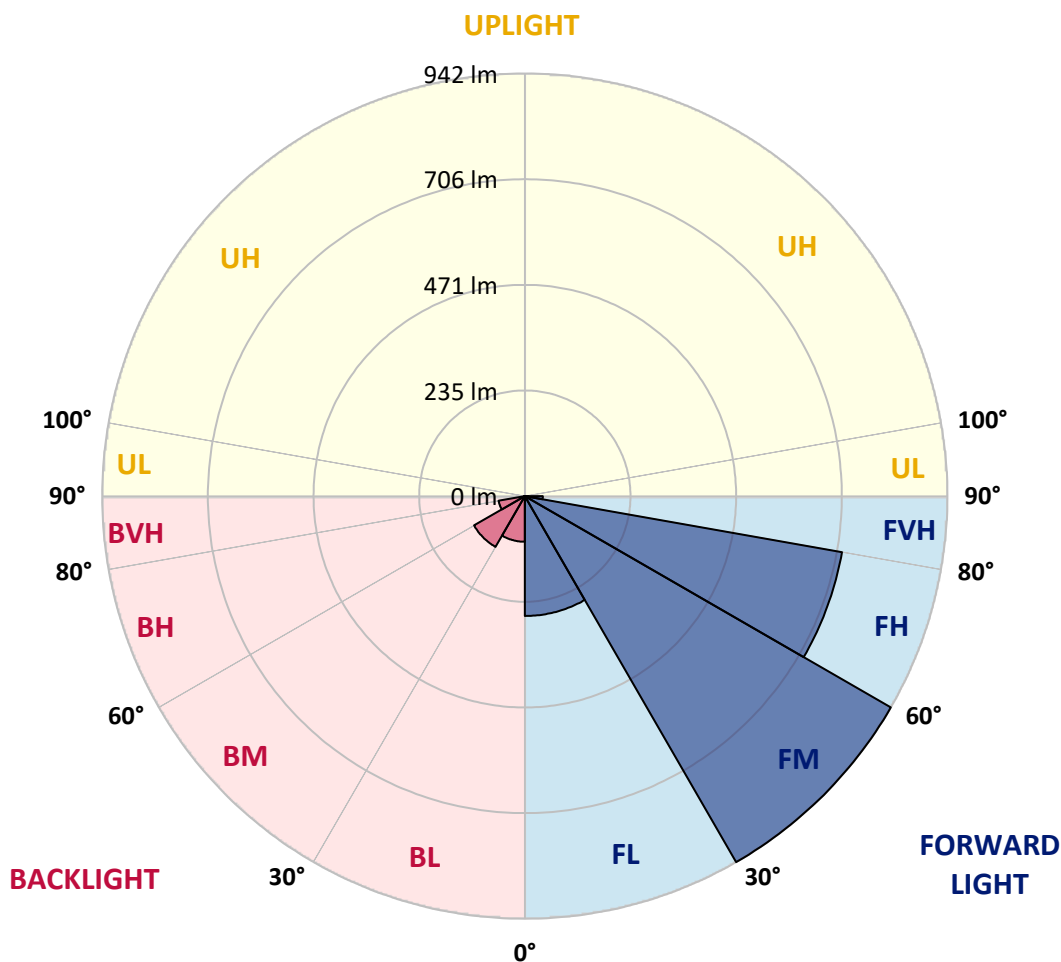
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	267.1	11.8			
FM (30°-60°)	941.8	41.7			
FH (60°-80°)	717.7	31.8			G1/1800
FVH (80°-90°)	39.9	1.8			G1/100
BL (0°-30°)	101.6	4.5	B0/110		
BM (30°-60°)	130.6	5.8	B0/220		
BH (60°-80°)	59.3	2.6	B0/110		G0/110
BVH (80°-90°)	1.9	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°	864.0	864.0	864.0	864.0	864.0	864.0	864.0	864.0	864.0	864.0	864.0
2.5°	881.7	892.0	882.3	848.2	842.1	825.6	800.6	798.8	772.6	775.6	761.6
5°	828.7	839.0	818.3	773.2	731.2	697.7	677.5	641.6	633.7	616.0	616.0
7.5°	774.4	773.8	738.5	700.7	637.9	576.4	548.4	496.6	466.1	449.7	433.8
10°	729.3	719.6	697.7	619.7	551.4	487.4	452.7	418.6	386.9	359.5	332.1
12.5°	697.7	703.7	669.0	584.3	496.0	451.5	414.3	378.4	340.6	309.5	279.1
15°	714.1	704.4	663.5	576.4	486.8	425.9	376.5	332.7	290.6	249.8	226.7
17.5°	765.3	740.3	692.2	576.4	467.9	386.9	327.2	275.4	230.3	193.8	165.1
20°	834.1	805.5	753.7	597.7	453.9	358.3	276.6	211.4	164.5	130.4	108.5
22.5°	904.8	882.3	804.3	606.3	437.5	319.9	218.1	152.9	109.7	87.7	76.8
25°	989.5	957.8	872.5	640.4	413.1	282.7	171.8	106.6	81.6	70.1	63.4
27.5°	1057.1	1051.7	936.5	661.1	394.8	252.3	135.9	84.7	67.6	59.1	54.8
30°	1142.4	1112.6	1014.5	702.5	374.1	217.5	113.3	76.2	62.1	53.0	50.0
32.5°	1193.6	1179.6	1055.3	725.7	351.0	188.9	97.5	67.0	56.7	50.0	46.9
35°	1268.0	1239.9	1113.8	740.3	338.8	172.4	87.7	60.9	47.5	40.8	37.2
37.5°	1350.8	1340.5	1183.9	739.7	321.1	162.7	81.0	56.7	45.1	37.8	33.5
40°	1435.5	1393.5	1226.5	756.8	312.0	155.4	76.2	54.2	42.7	35.9	30.5
42.5°	1498.9	1450.8	1275.9	750.7	301.0	142.6	74.3	50.6	40.8	32.9	28.0
45°	1515.9	1498.9	1320.4	748.8	293.1	132.2	71.3	50.0	39.6	31.1	26.2
47.5°	1548.8	1537.3	1375.2	751.9	287.0	124.3	64.0	51.2	37.8	29.2	25.0
50°	1563.5	1542.8	1419.7	759.2	273.0	114.5	57.3	53.6	37.2	28.6	23.8
52.5°	1623.8	1605.5	1480.6	779.9	261.4	101.8	50.6	51.2	38.4	26.8	22.5
55°	1682.9	1662.2	1574.4	827.4	244.9	91.4	43.3	45.1	36.6	24.4	20.1
57.5°	1763.9	1729.8	1637.2	846.9	230.3	77.4	38.4	37.2	34.1	21.9	17.7
60°	1776.1	1790.1	1628.1	834.7	215.1	68.2	33.5	28.6	36.6	19.5	15.2
62.5°	1816.9	1758.5	1585.4	806.7	204.1	62.8	29.9	23.8	31.7	17.1	12.8
65°	1738.3	1695.1	1485.5	716.5	190.1	63.4	26.2	19.5	20.1	14.0	10.4
67.5°	1623.2	1589.1	1319.8	618.4	176.1	62.1	23.2	17.1	15.2	12.2	9.1
70°	1424.6	1350.8	1121.1	502.1	155.4	57.9	19.5	15.2	12.8	9.7	6.7
72.5°	1036.4	1006.6	804.3	388.1	139.5	52.4	18.3	12.8	11.0	7.3	5.5
75°	697.7	648.3	507.5	254.7	112.1	45.7	15.2	11.6	8.5	5.5	4.3
77.5°	368.6	348.5	287.6	121.3	62.1	21.3	8.5	6.7	4.9	4.3	2.4
80°	159.6	142.0	124.3	49.4	21.9	9.7	5.5	3.7	3.0	2.4	1.2
82.5°	81.6	78.0	64.6	21.3	12.8	7.3	3.0	2.4	1.8	1.2	0.6
85°	40.2	41.4	34.1	6.7	7.3	4.3	0.6	0.6	0.0	0.0	0.0
87.5°	3.0	3.0	2.4	1.2	1.8	0.6	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°	864.0	864.0	864.0	864.0	864.0	864.0	864.0	864.0	864.0	864.0	864.0
2.5°	756.1	764.7	750.1	759.2	754.9	756.8	758.6	753.7	754.9	772.0	772.6
5°	605.6	622.1	616.0	624.5	639.2	631.8	638.6	637.3	638.6	641.0	652.0
7.5°	432.0	427.1	438.7	461.2	487.4	503.3	495.4	491.1	488.7	482.6	489.9
10°	326.0	323.5	320.5	327.2	344.3	361.9	371.7	355.2	346.1	334.5	330.2
12.5°	270.5	255.3	246.8	236.4	241.3	257.1	257.7	241.9	227.3	221.2	227.9
15°	213.3	202.9	187.7	173.0	165.7	177.9	167.6	152.3	133.4	131.0	130.4
17.5°	152.3	146.2	135.3	129.2	120.6	117.6	106.6	83.5	70.1	66.4	67.6
20°	103.6	98.7	98.1	92.6	89.0	86.5	68.9	53.6	49.4	50.0	50.6
22.5°	76.8	74.3	71.3	70.7	67.6	64.6	50.6	45.1	42.0	42.0	43.9
25°	62.8	61.5	58.5	57.3	56.1	51.8	42.7	38.4	37.2	35.9	37.8
27.5°	53.6	53.0	51.2	49.4	48.1	43.9	37.2	33.5	32.3	32.3	32.3
30°	48.1	48.1	45.7	42.0	42.0	37.2	31.7	29.2	28.0	28.0	27.4
32.5°	45.1	43.9	40.8	38.4	36.6	31.7	28.0	25.6	23.8	23.8	24.4
35°	36.6	36.6	35.9	34.1	31.7	26.8	23.8	21.3	20.1	19.5	20.1
37.5°	32.3	30.5	28.0	28.6	27.4	23.2	20.1	18.3	16.5	16.5	16.5
40°	29.2	27.4	25.0	23.2	22.5	20.7	17.7	14.6	12.8	12.2	12.2
42.5°	26.2	25.0	21.3	18.3	17.7	17.7	13.4	11.0	9.1	9.1	9.1
45°	24.4	22.5	19.5	15.8	12.8	13.4	11.0	7.9	6.7	6.1	6.1
47.5°	23.2	21.3	17.1	13.4	9.7	9.7	7.9	5.5	4.3	3.7	3.7
50°	21.3	19.5	15.2	11.0	7.3	6.1	4.9	3.0	1.8	1.2	1.2
52.5°	20.1	18.3	13.4	9.1	6.1	4.3	3.0	0.6	0.0	0.0	0.0
55°	18.3	15.8	11.6	7.3	4.9	2.4	0.6	0.0	0.0	0.0	0.0
57.5°	15.8	14.0	9.1	5.5	3.0	0.6	0.0	0.0	0.0	0.0	0.0
60°	13.4	11.6	7.3	4.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	11.0	9.7	5.5	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	9.1	7.3	4.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7.9	6.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	6.1	4.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4.3	3.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.6	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°	864.0	864.0	864.0	864.0	864.0	864.0	864.0	864.0	864.0	864.0	864.0
2.5°	775.0	793.3	810.4	815.2	828.7	865.8	865.8	883.5	915.2	926.8	929.2
5°	653.8	673.3	676.9	714.7	732.4	770.2	795.1	854.9	890.8	913.3	927.4
7.5°	497.2	503.9	517.9	553.2	588.0	633.7	681.2	757.4	820.7	846.3	893.8
10°	341.8	361.9	392.4	424.1	478.3	528.9	590.4	662.3	740.3	772.0	812.8
12.5°	230.3	258.3	307.1	352.2	402.1	453.3	511.8	608.1	696.4	740.3	781.1
15°	134.7	168.8	210.8	283.9	350.3	407.6	466.1	563.6	670.8	727.5	777.5
17.5°	68.2	78.6	113.3	176.7	264.4	358.3	445.4	569.7	690.3	759.8	801.2
20°	51.2	54.2	64.0	93.8	181.0	296.1	425.9	578.8	744.6	829.3	851.8
22.5°	44.5	46.9	51.2	60.9	101.8	226.7	398.5	601.4	818.3	898.1	945.6
25°	37.8	40.2	43.9	50.0	65.2	154.2	365.0	625.1	884.1	984.6	1029.1
27.5°	32.9	34.7	38.4	43.3	53.0	98.1	307.1	656.8	984.6	1089.4	1101.0
30°	28.0	29.9	32.9	38.4	45.1	69.5	225.4	661.1	1040.1	1135.1	1167.4
32.5°	24.4	25.0	28.6	33.5	37.8	54.8	158.4	665.4	1080.9	1194.2	1200.9
35°	20.1	21.3	25.0	28.0	32.9	43.3	120.0	644.0	1133.9	1255.2	1253.3
37.5°	16.5	18.3	20.7	23.2	26.8	36.6	95.7	604.4	1200.3	1349.6	1292.3
40°	12.8	14.6	17.1	20.1	22.5	32.9	71.9	544.7	1269.8	1395.9	1335.0
42.5°	9.1	10.4	12.8	15.8	20.1	27.4	51.8	474.0	1297.2	1450.1	1386.2
45°	6.7	7.9	9.7	13.4	20.7	21.9	35.9	409.5	1326.5	1473.9	1374.6
47.5°	3.7	4.9	7.3	11.6	18.3	16.5	25.6	351.6	1360.0	1495.2	1383.7
50°	1.2	1.8	4.3	12.2	14.6	12.8	20.1	320.5	1392.9	1499.5	1402.0
52.5°	0.0	0.0	2.4	12.8	11.0	9.7	17.7	308.3	1384.3	1512.9	1390.4
55°	0.0	0.0	0.6	5.5	6.1	7.3	14.6	307.7	1444.7	1517.2	1453.8
57.5°	0.0	0.0	0.0	1.8	3.7	6.1	12.8	288.2	1483.0	1623.2	1539.1
60°	0.0	0.0	0.0	0.6	2.4	4.3	9.7	271.1	1522.0	1670.7	1630.5
62.5°	0.0	0.0	0.0	0.0	0.6	1.8	6.7	244.9	1443.4	1667.1	1718.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	4.3	193.8	1298.4	1579.9	1670.1
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.4	134.0	1137.0	1470.2	1580.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	81.0	917.6	1289.3	1340.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.7	655.0	1023.6	1099.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	405.2	748.2	842.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	262.6	566.7	639.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	140.1	355.2	413.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.9	215.7	248.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.5	131.0	149.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.1	26.8
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°	864.0	864.0	864.0	864.0	864.0	864.0	864.0	864.0	864.0	864.0
2.5°	930.4	948.1	954.8	944.4	945.6	924.3	921.3	891.4	879.2	881.7
5°	973.1	998.6	1012.7	1001.1	974.9	934.1	896.9	861.6	839.6	828.7
7.5°	963.3	991.9	1009.6	1020.6	990.7	924.9	868.3	801.8	773.8	774.4
10°	909.7	969.4	1005.4	991.3	977.3	911.5	823.8	751.9	726.9	729.3
12.5°	866.4	932.8	954.2	965.1	936.5	884.1	825.0	742.7	714.7	697.7
15°	839.6	889.0	890.2	907.3	895.7	895.7	837.8	757.4	733.0	714.1
17.5°	839.6	850.6	849.4	855.5	875.0	898.1	870.1	816.5	768.3	765.3
20°	858.5	824.4	816.5	818.9	835.4	904.2	941.4	874.4	843.9	834.1
22.5°	902.4	827.4	779.3	770.8	821.3	903.6	987.1	965.7	912.7	904.8
25°	962.7	822.0	769.6	758.6	797.0	925.5	1049.8	1054.1	1006.0	989.5
27.5°	1020.0	846.3	768.3	765.9	816.5	920.7	1093.1	1124.8	1070.5	1057.1
30°	1039.5	870.7	790.9	758.6	823.8	938.3	1091.9	1174.7	1139.4	1142.4
32.5°	1062.6	895.1	793.3	780.5	854.9	967.0	1126.6	1255.2	1229.6	1193.6
35°	1096.7	928.0	816.5	804.9	876.8	992.6	1133.9	1314.3	1310.0	1268.0
37.5°	1126.0	960.3	864.6	866.4	943.8	1034.0	1166.2	1386.8	1379.5	1350.8
40°	1146.7	1005.4	939.5	944.4	1002.3	1080.3	1223.5	1423.3	1477.6	1435.5
42.5°	1149.8	1045.6	1025.5	1064.5	1118.7	1152.2	1246.6	1448.3	1526.3	1498.9
45°	1161.3	1109.5	1165.6	1194.2	1238.7	1215.6	1245.4	1491.0	1530.0	1515.9
47.5°	1206.4	1225.9	1296.6	1383.7	1399.6	1323.4	1274.7	1497.7	1550.7	1548.8
50°	1253.3	1350.8	1450.1	1508.0	1528.1	1397.7	1302.1	1492.2	1578.1	1563.5
52.5°	1305.7	1459.3	1602.5	1673.8	1662.8	1480.0	1333.2	1536.7	1628.7	1623.8
55°	1338.6	1508.0	1700.6	1799.9	1791.4	1572.0	1431.9	1600.6	1695.1	1682.9
57.5°	1425.8	1587.2	1798.1	1844.4	1866.9	1692.6	1500.7	1705.4	1750.5	1763.9
60°	1497.7	1639.0	1823.6	1890.7	1898.6	1764.5	1621.4	1813.3	1821.2	1776.1
62.5°	1603.1	1659.1	1769.4	1829.7	1870.6	1805.4	1729.8	1871.2	1820.0	1816.9
65°	1680.5	1593.3	1668.3	1701.8	1728.0	1743.2	1838.9	1910.8	1797.4	1738.3
67.5°	1637.2	1469.0	1455.0	1456.8	1464.8	1556.8	1802.3	1813.9	1671.9	1623.2
70°	1441.0	1205.2	1186.3	1200.9	1161.3	1272.2	1654.3	1648.8	1475.1	1424.6
72.5°	1165.6	878.6	846.3	866.4	875.6	993.2	1391.6	1250.3	1076.0	1036.4
75°	926.1	644.0	543.5	592.2	623.3	723.2	1087.0	849.4	751.3	697.7
77.5°	727.5	487.4	422.9	403.4	432.0	525.8	790.9	446.0	393.6	368.6
80°	461.2	358.3	388.7	360.7	372.9	375.3	411.9	202.9	161.5	159.6
82.5°	277.8	244.9	291.2	160.2	291.9	260.8	171.2	92.0	81.6	81.6
85°	196.8	151.7	100.5	65.2	129.8	143.2	66.4	47.5	41.4	40.2
87.5°	98.7	46.9	22.5	14.6	16.5	26.8	7.9	3.7	3.7	3.0
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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