

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: P677382

Luminaire Tested: **CCW-SA-1A-722-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677382
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-722-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) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

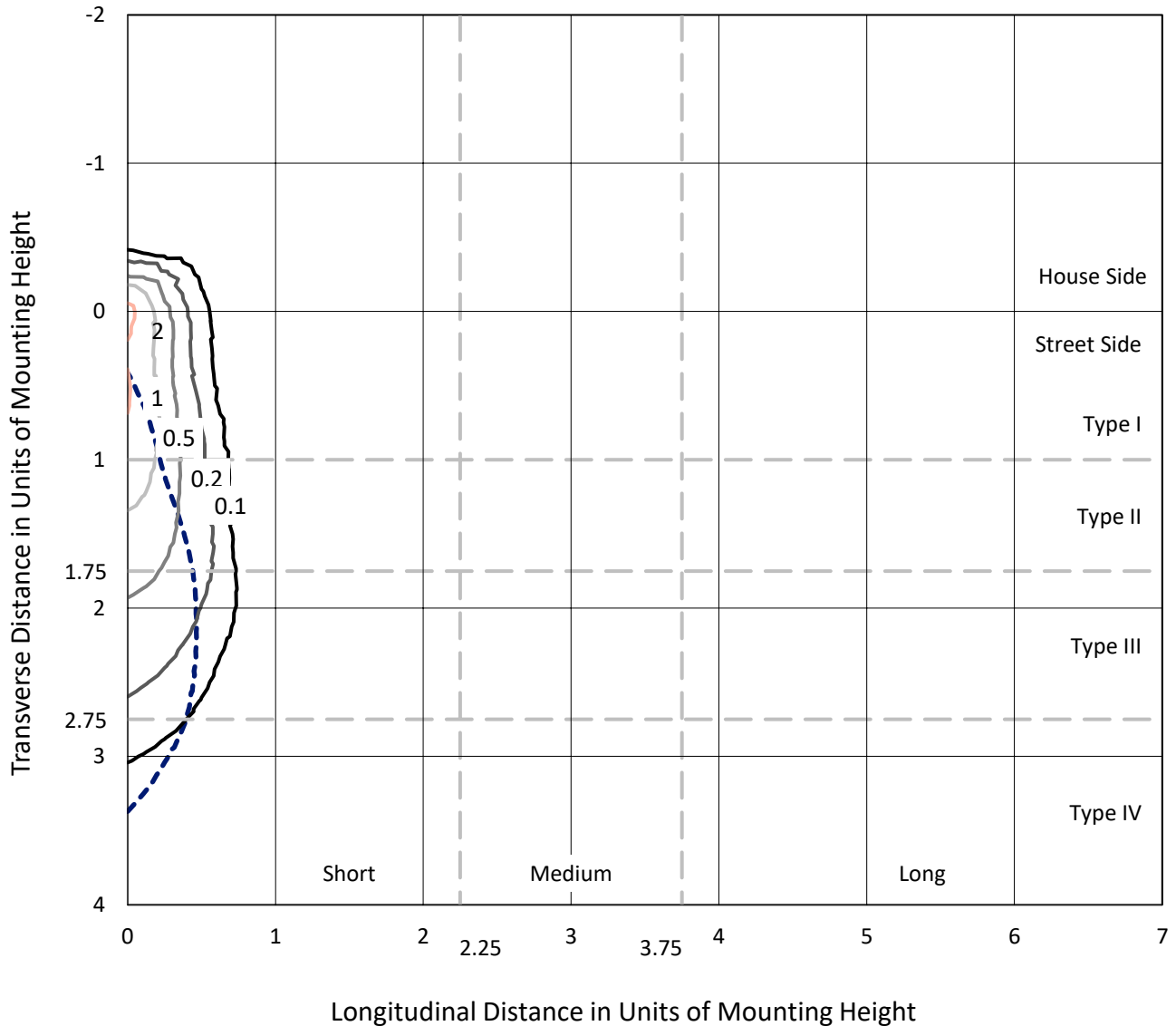
Lumens per Lamp: N/A
Luminaire Lumens: 1448.2 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

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

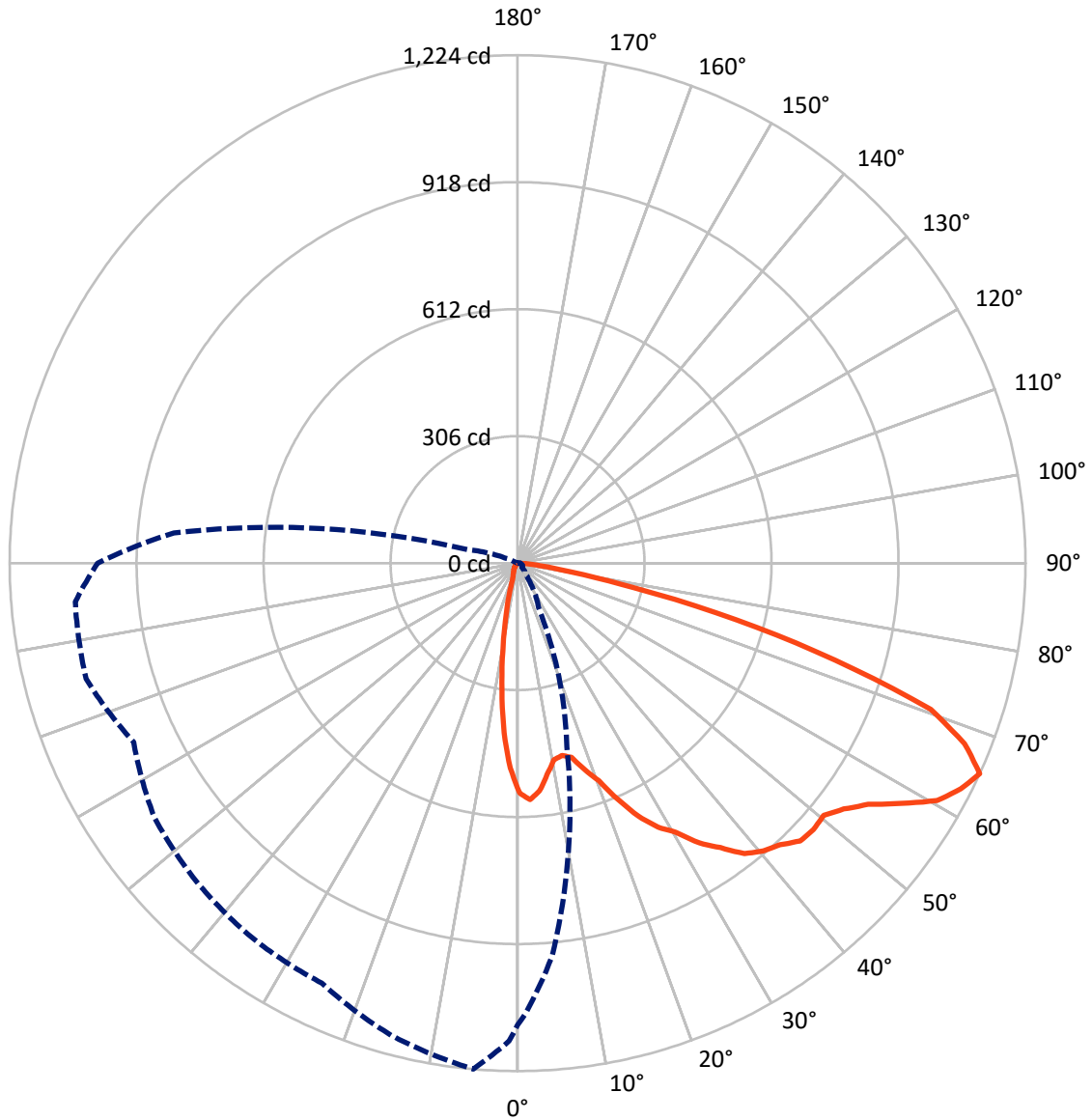
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.5 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	188.0	0.0	188.0
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	1260.2	0.0	1260.2
	% Fixture	87.0	0.0	87.0
Total	Lumens	1448.2	0.0	1448.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.9	2.9
10°-20°	81.2	5.6
20°-30°	113.1	7.8
30°-40°	160.7	11.1
40°-50°	222.9	15.4
50°-60°	303.7	21.0
60°-70°	333.8	23.1
70°-80°	164.1	11.3
80°-90°	26.8	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°	1448.2	100.0
0°-180°	1448.2	100.0



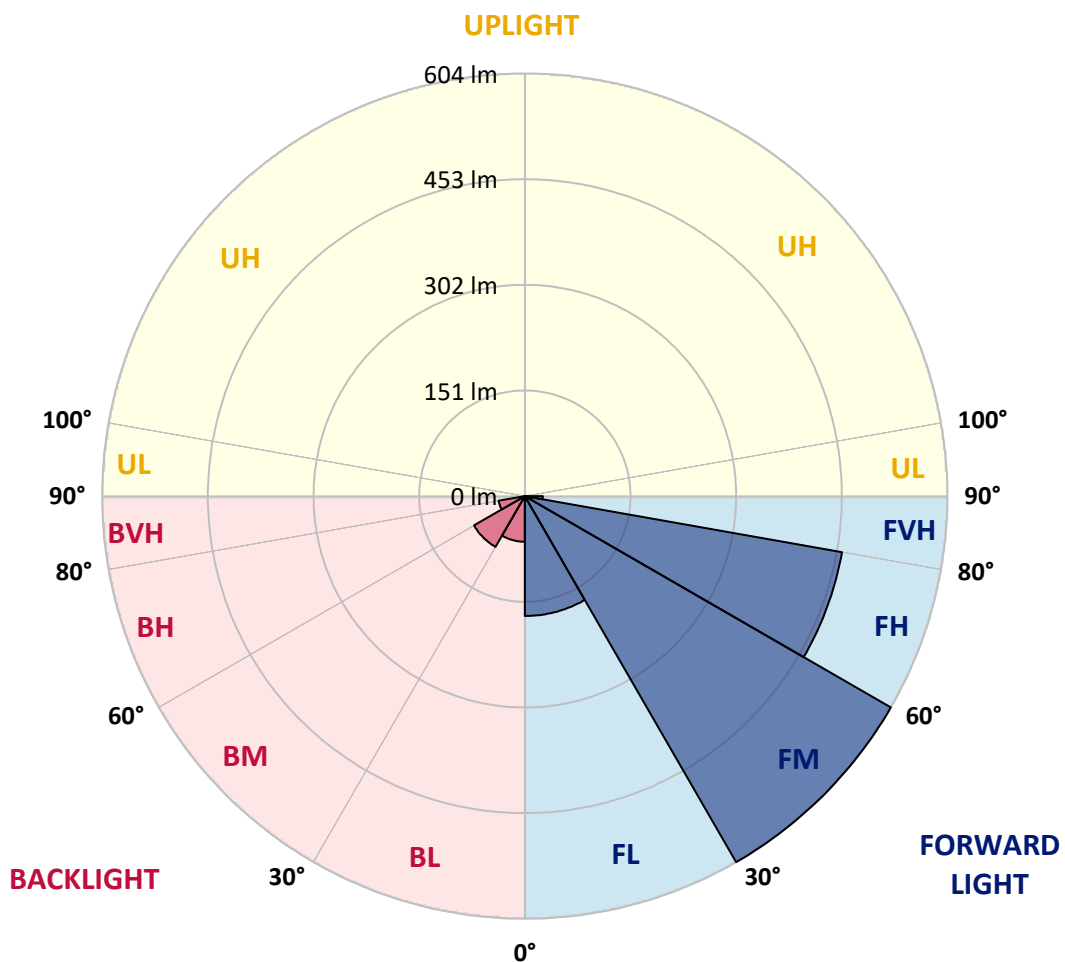
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	171.1	11.8			
FM (30°-60°)	603.5	41.7			
FH (60°-80°)	459.9	31.8			G0/660
FVH (80°-90°)	25.6	1.8			G1/100
BL (0°-30°)	65.1	4.5	B0/110		
BM (30°-60°)	83.7	5.8	B0/220		
BH (60°-80°)	38.0	2.6	B0/110		G0/110
BVH (80°-90°)	1.2	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°	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6
2.5°	565.0	571.6	565.4	543.5	539.6	529.0	513.0	511.9	495.1	497.0	488.0
5°	531.0	537.6	524.4	495.5	468.5	447.1	434.2	411.1	406.1	394.7	394.7
7.5°	496.2	495.9	473.2	449.0	408.8	369.4	351.4	318.2	298.7	288.1	278.0
10°	467.4	461.1	447.1	397.1	353.3	312.4	290.1	268.2	247.9	230.4	212.8
12.5°	447.1	451.0	428.7	374.4	317.8	289.3	265.5	242.5	218.3	198.3	178.8
15°	457.6	451.3	425.2	369.4	312.0	272.9	241.3	213.2	186.2	160.1	145.2
17.5°	490.4	474.4	443.5	369.4	299.9	247.9	209.7	176.5	147.6	124.2	105.8
20°	534.5	516.2	483.0	383.0	290.9	229.6	177.3	135.5	105.4	83.6	69.5
22.5°	579.8	565.4	515.4	388.5	280.3	205.0	139.8	98.0	70.3	56.2	49.2
25°	634.1	613.8	559.1	410.4	264.7	181.2	110.1	68.3	52.3	44.9	40.6
27.5°	677.4	673.9	600.1	423.6	253.0	161.6	87.1	54.3	43.3	37.9	35.1
30°	732.1	712.9	650.1	450.2	239.7	139.4	72.6	48.8	39.8	34.0	32.0
32.5°	764.9	755.9	676.2	465.0	224.9	121.0	62.5	42.9	36.3	32.0	30.1
35°	812.5	794.5	713.7	474.4	217.1	110.5	56.2	39.0	30.5	26.2	23.8
37.5°	865.6	859.0	758.6	474.0	205.8	104.2	51.9	36.3	28.9	24.2	21.5
40°	919.9	892.9	786.0	484.9	199.9	99.6	48.8	34.7	27.3	23.0	19.5
42.5°	960.5	929.6	817.6	481.0	192.9	91.4	47.6	32.4	26.2	21.1	18.0
45°	971.4	960.5	846.1	479.8	187.8	84.7	45.7	32.0	25.4	19.9	16.8
47.5°	992.5	985.1	881.2	481.8	183.9	79.6	41.0	32.8	24.2	18.7	16.0
50°	1001.9	988.6	909.7	486.5	174.9	73.4	36.7	34.4	23.8	18.4	15.2
52.5°	1040.5	1028.8	948.8	499.8	167.5	65.2	32.4	32.8	24.6	17.2	14.4
55°	1078.4	1065.1	1008.9	530.2	157.0	58.6	27.7	28.9	23.4	15.6	12.9
57.5°	1130.3	1108.5	1049.1	542.7	147.6	49.6	24.6	23.8	21.9	14.1	11.3
60°	1138.1	1147.1	1043.3	534.9	137.8	43.7	21.5	18.4	23.4	12.5	9.8
62.5°	1164.3	1126.8	1015.9	516.9	130.8	40.2	19.1	15.2	20.3	10.9	8.2
65°	1113.9	1086.2	951.9	459.2	121.8	40.6	16.8	12.5	12.9	9.0	6.6
67.5°	1040.1	1018.3	845.7	396.3	112.8	39.8	14.8	10.9	9.8	7.8	5.9
70°	912.8	865.6	718.4	321.7	99.6	37.1	12.5	9.8	8.2	6.2	4.3
72.5°	664.1	645.0	515.4	248.7	89.4	33.6	11.7	8.2	7.0	4.7	3.5
75°	447.1	415.4	325.2	163.2	71.8	29.3	9.8	7.4	5.5	3.5	2.7
77.5°	236.2	223.3	184.3	77.7	39.8	13.7	5.5	4.3	3.1	2.7	1.6
80°	102.3	91.0	79.6	31.6	14.1	6.2	3.5	2.3	2.0	1.6	0.8
82.5°	52.3	50.0	41.4	13.7	8.2	4.7	2.0	1.6	1.2	0.8	0.4
85°	25.8	26.5	21.9	4.3	4.7	2.7	0.4	0.4	0.0	0.0	0.0
87.5°	2.0	2.0	1.6	0.8	1.2	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°	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6
2.5°	484.5	490.0	480.6	486.5	483.8	484.9	486.1	483.0	483.8	494.7	495.1
5°	388.1	398.6	394.7	400.2	409.6	404.9	409.2	408.4	409.2	410.7	417.8
7.5°	276.8	273.7	281.1	295.6	312.4	322.5	317.4	314.7	313.1	309.2	313.9
10°	208.9	207.3	205.4	209.7	220.6	231.9	238.2	227.6	221.8	214.4	211.6
12.5°	173.4	163.6	158.1	151.5	154.6	164.8	165.2	155.0	145.6	141.7	146.0
15°	136.7	130.0	120.3	110.9	106.2	114.0	107.4	97.6	85.5	83.9	83.6
17.5°	97.6	93.7	86.7	82.8	77.3	75.4	68.3	53.5	44.9	42.6	43.3
20°	66.4	63.3	62.9	59.3	57.0	55.4	44.1	34.4	31.6	32.0	32.4
22.5°	49.2	47.6	45.7	45.3	43.3	41.4	32.4	28.9	26.9	26.9	28.1
25°	40.2	39.4	37.5	36.7	35.9	33.2	27.3	24.6	23.8	23.0	24.2
27.5°	34.4	34.0	32.8	31.6	30.8	28.1	23.8	21.5	20.7	20.7	20.7
30°	30.8	30.8	29.3	26.9	26.9	23.8	20.3	18.7	18.0	18.0	17.6
32.5°	28.9	28.1	26.2	24.6	23.4	20.3	18.0	16.4	15.2	15.2	15.6
35°	23.4	23.4	23.0	21.9	20.3	17.2	15.2	13.7	12.9	12.5	12.9
37.5°	20.7	19.5	18.0	18.4	17.6	14.8	12.9	11.7	10.5	10.5	10.5
40°	18.7	17.6	16.0	14.8	14.4	13.3	11.3	9.4	8.2	7.8	7.8
42.5°	16.8	16.0	13.7	11.7	11.3	11.3	8.6	7.0	5.9	5.9	5.9
45°	15.6	14.4	12.5	10.2	8.2	8.6	7.0	5.1	4.3	3.9	3.9
47.5°	14.8	13.7	10.9	8.6	6.2	6.2	5.1	3.5	2.7	2.3	2.3
50°	13.7	12.5	9.8	7.0	4.7	3.9	3.1	2.0	1.2	0.8	0.8
52.5°	12.9	11.7	8.6	5.9	3.9	2.7	2.0	0.4	0.0	0.0	0.0
55°	11.7	10.2	7.4	4.7	3.1	1.6	0.4	0.0	0.0	0.0	0.0
57.5°	10.2	9.0	5.9	3.5	2.0	0.4	0.0	0.0	0.0	0.0	0.0
60°	8.6	7.4	4.7	2.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7.0	6.2	3.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	5.9	4.7	2.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5.1	3.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	3.9	2.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2.7	2.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1.2	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°	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6
2.5°	496.6	508.4	519.3	522.4	531.0	554.8	554.8	566.1	586.4	593.9	595.4
5°	418.9	431.4	433.8	458.0	469.3	493.5	509.5	547.8	570.8	585.3	594.2
7.5°	318.6	322.9	331.9	354.5	376.8	406.1	436.5	485.3	525.9	542.3	572.8
10°	219.0	231.9	251.4	271.7	306.5	338.9	378.3	424.4	474.4	494.7	520.8
12.5°	147.6	165.5	196.8	225.7	257.7	290.5	328.0	389.7	446.3	474.4	500.5
15°	86.3	108.2	135.1	181.9	224.5	261.2	298.7	361.2	429.9	466.2	498.2
17.5°	43.7	50.4	72.6	113.2	169.5	229.6	285.4	365.1	442.4	486.9	513.4
20°	32.8	34.7	41.0	60.1	116.0	189.8	272.9	370.9	477.1	531.4	545.8
22.5°	28.5	30.1	32.8	39.0	65.2	145.2	255.3	385.4	524.4	575.5	606.0
25°	24.2	25.8	28.1	32.0	41.8	98.8	233.9	400.6	566.5	630.9	659.4
27.5°	21.1	22.3	24.6	27.7	34.0	62.9	196.8	420.9	630.9	698.1	705.5
30°	18.0	19.1	21.1	24.6	28.9	44.5	144.5	423.6	666.5	727.4	748.1
32.5°	15.6	16.0	18.4	21.5	24.2	35.1	101.5	426.4	692.6	765.3	769.6
35°	12.9	13.7	16.0	18.0	21.1	27.7	76.9	412.7	726.6	804.3	803.1
37.5°	10.5	11.7	13.3	14.8	17.2	23.4	61.3	387.3	769.2	864.8	828.1
40°	8.2	9.4	10.9	12.9	14.4	21.1	46.1	349.1	813.7	894.5	855.4
42.5°	5.9	6.6	8.2	10.2	12.9	17.6	33.2	303.8	831.2	929.2	888.2
45°	4.3	5.1	6.2	8.6	13.3	14.1	23.0	262.4	850.0	944.5	880.8
47.5°	2.3	3.1	4.7	7.4	11.7	10.5	16.4	225.3	871.5	958.1	886.7
50°	0.8	1.2	2.7	7.8	9.4	8.2	12.9	205.4	892.5	960.9	898.4
52.5°	0.0	0.0	1.6	8.2	7.0	6.2	11.3	197.6	887.1	969.5	891.0
55°	0.0	0.0	0.4	3.5	3.9	4.7	9.4	197.2	925.7	972.2	931.6
57.5°	0.0	0.0	0.0	1.2	2.3	3.9	8.2	184.7	950.3	1040.1	986.2
60°	0.0	0.0	0.0	0.4	1.6	2.7	6.2	173.7	975.3	1070.6	1044.8
62.5°	0.0	0.0	0.0	0.0	0.4	1.2	4.3	157.0	924.9	1068.2	1101.4
65°	0.0	0.0	0.0	0.0	0.0	0.0	2.7	124.2	832.0	1012.4	1070.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	85.9	728.6	942.1	1012.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.9	588.0	826.2	859.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.3	419.7	655.9	704.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	259.6	479.5	539.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	168.3	363.1	409.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	89.8	227.6	264.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.0	138.2	159.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	83.9	95.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.9	17.2
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°	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6
2.5°	596.2	607.5	611.8	605.2	606.0	592.3	590.3	571.2	563.4	565.0
5°	623.5	639.9	648.9	641.5	624.7	598.5	574.7	552.1	538.0	531.0
7.5°	617.3	635.6	647.0	654.0	634.9	592.7	556.4	513.8	495.9	496.2
10°	582.9	621.2	644.2	635.2	626.3	584.1	527.9	481.8	465.8	467.4
12.5°	555.2	597.8	611.4	618.5	600.1	566.5	528.7	475.9	458.0	447.1
15°	538.0	569.6	570.4	581.4	573.9	573.9	536.9	485.3	469.7	457.6
17.5°	538.0	545.1	544.3	548.2	560.7	575.5	557.5	523.2	492.3	490.4
20°	550.1	528.3	523.2	524.7	535.3	579.4	603.2	560.3	540.8	534.5
22.5°	578.2	530.2	499.4	493.9	526.3	579.0	632.5	618.8	584.9	579.8
25°	616.9	526.7	493.1	486.1	510.7	593.1	672.7	675.5	644.6	634.1
27.5°	653.6	542.3	492.3	490.8	523.2	590.0	700.4	720.7	686.0	677.4
30°	666.1	557.9	506.8	486.1	527.9	601.3	699.7	752.8	730.1	732.1
32.5°	680.9	573.6	508.4	500.2	547.8	619.6	721.9	804.3	787.9	764.9
35°	702.8	594.6	523.2	515.8	561.8	636.0	726.6	842.2	839.4	812.5
37.5°	721.5	615.3	554.0	555.2	604.8	662.6	747.3	888.6	884.0	865.6
40°	734.8	644.2	602.1	605.2	642.3	692.2	784.0	912.1	946.8	919.9
42.5°	736.8	670.0	657.1	682.1	716.8	738.3	798.8	928.1	978.0	960.5
45°	744.2	711.0	746.9	765.3	793.8	778.9	798.1	955.4	980.4	971.4
47.5°	773.1	785.6	830.9	886.7	896.8	848.0	816.8	959.7	993.7	992.5
50°	803.1	865.6	929.2	966.3	979.2	895.7	834.4	956.2	1011.2	1001.9
52.5°	836.7	935.1	1026.9	1072.5	1065.5	948.4	854.3	984.7	1043.6	1040.5
55°	857.8	966.3	1089.7	1153.4	1147.9	1007.3	917.5	1025.7	1086.2	1078.4
57.5°	913.6	1017.1	1152.2	1181.9	1196.3	1084.6	961.6	1092.8	1121.7	1130.3
60°	959.7	1050.3	1168.6	1211.5	1216.6	1130.7	1039.0	1161.9	1167.0	1138.1
62.5°	1027.2	1063.2	1133.8	1172.5	1198.6	1156.9	1108.5	1199.0	1166.2	1164.3
65°	1076.8	1021.0	1069.0	1090.5	1107.3	1117.0	1178.3	1224.4	1151.8	1113.9
67.5°	1049.1	941.3	932.4	933.5	938.6	997.6	1154.9	1162.3	1071.4	1040.1
70°	923.4	772.3	760.2	769.6	744.2	815.2	1060.0	1056.5	945.3	912.8
72.5°	746.9	563.0	542.3	555.2	561.1	636.4	891.8	801.2	689.5	664.1
75°	593.5	412.7	348.3	379.5	399.4	463.4	696.5	544.3	481.4	447.1
77.5°	466.2	312.4	271.0	258.5	276.8	336.9	506.8	285.8	252.2	236.2
80°	295.6	229.6	249.1	231.1	238.9	240.5	263.9	130.0	103.5	102.3
82.5°	178.0	157.0	186.6	102.7	187.0	167.1	109.7	59.0	52.3	52.3
85°	126.1	97.2	64.4	41.8	83.2	91.8	42.6	30.5	26.5	25.8
87.5°	63.3	30.1	14.4	9.4	10.5	17.2	5.1	2.3	2.3	2.0
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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