

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: P671755

Luminaire Tested: **CCP-SA-1A-850-U-SLL**

Issue Date: 04/16/2023

Test Information

Test Method: LM-79-08
Report Number: P671755
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1A-850-U-SLL
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ SLL
distribution lens
Light Source: (16) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1980.8 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

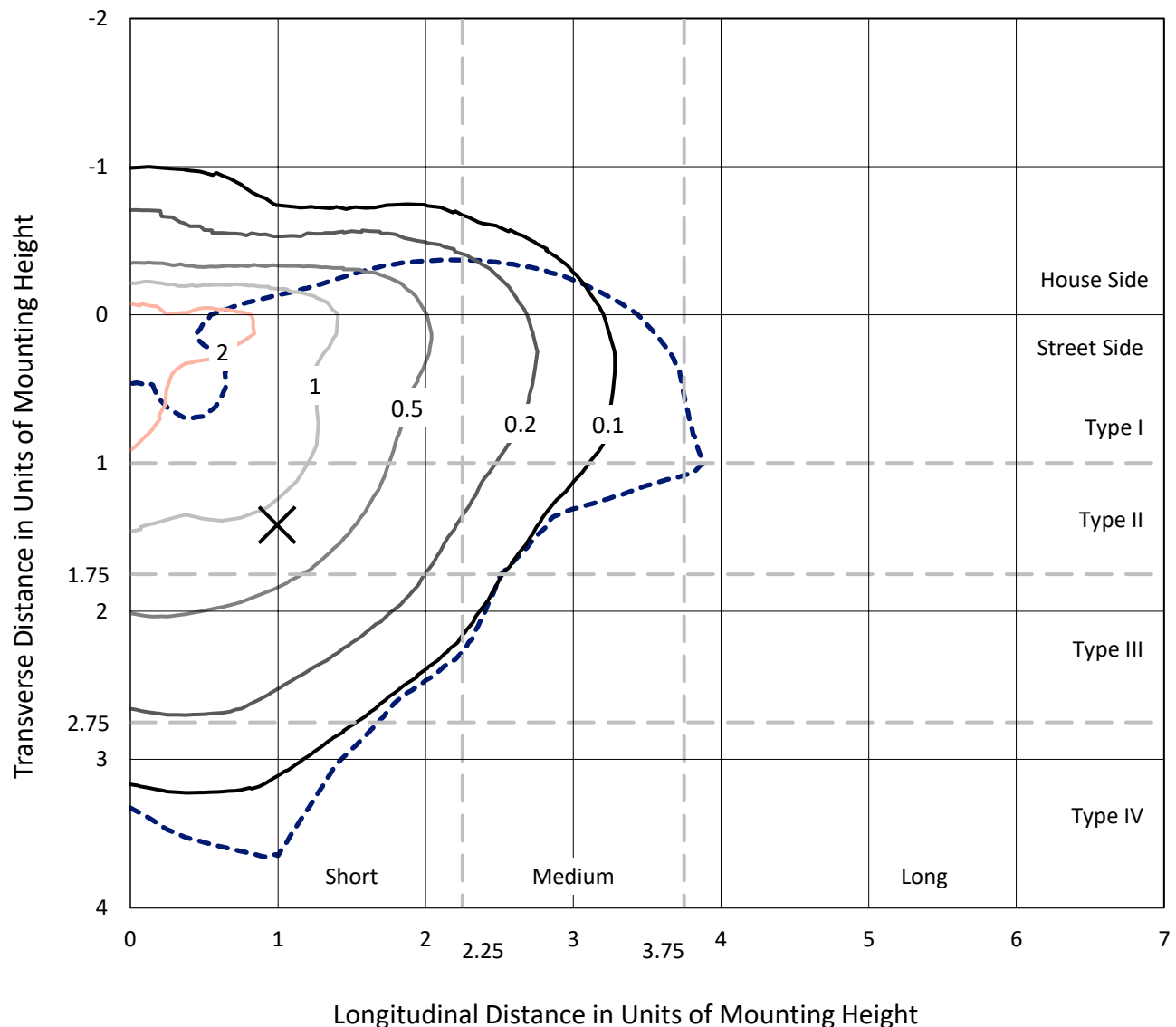
Input Watts (W): 18
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

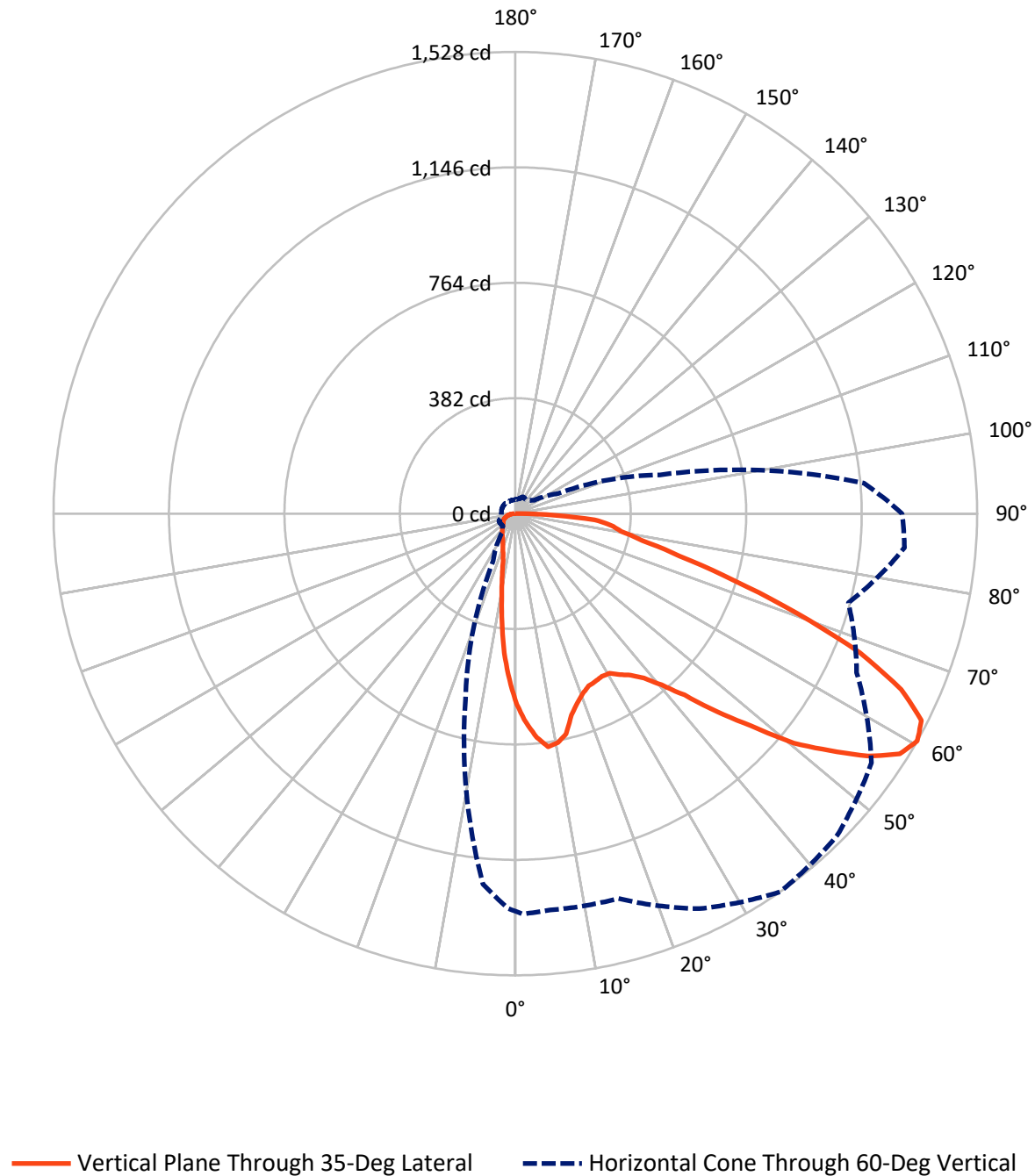
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	377.0	0.0	377.0
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	1603.8	0.0	1603.8
	% Fixture	81.0	0.0	81.0
Total	Lumens	1980.8	0.0	1980.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.1	2.5
10°-20°	103.8	5.2
20°-30°	151.8	7.7
30°-40°	213.9	10.8
40°-50°	294.0	14.8
50°-60°	400.7	20.2
60°-70°	438.5	22.1
70°-80°	253.2	12.8
80°-90°	75.8	3.8
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°	1980.8	100.0
0°-180°	1980.8	100.0

Coefficient of Utilization



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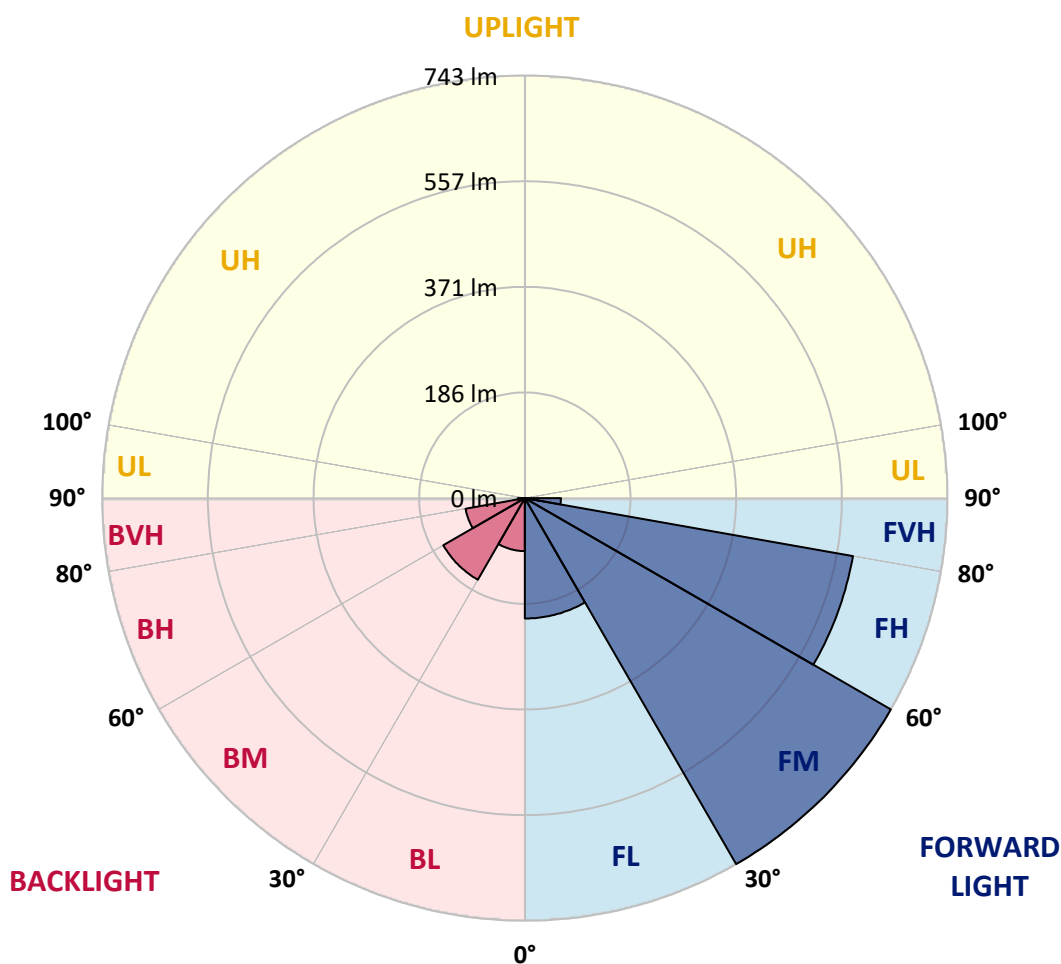
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	211.6	10.7			
FM	(30°-60°)	743.0	37.5			
FH	(60°-80°)	585.8	29.6			G0/660
FVH	(80°-90°)	63.5	3.2			G1/100
BL	(0°-30°)	93.1	4.7	B0/110		
BM	(30°-60°)	165.6	8.4	B0/220		
BH	(60°-80°)	105.9	5.3	B0/110		G0/110
BVH	(80°-90°)	12.4	0.6			G1/100
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°	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.7
2.5°	677.5	674.8	677.5	687.1	689.8	694.2	694.2	688.0	676.6	671.3	662.5
5°	692.4	688.0	710.0	730.2	746.0	744.2	729.3	717.0	694.2	659.9	627.4
7.5°	662.5	666.9	682.7	735.5	772.4	779.4	755.7	731.1	681.9	634.4	590.5
10°	606.3	612.4	646.7	701.2	759.2	770.6	755.7	725.8	666.9	608.0	557.1
12.5°	579.1	593.1	613.3	679.2	720.5	747.8	740.7	721.4	655.5	586.1	536.9
15°	579.1	582.6	612.4	667.8	691.5	692.4	695.0	698.6	659.0	595.7	529.8
17.5°	597.5	607.2	632.7	666.9	671.3	660.8	660.8	675.7	666.0	623.0	555.3
20°	642.3	638.8	672.2	686.3	662.5	636.2	633.5	659.0	673.9	652.0	601.9
22.5°	687.1	702.9	730.2	698.6	654.6	619.5	616.0	647.6	697.7	702.1	655.5
25°	754.8	770.6	784.7	746.0	653.7	615.1	617.7	642.3	726.7	773.2	745.1
27.5°	827.7	837.4	857.6	797.8	674.8	609.8	612.4	649.3	753.9	819.8	815.4
30°	869.0	879.6	875.2	807.5	688.9	613.3	606.3	659.0	739.0	819.8	861.1
32.5°	909.4	903.3	900.6	823.3	706.5	635.3	617.7	679.2	747.8	833.0	920.0
35°	958.6	949.9	942.8	854.1	735.5	656.4	648.5	705.6	767.1	860.2	967.4
37.5°	1013.1	1013.1	978.9	876.9	769.7	690.6	681.9	743.4	797.8	876.9	1032.5
40°	1077.3	1079.9	1019.3	907.7	808.4	745.1	742.5	792.6	827.7	901.5	1094.8
42.5°	1124.7	1126.5	1054.4	919.1	853.2	820.7	832.1	871.7	862.0	923.5	1099.2
45°	1157.2	1148.4	1079.0	951.6	902.4	934.0	937.6	949.0	906.8	936.7	1116.8
47.5°	1173.0	1171.3	1089.6	989.4	1006.1	1049.1	1069.4	1053.5	948.1	922.6	1116.8
50°	1188.9	1173.9	1099.2	1041.2	1107.1	1194.1	1189.7	1160.7	1005.2	940.2	1100.1
52.5°	1199.4	1186.2	1118.6	1087.8	1203.8	1302.2	1319.8	1266.2	1072.0	972.7	1108.0
55°	1237.2	1226.6	1176.6	1151.1	1315.4	1416.4	1419.1	1344.4	1142.3	1026.3	1159.9
57.5°	1282.9	1289.0	1256.5	1240.7	1400.6	1499.9	1490.2	1402.4	1202.0	1091.3	1219.6
60°	1315.4	1325.1	1317.1	1318.9	1442.8	1528.0	1506.1	1438.4	1246.0	1140.5	1292.5
62.5°	1297.8	1317.1	1349.7	1342.6	1444.6	1507.8	1477.1	1391.0	1251.2	1204.7	1347.9
65°	1249.5	1251.2	1314.5	1353.2	1365.5	1403.3	1362.8	1291.7	1196.8	1244.2	1340.0
67.5°	1125.6	1139.7	1196.8	1272.3	1220.5	1229.3	1225.8	1123.0	1114.2	1217.0	1279.4
70°	993.8	1003.5	1065.8	1154.6	1030.7	989.4	997.3	920.9	956.9	1132.6	1157.2
72.5°	821.6	827.7	898.9	977.1	826.8	753.0	771.5	709.1	760.1	991.2	976.2
75°	620.3	631.8	687.1	779.4	608.9	561.5	579.9	554.4	601.9	816.3	757.4
77.5°	441.1	432.3	500.8	609.8	457.8	429.7	431.4	435.8	486.8	688.0	543.9
80°	300.5	303.1	364.7	447.2	359.4	355.0	350.6	385.7	408.6	544.8	395.4
82.5°	178.4	178.4	246.0	318.1	283.8	319.8	299.6	331.3	319.8	400.7	259.2
85°	83.5	83.5	126.5	229.3	219.7	263.6	224.1	250.4	236.4	279.4	116.9
87.5°	14.1	12.3	25.5	112.5	90.5	102.8	40.4	133.6	148.5	195.1	29.0
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°	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.7
2.5°	652.9	646.7	634.4	618.6	605.4	588.7	583.4	572.0	556.2	554.4	547.4
5°	615.1	594.0	567.6	535.1	513.2	490.3	471.0	459.6	446.4	444.6	441.1
7.5°	573.8	547.4	503.5	464.8	427.0	391.0	373.4	351.5	336.5	325.1	319.8
10°	535.1	510.5	456.0	403.3	369.9	346.2	325.1	302.3	283.8	269.8	264.5
12.5°	509.6	480.6	421.8	371.7	347.1	319.8	296.1	271.5	247.8	229.3	219.7
15°	498.2	471.0	411.2	355.9	319.8	282.1	254.8	230.2	201.2	188.0	183.6
17.5°	525.5	485.0	407.7	337.4	286.5	243.4	210.0	183.6	162.6	149.4	144.1
20°	560.6	510.5	413.9	315.4	254.8	206.5	169.6	141.5	127.4	117.7	116.9
22.5°	605.4	548.3	423.5	299.6	219.7	166.1	132.7	116.0	106.3	105.4	103.7
25°	685.4	616.8	439.3	278.5	191.6	137.1	113.3	103.7	99.3	96.7	98.4
27.5°	753.9	661.6	450.8	265.4	180.1	129.2	109.8	99.3	94.9	94.0	94.9
30°	794.3	702.9	447.2	240.8	157.3	123.0	116.9	113.3	104.6	97.5	97.5
32.5°	831.2	729.3	446.4	218.8	134.4	102.8	97.5	94.9	100.2	103.7	101.0
35°	882.2	770.6	443.7	206.5	124.8	94.9	86.1	79.1	75.6	73.8	76.4
37.5°	936.7	798.7	436.7	204.7	119.5	90.5	83.5	76.4	72.9	71.2	70.3
40°	996.4	828.6	428.8	195.9	116.9	87.9	80.8	74.7	70.3	67.7	66.8
42.5°	1035.1	852.3	420.9	191.6	111.6	86.1	78.2	72.9	68.5	65.0	65.0
45°	1057.1	880.4	413.0	187.2	105.4	87.0	78.2	71.2	65.9	64.1	62.4
47.5°	1066.7	901.5	410.3	180.1	100.2	83.5	76.4	69.4	64.1	60.6	59.8
50°	1092.2	946.3	420.0	174.9	94.0	80.0	80.8	68.5	63.3	58.9	58.0
52.5°	1107.1	982.4	441.1	166.9	89.6	75.6	79.1	66.8	60.6	56.2	56.2
55°	1161.6	1042.1	463.9	160.8	84.4	69.4	72.9	63.3	56.2	53.6	53.6
57.5°	1231.0	1105.4	483.3	158.2	80.8	65.0	65.0	61.5	53.6	50.1	49.2
60°	1279.4	1157.2	494.7	156.4	77.3	60.6	58.0	61.5	51.0	47.4	46.6
62.5°	1284.6	1127.3	483.3	155.5	76.4	56.2	52.7	58.9	48.3	44.8	43.1
65°	1251.2	1066.7	451.6	152.0	75.6	51.8	49.2	51.0	44.8	42.2	40.4
67.5°	1184.5	968.3	406.0	150.3	74.7	48.3	44.8	43.9	41.3	38.7	36.9
70°	1028.9	840.0	352.4	142.3	72.9	45.7	40.4	39.5	36.9	35.1	34.3
72.5°	863.7	687.1	290.8	131.8	69.4	41.3	36.9	35.1	34.3	31.6	30.8
75°	661.6	529.0	232.9	116.9	60.6	36.9	32.5	30.8	29.9	28.1	27.2
77.5°	464.8	393.6	172.2	94.9	51.0	33.4	29.0	27.2	26.4	23.7	23.7
80°	315.4	275.9	116.9	65.9	39.5	27.2	25.5	23.7	22.0	20.2	20.2
82.5°	195.9	193.3	84.4	43.1	29.0	22.0	20.2	20.2	17.6	15.8	15.8
85°	89.6	118.6	58.9	29.9	22.0	16.7	16.7	15.8	14.1	11.4	11.4
87.5°	28.1	39.5	30.8	13.2	12.3	9.7	9.7	8.8	8.8	7.0	7.0
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°	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.7
2.5°	554.4	553.6	553.6	550.1	558.8	558.8	564.1	559.7	562.4	563.2	570.3
5°	440.2	447.2	452.5	463.1	469.2	471.9	471.9	478.9	476.2	481.5	492.1
7.5°	322.5	331.3	347.1	360.3	370.8	374.3	373.4	375.2	377.8	371.7	373.4
10°	261.0	254.8	260.1	272.4	282.1	293.5	284.7	283.8	286.5	283.8	289.1
12.5°	217.9	210.9	206.5	206.5	213.5	218.8	216.2	220.5	230.2	232.9	239.0
15°	176.6	170.5	166.9	162.6	169.6	171.3	174.0	180.1	187.2	190.7	197.7
17.5°	141.5	141.5	141.5	138.0	140.6	143.2	144.1	152.0	152.9	156.4	159.0
20°	116.0	118.6	123.0	124.8	127.4	127.4	125.7	130.0	126.5	129.2	130.9
22.5°	104.6	108.1	109.8	110.7	114.2	115.1	110.7	111.6	112.5	109.8	110.7
25°	98.4	100.2	98.4	99.3	100.2	98.4	99.3	101.0	100.2	101.9	101.0
27.5°	95.8	94.0	93.1	92.3	92.3	90.5	91.4	91.4	93.1	94.0	94.0
30°	95.8	93.1	89.6	87.0	87.0	84.4	86.1	87.9	88.7	90.5	90.5
32.5°	98.4	93.1	87.0	84.4	81.7	80.0	81.7	84.4	87.9	88.7	89.6
35°	78.2	80.8	80.0	76.4	75.6	75.6	74.7	74.7	72.1	72.1	71.2
37.5°	70.3	69.4	71.2	72.1	72.9	70.3	70.3	66.8	65.9	66.8	66.8
40°	65.9	65.9	65.9	68.5	69.4	67.7	65.0	63.3	63.3	63.3	64.1
42.5°	64.1	62.4	61.5	63.3	65.9	64.1	61.5	60.6	60.6	61.5	61.5
45°	61.5	60.6	59.8	58.9	62.4	59.8	58.9	58.0	58.0	58.0	58.9
47.5°	58.9	58.0	56.2	56.2	57.1	56.2	55.4	55.4	55.4	57.1	57.1
50°	57.1	56.2	54.5	54.5	54.5	54.5	53.6	53.6	53.6	54.5	55.4
52.5°	54.5	53.6	52.7	51.8	51.8	51.8	51.8	51.8	51.8	52.7	53.6
55°	51.8	51.0	50.1	50.1	51.0	51.0	50.1	51.0	50.1	51.0	51.8
57.5°	49.2	48.3	47.4	48.3	49.2	48.3	48.3	48.3	48.3	48.3	49.2
60°	45.7	45.7	45.7	45.7	47.4	47.4	47.4	47.4	45.7	46.6	47.4
62.5°	43.9	43.1	43.1	43.9	44.8	44.8	45.7	44.8	43.9	44.8	44.8
65°	40.4	40.4	40.4	41.3	41.3	42.2	42.2	42.2	41.3	42.2	42.2
67.5°	37.8	37.8	37.8	37.8	39.5	39.5	39.5	39.5	38.7	38.7	39.5
70°	33.4	34.3	33.4	35.1	36.9	36.0	36.9	36.9	36.0	35.1	36.9
72.5°	30.8	30.8	30.8	30.8	33.4	33.4	33.4	34.3	33.4	32.5	33.4
75°	27.2	27.2	27.2	28.1	29.9	29.9	29.9	29.9	29.9	29.0	29.0
77.5°	23.7	24.6	23.7	24.6	26.4	25.5	26.4	27.2	26.4	25.5	25.5
80°	20.2	20.2	20.2	21.1	22.0	22.0	22.0	22.8	22.0	21.1	21.1
82.5°	15.8	15.8	16.7	16.7	17.6	17.6	17.6	18.5	17.6	16.7	16.7
85°	12.3	12.3	12.3	13.2	13.2	14.1	14.1	14.9	14.9	14.1	14.1
87.5°	7.9	7.0	7.9	7.9	8.8	8.8	7.9	7.0	7.9	7.0	6.2
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.7
2.5°	577.3	593.1	604.5	612.4	623.9	645.8	654.6	670.4	674.8	677.5
5°	496.5	513.2	537.8	555.3	575.5	616.8	648.5	672.2	682.7	692.4
7.5°	389.3	411.2	436.7	459.6	492.9	543.9	585.2	634.4	652.9	662.5
10°	304.0	324.2	352.4	380.5	427.0	470.1	529.0	573.8	599.3	606.3
12.5°	256.6	280.3	313.7	348.0	377.0	426.2	485.9	550.9	574.7	579.1
15°	217.9	250.4	284.7	319.8	353.2	396.3	460.4	539.5	574.7	579.1
17.5°	180.1	209.1	249.5	287.3	326.0	384.9	464.8	549.2	584.3	597.5
20°	143.2	171.3	203.0	250.4	303.1	365.5	474.5	581.7	628.3	642.3
22.5°	118.6	130.9	161.7	207.4	269.8	352.4	484.2	632.7	681.9	687.1
25°	103.7	112.5	131.8	174.9	243.4	343.6	507.0	691.5	754.8	754.8
27.5°	96.7	100.2	113.3	152.0	224.9	335.7	529.8	756.5	815.4	827.7
30°	94.9	103.7	110.7	135.3	204.7	313.7	550.9	807.5	868.1	869.0
32.5°	93.1	91.4	96.7	117.7	180.1	290.8	568.5	859.4	906.8	909.4
35°	72.9	76.4	85.2	103.7	161.7	274.1	577.3	887.5	956.0	958.6
37.5°	68.5	72.9	80.0	95.8	149.4	260.1	579.9	941.9	1007.8	1013.1
40°	66.8	70.3	75.6	88.7	139.7	242.5	585.2	998.2	1084.3	1077.3
42.5°	63.3	67.7	72.9	85.2	131.8	229.3	586.1	1028.9	1124.7	1124.7
45°	62.4	65.0	71.2	85.2	123.0	217.9	572.0	1059.7	1171.3	1157.2
47.5°	58.9	64.1	69.4	82.6	112.5	206.5	555.3	1075.5	1177.4	1173.0
50°	58.0	63.3	72.1	78.2	106.3	201.2	551.8	1115.0	1189.7	1188.9
52.5°	56.2	61.5	74.7	74.7	98.4	194.2	568.5	1132.6	1192.4	1199.4
55°	53.6	61.5	69.4	68.5	91.4	185.4	587.0	1178.3	1238.9	1237.2
57.5°	51.8	59.8	65.9	62.4	83.5	179.3	614.2	1222.2	1295.2	1282.9
60°	49.2	59.8	58.9	58.0	77.3	174.0	637.0	1231.0	1307.5	1315.4
62.5°	47.4	62.4	51.8	53.6	72.1	171.3	627.4	1165.1	1290.8	1297.8
65°	45.7	53.6	47.4	49.2	70.3	166.1	589.6	1086.1	1218.7	1249.5
67.5°	42.2	43.9	43.9	45.7	68.5	153.8	512.3	943.7	1108.9	1125.6
70°	38.7	39.5	39.5	42.2	66.8	139.7	422.6	816.3	962.2	993.8
72.5°	35.1	35.1	35.1	38.7	61.5	128.3	348.0	627.4	799.6	821.6
75°	30.8	30.8	30.8	34.3	55.4	116.9	274.1	466.6	588.7	620.3
77.5°	27.2	27.2	26.4	30.8	48.3	94.9	197.7	329.5	414.7	441.1
80°	22.8	22.0	22.0	24.6	37.8	68.5	127.4	232.9	289.1	300.5
82.5°	18.5	17.6	16.7	18.5	27.2	43.1	79.1	162.6	185.4	178.4
85°	17.6	18.5	14.9	14.1	19.3	28.1	50.1	100.2	83.5	83.5
87.5°	7.0	6.2	6.2	5.3	9.7	10.5	22.0	18.5	14.1	14.1
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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