

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: P671711

Luminaire Tested: **CCP-SA-1A-827-U-SLL**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P671711
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1A-827-U-SLL
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ SLL distribution lens
Light Source: (16) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

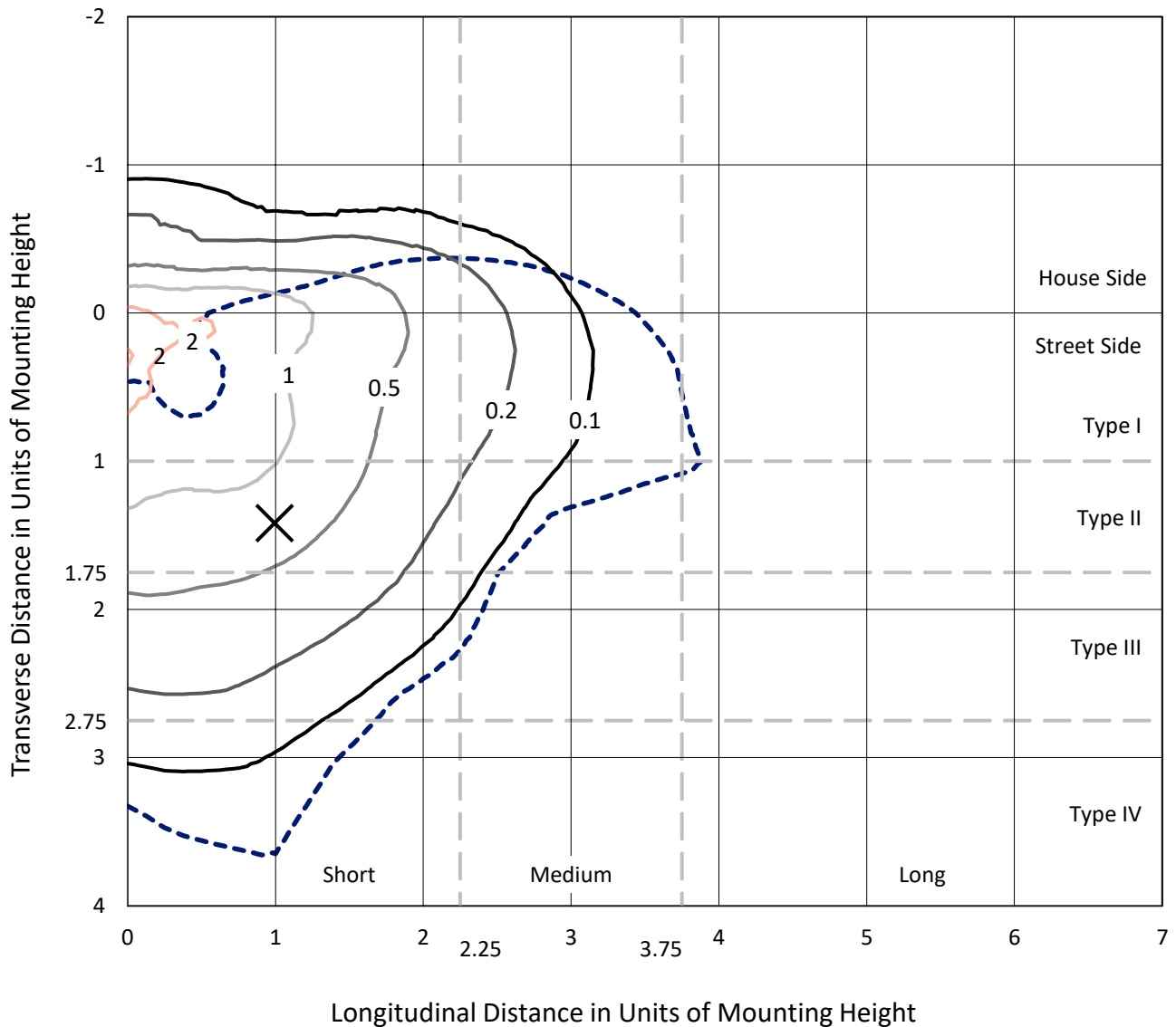
Lumens per Lamp: N/A
Luminaire Lumens: 1668.7 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

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

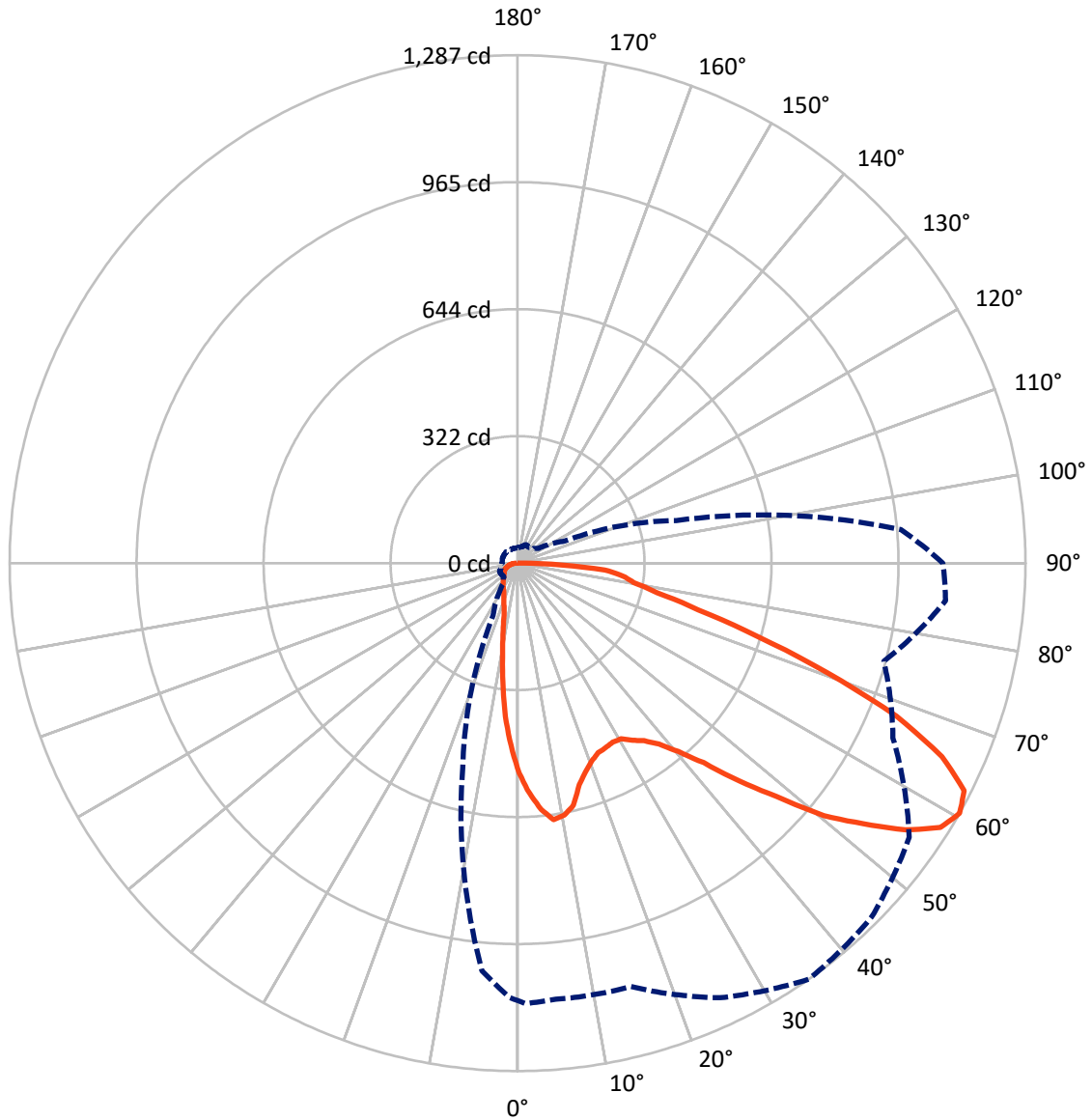
× Max cd
 - - - 1/2 Max cd



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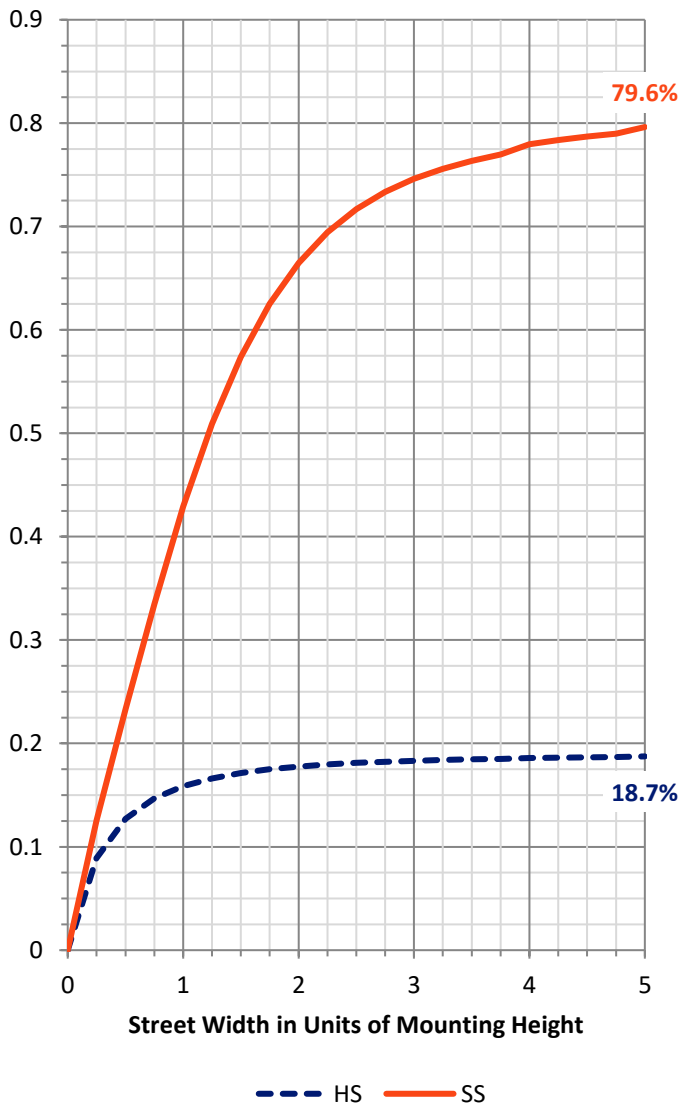
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	317.6	0.0	317.6
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	1351.1	0.0	1351.1
	% Fixture	81.0	0.0	81.0
Total	Lumens	1668.7	0.0	1668.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.4	2.5
10°-20°	87.4	5.2
20°-30°	127.9	7.7
30°-40°	180.2	10.8
40°-50°	247.7	14.8
50°-60°	337.5	20.2
60°-70°	369.4	22.1
70°-80°	213.3	12.8
80°-90°	63.9	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°	1668.7	100.0
0°-180°	1668.7	100.0



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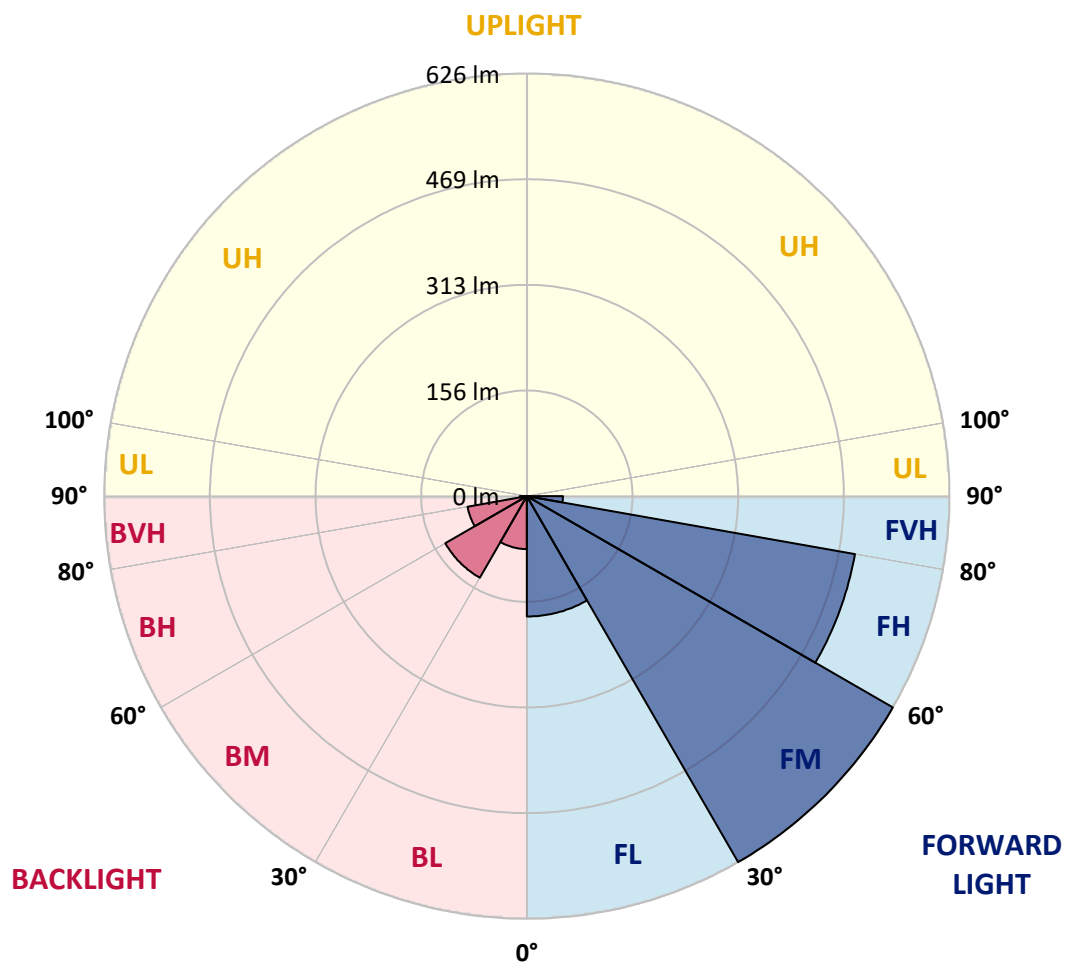
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	178.3	10.7			
FM (30°-60°)	625.9	37.5			
FH (60°-80°)	493.5	29.6			G0/660
FVH (80°-90°)	53.5	3.2			G1/100
BL (0°-30°)	78.5	4.7	B0/110		
BM (30°-60°)	139.5	8.4	B0/220		
BH (60°-80°)	89.2	5.3	B0/110		G0/110
BVH (80°-90°)	10.4	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°	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
2.5°	570.7	568.5	570.7	578.9	581.1	584.8	584.8	579.6	570.0	565.5	558.1
5°	583.3	579.6	598.1	615.1	628.4	627.0	614.4	604.0	584.8	555.9	528.5
7.5°	558.1	561.8	575.2	619.6	650.7	656.6	636.6	615.9	574.4	534.4	497.4
10°	510.8	515.9	544.8	590.7	639.6	649.2	636.6	611.4	561.8	512.2	469.3
12.5°	487.8	499.7	516.7	572.2	607.0	629.9	624.0	607.7	552.2	493.7	452.3
15°	487.8	490.8	515.9	562.6	582.6	583.3	585.5	588.5	555.2	501.9	446.4
17.5°	503.4	511.5	533.0	561.8	565.5	556.6	556.6	569.2	561.1	524.8	467.8
20°	541.1	538.1	566.3	578.1	558.1	535.9	533.7	555.2	567.8	549.2	507.1
22.5°	578.9	592.2	615.1	588.5	551.5	521.9	518.9	545.5	587.7	591.4	552.2
25°	635.9	649.2	661.0	628.4	550.7	518.2	520.4	541.1	612.2	651.4	627.7
27.5°	697.3	705.4	722.5	672.1	568.5	513.7	515.9	547.0	635.1	690.6	686.9
30°	732.1	741.0	737.3	680.3	580.3	516.7	510.8	555.2	622.5	690.6	725.4
32.5°	766.1	760.9	758.7	693.6	595.1	535.2	520.4	572.2	629.9	701.7	775.0
35°	807.6	800.2	794.3	719.5	619.6	552.9	546.3	594.4	646.2	724.7	815.0
37.5°	853.5	853.5	824.6	738.7	648.4	581.8	574.4	626.2	672.1	738.7	869.8
40°	907.5	909.7	858.7	764.7	681.0	627.7	625.5	667.7	697.3	759.5	922.3
42.5°	947.5	949.0	888.3	774.3	718.8	691.4	701.0	734.3	726.2	778.0	926.0
45°	974.9	967.5	909.0	801.7	760.2	786.9	789.8	799.4	763.9	789.1	940.8
47.5°	988.2	986.7	917.9	833.5	847.6	883.8	900.9	887.5	798.7	777.2	940.8
50°	1001.5	988.9	926.0	877.2	932.7	1006.0	1002.3	977.8	846.8	792.0	926.8
52.5°	1010.4	999.3	942.3	916.4	1014.1	1097.0	1111.8	1066.7	903.1	819.4	933.4
55°	1042.2	1033.4	991.2	969.7	1108.1	1193.2	1195.5	1132.5	962.3	864.6	977.1
57.5°	1080.7	1085.9	1058.5	1045.2	1179.9	1263.6	1255.4	1181.4	1012.6	919.4	1027.4
60°	1108.1	1116.3	1109.6	1111.1	1215.4	1287.2	1268.7	1211.7	1049.6	960.8	1088.9
62.5°	1093.3	1109.6	1137.0	1131.1	1216.9	1270.2	1244.3	1171.8	1054.1	1014.8	1135.5
65°	1052.6	1054.1	1107.4	1139.9	1150.3	1182.1	1148.1	1088.1	1008.2	1048.2	1128.8
67.5°	948.2	960.1	1008.2	1071.8	1028.2	1035.6	1032.6	946.0	938.6	1025.2	1077.8
70°	837.2	845.3	897.9	972.7	868.3	833.5	840.2	775.8	806.1	954.1	974.9
72.5°	692.1	697.3	757.2	823.1	696.6	634.4	649.9	597.4	640.3	835.0	822.4
75°	522.6	532.2	578.9	656.6	513.0	473.0	488.5	467.1	507.1	687.7	638.1
77.5°	371.6	364.2	421.9	513.7	385.7	362.0	363.4	367.2	410.1	579.6	458.2
80°	253.2	255.4	307.2	376.8	302.8	299.1	295.3	325.0	344.2	458.9	333.1
82.5°	150.3	150.3	207.3	268.0	239.1	269.4	252.4	279.1	269.4	337.5	218.4
85°	70.3	70.3	106.6	193.2	185.1	222.1	188.8	211.0	199.1	235.4	98.4
87.5°	11.8	10.4	21.5	94.7	76.2	86.6	34.1	112.5	125.1	164.3	24.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
2.5°	550.0	544.8	534.4	521.1	510.0	495.9	491.5	481.9	468.6	467.1	461.2
5°	518.2	500.4	478.2	450.8	432.3	413.0	396.8	387.1	376.0	374.6	371.6
7.5°	483.4	461.2	424.1	391.6	359.7	329.4	314.6	296.1	283.5	273.9	269.4
10°	450.8	430.1	384.2	339.8	311.6	291.6	273.9	254.6	239.1	227.2	222.8
12.5°	429.3	404.9	355.3	313.1	292.4	269.4	249.5	228.7	208.7	193.2	185.1
15°	419.7	396.8	346.4	299.8	269.4	237.6	214.7	193.9	169.5	158.4	154.7
17.5°	442.7	408.6	343.5	284.2	241.3	205.0	176.9	154.7	136.9	125.8	121.4
20°	472.3	430.1	348.6	265.7	214.7	174.0	142.9	119.2	107.3	99.2	98.4
22.5°	510.0	461.9	356.8	252.4	185.1	139.9	111.8	97.7	89.6	88.8	87.3
25°	577.4	519.6	370.1	234.7	161.4	115.5	95.5	87.3	83.6	81.4	82.9
27.5°	635.1	557.4	379.7	223.5	151.7	108.8	92.5	83.6	79.9	79.2	79.9
30°	669.2	592.2	376.8	202.8	132.5	103.6	98.4	95.5	88.1	82.2	82.2
32.5°	700.3	614.4	376.0	184.3	113.3	86.6	82.2	79.9	84.4	87.3	85.1
35°	743.2	649.2	373.8	174.0	105.1	79.9	72.5	66.6	63.7	62.2	64.4
37.5°	789.1	672.9	367.9	172.5	100.7	76.2	70.3	64.4	61.4	60.0	59.2
40°	839.4	698.0	361.2	165.1	98.4	74.0	68.1	62.9	59.2	57.0	56.3
42.5°	872.0	718.0	354.6	161.4	94.0	72.5	65.9	61.4	57.7	54.8	54.8
45°	890.5	741.7	347.9	157.7	88.8	73.3	65.9	60.0	55.5	54.0	52.6
47.5°	898.6	759.5	345.7	151.7	84.4	70.3	64.4	58.5	54.0	51.1	50.3
50°	920.1	797.2	353.8	147.3	79.2	67.4	68.1	57.7	53.3	49.6	48.9
52.5°	932.7	827.6	371.6	140.6	75.5	63.7	66.6	56.3	51.1	47.4	47.4
55°	978.6	877.9	390.8	135.5	71.1	58.5	61.4	53.3	47.4	45.2	45.2
57.5°	1037.1	931.2	407.1	133.2	68.1	54.8	54.8	51.8	45.2	42.2	41.5
60°	1077.8	974.9	416.7	131.8	65.1	51.1	48.9	51.8	42.9	40.0	39.2
62.5°	1082.2	949.7	407.1	131.0	64.4	47.4	44.4	49.6	40.7	37.8	36.3
65°	1054.1	898.6	380.5	128.1	63.7	43.7	41.5	42.9	37.8	35.5	34.1
67.5°	997.8	815.7	342.0	126.6	62.9	40.7	37.8	37.0	34.8	32.6	31.1
70°	866.8	707.7	296.8	119.9	61.4	38.5	34.1	33.3	31.1	29.6	28.9
72.5°	727.6	578.9	245.0	111.0	58.5	34.8	31.1	29.6	28.9	26.6	25.9
75°	557.4	445.6	196.2	98.4	51.1	31.1	27.4	25.9	25.2	23.7	22.9
77.5°	391.6	331.6	145.1	79.9	42.9	28.1	24.4	22.9	22.2	20.0	20.0
80°	265.7	232.4	98.4	55.5	33.3	22.9	21.5	20.0	18.5	17.0	17.0
82.5°	165.1	162.8	71.1	36.3	24.4	18.5	17.0	17.0	14.8	13.3	13.3
85°	75.5	99.9	49.6	25.2	18.5	14.1	14.1	13.3	11.8	9.6	9.6
87.5°	23.7	33.3	25.9	11.1	10.4	8.1	8.1	7.4	7.4	5.9	5.9
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
2.5°	467.1	466.3	466.3	463.4	470.8	470.8	475.2	471.5	473.7	474.5	480.4
5°	370.9	376.8	381.2	390.1	395.3	397.5	397.5	403.4	401.2	405.6	414.5
7.5°	271.7	279.1	292.4	303.5	312.4	315.3	314.6	316.1	318.3	313.1	314.6
10°	219.8	214.7	219.1	229.5	237.6	247.2	239.8	239.1	241.3	239.1	243.5
12.5°	183.6	177.7	174.0	174.0	179.9	184.3	182.1	185.8	193.9	196.2	201.3
15°	148.8	143.6	140.6	136.9	142.9	144.3	146.6	151.7	157.7	160.6	166.6
17.5°	119.2	119.2	119.2	116.2	118.4	120.7	121.4	128.1	128.8	131.8	134.0
20°	97.7	99.9	103.6	105.1	107.3	107.3	105.9	109.6	106.6	108.8	110.3
22.5°	88.1	91.0	92.5	93.3	96.2	97.0	93.3	94.0	94.7	92.5	93.3
25°	82.9	84.4	82.9	83.6	84.4	82.9	83.6	85.1	84.4	85.9	85.1
27.5°	80.7	79.2	78.5	77.7	77.7	76.2	77.0	77.0	78.5	79.2	79.2
30°	80.7	78.5	75.5	73.3	73.3	71.1	72.5	74.0	74.8	76.2	76.2
32.5°	82.9	78.5	73.3	71.1	68.8	67.4	68.8	71.1	74.0	74.8	75.5
35°	65.9	68.1	67.4	64.4	63.7	63.7	62.9	62.9	60.7	60.7	60.0
37.5°	59.2	58.5	60.0	60.7	61.4	59.2	59.2	56.3	55.5	56.3	56.3
40°	55.5	55.5	55.5	57.7	58.5	57.0	54.8	53.3	53.3	53.3	54.0
42.5°	54.0	52.6	51.8	53.3	55.5	54.0	51.8	51.1	51.1	51.8	51.8
45°	51.8	51.1	50.3	49.6	52.6	50.3	49.6	48.9	48.9	48.9	49.6
47.5°	49.6	48.9	47.4	47.4	48.1	47.4	46.6	46.6	46.6	48.1	48.1
50°	48.1	47.4	45.9	45.9	45.9	45.9	45.2	45.2	45.2	45.9	46.6
52.5°	45.9	45.2	44.4	43.7	43.7	43.7	43.7	43.7	43.7	44.4	45.2
55°	43.7	42.9	42.2	42.2	42.9	42.9	42.2	42.9	42.2	42.9	43.7
57.5°	41.5	40.7	40.0	40.7	41.5	40.7	40.7	40.7	40.7	40.7	41.5
60°	38.5	38.5	38.5	38.5	40.0	40.0	40.0	40.0	38.5	39.2	40.0
62.5°	37.0	36.3	36.3	37.0	37.8	37.8	38.5	37.8	37.0	37.8	37.8
65°	34.1	34.1	34.1	34.8	34.8	35.5	35.5	35.5	34.8	35.5	35.5
67.5°	31.8	31.8	31.8	31.8	33.3	33.3	33.3	33.3	32.6	32.6	33.3
70°	28.1	28.9	28.1	29.6	31.1	30.3	31.1	31.1	30.3	29.6	31.1
72.5°	25.9	25.9	25.9	25.9	28.1	28.1	28.1	28.9	28.1	27.4	28.1
75°	22.9	22.9	22.9	23.7	25.2	25.2	25.2	25.2	25.2	24.4	24.4
77.5°	20.0	20.7	20.0	20.7	22.2	21.5	22.2	22.9	22.2	21.5	21.5
80°	17.0	17.0	17.0	17.8	18.5	18.5	18.5	19.2	18.5	17.8	17.8
82.5°	13.3	13.3	14.1	14.1	14.8	14.8	14.8	15.5	14.8	14.1	14.1
85°	10.4	10.4	10.4	11.1	11.1	11.8	11.8	12.6	12.6	11.8	11.8
87.5°	6.7	5.9	6.7	6.7	7.4	7.4	6.7	5.9	6.7	5.9	5.2
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°	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
2.5°	486.3	499.7	509.3	515.9	525.6	544.1	551.5	564.8	568.5	570.7
5°	418.2	432.3	453.0	467.8	484.8	519.6	546.3	566.3	575.2	583.3
7.5°	327.9	346.4	367.9	387.1	415.3	458.2	493.0	534.4	550.0	558.1
10°	256.1	273.1	296.8	320.5	359.7	396.0	445.6	483.4	504.8	510.8
12.5°	216.1	236.1	264.3	293.1	317.6	359.0	409.3	464.1	484.1	487.8
15°	183.6	211.0	239.8	269.4	297.6	333.8	387.9	454.5	484.1	487.8
17.5°	151.7	176.2	210.2	242.1	274.6	324.2	391.6	462.6	492.2	503.4
20°	120.7	144.3	171.0	211.0	255.4	307.9	399.7	490.0	529.3	541.1
22.5°	99.9	110.3	136.2	174.7	227.2	296.8	407.9	533.0	574.4	578.9
25°	87.3	94.7	111.0	147.3	205.0	289.4	427.1	582.6	635.9	635.9
27.5°	81.4	84.4	95.5	128.1	189.5	282.8	446.4	637.3	686.9	697.3
30°	79.9	87.3	93.3	114.0	172.5	264.3	464.1	680.3	731.3	732.1
32.5°	78.5	77.0	81.4	99.2	151.7	245.0	478.9	723.9	763.9	766.1
35°	61.4	64.4	71.8	87.3	136.2	230.9	486.3	747.6	805.4	807.6
37.5°	57.7	61.4	67.4	80.7	125.8	219.1	488.5	793.5	849.0	853.5
40°	56.3	59.2	63.7	74.8	117.7	204.3	493.0	840.9	913.4	907.5
42.5°	53.3	57.0	61.4	71.8	111.0	193.2	493.7	866.8	947.5	947.5
45°	52.6	54.8	60.0	71.8	103.6	183.6	481.9	892.7	986.7	974.9
47.5°	49.6	54.0	58.5	69.6	94.7	174.0	467.8	906.0	991.9	988.2
50°	48.9	53.3	60.7	65.9	89.6	169.5	464.9	939.3	1002.3	1001.5
52.5°	47.4	51.8	62.9	62.9	82.9	163.6	478.9	954.1	1004.5	1010.4
55°	45.2	51.8	58.5	57.7	77.0	156.2	494.5	992.6	1043.7	1042.2
57.5°	43.7	50.3	55.5	52.6	70.3	151.0	517.4	1029.7	1091.1	1080.7
60°	41.5	50.3	49.6	48.9	65.1	146.6	536.7	1037.1	1101.5	1108.1
62.5°	40.0	52.6	43.7	45.2	60.7	144.3	528.5	981.5	1087.4	1093.3
65°	38.5	45.2	40.0	41.5	59.2	139.9	496.7	914.9	1026.7	1052.6
67.5°	35.5	37.0	37.0	38.5	57.7	129.5	431.6	795.0	934.2	948.2
70°	32.6	33.3	33.3	35.5	56.3	117.7	356.0	687.7	810.5	837.2
72.5°	29.6	29.6	29.6	32.6	51.8	108.1	293.1	528.5	673.6	692.1
75°	25.9	25.9	25.9	28.9	46.6	98.4	230.9	393.1	495.9	522.6
77.5°	22.9	22.9	22.2	25.9	40.7	79.9	166.6	277.6	349.4	371.6
80°	19.2	18.5	18.5	20.7	31.8	57.7	107.3	196.2	243.5	253.2
82.5°	15.5	14.8	14.1	15.5	22.9	36.3	66.6	136.9	156.2	150.3
85°	14.8	15.5	12.6	11.8	16.3	23.7	42.2	84.4	70.3	70.3
87.5°	5.9	5.2	5.2	4.4	8.1	8.9	18.5	15.5	11.8	11.8
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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