

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: P674182

Luminaire Tested: **CCP-SA-1B-835-U-SLL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674182
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1B-835-U-SLL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ SLL distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

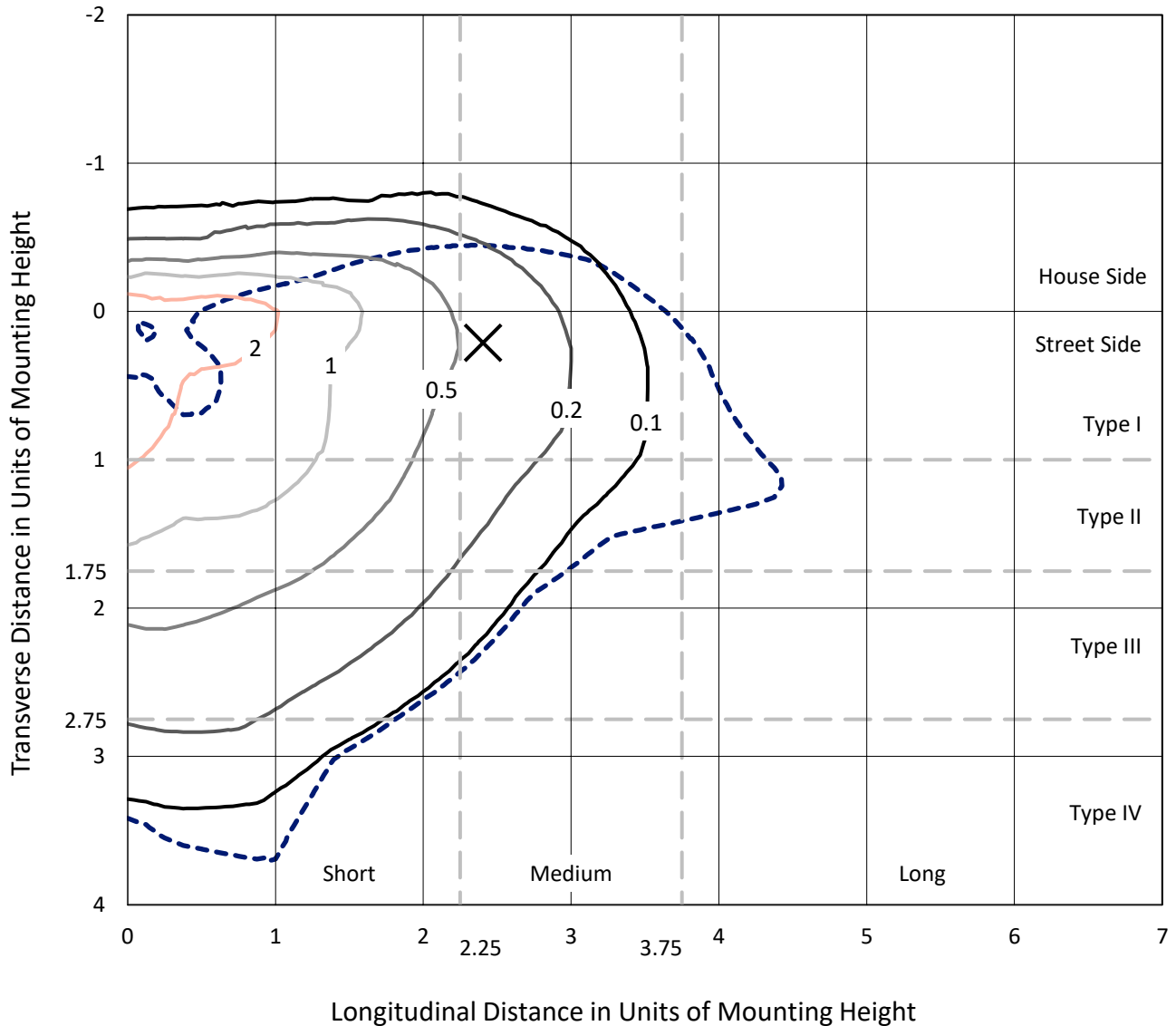
Lumens per Lamp: N/A
Luminaire Lumens: 2064.7 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B0 - U0 - G1

Input Watts (W): 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

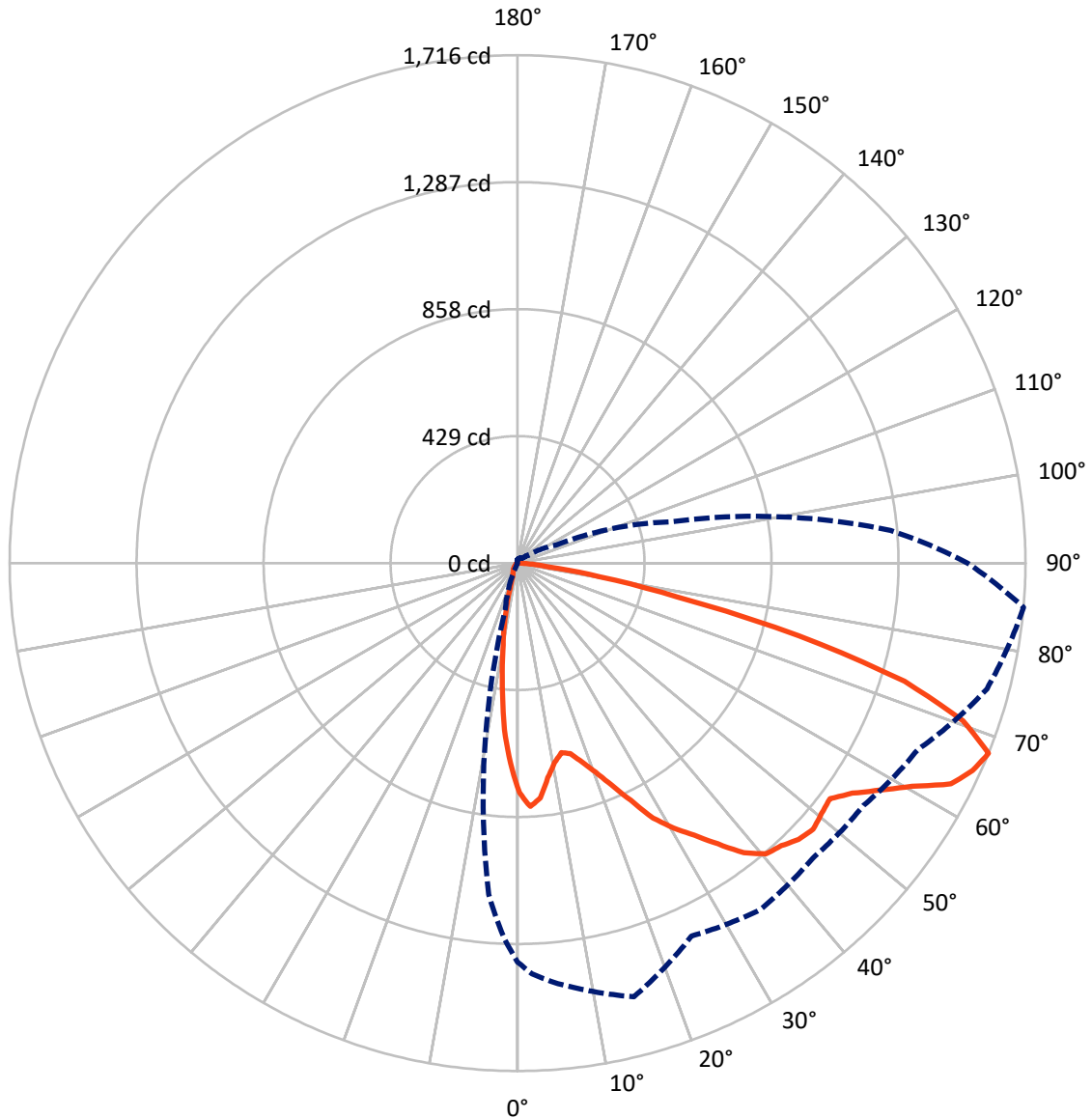
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.9 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	358.5	0.0	358.5
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	1706.2	0.0	1706.2
	% Fixture	82.6	0.0	82.6
Total	Lumens	2064.7	0.0	2064.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	2.9
10°-20°	115.7	5.6
20°-30°	160.0	7.8
30°-40°	226.2	11.0
40°-50°	307.9	14.9
50°-60°	407.9	19.8
60°-70°	473.6	22.9
70°-80°	268.2	13.0
80°-90°	46.3	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°	2064.7	100.0
0°-180°	2064.7	100.0

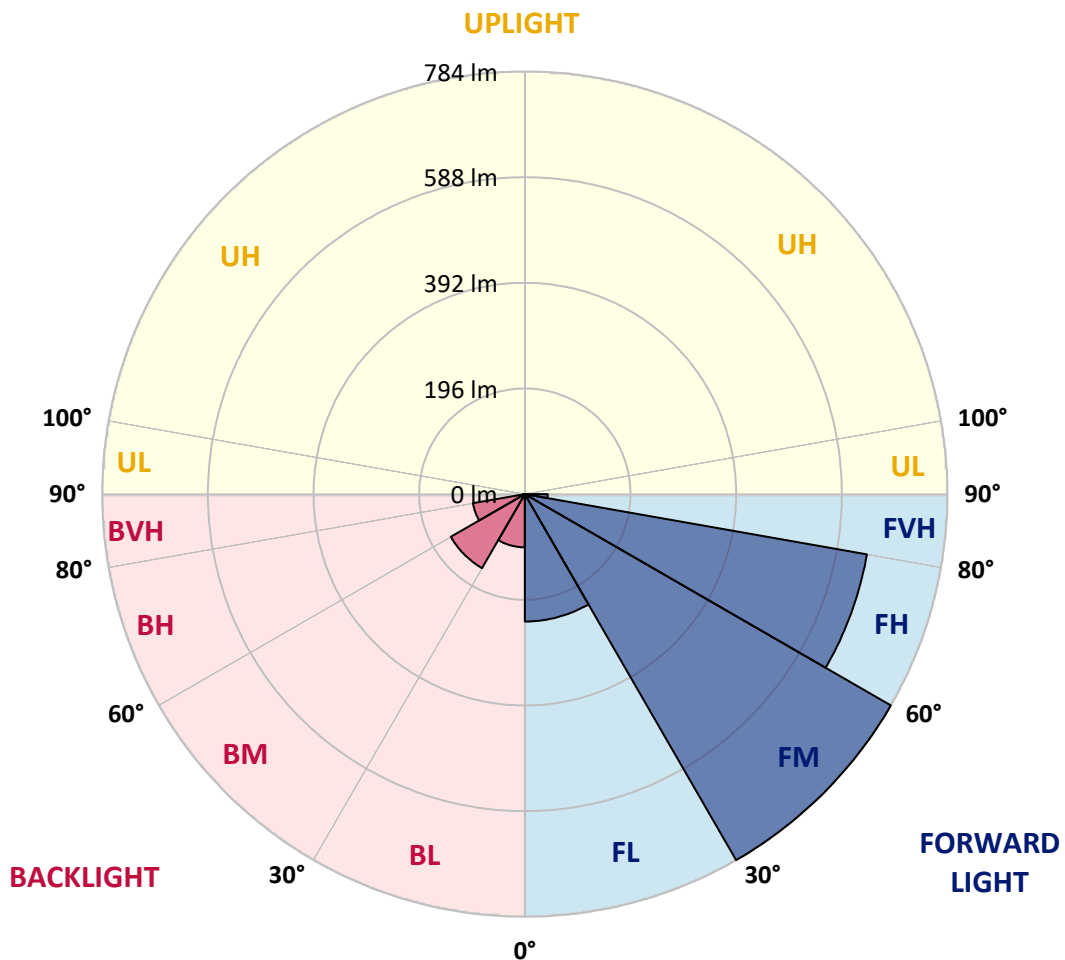


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	236.1	11.4			
FM (30°-60°)	783.6	38.0			
FH (60°-80°)	644.1	31.2			G0/660
FVH (80°-90°)	42.4	2.1			G1/100
BL (0°-30°)	98.6	4.8	B0/110		
BM (30°-60°)	158.4	7.7	B0/220		
BH (60°-80°)	97.6	4.7	B0/110		G0/110
BVH (80°-90°)	3.9	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°	776.3	776.3	776.3	776.3	776.3	776.3	776.3	776.3	776.3	776.3	776.3
2.5°	806.6	823.7	824.3	832.0	839.7	839.7	857.9	853.5	837.5	834.8	823.2
5°	812.7	818.8	823.2	862.3	895.4	892.1	902.0	895.4	864.5	824.8	797.8
7.5°	760.3	766.9	784.6	851.3	896.0	910.9	929.6	888.2	855.7	784.0	732.2
10°	690.9	703.5	736.1	812.2	867.3	914.7	914.7	881.6	818.8	748.8	685.3
12.5°	652.3	677.6	695.3	772.5	844.1	876.7	875.6	857.9	817.1	728.9	657.2
15°	658.9	666.0	703.5	763.6	811.1	809.4	829.3	823.7	795.1	746.5	667.7
17.5°	689.2	700.2	732.8	763.6	786.2	779.6	779.1	805.5	807.2	776.3	706.8
20°	738.8	771.4	786.8	796.2	768.6	740.5	737.2	774.1	802.8	814.4	753.7
22.5°	818.2	839.7	871.2	823.2	751.5	716.2	709.6	750.4	808.3	859.6	814.4
25°	896.0	912.5	942.8	881.1	770.8	711.3	699.7	735.0	829.3	922.4	887.7
27.5°	978.1	992.5	995.8	923.5	781.3	701.3	687.6	735.0	846.9	955.5	975.4
30°	1028.3	1045.4	1048.7	961.0	798.4	709.6	703.0	738.3	859.0	983.6	1038.2
32.5°	1084.5	1088.9	1086.2	967.6	817.1	733.9	706.3	760.3	872.8	1017.3	1095.6
35°	1151.8	1159.5	1131.4	998.0	859.0	749.3	739.4	787.3	896.5	1032.7	1165.0
37.5°	1203.1	1227.3	1163.9	1009.5	867.3	781.8	783.5	843.6	913.1	1051.4	1241.7
40°	1299.6	1258.8	1219.1	1049.2	898.7	837.0	828.1	901.5	968.7	1063.6	1291.8
42.5°	1352.5	1331.0	1240.6	1053.1	947.2	913.1	915.3	967.1	998.0	1097.8	1305.6
45°	1365.7	1343.1	1269.8	1055.9	995.2	1002.9	1041.0	1050.9	1041.0	1120.4	1331.5
47.5°	1399.4	1350.3	1266.5	1092.8	1073.0	1102.7	1151.2	1172.7	1099.4	1112.1	1343.7
50°	1392.7	1364.6	1259.3	1108.2	1167.8	1246.6	1279.2	1270.3	1164.5	1095.0	1330.4
52.5°	1365.2	1334.9	1281.4	1150.1	1256.6	1351.9	1397.2	1375.1	1222.4	1133.6	1321.6
55°	1405.4	1382.3	1310.0	1206.9	1323.3	1444.6	1476.6	1460.0	1293.5	1169.4	1371.8
57.5°	1449.0	1444.0	1387.8	1273.6	1402.1	1540.0	1540.0	1519.6	1355.3	1221.3	1446.2
60°	1511.8	1522.9	1445.1	1317.8	1429.1	1534.4	1614.4	1590.7	1417.6	1312.2	1530.6
62.5°	1491.4	1526.7	1519.0	1412.6	1460.0	1561.5	1605.0	1622.7	1494.7	1423.1	1643.1
65°	1425.8	1463.3	1518.5	1474.9	1436.9	1495.8	1517.9	1571.4	1533.3	1527.3	1689.4
67.5°	1347.5	1388.3	1422.5	1516.8	1390.0	1429.1	1409.8	1426.9	1491.4	1641.4	1715.8
70°	1176.6	1215.8	1269.8	1423.6	1265.9	1230.6	1225.7	1217.4	1317.8	1600.6	1595.6
72.5°	967.6	985.8	1075.2	1157.3	936.8	930.2	937.9	928.5	1044.8	1449.0	1366.8
75°	724.5	742.7	793.4	888.8	637.9	599.9	644.0	687.6	797.8	1124.8	982.0
77.5°	544.7	567.9	599.9	664.9	468.1	408.6	414.6	456.0	576.7	900.9	550.3
80°	353.4	350.7	412.4	457.6	352.3	363.3	347.9	378.2	417.9	481.9	281.2
82.5°	204.0	206.8	232.7	262.4	245.4	280.6	202.4	338.0	298.3	196.3	104.8
85°	114.7	119.6	143.4	181.9	153.8	103.1	84.4	167.6	187.5	80.5	50.7
87.5°	11.6	9.9	19.3	68.9	41.9	17.1	25.4	40.2	45.2	30.3	14.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	776.3	776.3	776.3	776.3	776.3	776.3	776.3	776.3	776.3	776.3	776.3
2.5°	806.6	806.6	792.9	769.7	760.3	743.8	721.2	728.4	720.6	692.5	685.3
5°	773.6	747.1	718.4	683.1	662.7	620.8	607.6	583.9	587.8	564.0	565.1
7.5°	704.6	683.7	635.2	588.9	548.6	512.2	460.9	441.6	422.9	413.5	424.5
10°	664.4	625.2	559.1	498.4	445.0	412.4	378.2	351.8	327.5	309.3	305.5
12.5°	635.2	600.4	520.5	446.6	404.7	378.2	346.8	310.4	286.7	255.3	245.9
15°	626.3	583.9	499.5	426.2	385.4	341.8	306.0	270.2	239.3	206.2	194.6
17.5°	656.7	607.6	499.0	409.7	352.3	305.5	255.8	215.6	184.2	153.8	146.7
20°	708.0	633.0	515.0	399.7	320.9	258.0	201.8	161.5	126.3	106.4	101.5
22.5°	766.4	676.0	516.6	373.3	289.5	210.6	147.2	106.4	86.6	77.2	74.4
25°	838.1	744.9	536.5	351.8	252.5	159.9	104.8	81.6	70.0	64.5	63.4
27.5°	897.1	792.9	558.0	329.2	216.1	118.5	82.2	66.7	60.6	55.1	54.6
30°	958.3	848.0	564.0	315.4	184.7	97.6	70.6	59.0	52.4	49.6	49.1
32.5°	1011.8	908.1	583.3	292.8	154.9	86.0	64.0	52.9	48.5	44.1	43.6
35°	1080.7	942.8	592.7	280.6	143.9	77.7	58.4	48.5	41.9	39.1	38.0
37.5°	1154.6	976.5	598.8	271.3	134.5	72.8	55.1	45.8	39.7	35.8	34.7
40°	1223.5	1023.9	590.0	259.7	127.4	66.7	52.9	42.5	36.9	33.1	31.4
42.5°	1276.4	1070.2	587.2	248.7	119.6	64.5	50.2	40.8	34.7	30.3	29.8
45°	1306.2	1101.6	567.9	239.8	113.6	65.6	49.1	38.6	33.1	29.2	27.0
47.5°	1299.0	1125.9	572.9	237.1	105.3	61.2	48.5	36.9	30.3	27.0	25.4
50°	1338.7	1175.0	564.6	228.3	99.2	55.1	52.9	36.9	29.8	25.9	24.3
52.5°	1345.3	1219.6	582.2	212.3	89.9	50.7	52.4	36.4	28.7	24.8	22.6
55°	1400.5	1271.4	616.4	203.5	82.2	44.1	48.0	35.3	25.9	22.6	21.5
57.5°	1475.4	1379.0	638.5	195.2	71.7	38.6	40.2	34.7	23.7	21.0	19.3
60°	1547.7	1422.0	640.1	180.3	61.8	34.7	31.4	34.7	22.1	18.7	17.1
62.5°	1601.7	1422.0	629.1	167.6	54.0	30.9	27.6	33.1	19.8	16.5	15.4
65°	1572.5	1383.9	600.4	157.1	49.1	27.0	23.7	25.4	17.6	14.3	13.2
67.5°	1520.1	1265.4	537.0	144.5	48.5	23.7	20.4	18.7	15.4	12.7	11.6
70°	1436.3	1105.5	447.2	130.1	47.4	21.5	18.2	16.0	13.8	11.0	9.9
72.5°	1157.3	913.1	367.2	121.9	46.3	18.7	15.4	13.8	11.6	9.4	8.3
75°	801.7	583.3	282.8	104.2	45.2	17.1	14.3	12.1	9.9	7.7	7.2
77.5°	480.8	389.8	182.5	78.3	29.8	13.8	12.1	9.4	8.3	6.6	6.1
80°	225.0	184.2	73.9	30.3	14.3	9.9	8.3	7.2	6.6	5.5	5.0
82.5°	88.2	77.7	35.8	17.6	11.6	7.7	6.6	6.1	5.5	4.4	3.9
85°	47.4	41.9	17.1	12.1	8.3	5.5	5.5	5.0	4.4	3.9	3.3
87.5°	10.5	7.7	7.2	7.2	6.1	4.4	4.4	3.9	3.3	2.8	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°	776.3	776.3	776.3	776.3	776.3	776.3	776.3	776.3	776.3	776.3	776.3
2.5°	681.5	689.8	676.5	684.8	673.2	682.0	683.1	674.9	677.1	688.1	693.1
5°	580.6	575.1	562.9	559.1	559.6	552.5	555.2	559.1	565.1	568.5	578.4
7.5°	418.5	431.2	430.6	440.0	440.5	439.4	431.7	415.2	420.7	416.3	421.8
10°	299.4	304.9	315.4	321.4	332.5	326.4	308.8	302.1	298.8	298.3	303.8
12.5°	239.3	226.1	225.0	227.2	232.7	225.5	216.7	209.0	212.8	220.5	226.6
15°	185.3	174.2	159.9	157.7	158.8	155.5	146.1	136.2	138.9	146.7	151.1
17.5°	142.3	129.6	119.6	113.0	110.8	99.2	85.5	77.2	75.0	74.4	78.3
20°	95.9	93.7	92.1	83.8	83.8	67.3	55.7	49.6	49.6	50.7	51.3
22.5°	71.7	68.9	69.5	67.8	63.4	50.2	44.1	42.5	42.5	43.6	43.6
25°	62.3	58.4	57.3	56.8	52.4	43.0	38.6	36.9	36.9	38.0	38.0
27.5°	52.9	51.8	50.2	48.0	44.1	36.9	34.2	32.5	33.1	33.6	33.1
30°	48.5	45.8	43.6	43.6	39.1	33.1	30.9	29.8	28.7	29.8	30.3
32.5°	43.0	41.4	40.2	38.6	33.6	29.2	27.0	25.9	25.4	25.4	25.9
35°	36.9	36.9	35.8	33.6	29.2	26.5	23.7	22.6	22.1	22.6	22.6
37.5°	33.1	31.4	32.0	29.8	25.9	23.2	20.4	19.3	19.3	18.7	19.3
40°	30.9	28.1	26.5	25.4	23.2	19.8	17.6	16.5	16.0	16.0	16.0
42.5°	27.6	25.4	22.1	21.5	21.0	17.1	14.3	13.8	13.2	12.7	12.7
45°	25.9	22.6	19.8	17.1	17.1	14.3	12.1	11.0	10.5	9.9	10.5
47.5°	23.7	20.4	17.1	14.3	13.8	11.6	9.4	8.3	7.7	7.7	7.7
50°	22.6	18.2	14.9	12.1	10.5	9.4	7.2	6.1	5.5	5.5	5.5
52.5°	21.0	17.1	13.2	10.5	8.3	7.2	5.5	4.4	3.9	3.9	3.9
55°	18.7	15.4	11.6	8.8	7.2	5.5	3.9	2.8	2.2	2.2	2.2
57.5°	17.6	13.8	9.9	7.7	5.5	3.9	2.2	1.7	1.7	1.1	1.7
60°	16.0	12.1	8.3	6.1	4.4	2.8	1.7	0.6	0.6	0.6	0.6
62.5°	13.8	10.5	7.2	5.0	3.3	1.7	0.6	0.0	0.0	0.0	0.0
65°	11.6	8.3	5.5	3.9	2.2	0.6	0.0	0.0	0.0	0.0	0.0
67.5°	9.9	7.2	4.4	2.8	1.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	8.8	6.1	3.3	2.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7.2	5.0	2.8	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	6.1	3.9	1.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.0	2.8	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.9	2.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	0.6	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°	776.3	776.3	776.3	776.3	776.3	776.3	776.3	776.3	776.3	776.3
2.5°	700.2	696.9	713.5	740.5	754.3	781.3	787.9	805.0	800.6	806.6
5°	579.5	586.1	610.4	650.1	664.4	703.5	740.5	777.4	801.1	812.7
7.5°	430.1	452.1	481.9	518.3	555.2	606.5	669.4	712.4	735.5	760.3
10°	320.3	344.1	378.2	414.1	474.2	531.5	594.4	647.9	667.7	690.9
12.5°	252.0	288.9	328.6	367.2	403.0	457.6	535.4	613.1	634.6	652.3
15°	175.3	220.5	277.3	327.5	377.7	425.1	505.6	599.9	629.1	658.9
17.5°	97.0	132.9	197.9	268.5	342.4	415.2	515.5	624.1	668.3	689.2
20°	56.2	70.6	116.9	200.7	298.3	393.7	520.5	669.9	728.4	738.8
22.5°	46.3	51.3	66.2	125.7	244.3	379.9	545.8	733.9	793.4	818.2
25°	39.7	43.6	51.3	75.5	184.7	350.7	561.8	813.8	868.9	896.0
27.5°	35.3	39.1	45.2	55.7	125.7	310.4	588.3	886.0	941.2	978.1
30°	30.9	34.2	40.2	47.4	87.1	265.2	610.9	939.0	1016.7	1028.3
32.5°	27.6	30.3	34.7	40.8	64.5	201.2	629.1	993.6	1059.2	1084.5
35°	23.7	27.0	29.8	34.7	49.1	151.6	618.1	1036.0	1121.5	1151.8
37.5°	21.0	23.2	25.9	29.2	41.4	118.5	595.5	1086.7	1175.0	1203.1
40°	17.6	19.3	22.6	25.9	37.5	91.5	569.6	1147.9	1249.9	1299.6
42.5°	14.9	16.5	18.7	24.3	30.9	67.8	517.2	1195.4	1310.6	1352.5
45°	11.6	13.8	17.1	24.3	24.8	50.2	463.1	1230.6	1344.8	1365.7
47.5°	8.8	11.0	16.5	21.0	19.8	34.7	399.2	1270.9	1380.1	1399.4
50°	6.6	8.8	18.7	18.2	16.5	26.5	358.9	1299.0	1382.3	1392.7
52.5°	4.4	6.6	15.4	13.8	13.8	23.2	347.9	1297.9	1387.8	1365.2
55°	3.3	5.0	8.8	9.9	12.1	20.4	338.0	1339.3	1389.4	1405.4
57.5°	2.2	3.9	6.1	7.7	10.5	17.6	317.6	1388.9	1440.7	1449.0
60°	1.1	2.8	4.4	6.1	8.8	15.4	288.9	1425.3	1503.0	1511.8
62.5°	0.6	1.7	3.3	5.0	7.2	12.1	259.1	1367.4	1476.0	1491.4
65°	0.0	1.1	2.2	3.3	4.4	8.8	210.6	1234.5	1369.0	1425.8
67.5°	0.0	0.0	1.1	2.2	2.8	6.6	158.8	1123.1	1270.3	1347.5
70°	0.0	0.0	0.6	0.6	1.7	5.0	101.5	930.2	1134.2	1176.6
72.5°	0.0	0.0	0.0	0.0	0.6	3.3	59.0	690.9	888.8	967.6
75°	0.0	0.0	0.0	0.0	0.0	2.8	29.8	444.4	618.6	724.5
77.5°	0.0	0.0	0.0	0.0	0.0	2.2	16.0	286.7	456.0	544.7
80°	0.0	0.0	0.0	0.0	0.0	0.6	9.4	166.5	291.7	353.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.9	81.6	174.2	204.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	43.6	87.1	114.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	6.1	11.6
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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