

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: P677315

Luminaire Tested: **CCW-SA-1A-827-U-SLL-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677315
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-827-U-SLL-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
SLL distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

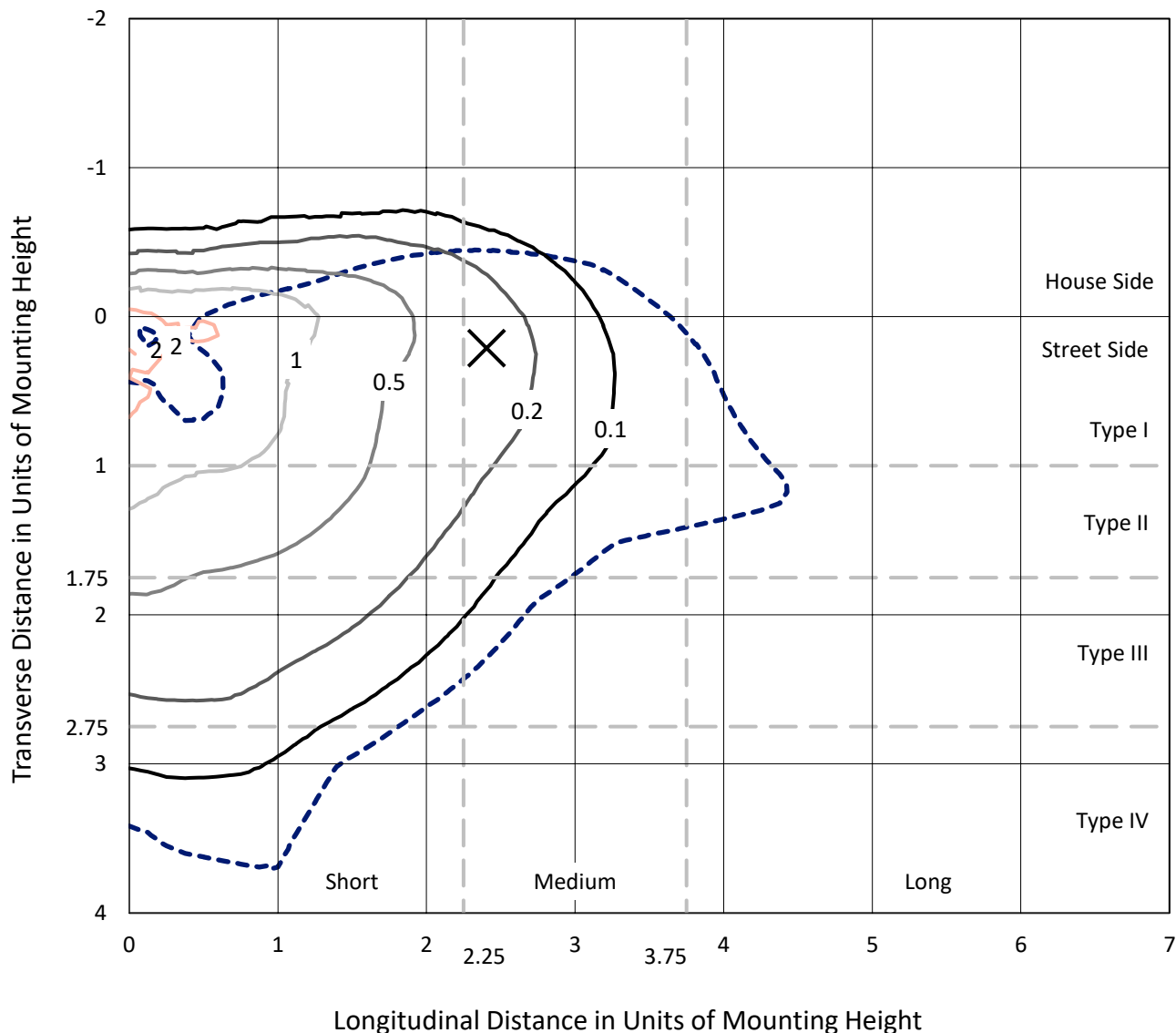
Lumens per Lamp: N/A
Luminaire Lumens: 1459.1 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B0 - U0 - G1

Input Watts (W): 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

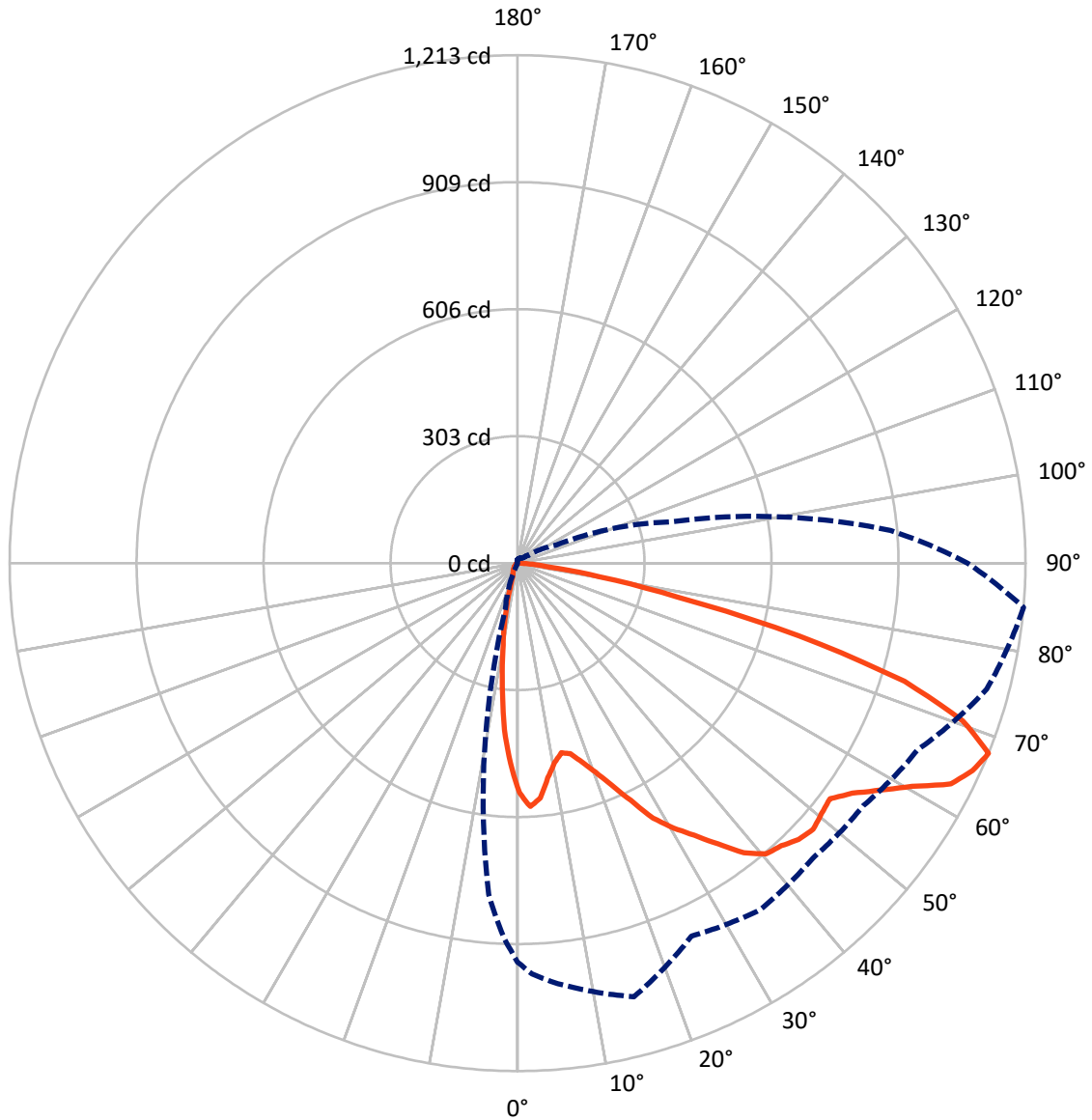
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.7 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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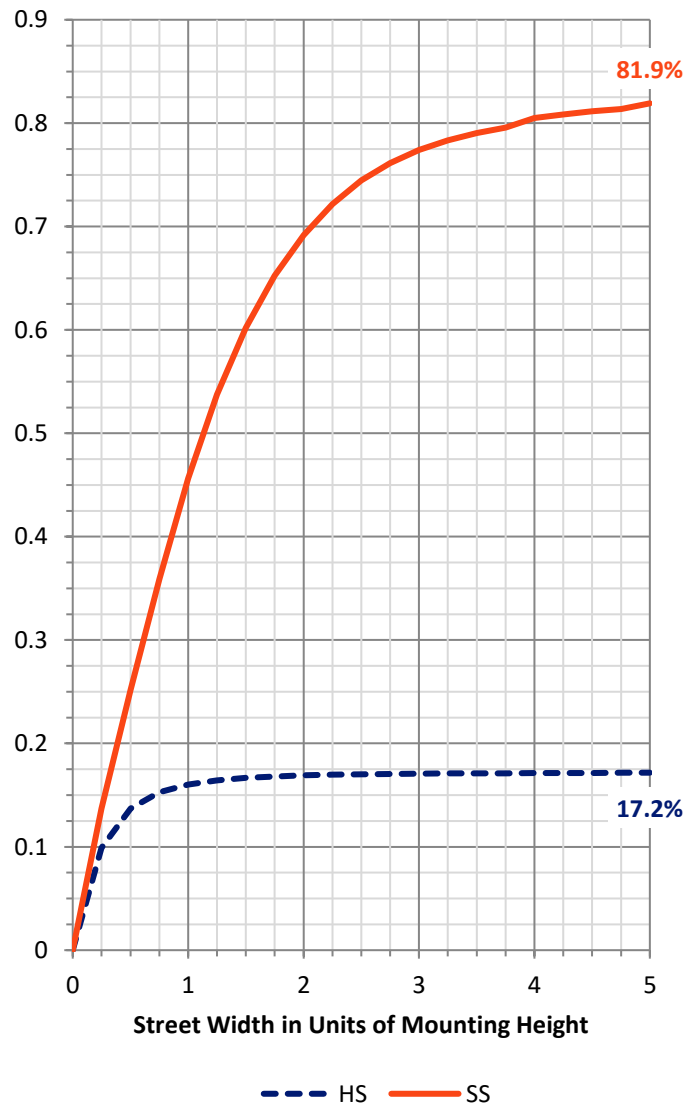
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	253.4	0.0	253.4
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	1205.8	0.0	1205.8
	% Fixture	82.6	0.0	82.6
Total	Lumens	1459.1	0.0	1459.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.7	2.9
10°-20°	81.7	5.6
20°-30°	113.1	7.8
30°-40°	159.8	11.0
40°-50°	217.6	14.9
50°-60°	288.2	19.8
60°-70°	334.7	22.9
70°-80°	189.5	13.0
80°-90°	32.7	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°	1459.1	100.0
0°-180°	1459.1	100.0

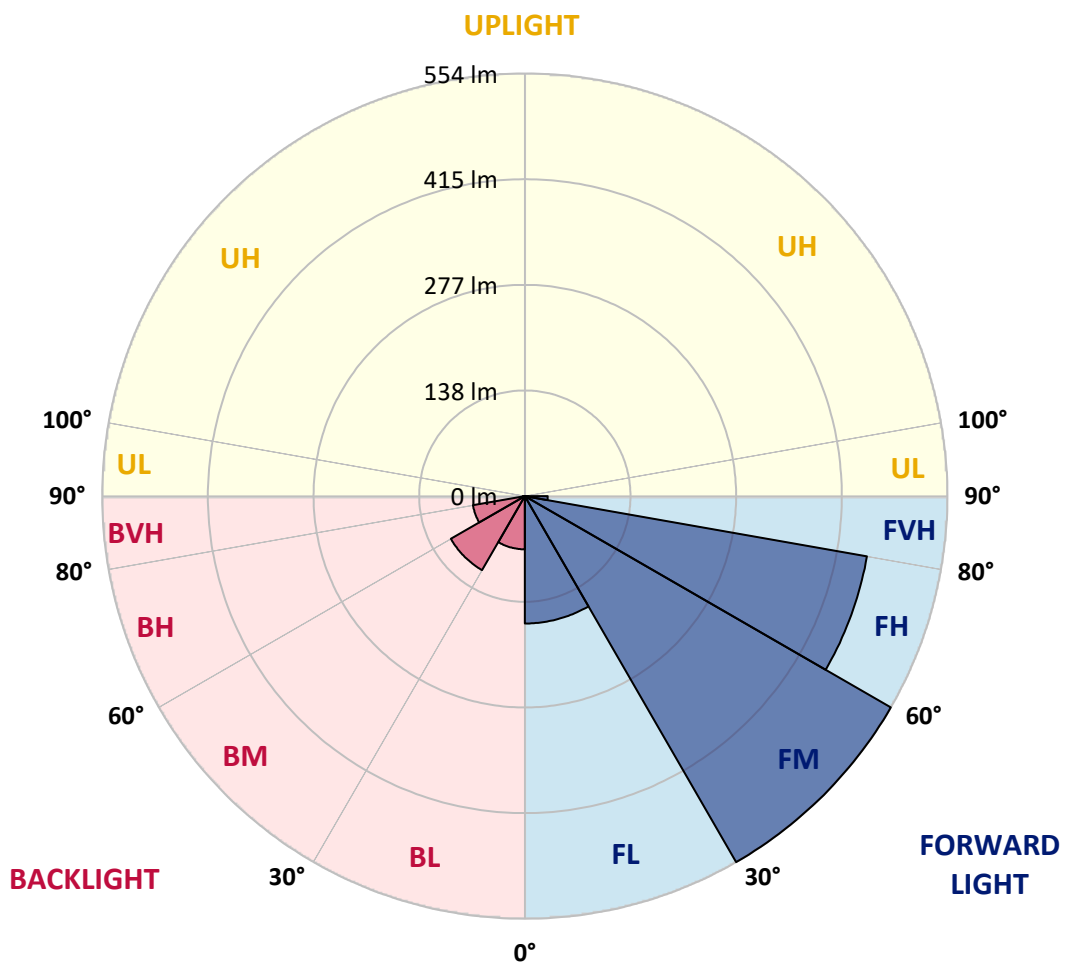


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	166.9	11.4			
FM (30°-60°)	553.8	38.0			
FH (60°-80°)	455.2	31.2			G0/660
FVH (80°-90°)	30.0	2.1			G1/100
BL (0°-30°)	69.7	4.8	B0/110		
BM (30°-60°)	111.9	7.7	B0/220		
BH (60°-80°)	69.0	4.7	B0/110		G0/110
BVH (80°-90°)	2.8	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°	548.6	548.6	548.6	548.6	548.6	548.6	548.6	548.6	548.6	548.6	548.6
2.5°	570.1	582.1	582.5	588.0	593.4	593.4	606.3	603.2	591.9	589.9	581.7
5°	574.3	578.6	581.7	609.4	632.8	630.4	637.5	632.8	611.0	582.9	563.8
7.5°	537.3	542.0	554.5	601.6	633.2	643.7	656.9	627.7	604.7	554.1	517.5
10°	488.2	497.2	520.2	574.0	612.9	646.4	646.4	623.0	578.6	529.1	484.3
12.5°	461.0	478.9	491.3	545.9	596.5	619.5	618.8	606.3	577.5	515.1	464.5
15°	465.6	470.7	497.2	539.7	573.2	572.0	586.0	582.1	561.9	527.6	471.9
17.5°	487.1	494.9	517.8	539.7	555.6	551.0	550.6	569.3	570.4	548.6	499.5
20°	522.1	545.1	556.0	562.7	543.2	523.3	521.0	547.1	567.3	575.5	532.6
22.5°	578.2	593.4	615.6	581.7	531.1	506.2	501.5	530.3	571.2	607.5	575.5
25°	633.2	644.9	666.3	622.7	544.7	502.6	494.5	519.4	586.0	651.9	627.3
27.5°	691.2	701.4	703.7	652.7	552.1	495.6	485.9	519.4	598.5	675.3	689.3
30°	726.7	738.8	741.1	679.2	564.2	501.5	496.8	521.7	607.1	695.1	733.7
32.5°	766.4	769.6	767.6	683.8	577.5	518.6	499.1	537.3	616.8	718.9	774.2
35°	814.0	819.4	799.6	705.3	607.1	529.5	522.5	556.4	633.6	729.8	823.3
37.5°	850.2	867.4	822.5	713.4	612.9	552.5	553.7	596.2	645.3	743.1	877.5
40°	918.4	889.6	861.5	741.5	635.1	591.5	585.2	637.1	684.6	751.6	912.9
42.5°	955.8	940.6	876.7	744.2	669.4	645.3	646.8	683.4	705.3	775.8	922.7
45°	965.2	949.2	897.4	746.2	703.3	708.8	735.7	742.7	735.7	791.8	941.0
47.5°	988.9	954.2	895.0	772.3	758.3	779.3	813.6	828.8	777.0	785.9	949.6
50°	984.2	964.4	890.0	783.2	825.3	881.0	904.0	897.7	822.9	773.8	940.2
52.5°	964.8	943.3	905.5	812.8	888.0	955.4	987.4	971.8	863.8	801.1	934.0
55°	993.2	976.8	925.8	852.9	935.2	1020.9	1043.5	1031.8	914.1	826.4	969.4
57.5°	1024.0	1020.5	980.7	900.1	990.9	1088.3	1088.3	1073.9	957.8	863.1	1022.0
60°	1068.4	1076.2	1021.3	931.3	1010.0	1084.4	1140.9	1124.1	1001.8	927.4	1081.7
62.5°	1054.0	1078.9	1073.5	998.3	1031.8	1103.5	1134.3	1146.7	1056.3	1005.7	1161.1
65°	1007.6	1034.1	1073.1	1042.3	1015.4	1057.1	1072.7	1110.5	1083.6	1079.3	1193.9
67.5°	952.3	981.1	1005.3	1071.9	982.3	1010.0	996.3	1008.4	1054.0	1160.0	1212.6
70°	831.5	859.2	897.4	1006.1	894.6	869.7	866.2	860.3	931.3	1131.1	1127.6
72.5°	683.8	696.7	759.8	817.9	662.0	657.3	662.8	656.2	738.4	1024.0	965.9
75°	512.0	524.9	560.7	628.1	450.8	423.9	455.1	485.9	563.8	794.9	694.0
77.5°	385.0	401.3	423.9	469.9	330.8	288.7	293.0	322.2	407.6	636.7	388.9
80°	249.8	247.8	291.5	323.4	249.0	256.8	245.9	267.3	295.4	340.6	198.7
82.5°	144.2	146.1	164.4	185.5	173.4	198.3	143.0	238.9	210.8	138.7	74.0
85°	81.0	84.6	101.3	128.6	108.7	72.9	59.6	118.5	132.5	56.9	35.8
87.5°	8.2	7.0	13.6	48.7	29.6	12.1	17.9	28.4	32.0	21.4	10.5
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°	548.6	548.6	548.6	548.6	548.6	548.6	548.6	548.6	548.6	548.6	548.6
2.5°	570.1	570.1	560.3	543.9	537.3	525.6	509.7	514.7	509.3	489.4	484.3
5°	546.7	528.0	507.7	482.8	468.4	438.7	429.4	412.6	415.4	398.6	399.4
7.5°	498.0	483.2	448.9	416.1	387.7	362.0	325.7	312.1	298.9	292.2	300.0
10°	469.5	441.9	395.1	352.2	314.4	291.5	267.3	248.6	231.5	218.6	215.9
12.5°	448.9	424.3	367.8	315.6	286.0	267.3	245.1	219.4	202.6	180.4	173.8
15°	442.6	412.6	353.0	301.2	272.4	241.6	216.3	190.9	169.1	145.7	137.5
17.5°	464.1	429.4	352.6	289.5	249.0	215.9	180.8	152.4	130.1	108.7	103.6
20°	500.3	447.3	363.9	282.5	226.8	182.4	142.6	114.2	89.2	75.2	71.7
22.5°	541.6	477.7	365.1	263.8	204.6	148.8	104.0	75.2	61.2	54.6	52.6
25°	592.3	526.4	379.1	248.6	178.5	113.0	74.0	57.7	49.5	45.6	44.8
27.5°	634.0	560.3	394.3	232.6	152.7	83.8	58.1	47.1	42.9	39.0	38.6
30°	677.2	599.3	398.6	222.9	130.5	69.0	49.9	41.7	37.0	35.1	34.7
32.5°	715.0	641.7	412.2	206.9	109.5	60.8	45.2	37.4	34.3	31.2	30.8
35°	763.7	666.3	418.9	198.3	101.7	54.9	41.3	34.3	29.6	27.7	26.9
37.5°	815.9	690.1	423.2	191.7	95.1	51.4	39.0	32.3	28.1	25.3	24.5
40°	864.6	723.6	416.9	183.5	90.0	47.1	37.4	30.0	26.1	23.4	22.2
42.5°	902.0	756.3	415.0	175.7	84.6	45.6	35.5	28.8	24.5	21.4	21.0
45°	923.1	778.5	401.3	169.5	80.3	46.4	34.7	27.3	23.4	20.7	19.1
47.5°	918.0	795.7	404.8	167.5	74.4	43.3	34.3	26.1	21.4	19.1	17.9
50°	946.1	830.3	399.0	161.3	70.1	39.0	37.4	26.1	21.0	18.3	17.1
52.5°	950.7	861.9	411.5	150.0	63.5	35.8	37.0	25.7	20.3	17.5	16.0
55°	989.7	898.5	435.6	143.8	58.1	31.2	33.9	24.9	18.3	16.0	15.2
57.5°	1042.7	974.5	451.2	137.9	50.7	27.3	28.4	24.5	16.8	14.8	13.6
60°	1093.7	1004.9	452.4	127.4	43.6	24.5	22.2	24.5	15.6	13.2	12.1
62.5°	1131.9	1004.9	444.6	118.5	38.2	21.8	19.5	23.4	14.0	11.7	10.9
65°	1111.3	978.0	424.3	111.0	34.7	19.1	16.8	17.9	12.5	10.1	9.4
67.5°	1074.3	894.2	379.5	102.1	34.3	16.8	14.4	13.2	10.9	9.0	8.2
70°	1015.0	781.2	316.0	92.0	33.5	15.2	12.9	11.3	9.7	7.8	7.0
72.5°	817.9	645.3	259.5	86.1	32.7	13.2	10.9	9.7	8.2	6.6	5.8
75°	566.5	412.2	199.9	73.6	32.0	12.1	10.1	8.6	7.0	5.5	5.1
77.5°	339.8	275.5	129.0	55.3	21.0	9.7	8.6	6.6	5.8	4.7	4.3
80°	159.0	130.1	52.2	21.4	10.1	7.0	5.8	5.1	4.7	3.9	3.5
82.5°	62.3	54.9	25.3	12.5	8.2	5.5	4.7	4.3	3.9	3.1	2.7
85°	33.5	29.6	12.1	8.6	5.8	3.9	3.9	3.5	3.1	2.7	2.3
87.5°	7.4	5.5	5.1	5.1	4.3	3.1	3.1	2.7	2.3	1.9	1.6
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°	548.6	548.6	548.6	548.6	548.6	548.6	548.6	548.6	548.6	548.6	548.6
2.5°	481.6	487.4	478.1	483.9	475.8	482.0	482.8	476.9	478.5	486.3	489.8
5°	410.3	406.4	397.8	395.1	395.5	390.4	392.4	395.1	399.4	401.7	408.7
7.5°	295.7	304.7	304.3	310.9	311.3	310.5	305.1	293.4	297.3	294.2	298.1
10°	211.6	215.5	222.9	227.2	235.0	230.7	218.2	213.5	211.2	210.8	214.7
12.5°	169.1	159.8	159.0	160.5	164.4	159.4	153.1	147.7	150.4	155.9	160.1
15°	130.9	123.1	113.0	111.4	112.2	109.9	103.3	96.2	98.2	103.6	106.8
17.5°	100.5	91.6	84.6	79.9	78.3	70.1	60.4	54.6	53.0	52.6	55.3
20°	67.8	66.2	65.1	59.2	59.2	47.5	39.4	35.1	35.1	35.8	36.2
22.5°	50.7	48.7	49.1	47.9	44.8	35.5	31.2	30.0	30.0	30.8	30.8
25°	44.0	41.3	40.5	40.1	37.0	30.4	27.3	26.1	26.1	26.9	26.9
27.5°	37.4	36.6	35.5	33.9	31.2	26.1	24.2	23.0	23.4	23.8	23.4
30°	34.3	32.3	30.8	30.8	27.7	23.4	21.8	21.0	20.3	21.0	21.4
32.5°	30.4	29.2	28.4	27.3	23.8	20.7	19.1	18.3	17.9	17.9	18.3
35°	26.1	26.1	25.3	23.8	20.7	18.7	16.8	16.0	15.6	16.0	16.0
37.5°	23.4	22.2	22.6	21.0	18.3	16.4	14.4	13.6	13.6	13.2	13.6
40°	21.8	19.9	18.7	17.9	16.4	14.0	12.5	11.7	11.3	11.3	11.3
42.5°	19.5	17.9	15.6	15.2	14.8	12.1	10.1	9.7	9.4	9.0	9.0
45°	18.3	16.0	14.0	12.1	12.1	10.1	8.6	7.8	7.4	7.0	7.4
47.5°	16.8	14.4	12.1	10.1	9.7	8.2	6.6	5.8	5.5	5.5	5.5
50°	16.0	12.9	10.5	8.6	7.4	6.6	5.1	4.3	3.9	3.9	3.9
52.5°	14.8	12.1	9.4	7.4	5.8	5.1	3.9	3.1	2.7	2.7	2.7
55°	13.2	10.9	8.2	6.2	5.1	3.9	2.7	1.9	1.6	1.6	1.6
57.5°	12.5	9.7	7.0	5.5	3.9	2.7	1.6	1.2	1.2	0.8	1.2
60°	11.3	8.6	5.8	4.3	3.1	1.9	1.2	0.4	0.4	0.4	0.4
62.5°	9.7	7.4	5.1	3.5	2.3	1.2	0.4	0.0	0.0	0.0	0.0
65°	8.2	5.8	3.9	2.7	1.6	0.4	0.0	0.0	0.0	0.0	0.0
67.5°	7.0	5.1	3.1	1.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	6.2	4.3	2.3	1.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5.1	3.5	1.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	4.3	2.7	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.5	1.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.7	1.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.4	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°	548.6	548.6	548.6	548.6	548.6	548.6	548.6	548.6	548.6	548.6
2.5°	494.9	492.5	504.2	523.3	533.0	552.1	556.8	568.9	565.8	570.1
5°	409.5	414.2	431.3	459.4	469.5	497.2	523.3	549.4	566.2	574.3
7.5°	303.9	319.5	340.6	366.3	392.4	428.6	473.0	503.4	519.8	537.3
10°	226.4	243.1	267.3	292.6	335.1	375.6	420.0	457.8	471.9	488.2
12.5°	178.1	204.2	232.2	259.5	284.8	323.4	378.3	433.3	448.5	461.0
15°	123.9	155.9	196.0	231.5	266.9	300.4	357.3	423.9	444.6	465.6
17.5°	68.6	93.9	139.9	189.8	242.0	293.4	364.3	441.1	472.3	487.1
20°	39.7	49.9	82.6	141.8	210.8	278.2	367.8	473.4	514.7	522.1
22.5°	32.7	36.2	46.8	88.8	172.6	268.5	385.8	518.6	560.7	578.2
25°	28.1	30.8	36.2	53.4	130.5	247.8	397.1	575.1	614.1	633.2
27.5°	24.9	27.7	32.0	39.4	88.8	219.4	415.8	626.2	665.1	691.2
30°	21.8	24.2	28.4	33.5	61.6	187.4	431.7	663.6	718.5	726.7
32.5°	19.5	21.4	24.5	28.8	45.6	142.2	444.6	702.1	748.5	766.4
35°	16.8	19.1	21.0	24.5	34.7	107.2	436.8	732.1	792.5	814.0
37.5°	14.8	16.4	18.3	20.7	29.2	83.8	420.8	768.0	830.3	850.2
40°	12.5	13.6	16.0	18.3	26.5	64.7	402.5	811.2	883.3	918.4
42.5°	10.5	11.7	13.2	17.1	21.8	47.9	365.5	844.8	926.2	955.8
45°	8.2	9.7	12.1	17.1	17.5	35.5	327.3	869.7	950.3	965.2
47.5°	6.2	7.8	11.7	14.8	14.0	24.5	282.1	898.1	975.3	988.9
50°	4.7	6.2	13.2	12.9	11.7	18.7	253.7	918.0	976.8	984.2
52.5°	3.1	4.7	10.9	9.7	9.7	16.4	245.9	917.2	980.7	964.8
55°	2.3	3.5	6.2	7.0	8.6	14.4	238.9	946.5	981.9	993.2
57.5°	1.6	2.7	4.3	5.5	7.4	12.5	224.4	981.5	1018.1	1024.0
60°	0.8	1.9	3.1	4.3	6.2	10.9	204.2	1007.2	1062.2	1068.4
62.5°	0.4	1.2	2.3	3.5	5.1	8.6	183.1	966.3	1043.1	1054.0
65°	0.0	0.8	1.6	2.3	3.1	6.2	148.8	872.4	967.5	1007.6
67.5°	0.0	0.0	0.8	1.6	1.9	4.7	112.2	793.7	897.7	952.3
70°	0.0	0.0	0.4	0.4	1.2	3.5	71.7	657.3	801.5	831.5
72.5°	0.0	0.0	0.0	0.0	0.4	2.3	41.7	488.2	628.1	683.8
75°	0.0	0.0	0.0	0.0	0.0	1.9	21.0	314.1	437.2	512.0
77.5°	0.0	0.0	0.0	0.0	0.0	1.6	11.3	202.6	322.2	385.0
80°	0.0	0.0	0.0	0.0	0.0	0.4	6.6	117.7	206.1	249.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.7	57.7	123.1	144.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	30.8	61.6	81.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	4.3	8.2
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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