

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: P676297

Luminaire Tested: **CCW-SA-1B-760-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676297
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-760-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
T2 distribution lens and House Side Shield
Light Source: (16) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

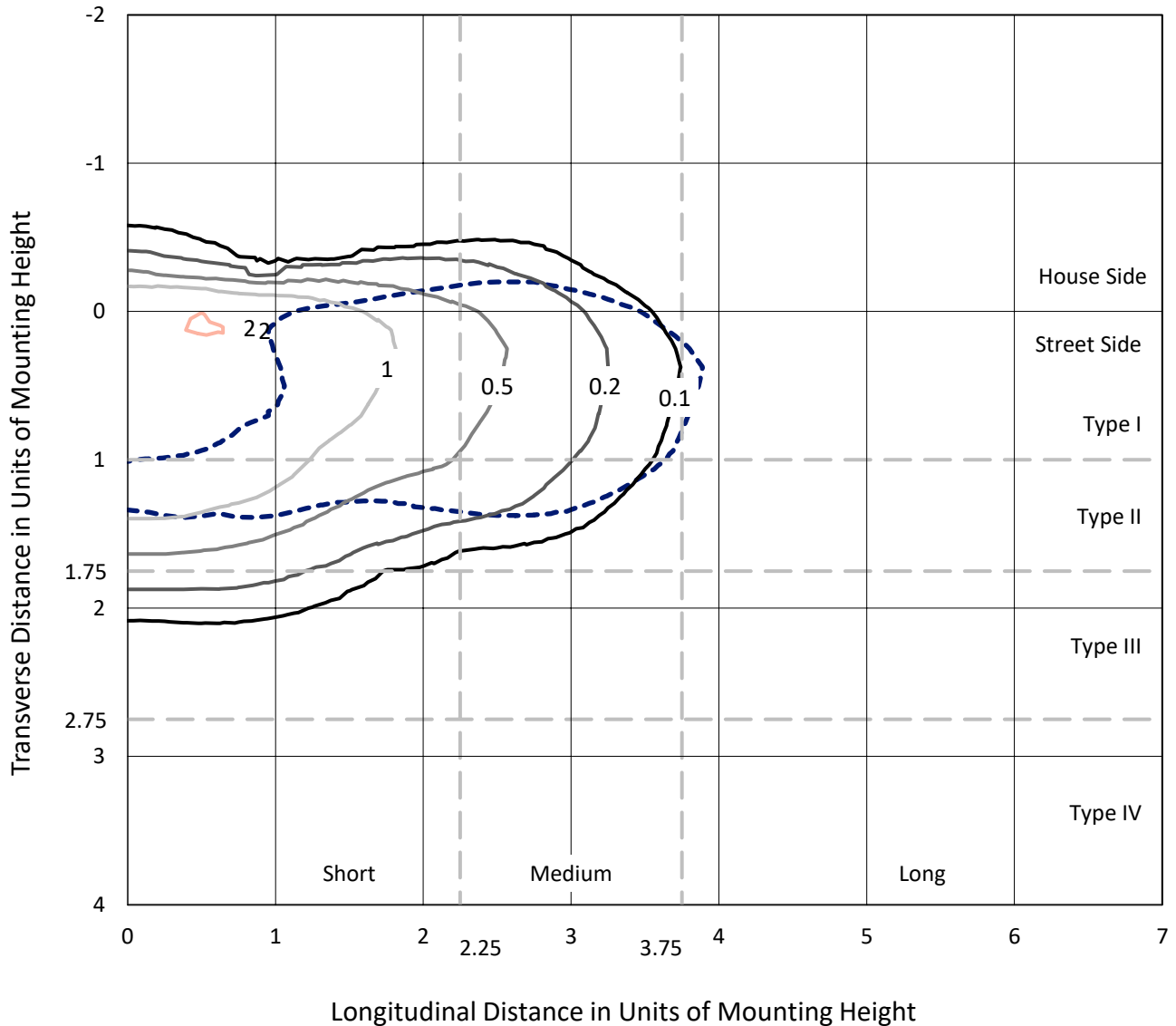
Lumens per Lamp: N/A
Luminaire Lumens: 2727.4 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

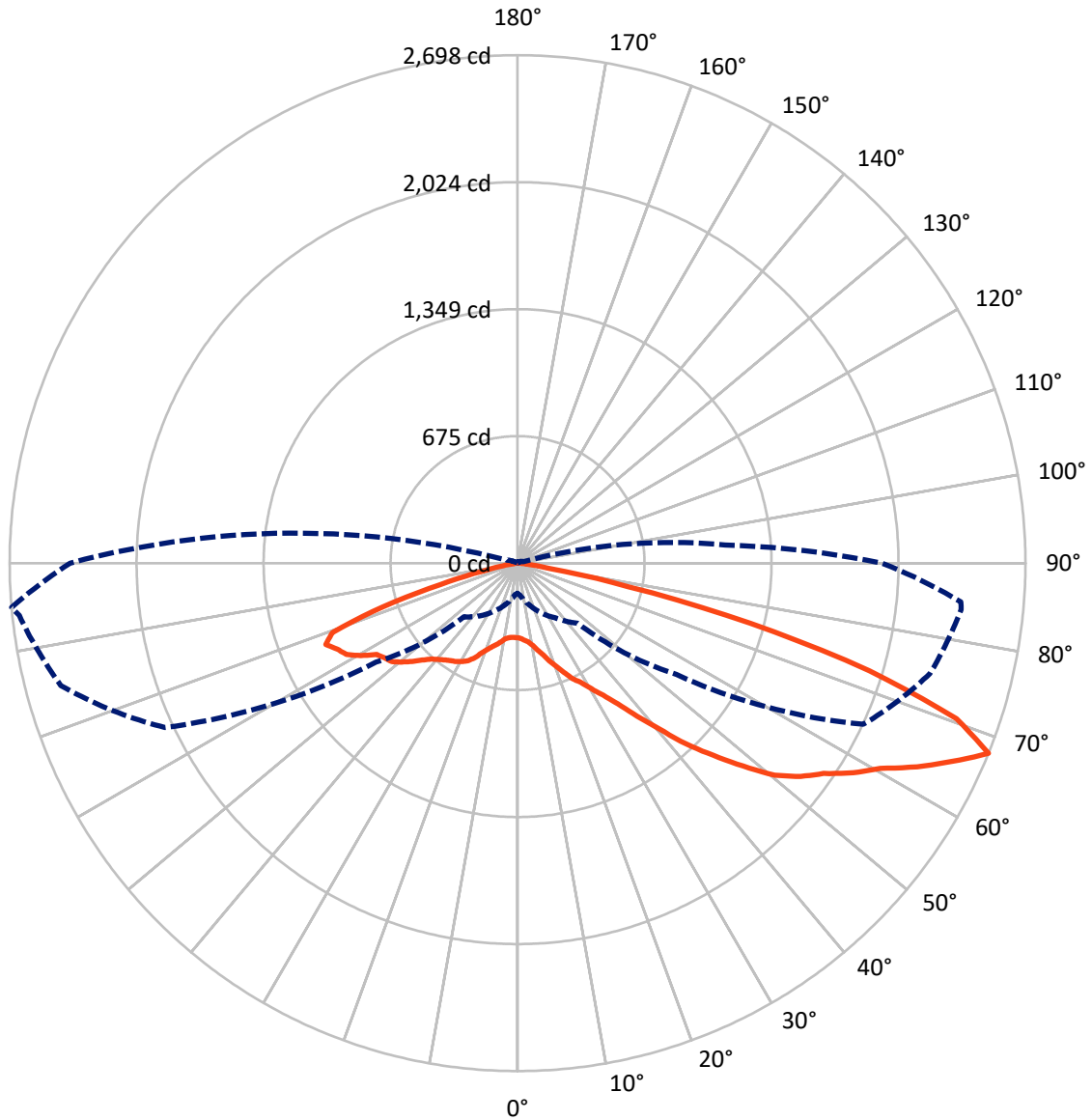
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 275-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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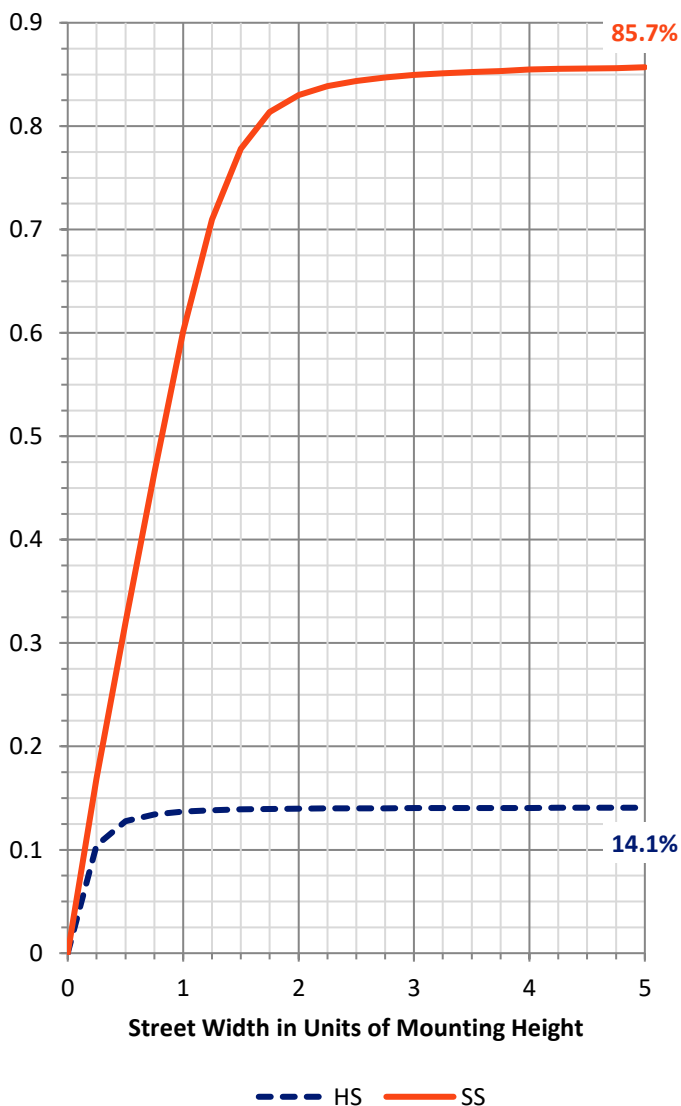
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	387.5	0.0	387.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	2339.9	0.0	2339.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	2727.4	0.0	2727.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.2	1.3
10°-20°	97.2	3.6
20°-30°	161.5	5.9
30°-40°	277.8	10.2
40°-50°	499.3	18.3
50°-60°	710.8	26.1
60°-70°	648.0	23.8
70°-80°	275.9	10.1
80°-90°	20.5	0.8
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°	2727.4	100.0
0°-180°	2727.4	100.0



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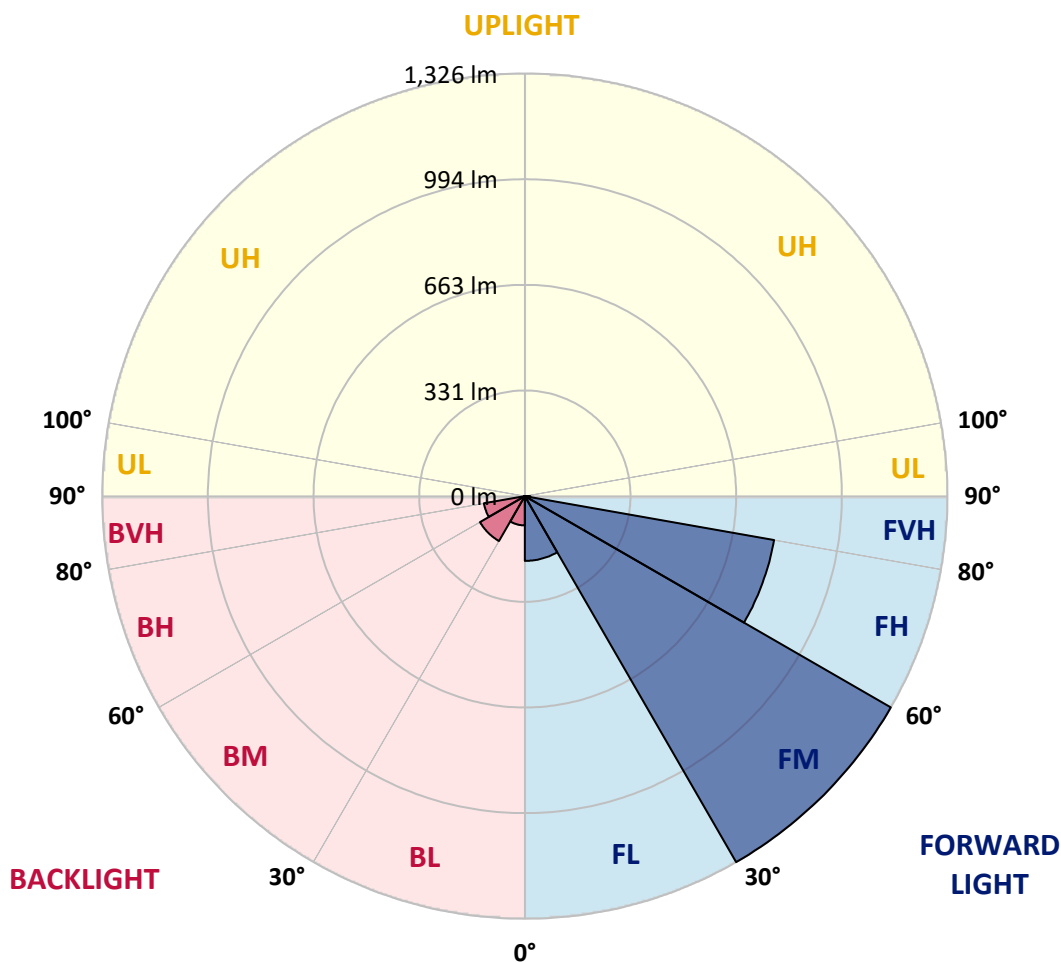
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	203.2	7.4			
FM (30°-60°)	1325.5	48.6			
FH (60°-80°)	793.8	29.1			G1/1800
FVH (80°-90°)	17.4	0.6			G1/100
BL (0°-30°)	91.7	3.4	B0/110		
BM (30°-60°)	162.4	6.0	B0/220		
BH (60°-80°)	130.2	4.8	B1/500		G1/500
BVH (80°-90°)	3.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	396.6	396.6	396.6	396.6	396.6	396.6	396.6	396.6	396.6	396.6	396.6
2.5°	410.9	414.8	414.8	413.5	409.6	407.0	405.7	403.1	400.5	400.5	401.8
5°	414.8	410.9	416.1	409.6	409.6	409.6	414.8	412.2	410.9	404.4	404.4
7.5°	414.8	410.9	410.9	414.8	410.9	413.5	420.0	417.4	422.6	410.9	413.5
10°	403.1	401.8	404.4	409.6	410.9	416.1	422.6	435.6	436.9	429.1	427.8
12.5°	379.7	378.4	387.5	390.1	405.7	418.7	438.2	448.6	460.3	456.4	448.6
15°	362.8	365.4	371.9	382.3	396.6	420.0	442.1	465.5	486.3	481.1	478.5
17.5°	369.3	368.0	369.3	375.8	394.0	417.4	455.1	482.4	512.3	512.3	514.9
20°	388.8	392.7	391.4	387.5	396.6	416.1	455.1	503.2	552.6	548.7	548.7
22.5°	422.6	423.9	416.1	413.5	412.2	423.9	462.9	529.2	586.4	594.2	591.6
25°	457.7	459.0	456.4	448.6	438.2	440.8	477.2	550.0	633.3	646.3	643.7
27.5°	516.2	514.9	508.4	499.3	483.7	472.0	499.3	565.6	669.7	691.8	685.3
30°	574.7	570.8	561.7	550.0	535.7	513.6	526.6	595.5	715.2	736.0	721.7
32.5°	646.3	638.5	641.1	622.9	592.9	557.8	555.2	622.9	751.6	781.5	769.8
35°	737.3	728.2	715.2	698.3	669.7	622.9	608.6	667.1	812.7	834.8	834.8
37.5°	856.9	866.0	850.4	780.2	749.0	704.8	674.9	712.6	866.0	919.3	906.3
40°	979.1	986.9	958.3	906.3	838.7	784.1	765.9	786.7	946.6	1010.4	985.6
42.5°	1078.0	1088.4	1078.0	1010.4	957.0	886.8	854.3	873.8	1050.7	1127.4	1094.9
45°	1182.0	1192.4	1180.7	1136.5	1084.5	1044.2	962.2	986.9	1159.9	1274.3	1237.9
47.5°	1260.0	1273.0	1252.2	1243.1	1201.5	1195.0	1055.9	1083.2	1274.3	1422.6	1377.0
50°	1278.2	1292.5	1310.7	1321.1	1306.8	1322.4	1182.0	1205.4	1394.0	1559.1	1514.9
52.5°	1235.3	1249.6	1289.9	1338.0	1404.4	1451.2	1309.4	1328.9	1518.8	1672.2	1648.8
55°	1109.2	1122.2	1204.1	1269.1	1427.8	1504.5	1431.7	1513.6	1608.5	1790.6	1733.3
57.5°	897.2	912.8	1020.8	1120.9	1349.7	1474.6	1504.5	1667.0	1756.7	1877.7	1811.4
60°	637.2	646.3	739.9	916.7	1133.9	1325.0	1490.2	1781.4	1873.8	1994.7	1959.6
62.5°	366.7	374.5	472.0	638.5	855.6	1106.6	1426.5	1889.4	1999.9	2123.4	2103.9
65°	243.2	245.8	312.1	403.1	556.5	815.3	1265.2	1985.6	2124.7	2226.2	2204.1
67.5°	159.9	174.2	226.3	288.7	356.3	451.2	1031.2	2025.9	2267.8	2369.2	2364.0
70°	114.4	119.6	162.5	222.4	267.9	253.6	603.4	1741.1	2261.3	2408.2	2365.3
72.5°	67.6	72.8	107.9	166.4	210.7	161.2	282.2	1231.4	1873.8	1921.9	1910.2
75°	49.4	49.4	66.3	119.6	153.4	115.7	132.6	778.9	1244.4	1351.0	1349.7
77.5°	35.1	36.4	45.5	71.5	118.3	84.5	72.8	433.0	680.1	743.8	708.7
80°	20.8	22.1	31.2	42.9	85.8	61.1	48.1	197.6	261.4	264.0	251.0
82.5°	15.6	15.6	20.8	29.9	59.8	41.6	29.9	75.4	84.5	76.7	65.0
85°	9.1	7.8	15.6	22.1	35.1	23.4	20.8	35.1	39.0	28.6	26.0
87.5°	2.6	2.6	6.5	7.8	15.6	13.0	9.1	13.0	18.2	10.4	7.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	396.6	396.6	396.6	396.6	396.6	396.6	396.6	396.6	396.6	396.6	396.6
2.5°	399.2	395.3	388.8	386.2	377.1	373.2	370.6	364.1	365.4	361.5	361.5
5°	395.3	395.3	382.3	368.0	353.7	344.6	334.2	321.2	321.2	316.0	317.3
7.5°	409.6	399.2	382.3	356.3	332.9	312.1	303.0	290.0	282.2	278.3	278.3
10°	418.7	408.3	379.7	348.5	318.6	292.6	273.1	254.9	244.5	244.5	243.2
12.5°	443.4	427.8	390.1	347.2	303.0	264.0	234.1	213.3	199.0	188.5	191.1
15°	464.2	447.3	395.3	336.8	275.7	221.1	184.6	145.6	126.1	115.7	111.8
17.5°	496.7	465.5	407.0	318.6	234.1	172.9	119.6	87.1	79.3	78.0	78.0
20°	524.0	487.6	408.3	283.5	192.4	110.5	76.7	71.5	67.6	66.3	65.0
22.5°	561.7	516.2	403.1	243.2	137.8	74.1	65.0	59.8	57.2	53.3	53.3
25°	600.8	553.9	392.7	205.5	84.5	63.7	57.2	52.0	46.8	44.2	45.5
27.5°	642.4	582.5	362.8	159.9	65.0	55.9	46.8	42.9	40.3	39.0	39.0
30°	676.2	600.8	318.6	106.6	58.5	49.4	41.6	37.7	35.1	33.8	33.8
32.5°	700.9	616.4	269.2	71.5	53.3	44.2	37.7	33.8	31.2	29.9	29.9
35°	742.5	628.1	223.7	61.1	48.1	39.0	32.5	29.9	27.3	27.3	27.3
37.5°	806.2	643.7	178.1	55.9	44.2	35.1	31.2	27.3	26.0	24.7	24.7
40°	862.1	663.2	127.4	50.7	40.3	32.5	27.3	24.7	23.4	22.1	22.1
42.5°	942.7	685.3	83.2	45.5	36.4	29.9	24.7	22.1	20.8	19.5	19.5
45°	1045.5	721.7	65.0	40.3	32.5	27.3	23.4	20.8	18.2	18.2	16.9
47.5°	1154.7	765.9	58.5	37.7	29.9	24.7	20.8	18.2	16.9	15.6	15.6
50°	1256.1	808.8	54.6	35.1	27.3	23.4	19.5	16.9	14.3	13.0	13.0
52.5°	1347.1	849.1	52.0	32.5	26.0	20.8	16.9	14.3	13.0	11.7	11.7
55°	1395.3	867.3	50.7	31.2	23.4	19.5	15.6	13.0	11.7	10.4	10.4
57.5°	1470.7	890.7	49.4	29.9	22.1	16.9	14.3	11.7	10.4	9.1	9.1
60°	1592.9	967.4	48.1	28.6	20.8	16.9	13.0	10.4	7.8	6.5	6.5
62.5°	1694.3	1031.2	42.9	24.7	18.2	14.3	10.4	7.8	5.2	3.9	3.9
65°	1810.1	1061.1	37.7	22.1	15.6	11.7	7.8	5.2	3.9	1.3	1.3
67.5°	1936.2	1106.6	31.2	19.5	14.3	9.1	6.5	3.9	1.3	0.0	0.0
70°	1869.9	1049.4	26.0	16.9	13.0	7.8	5.2	2.6	0.0	0.0	0.0
72.5°	1465.5	751.6	20.8	15.6	11.7	7.8	5.2	1.3	0.0	0.0	0.0
75°	979.1	425.2	18.2	13.0	9.1	6.5	3.9	1.3	0.0	0.0	0.0
77.5°	531.8	191.1	15.6	11.7	7.8	5.2	3.9	1.3	0.0	0.0	0.0
80°	172.9	75.4	13.0	10.4	7.8	5.2	3.9	1.3	0.0	0.0	0.0
82.5°	46.8	23.4	13.0	10.4	7.8	5.2	3.9	1.3	0.0	0.0	0.0
85°	19.5	15.6	13.0	10.4	7.8	5.2	3.9	1.3	0.0	0.0	0.0
87.5°	7.8	5.2	5.2	6.5	5.2	3.9	2.6	1.3	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°	396.6	396.6	396.6	396.6	396.6	396.6	396.6	396.6	396.6	396.6	396.6
2.5°	362.8	365.4	366.7	366.7	373.2	379.7	387.5	394.0	394.0	397.9	401.8
5°	318.6	321.2	325.1	336.8	349.8	364.1	378.4	388.8	403.1	409.6	413.5
7.5°	282.2	284.8	295.2	306.9	325.1	349.8	374.5	397.9	412.2	418.7	423.9
10°	244.5	248.4	260.1	280.9	304.3	334.2	362.8	403.1	426.5	439.5	444.7
12.5°	189.8	200.3	215.9	238.0	267.9	313.4	366.7	408.3	448.6	464.2	474.6
15°	119.6	128.7	153.4	188.5	228.9	282.2	356.3	416.1	472.0	487.6	504.5
17.5°	76.7	78.0	85.8	123.5	175.5	243.2	340.7	427.8	498.0	520.1	546.1
20°	65.0	67.6	68.9	74.1	117.0	200.3	308.2	442.1	529.2	559.1	583.8
22.5°	54.6	55.9	58.5	62.4	70.2	145.6	264.0	442.1	556.5	600.8	629.4
25°	44.2	46.8	49.4	53.3	61.1	91.0	218.5	434.3	589.0	643.7	680.1
27.5°	39.0	39.0	41.6	45.5	52.0	63.7	172.9	410.9	613.8	669.7	717.8
30°	33.8	35.1	36.4	40.3	46.8	55.9	119.6	373.2	639.8	720.4	775.0
32.5°	29.9	29.9	32.5	35.1	41.6	50.7	76.7	316.0	673.6	759.4	836.1
35°	27.3	27.3	28.6	31.2	37.7	45.5	59.8	267.9	713.9	833.5	918.0
37.5°	24.7	24.7	26.0	28.6	33.8	40.3	54.6	230.2	755.5	907.6	1031.2
40°	22.1	22.1	23.4	26.0	29.9	36.4	49.4	185.9	807.5	1016.9	1154.7
42.5°	19.5	19.5	20.8	23.4	27.3	32.5	42.9	139.1	876.4	1135.2	1314.6
45°	16.9	16.9	18.2	20.8	23.4	29.9	39.0	106.6	951.8	1266.5	1455.1
47.5°	14.3	15.6	16.9	19.5	22.1	27.3	35.1	93.6	1026.0	1405.7	1611.1
50°	13.0	13.0	14.3	16.9	20.8	24.7	32.5	92.3	1101.4	1512.3	1771.0
52.5°	11.7	11.7	13.0	15.6	19.5	23.4	31.2	94.9	1163.8	1611.1	1882.9
55°	10.4	10.4	11.7	13.0	16.9	22.1	28.6	97.5	1208.0	1711.2	1972.6
57.5°	9.1	9.1	10.4	13.0	15.6	19.5	26.0	100.1	1279.5	1810.1	2102.6
60°	6.5	6.5	9.1	11.7	14.3	16.9	24.7	102.7	1394.0	1946.6	2213.2
62.5°	3.9	3.9	5.2	9.1	11.7	15.6	22.1	97.5	1500.6	2122.1	2382.2
65°	1.3	2.6	3.9	5.2	9.1	13.0	18.2	88.4	1590.3	2297.7	2538.2
67.5°	0.0	0.0	1.3	3.9	7.8	10.4	15.6	65.0	1604.6	2377.0	2698.2
70°	0.0	0.0	1.3	3.9	6.5	10.4	14.3	36.4	1366.6	2123.4	2473.2
72.5°	0.0	0.0	0.0	2.6	6.5	9.1	13.0	27.3	1007.8	1600.7	1954.4
75°	0.0	0.0	0.0	1.3	5.2	7.8	11.7	20.8	612.5	1067.6	1275.6
77.5°	0.0	0.0	0.0	1.3	3.9	7.8	11.7	18.2	215.9	508.4	599.5
80°	0.0	0.0	0.0	2.6	5.2	7.8	10.4	15.6	52.0	127.4	171.6
82.5°	0.0	0.0	0.0	1.3	3.9	6.5	9.1	13.0	20.8	37.7	59.8
85°	0.0	0.0	0.0	1.3	2.6	6.5	9.1	11.7	14.3	18.2	26.0
87.5°	0.0	0.0	0.0	0.0	1.3	2.6	3.9	5.2	5.2	5.2	9.1
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):

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	396.6	396.6	396.6	396.6	396.6	396.6	396.6	396.6	396.6	396.6
2.5°	400.5	405.7	408.3	413.5	416.1	414.8	413.5	417.4	414.8	410.9
5°	414.8	414.8	418.7	420.0	420.0	416.1	418.7	417.4	414.8	414.8
7.5°	430.4	436.9	436.9	429.1	427.8	425.2	425.2	414.8	410.9	414.8
10°	446.0	451.2	452.5	443.4	431.7	426.5	420.0	407.0	400.5	403.1
12.5°	478.5	478.5	464.2	453.8	438.2	420.0	404.4	386.2	377.1	379.7
15°	501.9	507.1	487.6	464.2	436.9	403.1	386.2	371.9	366.7	362.8
17.5°	547.4	537.0	505.8	472.0	433.0	397.9	386.2	373.2	369.3	369.3
20°	586.4	581.2	534.4	473.3	431.7	408.3	400.5	394.0	392.7	388.8
22.5°	639.8	616.4	556.5	487.6	446.0	425.2	422.6	429.1	425.2	422.6
25°	680.1	660.6	573.4	508.4	468.1	461.6	465.5	472.0	461.6	457.7
27.5°	734.7	698.3	606.0	535.7	498.0	504.5	517.5	518.8	512.3	516.2
30°	785.4	746.4	630.7	566.9	548.7	555.2	574.7	589.0	579.9	574.7
32.5°	858.2	798.4	680.1	619.0	612.5	629.4	651.5	660.6	648.9	646.3
35°	934.9	858.2	730.8	677.5	689.2	712.6	732.1	747.7	729.5	737.3
37.5°	1054.6	954.4	816.6	769.8	775.0	784.1	820.5	863.4	872.5	856.9
40°	1179.4	1058.5	895.9	859.5	871.2	895.9	938.8	979.1	1000.0	979.1
42.5°	1323.7	1158.6	1018.2	975.2	986.9	1022.1	1079.3	1111.8	1109.2	1078.0
45°	1501.9	1297.7	1132.6	1079.3	1122.2	1153.4	1210.6	1214.5	1189.8	1182.0
47.5°	1638.4	1414.8	1256.1	1222.3	1280.8	1282.1	1295.1	1296.4	1269.1	1260.0
50°	1789.3	1550.0	1394.0	1344.5	1443.4	1397.9	1362.7	1339.3	1297.7	1278.2
52.5°	1937.5	1646.2	1521.4	1470.7	1573.4	1452.5	1388.7	1317.2	1256.1	1235.3
55°	2016.8	1804.9	1707.3	1589.0	1602.0	1468.1	1308.1	1218.4	1114.4	1109.2
57.5°	2110.4	1911.5	1864.7	1669.6	1553.9	1358.8	1140.4	1022.1	910.2	897.2
60°	2221.0	2080.5	2031.1	1656.6	1383.5	1141.7	903.7	751.6	646.3	637.2
62.5°	2344.5	2280.8	2133.8	1529.2	1098.8	803.6	596.9	469.4	371.9	366.7
65°	2539.5	2448.5	2188.5	1287.3	726.9	514.9	396.6	304.3	245.8	243.2
67.5°	2661.8	2512.2	2066.2	918.0	403.1	340.7	278.3	221.1	170.3	159.9
70°	2488.8	2305.5	1634.5	525.3	234.1	258.8	214.6	148.2	117.0	114.4
72.5°	1988.2	1711.2	1100.1	247.1	145.6	202.9	156.0	100.1	70.2	67.6
75°	1356.2	1076.7	690.5	114.4	102.7	148.2	114.4	58.5	49.4	49.4
77.5°	606.0	548.7	353.7	70.2	76.7	113.1	66.3	40.3	36.4	35.1
80°	184.6	193.7	144.3	48.1	57.2	85.8	40.3	27.3	22.1	20.8
82.5°	62.4	72.8	65.0	28.6	39.0	61.1	27.3	18.2	15.6	15.6
85°	29.9	36.4	32.5	18.2	20.8	29.9	22.1	14.3	9.1	9.1
87.5°	11.7	16.9	11.7	7.8	11.7	15.6	9.1	6.5	2.6	2.6
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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