

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: P676353

Luminaire Tested: **CCW-SA-1C-850-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676353
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-850-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
T2 distribution lens and House Side Shield
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

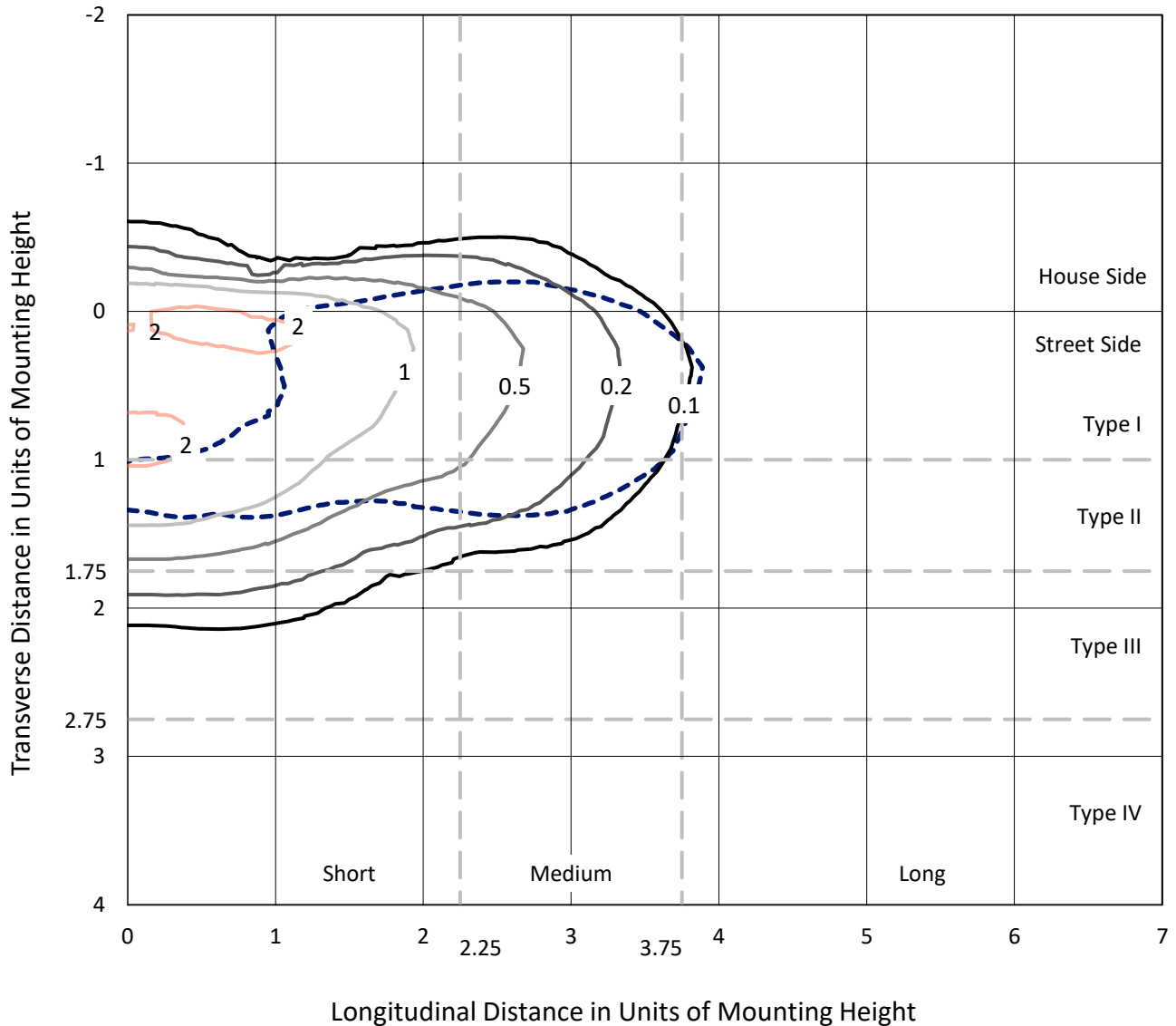
Lumens per Lamp: N/A
Luminaire Lumens: 3045.9 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 32
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

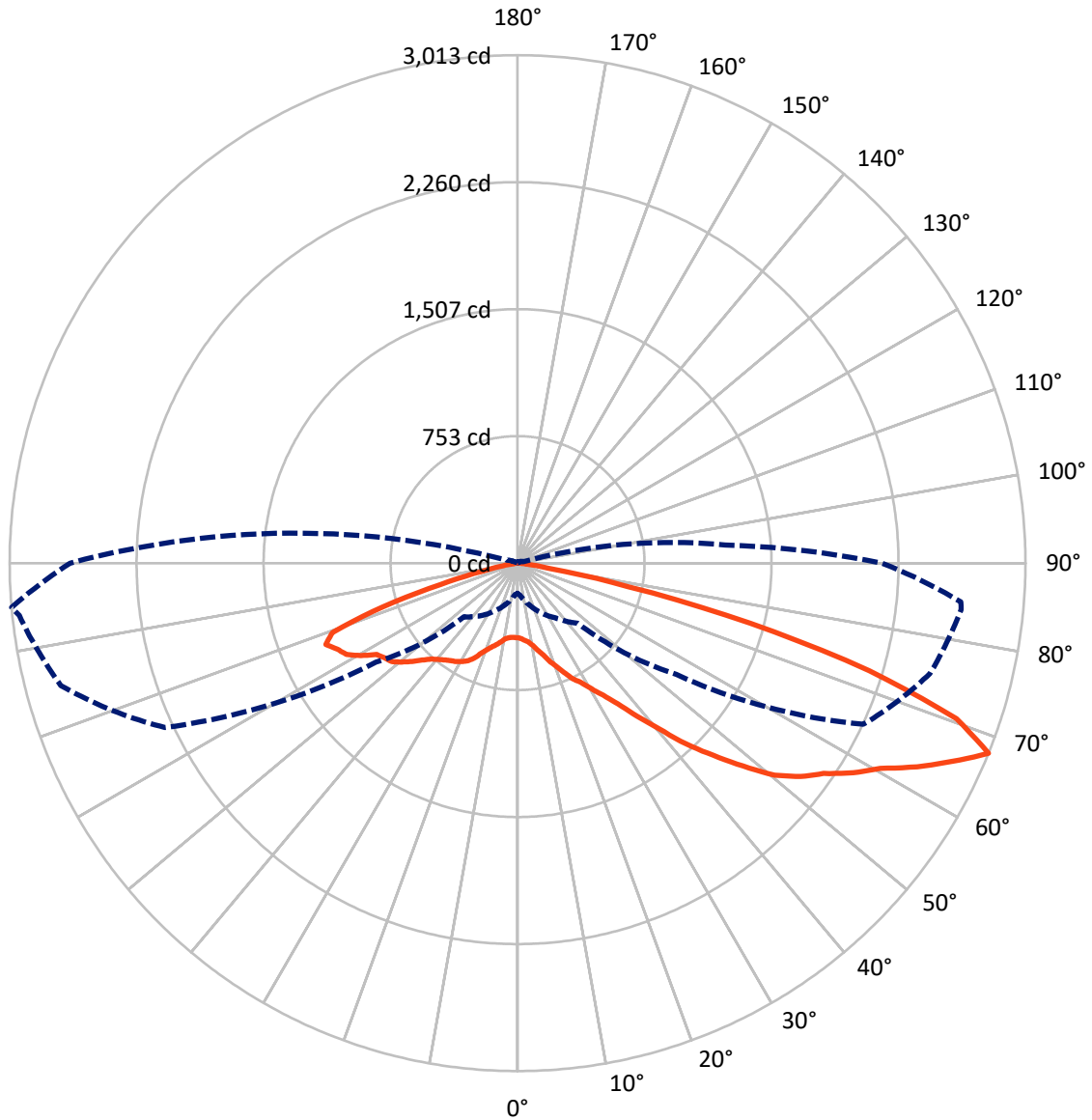
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.3 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	432.7	0.0	432.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	2613.2	0.0	2613.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	3045.9	0.0	3045.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.4	1.3
10°-20°	108.6	3.6
20°-30°	180.4	5.9
30°-40°	310.3	10.2
40°-50°	557.6	18.3
50°-60°	793.8	26.1
60°-70°	723.7	23.8
70°-80°	308.2	10.1
80°-90°	22.9	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°	3045.9	100.0
0°-180°	3045.9	100.0



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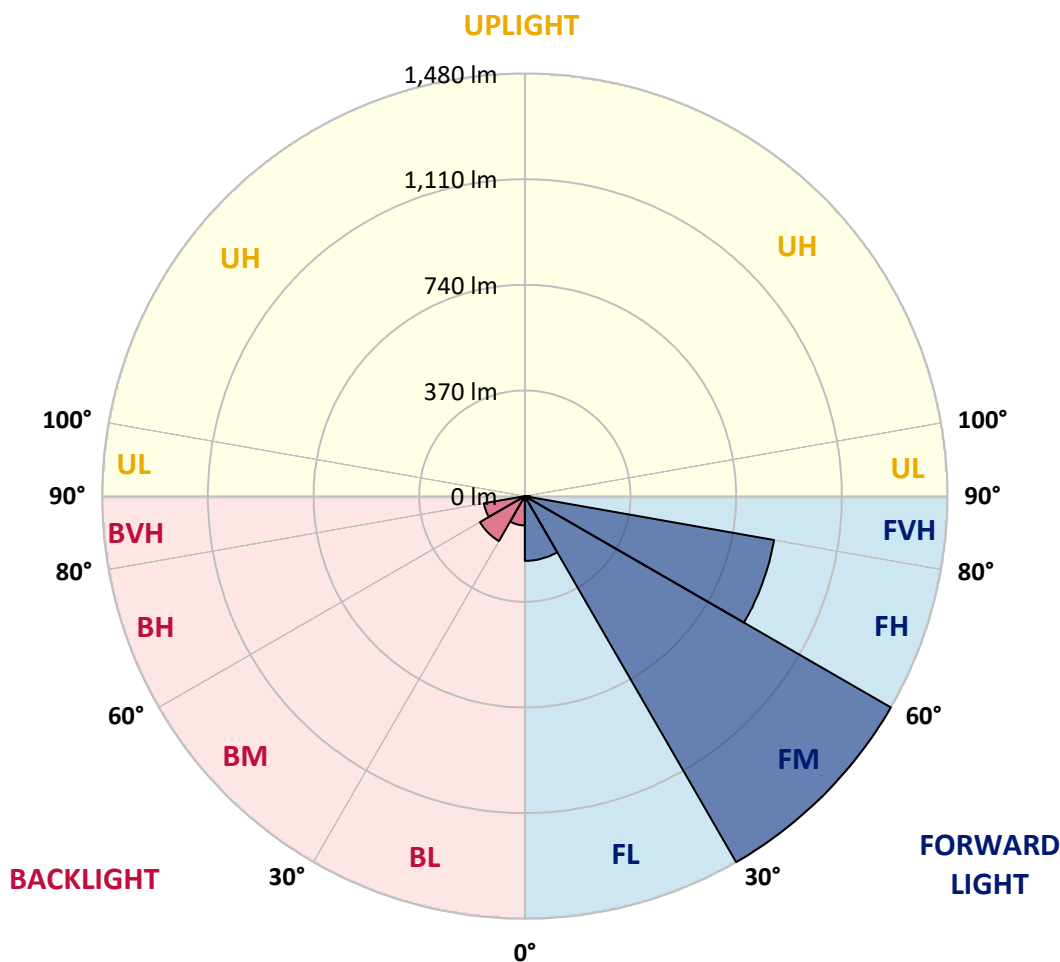
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	226.9	7.4			
FM (30°-60°)	1480.3	48.6			
FH (60°-80°)	886.5	29.1			G1/1800
FVH (80°-90°)	19.5	0.6			G1/100
BL (0°-30°)	102.4	3.4	B0/110		
BM (30°-60°)	181.4	6.0	B0/220		
BH (60°-80°)	145.4	4.8	B1/500		G1/500
BVH (80°-90°)	3.5	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°	442.9	442.9	442.9	442.9	442.9	442.9	442.9	442.9	442.9	442.9	442.9
2.5°	458.9	463.2	463.2	461.8	457.4	454.5	453.1	450.2	447.3	447.3	448.7
5°	463.2	458.9	464.7	457.4	457.4	457.4	463.2	460.3	458.9	451.6	451.6
7.5°	463.2	458.9	458.9	463.2	458.9	461.8	469.1	466.2	472.0	458.9	461.8
10°	450.2	448.7	451.6	457.4	458.9	464.7	472.0	486.5	487.9	479.2	477.8
12.5°	424.0	422.6	432.8	435.7	453.1	467.6	489.4	501.0	514.1	509.7	501.0
15°	405.2	408.1	415.3	426.9	442.9	469.1	493.7	519.9	543.1	537.3	534.4
17.5°	412.4	411.0	412.4	419.7	440.0	466.2	508.3	538.8	572.2	572.2	575.1
20°	434.2	438.6	437.1	432.8	442.9	464.7	508.3	562.0	617.2	612.8	612.8
22.5°	472.0	473.4	464.7	461.8	460.3	473.4	517.0	591.0	654.9	663.6	660.7
25°	511.2	512.6	509.7	501.0	489.4	492.3	533.0	614.3	707.2	721.7	718.8
27.5°	576.5	575.1	567.8	557.6	540.2	527.1	557.6	631.7	747.9	772.6	765.3
30°	641.9	637.5	627.3	614.3	598.3	573.6	588.1	665.1	798.7	821.9	806.0
32.5°	721.7	713.0	715.9	695.6	662.2	623.0	620.1	695.6	839.4	872.8	859.7
35°	823.4	813.2	798.7	779.8	747.9	695.6	679.6	745.0	907.6	932.3	932.3
37.5°	957.0	967.2	949.7	871.3	836.5	787.1	753.7	795.8	967.2	1026.7	1012.2
40°	1093.5	1102.2	1070.3	1012.2	936.7	875.7	855.3	878.6	1057.2	1128.3	1100.8
42.5°	1203.9	1215.5	1203.9	1128.3	1068.8	990.4	954.1	975.9	1173.4	1259.0	1222.7
45°	1320.0	1331.7	1318.6	1269.2	1211.1	1166.1	1074.6	1102.2	1295.3	1423.1	1382.5
47.5°	1407.2	1421.7	1398.5	1388.3	1341.8	1334.6	1179.2	1209.7	1423.1	1588.7	1537.9
50°	1427.5	1443.5	1463.8	1475.4	1459.4	1476.9	1320.0	1346.2	1556.7	1741.2	1691.8
52.5°	1379.6	1395.6	1440.6	1494.3	1568.4	1620.6	1462.4	1484.1	1696.2	1867.5	1841.4
55°	1238.7	1253.2	1344.7	1417.3	1594.5	1680.2	1598.9	1690.3	1796.4	1999.7	1935.8
57.5°	1002.0	1019.4	1140.0	1251.8	1507.4	1646.8	1680.2	1861.7	1961.9	2097.0	2022.9
60°	711.6	721.7	826.3	1023.8	1266.3	1479.8	1664.2	1989.5	2092.6	2227.7	2188.4
62.5°	409.5	418.2	527.1	713.0	955.5	1235.8	1593.0	2110.0	2233.5	2371.4	2349.6
65°	271.6	274.5	348.5	450.2	621.5	910.5	1413.0	2217.5	2372.9	2486.1	2461.5
67.5°	178.6	194.6	252.7	322.4	397.9	503.9	1151.6	2262.5	2532.6	2645.9	2640.1
70°	127.8	133.6	181.5	248.3	299.2	283.2	673.8	1944.5	2525.4	2689.4	2641.5
72.5°	75.5	81.3	120.5	185.9	235.3	180.1	315.1	1375.2	2092.6	2146.3	2133.3
75°	55.2	55.2	74.1	133.6	171.4	129.2	148.1	869.9	1389.7	1508.8	1507.4
77.5°	39.2	40.7	50.8	79.9	132.1	94.4	81.3	483.6	759.5	830.7	791.4
80°	23.2	24.7	34.9	47.9	95.8	68.3	53.7	220.7	291.9	294.8	280.3
82.5°	17.4	17.4	23.2	33.4	66.8	46.5	33.4	84.2	94.4	85.7	72.6
85°	10.2	8.7	17.4	24.7	39.2	26.1	23.2	39.2	43.6	31.9	29.0
87.5°	2.9	2.9	7.3	8.7	17.4	14.5	10.2	14.5	20.3	11.6	8.7
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°	442.9	442.9	442.9	442.9	442.9	442.9	442.9	442.9	442.9	442.9	442.9
2.5°	445.8	441.5	434.2	431.3	421.1	416.8	413.9	406.6	408.1	403.7	403.7
5°	441.5	441.5	426.9	411.0	395.0	384.8	373.2	358.7	358.7	352.9	354.3
7.5°	457.4	445.8	426.9	397.9	371.8	348.5	338.4	323.8	315.1	310.8	310.8
10°	467.6	456.0	424.0	389.2	355.8	326.7	305.0	284.6	273.0	273.0	271.6
12.5°	495.2	477.8	435.7	387.7	338.4	294.8	261.4	238.2	222.2	210.6	213.5
15°	518.4	499.6	441.5	376.1	307.9	246.9	206.2	162.6	140.9	129.2	124.9
17.5°	554.7	519.9	454.5	355.8	261.4	193.1	133.6	97.3	88.6	87.1	87.1
20°	585.2	544.6	456.0	316.6	214.9	123.4	85.7	79.9	75.5	74.1	72.6
22.5°	627.3	576.5	450.2	271.6	153.9	82.8	72.6	66.8	63.9	59.5	59.5
25°	670.9	618.6	438.6	229.4	94.4	71.2	63.9	58.1	52.3	49.4	50.8
27.5°	717.4	650.6	405.2	178.6	72.6	62.4	52.3	47.9	45.0	43.6	43.6
30°	755.1	670.9	355.8	119.1	65.3	55.2	46.5	42.1	39.2	37.8	37.8
32.5°	782.7	688.3	300.6	79.9	59.5	49.4	42.1	37.8	34.9	33.4	33.4
35°	829.2	701.4	249.8	68.3	53.7	43.6	36.3	33.4	30.5	30.5	30.5
37.5°	900.4	718.8	198.9	62.4	49.4	39.2	34.9	30.5	29.0	27.6	27.6
40°	962.8	740.6	142.3	56.6	45.0	36.3	30.5	27.6	26.1	24.7	24.7
42.5°	1052.8	765.3	92.9	50.8	40.7	33.4	27.6	24.7	23.2	21.8	21.8
45°	1167.6	806.0	72.6	45.0	36.3	30.5	26.1	23.2	20.3	20.3	18.9
47.5°	1289.5	855.3	65.3	42.1	33.4	27.6	23.2	20.3	18.9	17.4	17.4
50°	1402.8	903.3	61.0	39.2	30.5	26.1	21.8	18.9	16.0	14.5	14.5
52.5°	1504.5	948.3	58.1	36.3	29.0	23.2	18.9	16.0	14.5	13.1	13.1
55°	1558.2	968.6	56.6	34.9	26.1	21.8	17.4	14.5	13.1	11.6	11.6
57.5°	1642.4	994.7	55.2	33.4	24.7	18.9	16.0	13.1	11.6	10.2	10.2
60°	1778.9	1080.4	53.7	31.9	23.2	18.9	14.5	11.6	8.7	7.3	7.3
62.5°	1892.2	1151.6	47.9	27.6	20.3	16.0	11.6	8.7	5.8	4.4	4.4
65°	2021.4	1185.0	42.1	24.7	17.4	13.1	8.7	5.8	4.4	1.5	1.5
67.5°	2162.3	1235.8	34.9	21.8	16.0	10.2	7.3	4.4	1.5	0.0	0.0
70°	2088.2	1171.9	29.0	18.9	14.5	8.7	5.8	2.9	0.0	0.0	0.0
72.5°	1636.6	839.4	23.2	17.4	13.1	8.7	5.8	1.5	0.0	0.0	0.0
75°	1093.5	474.9	20.3	14.5	10.2	7.3	4.4	1.5	0.0	0.0	0.0
77.5°	593.9	213.5	17.4	13.1	8.7	5.8	4.4	1.5	0.0	0.0	0.0
80°	193.1	84.2	14.5	11.6	8.7	5.8	4.4	1.5	0.0	0.0	0.0
82.5°	52.3	26.1	14.5	11.6	8.7	5.8	4.4	1.5	0.0	0.0	0.0
85°	21.8	17.4	14.5	11.6	8.7	5.8	4.4	1.5	0.0	0.0	0.0
87.5°	8.7	5.8	5.8	7.3	5.8	4.4	2.9	1.5	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°	442.9	442.9	442.9	442.9	442.9	442.9	442.9	442.9	442.9	442.9	442.9
2.5°	405.2	408.1	409.5	409.5	416.8	424.0	432.8	440.0	440.0	444.4	448.7
5°	355.8	358.7	363.0	376.1	390.6	406.6	422.6	434.2	450.2	457.4	461.8
7.5°	315.1	318.0	329.6	342.7	363.0	390.6	418.2	444.4	460.3	467.6	473.4
10°	273.0	277.4	290.4	313.7	339.8	373.2	405.2	450.2	476.3	490.8	496.6
12.5°	212.0	223.6	241.1	265.7	299.2	350.0	409.5	456.0	501.0	518.4	530.0
15°	133.6	143.8	171.4	210.6	255.6	315.1	397.9	464.7	527.1	544.6	563.4
17.5°	85.7	87.1	95.8	138.0	196.0	271.6	380.5	477.8	556.2	580.9	609.9
20°	72.6	75.5	77.0	82.8	130.7	223.6	344.2	493.7	591.0	624.4	652.0
22.5°	61.0	62.4	65.3	69.7	78.4	162.6	294.8	493.7	621.5	670.9	702.9
25°	49.4	52.3	55.2	59.5	68.3	101.7	244.0	485.0	657.8	718.8	759.5
27.5°	43.6	43.6	46.5	50.8	58.1	71.2	193.1	458.9	685.4	747.9	801.6
30°	37.8	39.2	40.7	45.0	52.3	62.4	133.6	416.8	714.5	804.5	865.5
32.5°	33.4	33.4	36.3	39.2	46.5	56.6	85.7	352.9	752.2	848.1	933.8
35°	30.5	30.5	31.9	34.9	42.1	50.8	66.8	299.2	797.2	930.9	1025.2
37.5°	27.6	27.6	29.0	31.9	37.8	45.0	61.0	257.0	843.7	1013.6	1151.6
40°	24.7	24.7	26.1	29.0	33.4	40.7	55.2	207.7	901.8	1135.6	1289.5
42.5°	21.8	21.8	23.2	26.1	30.5	36.3	47.9	155.4	978.8	1267.8	1468.2
45°	18.9	18.9	20.3	23.2	26.1	33.4	43.6	119.1	1063.0	1414.4	1625.0
47.5°	16.0	17.4	18.9	21.8	24.7	30.5	39.2	104.6	1145.8	1569.8	1799.3
50°	14.5	14.5	16.0	18.9	23.2	27.6	36.3	103.1	1230.0	1688.9	1977.9
52.5°	13.1	13.1	14.5	17.4	21.8	26.1	34.9	106.0	1299.7	1799.3	2102.8
55°	11.6	11.6	13.1	14.5	18.9	24.7	31.9	108.9	1349.1	1911.1	2203.0
57.5°	10.2	10.2	11.6	14.5	17.4	21.8	29.0	111.8	1429.0	2021.4	2348.2
60°	7.3	7.3	10.2	13.1	16.0	18.9	27.6	114.7	1556.7	2173.9	2471.6
62.5°	4.4	4.4	5.8	10.2	13.1	17.4	24.7	108.9	1675.8	2370.0	2660.4
65°	1.5	2.9	4.4	5.8	10.2	14.5	20.3	98.7	1776.0	2566.0	2834.7
67.5°	0.0	0.0	1.5	4.4	8.7	11.6	17.4	72.6	1792.0	2654.6	3013.3
70°	0.0	0.0	1.5	4.4	7.3	11.6	16.0	40.7	1526.2	2371.4	2762.1
72.5°	0.0	0.0	0.0	2.9	7.3	10.2	14.5	30.5	1125.4	1787.6	2182.6
75°	0.0	0.0	0.0	1.5	5.8	8.7	13.1	23.2	684.0	1192.2	1424.6
77.5°	0.0	0.0	0.0	1.5	4.4	8.7	13.1	20.3	241.1	567.8	669.5
80°	0.0	0.0	0.0	2.9	5.8	8.7	11.6	17.4	58.1	142.3	191.7
82.5°	0.0	0.0	0.0	1.5	4.4	7.3	10.2	14.5	23.2	42.1	66.8
85°	0.0	0.0	0.0	1.5	2.9	7.3	10.2	13.1	16.0	20.3	29.0
87.5°	0.0	0.0	0.0	0.0	1.5	2.9	4.4	5.8	5.8	5.8	10.2
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):

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	442.9	442.9	442.9	442.9	442.9	442.9	442.9	442.9	442.9	442.9
2.5°	447.3	453.1	456.0	461.8	464.7	463.2	461.8	466.2	463.2	458.9
5°	463.2	463.2	467.6	469.1	469.1	464.7	467.6	466.2	463.2	463.2
7.5°	480.7	487.9	487.9	479.2	477.8	474.9	474.9	463.2	458.9	463.2
10°	498.1	503.9	505.4	495.2	482.1	476.3	469.1	454.5	447.3	450.2
12.5°	534.4	534.4	518.4	506.8	489.4	469.1	451.6	431.3	421.1	424.0
15°	560.5	566.4	544.6	518.4	487.9	450.2	431.3	415.3	409.5	405.2
17.5°	611.4	599.8	564.9	527.1	483.6	444.4	431.3	416.8	412.4	412.4
20°	654.9	649.1	596.8	528.6	482.1	456.0	447.3	440.0	438.6	434.2
22.5°	714.5	688.3	621.5	544.6	498.1	474.9	472.0	479.2	474.9	472.0
25°	759.5	737.7	640.4	567.8	522.8	515.5	519.9	527.1	515.5	511.2
27.5°	820.5	779.8	676.7	598.3	556.2	563.4	578.0	579.4	572.2	576.5
30°	877.1	833.6	704.3	633.2	612.8	620.1	641.9	657.8	647.7	641.9
32.5°	958.4	891.6	759.5	691.2	684.0	702.9	727.5	737.7	724.6	721.7
35°	1044.1	958.4	816.1	756.6	769.7	795.8	817.6	835.0	814.7	823.4
37.5°	1177.7	1065.9	912.0	859.7	865.5	875.7	916.3	964.3	974.4	957.0
40°	1317.1	1182.1	1000.6	959.9	973.0	1000.6	1048.5	1093.5	1116.7	1093.5
42.5°	1478.3	1293.9	1137.1	1089.1	1102.2	1141.4	1205.3	1241.6	1238.7	1203.9
45°	1677.3	1449.3	1264.9	1205.3	1253.2	1288.1	1352.0	1356.3	1328.7	1320.0
47.5°	1829.8	1580.0	1402.8	1365.1	1430.4	1431.9	1446.4	1447.8	1417.3	1407.2
50°	1998.2	1731.0	1556.7	1501.6	1611.9	1561.1	1521.9	1495.8	1449.3	1427.5
52.5°	2163.8	1838.5	1699.1	1642.4	1757.1	1622.1	1550.9	1471.1	1402.8	1379.6
55°	2252.3	2015.6	1906.7	1774.6	1789.1	1639.5	1460.9	1360.7	1244.5	1238.7
57.5°	2356.9	2134.7	2082.4	1864.6	1735.4	1517.5	1273.6	1141.4	1016.5	1002.0
60°	2480.3	2323.5	2268.3	1850.1	1545.1	1275.0	1009.3	839.4	721.7	711.6
62.5°	2618.3	2547.1	2383.0	1707.8	1227.1	897.5	666.6	524.2	415.3	409.5
65°	2836.1	2734.5	2444.0	1437.7	811.8	575.1	442.9	339.8	274.5	271.6
67.5°	2972.6	2805.6	2307.5	1025.2	450.2	380.5	310.8	246.9	190.2	178.6
70°	2779.5	2574.7	1825.4	586.7	261.4	289.0	239.6	165.5	130.7	127.8
72.5°	2220.4	1911.1	1228.5	275.9	162.6	226.5	174.3	111.8	78.4	75.5
75°	1514.6	1202.4	771.1	127.8	114.7	165.5	127.8	65.3	55.2	55.2
77.5°	676.7	612.8	395.0	78.4	85.7	126.3	74.1	45.0	40.7	39.2
80°	206.2	216.4	161.2	53.7	63.9	95.8	45.0	30.5	24.7	23.2
82.5°	69.7	81.3	72.6	31.9	43.6	68.3	30.5	20.3	17.4	17.4
85°	33.4	40.7	36.3	20.3	23.2	33.4	24.7	16.0	10.2	10.2
87.5°	13.1	18.9	13.1	8.7	13.1	17.4	10.2	7.3	2.9	2.9
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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