

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: P675820

Luminaire Tested: **CCW-SA-1A-730-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675820
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-730-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
SLL distribution lens
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

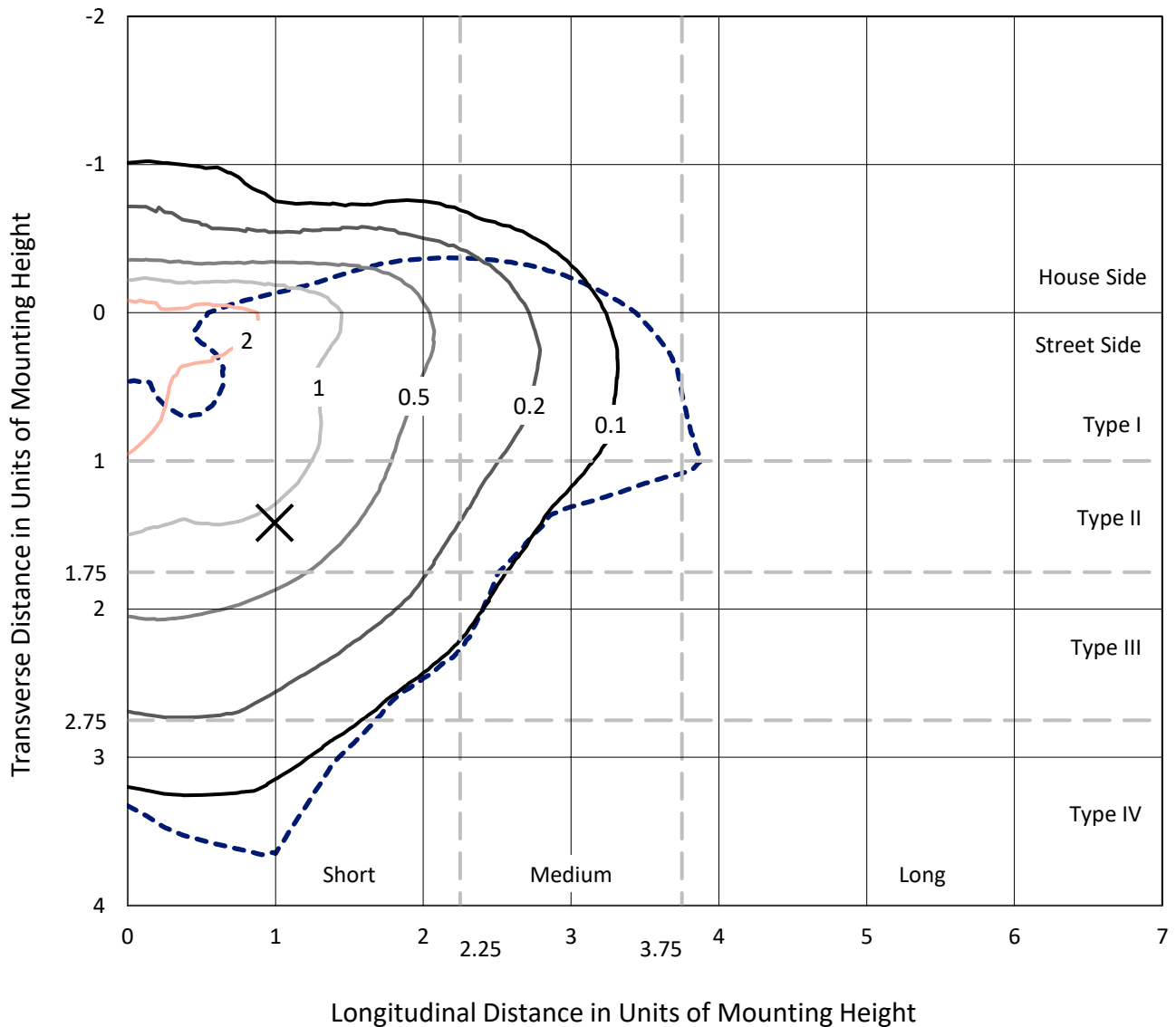
Lumens per Lamp: N/A
Luminaire Lumens: 2067 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

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

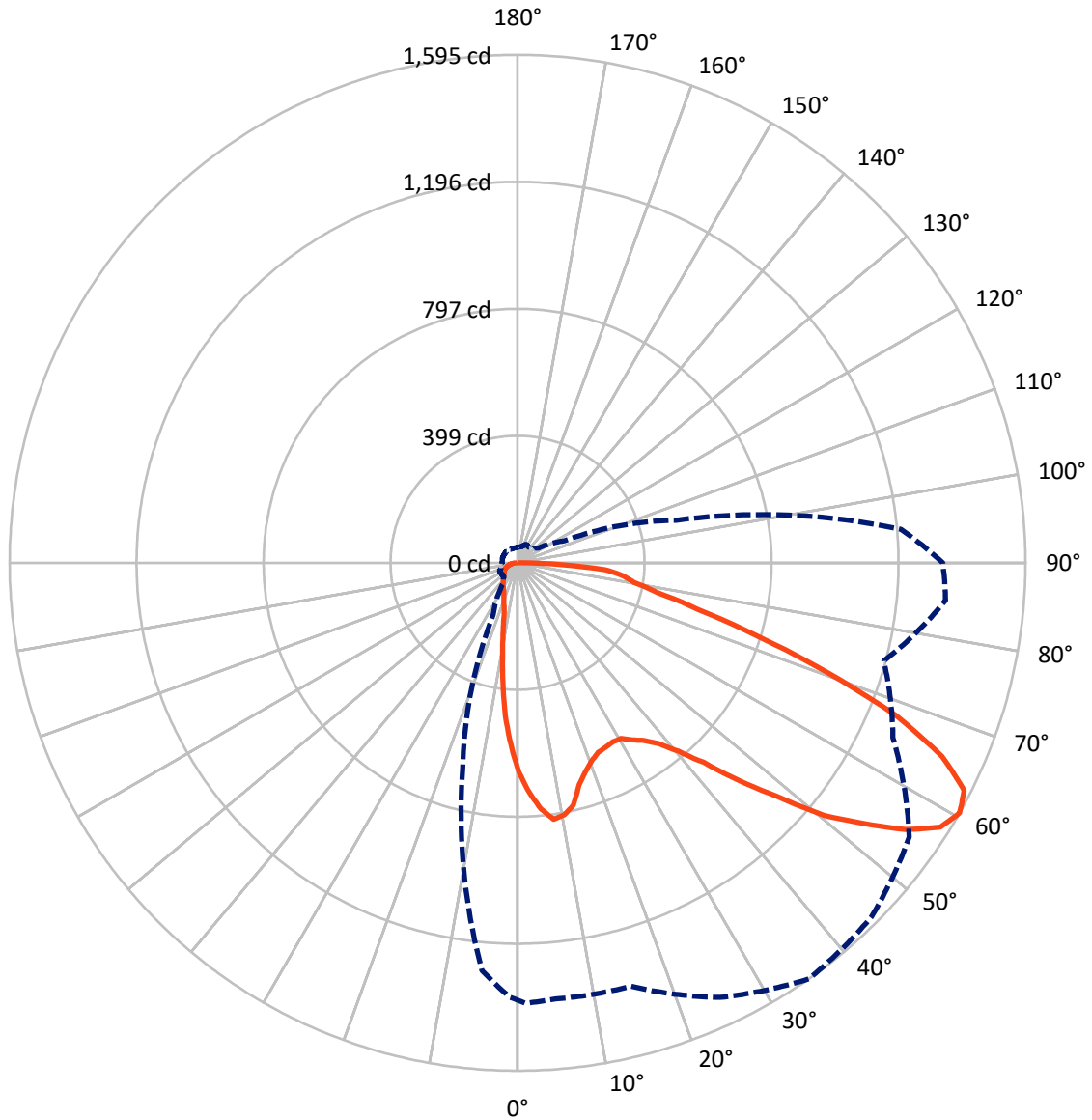
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	393.4	0.0	393.4
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	1673.7	0.0	1673.7
	% Fixture	81.0	0.0	81.0
Total	Lumens	2067.0	0.0	2067.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.3	2.5
10°-20°	108.3	5.2
20°-30°	158.4	7.7
30°-40°	223.2	10.8
40°-50°	306.8	14.8
50°-60°	418.1	20.2
60°-70°	457.6	22.1
70°-80°	264.2	12.8
80°-90°	79.1	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°	2067.0	100.0
0°-180°	2067.0	100.0

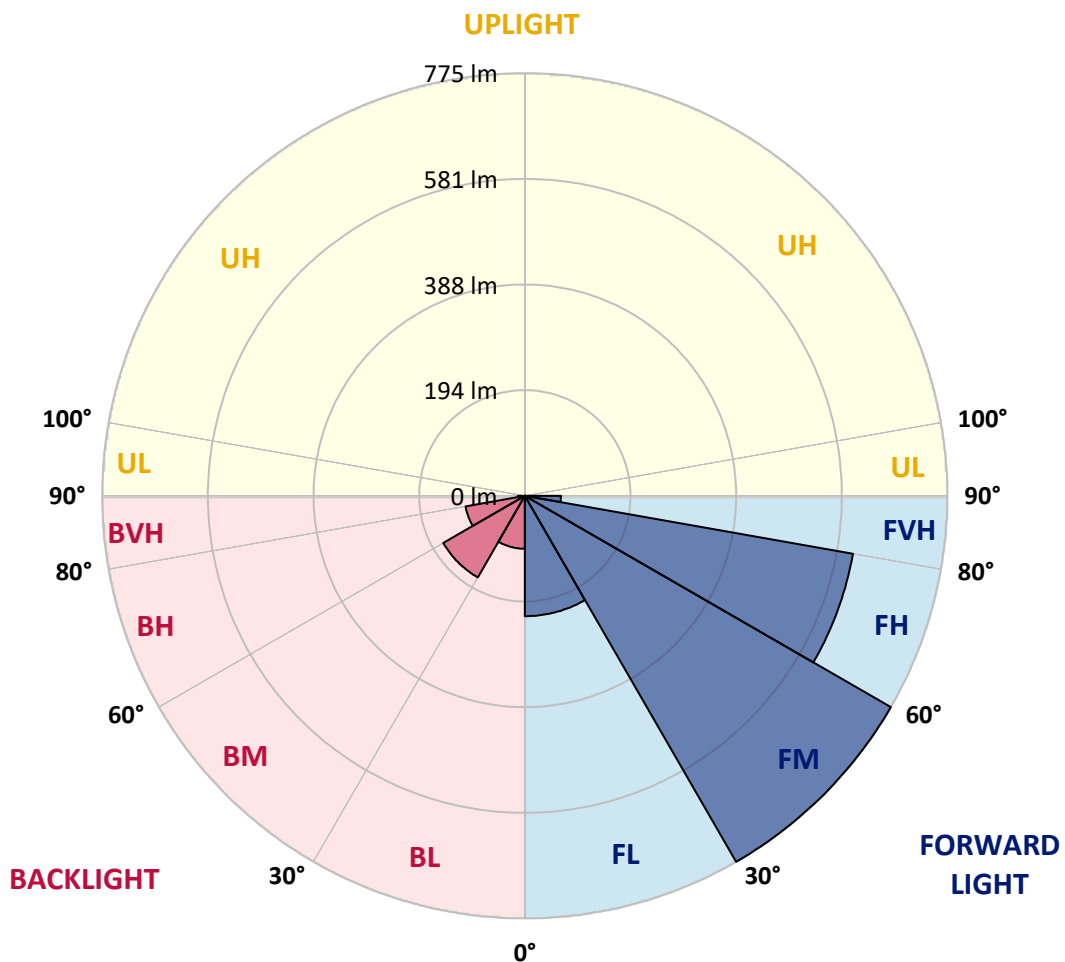


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	220.8	10.7			
FM (30°-60°)	775.3	37.5			
FH (60°-80°)	611.3	29.6			G0/660
FVH (80°-90°)	66.2	3.2			G1/100
BL (0°-30°)	97.2	4.7	B0/110		
BM (30°-60°)	172.8	8.4	B0/220		
BH (60°-80°)	110.5	5.3	B1/500		G1/500
BVH (80°-90°)	12.9	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	660.2	660.2	660.2	660.2	660.2	660.2	660.2	660.2	660.2	660.2	660.2
2.5°	707.0	704.2	707.0	717.1	719.8	724.4	724.4	718.0	706.0	700.5	691.4
5°	722.6	718.0	740.9	762.0	778.5	776.7	761.1	748.2	724.4	688.6	654.7
7.5°	691.4	696.0	712.5	767.5	806.0	813.3	788.6	762.9	711.6	662.0	616.2
10°	632.7	639.1	674.9	731.7	792.2	804.2	788.6	757.4	696.0	634.5	581.3
12.5°	604.3	618.9	640.0	708.8	751.9	780.3	773.0	752.8	684.0	611.6	560.3
15°	604.3	607.9	639.1	696.9	721.6	722.6	725.3	729.0	687.7	621.7	552.9
17.5°	623.5	633.6	660.2	696.0	700.5	689.5	689.5	705.1	695.0	650.1	579.5
20°	670.3	666.6	701.5	716.1	691.4	663.9	661.1	687.7	703.3	680.4	628.1
22.5°	717.1	733.6	762.0	729.0	683.1	646.4	642.8	675.8	728.1	732.6	684.0
25°	787.7	804.2	818.8	778.5	682.2	641.9	644.6	670.3	758.3	806.9	777.6
27.5°	863.8	873.8	894.9	832.6	704.2	636.4	639.1	677.6	786.7	855.5	850.9
30°	906.9	917.9	913.3	842.7	718.9	640.0	632.7	687.7	771.2	855.5	898.6
32.5°	949.0	942.6	939.9	859.2	737.2	663.0	644.6	708.8	780.3	869.3	960.0
35°	1000.4	991.2	983.9	891.3	767.5	685.0	676.7	736.3	800.5	897.7	1009.6
37.5°	1057.2	1057.2	1021.5	915.1	803.2	720.7	711.6	775.7	832.6	915.1	1077.4
40°	1124.2	1126.9	1063.7	947.2	843.6	777.6	774.8	827.1	863.8	940.8	1142.5
42.5°	1173.7	1175.5	1100.3	959.1	890.4	856.4	868.3	909.6	899.5	963.7	1147.1
45°	1207.6	1198.4	1126.0	993.1	941.7	974.7	978.4	990.3	946.3	977.5	1165.4
47.5°	1224.1	1222.3	1137.0	1032.5	1049.9	1094.8	1115.9	1099.4	989.4	962.8	1165.4
50°	1240.6	1225.0	1147.1	1086.6	1155.4	1246.1	1241.5	1211.3	1049.0	981.1	1148.0
52.5°	1251.6	1237.9	1167.3	1135.2	1256.2	1358.9	1377.3	1321.3	1118.7	1015.1	1156.3
55°	1291.1	1280.1	1227.8	1201.2	1372.7	1478.1	1480.9	1402.9	1192.0	1071.0	1210.4
57.5°	1338.7	1345.2	1311.2	1294.7	1461.6	1565.2	1555.1	1463.4	1254.4	1138.8	1272.7
60°	1372.7	1382.8	1374.5	1376.3	1505.6	1594.6	1571.6	1501.0	1300.2	1190.2	1348.8
62.5°	1354.3	1374.5	1408.4	1401.1	1507.5	1573.5	1541.4	1451.5	1305.7	1257.1	1406.6
65°	1303.9	1305.7	1371.8	1412.1	1424.9	1464.4	1422.2	1347.9	1248.9	1298.4	1398.3
67.5°	1174.6	1189.3	1248.9	1327.7	1273.6	1282.8	1279.1	1171.9	1162.7	1270.0	1335.1
70°	1037.1	1047.2	1112.3	1204.9	1075.6	1032.5	1040.7	961.0	998.6	1181.9	1207.6
72.5°	857.3	863.8	938.0	1019.6	862.8	785.8	805.1	740.0	793.2	1034.3	1018.7
75°	647.4	659.3	717.1	813.3	635.4	585.9	605.2	578.6	628.1	851.8	790.4
77.5°	460.3	451.1	522.7	636.4	477.7	448.4	450.2	454.8	508.0	718.0	567.6
80°	313.6	316.3	380.5	466.7	375.0	370.4	365.9	402.5	426.4	568.5	412.6
82.5°	186.1	186.1	256.7	331.9	296.2	333.8	312.7	345.7	333.8	418.1	270.5
85°	87.1	87.1	132.0	239.3	229.2	275.1	233.8	261.3	246.7	291.6	122.0
87.5°	14.7	12.8	26.6	117.4	94.4	107.3	42.2	139.4	155.0	203.6	30.3
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°	660.2	660.2	660.2	660.2	660.2	660.2	660.2	660.2	660.2	660.2	660.2
2.5°	681.3	674.9	662.0	645.5	631.8	614.4	608.9	596.9	580.4	578.6	571.3
5°	641.9	619.9	592.3	558.4	535.5	511.7	491.5	479.6	465.8	464.0	460.3
7.5°	598.8	571.3	525.4	485.1	445.6	408.0	389.7	366.8	351.2	339.3	333.8
10°	558.4	532.7	475.9	420.9	386.0	361.3	339.3	315.4	296.2	281.5	276.0
12.5°	531.8	501.6	440.1	387.9	362.2	333.8	309.0	283.3	258.6	239.3	229.2
15°	519.9	491.5	429.1	371.4	333.8	294.3	265.9	240.2	210.0	196.2	191.6
17.5°	548.3	506.2	425.5	352.1	298.9	254.0	219.2	191.6	169.6	155.9	150.4
20°	585.0	532.7	431.9	329.2	265.9	215.5	177.0	147.6	133.0	122.9	122.0
22.5°	631.8	572.2	442.0	312.7	229.2	173.3	138.5	121.0	111.0	110.0	108.2
25°	715.2	643.7	458.5	290.7	199.9	143.0	118.3	108.2	103.6	100.9	102.7
27.5°	786.7	690.5	470.4	276.9	188.0	134.8	114.6	103.6	99.0	98.1	99.0
30°	828.9	733.6	466.7	251.2	164.1	128.4	122.0	118.3	109.1	101.8	101.8
32.5°	867.4	761.1	465.8	228.3	140.3	107.3	101.8	99.0	104.5	108.2	105.4
35°	920.6	804.2	463.1	215.5	130.2	99.0	89.9	82.5	78.9	77.0	79.8
37.5°	977.5	833.5	455.7	213.6	124.7	94.4	87.1	79.8	76.1	74.3	73.4
40°	1039.8	864.7	447.5	204.5	122.0	91.7	84.4	77.9	73.4	70.6	69.7
42.5°	1080.2	889.4	439.2	199.9	116.5	89.9	81.6	76.1	71.5	67.9	67.9
45°	1103.1	918.8	431.0	195.3	110.0	90.8	81.6	74.3	68.8	66.9	65.1
47.5°	1113.2	940.8	428.2	188.0	104.5	87.1	79.8	72.4	66.9	63.3	62.4
50°	1139.8	987.6	438.3	182.5	98.1	83.4	84.4	71.5	66.0	61.4	60.5
52.5°	1155.4	1025.1	460.3	174.2	93.5	78.9	82.5	69.7	63.3	58.7	58.7
55°	1212.2	1087.5	484.1	167.8	88.0	72.4	76.1	66.0	58.7	55.9	55.9
57.5°	1284.6	1153.5	504.3	165.1	84.4	67.9	67.9	64.2	55.9	52.3	51.3
60°	1335.1	1207.6	516.2	163.2	80.7	63.3	60.5	64.2	53.2	49.5	48.6
62.5°	1340.6	1176.4	504.3	162.3	79.8	58.7	55.0	61.4	50.4	46.8	44.9
65°	1305.7	1113.2	471.3	158.6	78.9	54.1	51.3	53.2	46.8	44.0	42.2
67.5°	1236.0	1010.5	423.6	156.8	77.9	50.4	46.8	45.8	43.1	40.3	38.5
70°	1073.7	876.6	367.7	148.5	76.1	47.7	42.2	41.3	38.5	36.7	35.8
72.5°	901.4	717.1	303.5	137.5	72.4	43.1	38.5	36.7	35.8	33.0	32.1
75°	690.5	552.0	243.0	122.0	63.3	38.5	33.9	32.1	31.2	29.3	28.4
77.5°	485.1	410.8	179.7	99.0	53.2	34.8	30.3	28.4	27.5	24.8	24.8
80°	329.2	287.9	122.0	68.8	41.3	28.4	26.6	24.8	22.9	21.1	21.1
82.5°	204.5	201.7	88.0	44.9	30.3	22.9	21.1	21.1	18.3	16.5	16.5
85°	93.5	123.8	61.4	31.2	22.9	17.4	17.4	16.5	14.7	11.9	11.9
87.5°	29.3	41.3	32.1	13.8	12.8	10.1	10.1	9.2	9.2	7.3	7.3
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°	660.2	660.2	660.2	660.2	660.2	660.2	660.2	660.2	660.2	660.2	660.2
2.5°	578.6	577.7	577.7	574.0	583.2	583.2	588.7	584.1	586.8	587.8	595.1
5°	459.4	466.7	472.2	483.2	489.6	492.4	492.4	499.7	497.0	502.5	513.5
7.5°	336.5	345.7	362.2	375.9	387.0	390.6	389.7	391.5	394.3	387.9	389.7
10°	272.3	265.9	271.4	284.3	294.3	306.3	297.1	296.2	298.9	296.2	301.7
12.5°	227.4	220.1	215.5	215.5	222.8	228.3	225.6	230.2	240.2	243.0	249.4
15°	184.3	177.9	174.2	169.6	177.0	178.8	181.6	188.0	195.3	199.0	206.3
17.5°	147.6	147.6	147.6	144.0	146.7	149.5	150.4	158.6	159.5	163.2	166.0
20°	121.0	123.8	128.4	130.2	133.0	133.0	131.1	135.7	132.0	134.8	136.6
22.5°	109.1	112.8	114.6	115.5	119.2	120.1	115.5	116.5	117.4	114.6	115.5
25°	102.7	104.5	102.7	103.6	104.5	102.7	103.6	105.4	104.5	106.4	105.4
27.5°	99.9	98.1	97.2	96.3	96.3	94.4	95.4	95.4	97.2	98.1	98.1
30°	99.9	97.2	93.5	90.8	90.8	88.0	89.9	91.7	92.6	94.4	94.4
32.5°	102.7	97.2	90.8	88.0	85.3	83.4	85.3	88.0	91.7	92.6	93.5
35°	81.6	84.4	83.4	79.8	78.9	78.9	77.9	77.9	75.2	75.2	74.3
37.5°	73.4	72.4	74.3	75.2	76.1	73.4	73.4	69.7	68.8	69.7	69.7
40°	68.8	68.8	68.8	71.5	72.4	70.6	67.9	66.0	66.0	66.0	66.9
42.5°	66.9	65.1	64.2	66.0	68.8	66.9	64.2	63.3	63.3	64.2	64.2
45°	64.2	63.3	62.4	61.4	65.1	62.4	61.4	60.5	60.5	60.5	61.4
47.5°	61.4	60.5	58.7	58.7	59.6	58.7	57.8	57.8	57.8	59.6	59.6
50°	59.6	58.7	56.9	56.9	56.9	56.9	55.9	55.9	55.9	56.9	57.8
52.5°	56.9	55.9	55.0	54.1	54.1	54.1	54.1	54.1	54.1	55.0	55.9
55°	54.1	53.2	52.3	52.3	53.2	53.2	52.3	53.2	52.3	53.2	54.1
57.5°	51.3	50.4	49.5	50.4	51.3	50.4	50.4	50.4	50.4	50.4	51.3
60°	47.7	47.7	47.7	47.7	49.5	49.5	49.5	49.5	47.7	48.6	49.5
62.5°	45.8	44.9	44.9	45.8	46.8	46.8	47.7	46.8	45.8	46.8	46.8
65°	42.2	42.2	42.2	43.1	43.1	44.0	44.0	44.0	43.1	44.0	44.0
67.5°	39.4	39.4	39.4	39.4	41.3	41.3	41.3	41.3	40.3	40.3	41.3
70°	34.8	35.8	34.8	36.7	38.5	37.6	38.5	38.5	37.6	36.7	38.5
72.5°	32.1	32.1	32.1	32.1	34.8	34.8	34.8	35.8	34.8	33.9	34.8
75°	28.4	28.4	28.4	29.3	31.2	31.2	31.2	31.2	31.2	30.3	30.3
77.5°	24.8	25.7	24.8	25.7	27.5	26.6	27.5	28.4	27.5	26.6	26.6
80°	21.1	21.1	21.1	22.0	22.9	22.9	22.9	23.8	22.9	22.0	22.0
82.5°	16.5	16.5	17.4	17.4	18.3	18.3	18.3	19.3	18.3	17.4	17.4
85°	12.8	12.8	12.8	13.8	13.8	14.7	14.7	15.6	15.6	14.7	14.7
87.5°	8.3	7.3	8.3	8.3	9.2	9.2	8.3	7.3	8.3	7.3	6.4
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°	660.2	660.2	660.2	660.2	660.2	660.2	660.2	660.2	660.2	660.2
2.5°	602.4	618.9	630.9	639.1	651.0	674.0	683.1	699.6	704.2	707.0
5°	518.1	535.5	561.2	579.5	600.6	643.7	676.7	701.5	712.5	722.6
7.5°	406.2	429.1	455.7	479.6	514.4	567.6	610.7	662.0	681.3	691.4
10°	317.3	338.4	367.7	397.0	445.6	490.6	552.0	598.8	625.4	632.7
12.5°	267.7	292.5	327.3	363.1	393.4	444.7	507.1	574.9	599.7	604.3
15°	227.4	261.3	297.1	333.8	368.6	413.5	480.5	563.0	599.7	604.3
17.5°	188.0	218.2	260.4	299.8	340.2	401.6	485.1	573.1	609.8	623.5
20°	149.5	178.8	211.8	261.3	316.3	381.4	495.2	607.0	655.6	670.3
22.5°	123.8	136.6	168.7	216.4	281.5	367.7	505.2	660.2	711.6	717.1
25°	108.2	117.4	137.5	182.5	254.0	358.5	529.1	721.6	787.7	787.7
27.5°	100.9	104.5	118.3	158.6	234.7	350.3	552.9	789.5	850.9	863.8
30°	99.0	108.2	115.5	141.2	213.6	327.3	574.9	842.7	905.9	906.9
32.5°	97.2	95.4	100.9	122.9	188.0	303.5	593.3	896.8	946.3	949.0
35°	76.1	79.8	88.9	108.2	168.7	286.1	602.4	926.1	997.6	1000.4
37.5°	71.5	76.1	83.4	99.9	155.9	271.4	605.2	983.0	1051.7	1057.2
40°	69.7	73.4	78.9	92.6	145.8	253.1	610.7	1041.7	1131.5	1124.2
42.5°	66.0	70.6	76.1	88.9	137.5	239.3	611.6	1073.7	1173.7	1173.7
45°	65.1	67.9	74.3	88.9	128.4	227.4	596.9	1105.8	1222.3	1207.6
47.5°	61.4	66.9	72.4	86.2	117.4	215.5	579.5	1122.3	1228.7	1224.1
50°	60.5	66.0	75.2	81.6	111.0	210.0	575.8	1163.6	1241.5	1240.6
52.5°	58.7	64.2	77.9	77.9	102.7	202.6	593.3	1181.9	1244.3	1251.6
55°	55.9	64.2	72.4	71.5	95.4	193.5	612.5	1229.6	1292.9	1291.1
57.5°	54.1	62.4	68.8	65.1	87.1	187.1	640.9	1275.5	1351.6	1338.7
60°	51.3	62.4	61.4	60.5	80.7	181.6	664.8	1284.6	1364.4	1372.7
62.5°	49.5	65.1	54.1	55.9	75.2	178.8	654.7	1215.9	1347.0	1354.3
65°	47.7	55.9	49.5	51.3	73.4	173.3	615.3	1133.3	1271.8	1303.9
67.5°	44.0	45.8	45.8	47.7	71.5	160.5	534.6	984.8	1157.2	1174.6
70°	40.3	41.3	41.3	44.0	69.7	145.8	441.1	851.8	1004.1	1037.1
72.5°	36.7	36.7	36.7	40.3	64.2	133.9	363.1	654.7	834.4	857.3
75°	32.1	32.1	32.1	35.8	57.8	122.0	286.1	486.9	614.4	647.4
77.5°	28.4	28.4	27.5	32.1	50.4	99.0	206.3	343.9	432.8	460.3
80°	23.8	22.9	22.9	25.7	39.4	71.5	133.0	243.0	301.7	313.6
82.5°	19.3	18.3	17.4	19.3	28.4	44.9	82.5	169.6	193.5	186.1
85°	18.3	19.3	15.6	14.7	20.2	29.3	52.3	104.5	87.1	87.1
87.5°	7.3	6.4	6.4	5.5	10.1	11.0	22.9	19.3	14.7	14.7
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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