

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: P677481

Luminaire Tested: **CCW-SA-1A-835-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677481
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-835-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
SLR distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

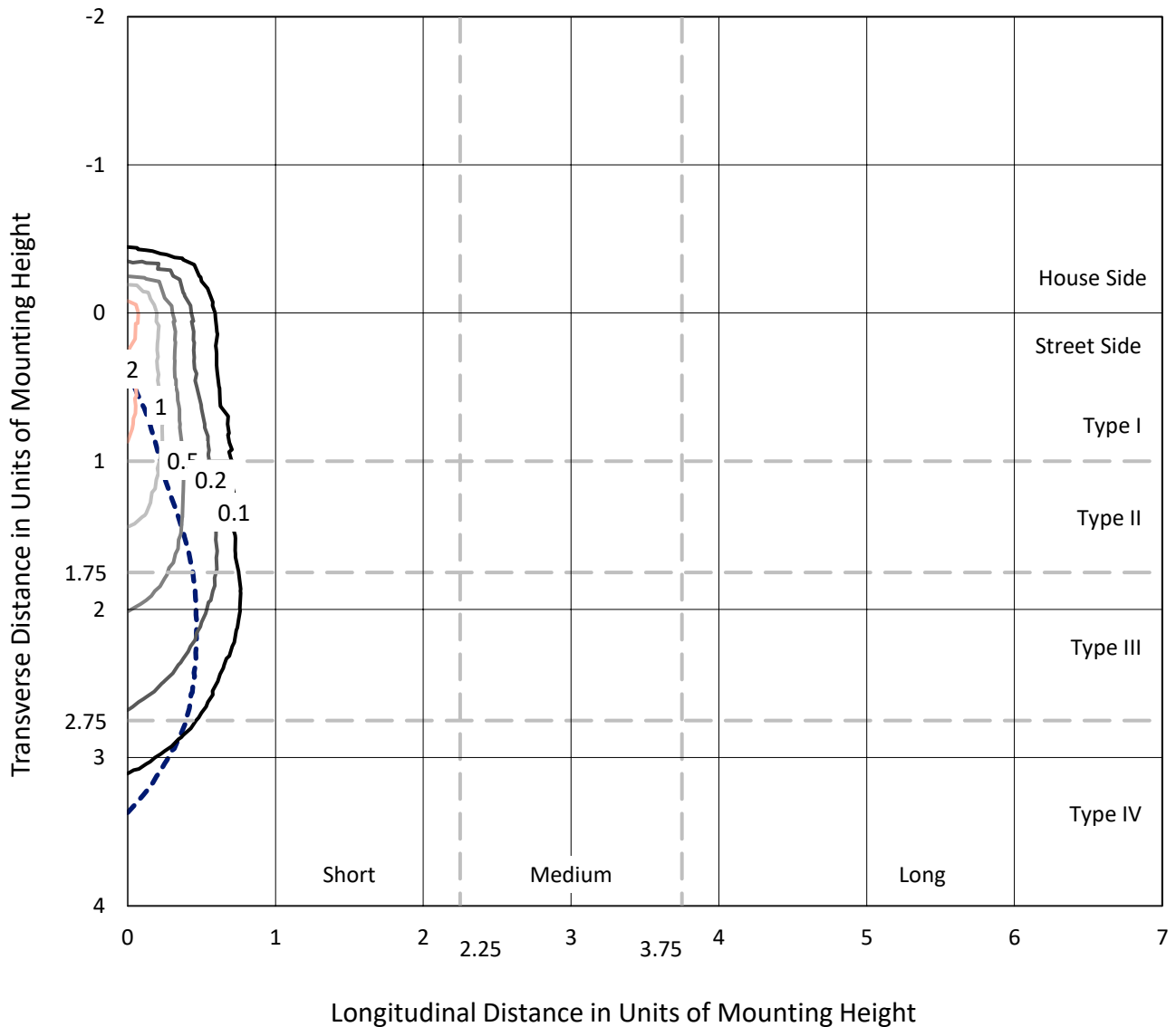
Lumens per Lamp: N/A
Luminaire Lumens: 1620 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

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

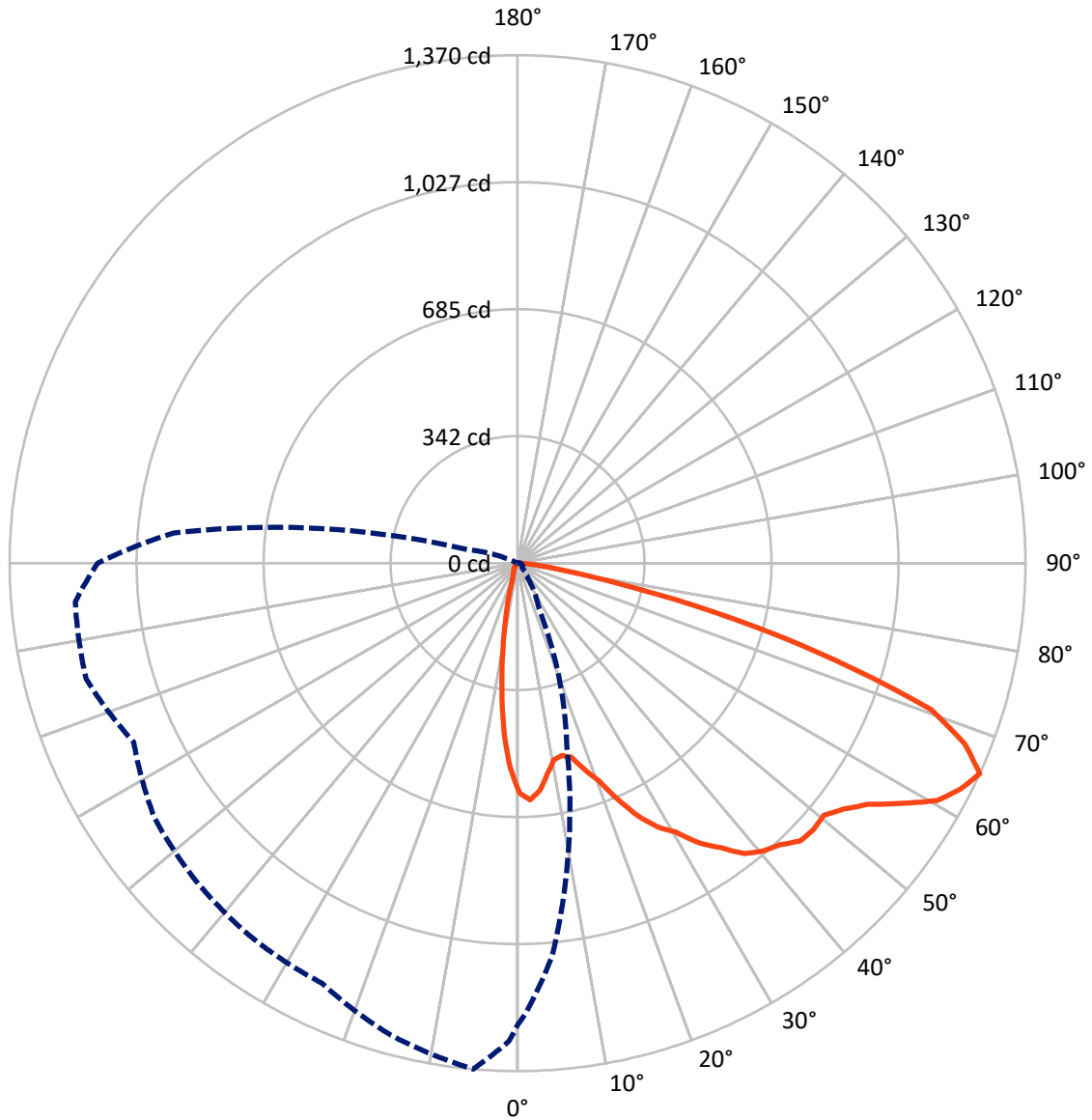
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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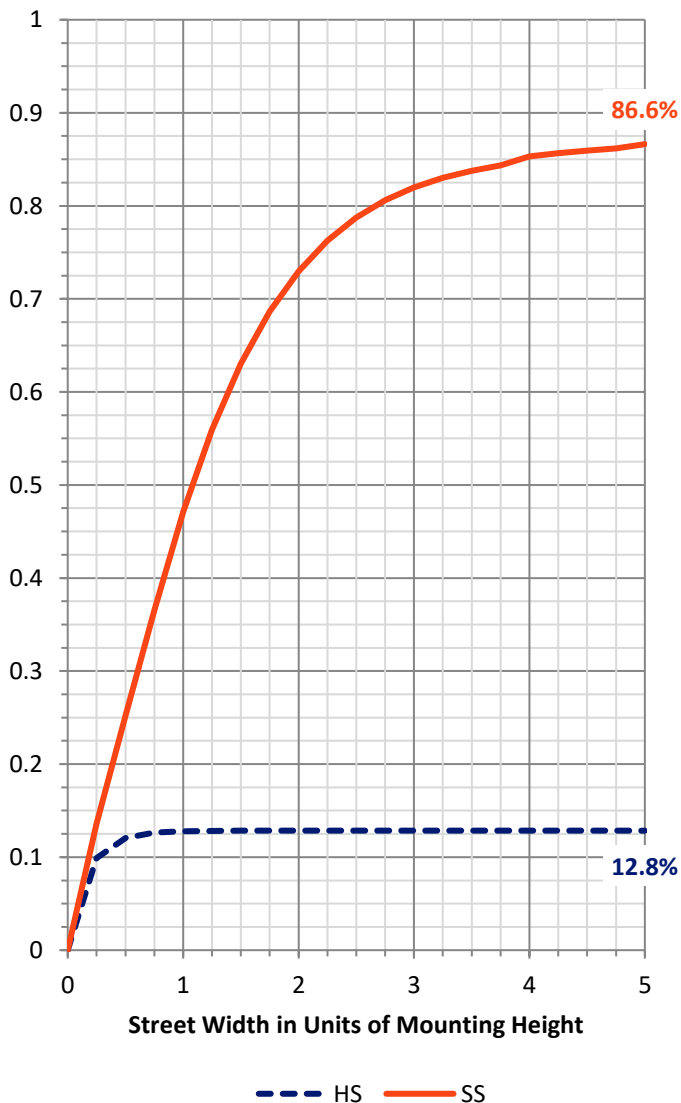
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	210.3	0.0	210.3
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	1409.7	0.0	1409.7
	% Fixture	87.0	0.0	87.0
Total	Lumens	1620.0	0.0	1620.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.9	2.9
10°-20°	90.8	5.6
20°-30°	126.5	7.8
30°-40°	179.8	11.1
40°-50°	249.3	15.4
50°-60°	339.7	21.0
60°-70°	373.5	23.1
70°-80°	183.5	11.3
80°-90°	30.0	1.9
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°	1620.0	100.0
0°-180°	1620.0	100.0



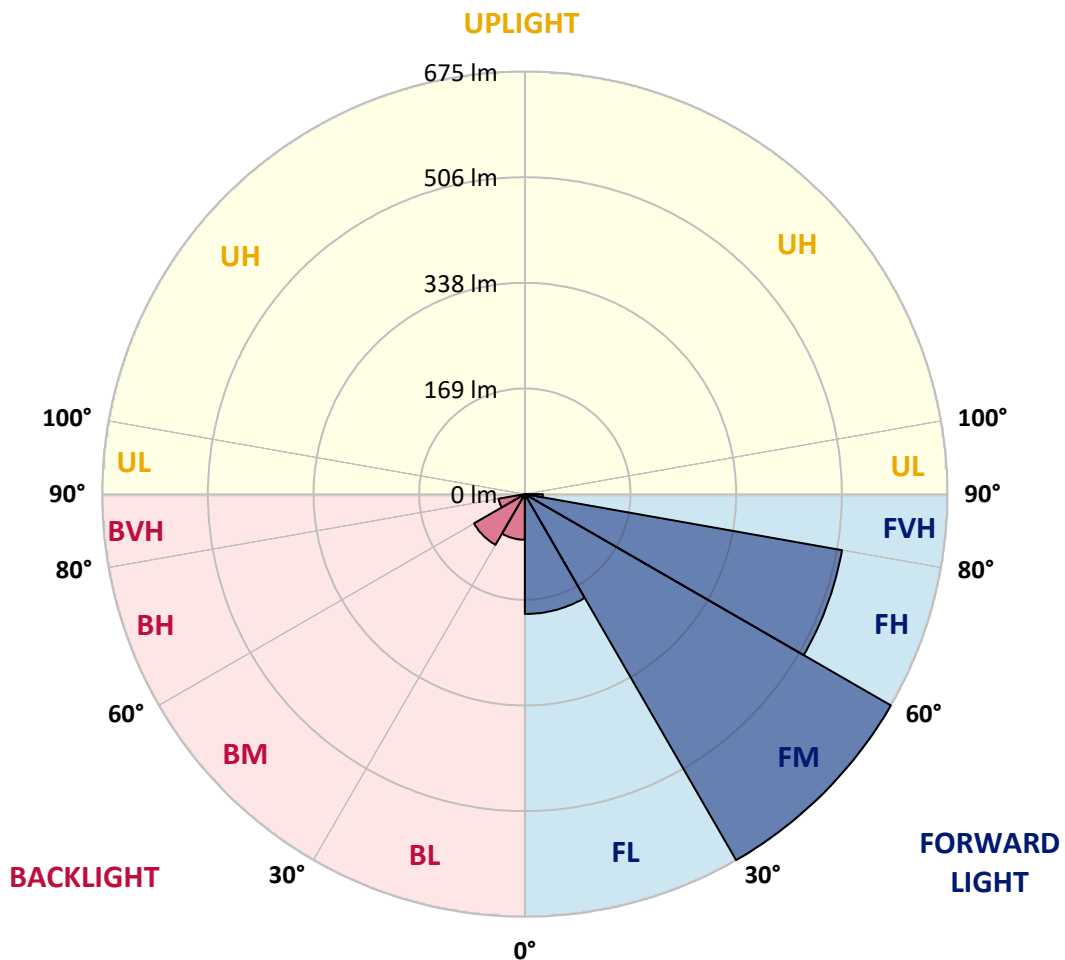
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	191.5	11.8			
FM (30°-60°)	675.1	41.7			
FH (60°-80°)	514.5	31.8			G0/660
FVH (80°-90°)	28.6	1.8			G1/100
BL (0°-30°)	72.8	4.5	B0/110		
BM (30°-60°)	93.7	5.8	B0/220		
BH (60°-80°)	42.5	2.6	B0/110		G0/110
BVH (80°-90°)	1.4	0.1			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	619.3	619.3	619.3	619.3	619.3	619.3	619.3	619.3	619.3	619.3	619.3
2.5°	632.0	639.4	632.4	608.0	603.6	591.8	573.9	572.6	553.8	556.0	546.0
5°	594.0	601.4	586.6	554.3	524.1	500.1	485.7	459.9	454.2	441.6	441.6
7.5°	555.1	554.7	529.4	502.3	457.3	413.2	393.1	356.0	334.1	322.3	311.0
10°	522.8	515.8	500.1	444.2	395.3	349.4	324.5	300.1	277.3	257.7	238.0
12.5°	500.1	504.5	479.6	418.9	355.5	323.6	297.0	271.2	244.2	221.9	200.0
15°	511.9	504.9	475.6	413.2	349.0	305.3	269.9	238.5	208.3	179.1	162.5
17.5°	548.6	530.7	496.2	413.2	335.4	277.3	234.5	197.4	165.1	138.9	118.4
20°	597.9	577.4	540.3	428.5	325.4	256.8	198.3	151.6	117.9	93.5	77.7
22.5°	648.6	632.4	576.5	434.6	313.6	229.3	156.4	109.6	78.6	62.9	55.0
25°	709.3	686.6	625.4	459.0	296.1	202.7	123.2	76.4	58.5	50.2	45.4
27.5°	757.8	753.9	671.3	473.9	283.0	180.8	97.4	60.7	48.5	42.4	39.3
30°	818.9	797.5	727.2	503.6	268.2	155.9	81.2	54.6	44.6	38.0	35.8
32.5°	855.6	845.6	756.5	520.2	251.6	135.4	69.9	48.0	40.6	35.8	33.6
35°	908.9	888.8	798.4	530.7	242.8	123.6	62.9	43.7	34.1	29.3	26.6
37.5°	968.3	960.9	848.6	530.2	230.2	116.6	58.1	40.6	32.3	27.1	24.0
40°	1029.0	998.9	879.2	542.5	223.6	111.4	54.6	38.9	30.6	25.8	21.8
42.5°	1074.4	1039.9	914.6	538.1	215.8	102.2	53.3	36.3	29.3	23.6	20.1
45°	1086.7	1074.4	946.5	536.8	210.1	94.8	51.1	35.8	28.4	22.3	18.8
47.5°	1110.3	1102.0	985.8	539.0	205.7	89.1	45.9	36.7	27.1	21.0	17.9
50°	1120.7	1105.9	1017.7	544.2	195.7	82.1	41.1	38.4	26.6	20.5	17.0
52.5°	1164.0	1150.9	1061.3	559.1	187.4	72.9	36.3	36.7	27.5	19.2	16.2
55°	1206.3	1191.5	1128.6	593.1	175.6	65.5	31.0	32.3	26.2	17.5	14.4
57.5°	1264.4	1240.0	1173.6	607.1	165.1	55.5	27.5	26.6	24.5	15.7	12.7
60°	1273.2	1283.2	1167.0	598.4	154.2	48.9	24.0	20.5	26.2	14.0	10.9
62.5°	1302.4	1260.5	1136.5	578.3	146.3	45.0	21.4	17.0	22.7	12.2	9.2
65°	1246.1	1215.1	1064.8	513.6	136.3	45.4	18.8	14.0	14.4	10.0	7.4
67.5°	1163.5	1139.1	946.0	443.3	126.2	44.6	16.6	12.2	10.9	8.7	6.6
70°	1021.2	968.3	803.6	359.9	111.4	41.5	14.0	10.9	9.2	7.0	4.8
72.5°	742.9	721.5	576.5	278.2	100.0	37.6	13.1	9.2	7.9	5.2	3.9
75°	500.1	464.7	363.8	182.6	80.4	32.8	10.9	8.3	6.1	3.9	3.1
77.5°	264.2	249.8	206.2	86.9	44.6	15.3	6.1	4.8	3.5	3.1	1.7
80°	114.4	101.8	89.1	35.4	15.7	7.0	3.9	2.6	2.2	1.7	0.9
82.5°	58.5	55.9	46.3	15.3	9.2	5.2	2.2	1.7	1.3	0.9	0.4
85°	28.8	29.7	24.5	4.8	5.2	3.1	0.4	0.4	0.0	0.0	0.0
87.5°	2.2	2.2	1.7	0.9	1.3	0.4	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	619.3	619.3	619.3	619.3	619.3	619.3	619.3	619.3	619.3	619.3	619.3
2.5°	542.0	548.1	537.7	544.2	541.2	542.5	543.8	540.3	541.2	553.4	553.8
5°	434.1	445.9	441.6	447.7	458.2	452.9	457.7	456.9	457.7	459.5	467.3
7.5°	309.7	306.2	314.5	330.6	349.4	360.8	355.1	352.0	350.3	345.9	351.2
10°	233.7	231.9	229.7	234.5	246.8	259.4	266.4	254.6	248.1	239.8	236.7
12.5°	193.9	183.0	176.9	169.5	173.0	184.3	184.8	173.4	162.9	158.5	163.4
15°	152.9	145.4	134.5	124.0	118.8	127.5	120.1	109.2	95.7	93.9	93.5
17.5°	109.2	104.8	97.0	92.6	86.5	84.3	76.4	59.8	50.2	47.6	48.5
20°	74.3	70.8	70.3	66.4	63.8	62.0	49.4	38.4	35.4	35.8	36.3
22.5°	55.0	53.3	51.1	50.7	48.5	46.3	36.3	32.3	30.1	30.1	31.4
25°	45.0	44.1	41.9	41.1	40.2	37.1	30.6	27.5	26.6	25.8	27.1
27.5°	38.4	38.0	36.7	35.4	34.5	31.4	26.6	24.0	23.1	23.1	23.1
30°	34.5	34.5	32.8	30.1	30.1	26.6	22.7	21.0	20.1	20.1	19.7
32.5°	32.3	31.4	29.3	27.5	26.2	22.7	20.1	18.3	17.0	17.0	17.5
35°	26.2	26.2	25.8	24.5	22.7	19.2	17.0	15.3	14.4	14.0	14.4
37.5°	23.1	21.8	20.1	20.5	19.7	16.6	14.4	13.1	11.8	11.8	11.8
40°	21.0	19.7	17.9	16.6	16.2	14.9	12.7	10.5	9.2	8.7	8.7
42.5°	18.8	17.9	15.3	13.1	12.7	12.7	9.6	7.9	6.6	6.6	6.6
45°	17.5	16.2	14.0	11.4	9.2	9.6	7.9	5.7	4.8	4.4	4.4
47.5°	16.6	15.3	12.2	9.6	7.0	7.0	5.7	3.9	3.1	2.6	2.6
50°	15.3	14.0	10.9	7.9	5.2	4.4	3.5	2.2	1.3	0.9	0.9
52.5°	14.4	13.1	9.6	6.6	4.4	3.1	2.2	0.4	0.0	0.0	0.0
55°	13.1	11.4	8.3	5.2	3.5	1.7	0.4	0.0	0.0	0.0	0.0
57.5°	11.4	10.0	6.6	3.9	2.2	0.4	0.0	0.0	0.0	0.0	0.0
60°	9.6	8.3	5.2	3.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7.9	7.0	3.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	6.6	5.2	3.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5.7	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4.4	3.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3.1	2.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	619.3	619.3	619.3	619.3	619.3	619.3	619.3	619.3	619.3	619.3	619.3
2.5°	555.6	568.7	580.9	584.4	594.0	620.6	620.6	633.3	656.0	664.3	666.1
5°	468.6	482.6	485.2	512.3	525.0	552.1	570.0	612.8	638.6	654.7	664.8
7.5°	356.4	361.2	371.3	396.6	421.5	454.2	488.3	542.9	588.3	606.7	640.7
10°	245.0	259.4	281.3	304.0	342.9	379.1	423.2	474.8	530.7	553.4	582.6
12.5°	165.1	185.2	220.1	252.5	288.3	325.0	366.9	435.9	499.2	530.7	559.9
15°	96.5	121.0	151.1	203.5	251.1	292.2	334.1	404.0	480.9	521.5	557.3
17.5°	48.9	56.3	81.2	126.7	189.6	256.8	319.3	408.4	494.9	544.6	574.3
20°	36.7	38.9	45.9	67.3	129.7	212.3	305.3	414.9	533.7	594.4	610.6
22.5°	31.9	33.6	36.7	43.7	72.9	162.5	285.6	431.1	586.6	643.8	677.9
25°	27.1	28.8	31.4	35.8	46.7	110.5	261.6	448.1	633.7	705.8	737.7
27.5°	23.6	24.9	27.5	31.0	38.0	70.3	220.1	470.8	705.8	780.9	789.2
30°	20.1	21.4	23.6	27.5	32.3	49.8	161.6	473.9	745.6	813.7	836.8
32.5°	17.5	17.9	20.5	24.0	27.1	39.3	113.6	476.9	774.8	856.1	860.9
35°	14.4	15.3	17.9	20.1	23.6	31.0	86.0	461.7	812.8	899.7	898.4
37.5°	11.8	13.1	14.9	16.6	19.2	26.2	68.6	433.3	860.4	967.4	926.4
40°	9.2	10.5	12.2	14.4	16.2	23.6	51.5	390.5	910.2	1000.6	957.0
42.5°	6.6	7.4	9.2	11.4	14.4	19.7	37.1	339.8	929.9	1039.5	993.6
45°	4.8	5.7	7.0	9.6	14.9	15.7	25.8	293.5	950.8	1056.5	985.3
47.5°	2.6	3.5	5.2	8.3	13.1	11.8	18.3	252.0	974.9	1071.8	991.9
50°	0.9	1.3	3.1	8.7	10.5	9.2	14.4	229.7	998.4	1074.9	1005.0
52.5°	0.0	0.0	1.7	9.2	7.9	7.0	12.7	221.0	992.3	1084.5	996.7
55°	0.0	0.0	0.4	3.9	4.4	5.2	10.5	220.6	1035.6	1087.5	1042.1
57.5°	0.0	0.0	0.0	1.3	2.6	4.4	9.2	206.6	1063.1	1163.5	1103.3
60°	0.0	0.0	0.0	0.4	1.7	3.1	7.0	194.4	1091.0	1197.6	1168.8
62.5°	0.0	0.0	0.0	0.0	0.4	1.3	4.8	175.6	1034.7	1195.0	1232.1
65°	0.0	0.0	0.0	0.0	0.0	0.0	3.1	138.9	930.7	1132.5	1197.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	96.1	815.0	1053.9	1133.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.1	657.8	924.2	960.9
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.9	469.5	733.8	788.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	290.4	536.3	603.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	188.2	406.2	458.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	100.5	254.6	296.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.7	154.6	178.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	93.9	107.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.4	19.2
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°	619.3	619.3	619.3	619.3	619.3	619.3	619.3	619.3	619.3	619.3
2.5°	666.9	679.6	684.4	677.0	677.9	662.6	660.4	639.0	630.3	632.0
5°	697.5	715.9	725.9	717.6	698.8	669.6	642.9	617.6	601.9	594.0
7.5°	690.5	711.1	723.7	731.6	710.2	663.0	622.4	574.8	554.7	555.1
10°	652.1	694.9	720.7	710.6	700.6	653.4	590.5	539.0	521.1	522.8
12.5°	621.1	668.7	684.0	691.8	671.3	633.7	591.4	532.4	512.3	500.1
15°	601.9	637.2	638.1	650.3	642.0	642.0	600.6	542.9	525.4	511.9
17.5°	601.9	609.7	608.9	613.2	627.2	643.8	623.7	585.3	550.8	548.6
20°	615.4	590.9	585.3	587.0	598.8	648.2	674.8	626.8	604.9	597.9
22.5°	646.8	593.1	558.6	552.5	588.8	647.7	707.6	692.3	654.3	648.6
25°	690.1	589.2	551.6	543.8	571.3	663.4	752.5	755.6	721.1	709.3
27.5°	731.1	606.7	550.8	549.0	585.3	660.0	783.6	806.3	767.4	757.8
30°	745.1	624.1	566.9	543.8	590.5	672.6	782.7	842.1	816.8	818.9
32.5°	761.7	641.6	568.7	559.5	612.8	693.1	807.6	899.7	881.4	855.6
35°	786.2	665.2	585.3	577.0	628.5	711.5	812.8	942.1	939.0	908.9
37.5°	807.1	688.3	619.8	621.1	676.5	741.2	836.0	994.1	988.8	968.3
40°	822.0	720.7	673.5	677.0	718.5	774.4	877.0	1020.3	1059.2	1029.0
42.5°	824.2	749.5	735.1	763.0	801.9	825.9	893.6	1038.2	1094.1	1074.4
45°	832.5	795.3	835.5	856.1	887.9	871.3	892.7	1068.8	1096.7	1086.7
47.5°	864.8	878.8	929.4	991.9	1003.2	948.7	913.7	1073.6	1111.6	1110.3
50°	898.4	968.3	1039.5	1081.0	1095.4	1001.9	933.4	1069.6	1131.2	1120.7
52.5°	936.0	1046.1	1148.7	1199.8	1191.9	1060.9	955.6	1101.5	1167.5	1164.0
55°	959.6	1081.0	1219.0	1290.2	1284.1	1126.9	1026.4	1147.4	1215.1	1206.3
57.5°	1022.0	1137.8	1288.9	1322.1	1338.2	1213.3	1075.8	1222.5	1254.8	1264.4
60°	1073.6	1174.9	1307.2	1355.3	1361.0	1264.9	1162.2	1299.8	1305.5	1273.2
62.5°	1149.1	1189.3	1268.4	1311.6	1340.9	1294.1	1240.0	1341.3	1304.6	1302.4
65°	1204.6	1142.1	1195.9	1219.9	1238.7	1249.6	1318.2	1369.7	1288.5	1246.1
67.5°	1173.6	1053.0	1043.0	1044.3	1050.0	1115.9	1292.0	1300.2	1198.5	1163.5
70°	1032.9	863.9	850.4	860.9	832.5	912.0	1185.8	1181.9	1057.4	1021.2
72.5°	835.5	629.8	606.7	621.1	627.6	711.9	997.6	896.2	771.3	742.9
75°	663.9	461.7	389.6	424.5	446.8	518.4	779.2	608.9	538.5	500.1
77.5°	521.5	349.4	303.1	289.1	309.7	376.9	566.9	319.7	282.2	264.2
80°	330.6	256.8	278.7	258.6	267.3	269.0	295.3	145.4	115.7	114.4
82.5°	199.2	175.6	208.8	114.9	209.2	186.9	122.7	66.0	58.5	58.5
85°	141.1	108.8	72.1	46.7	93.0	102.6	47.6	34.1	29.7	28.8
87.5°	70.8	33.6	16.2	10.5	11.8	19.2	5.7	2.6	2.6	2.2
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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