

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: P676242

Luminaire Tested: **CCW-SA-1B-727-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676242
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-727-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
T2 distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

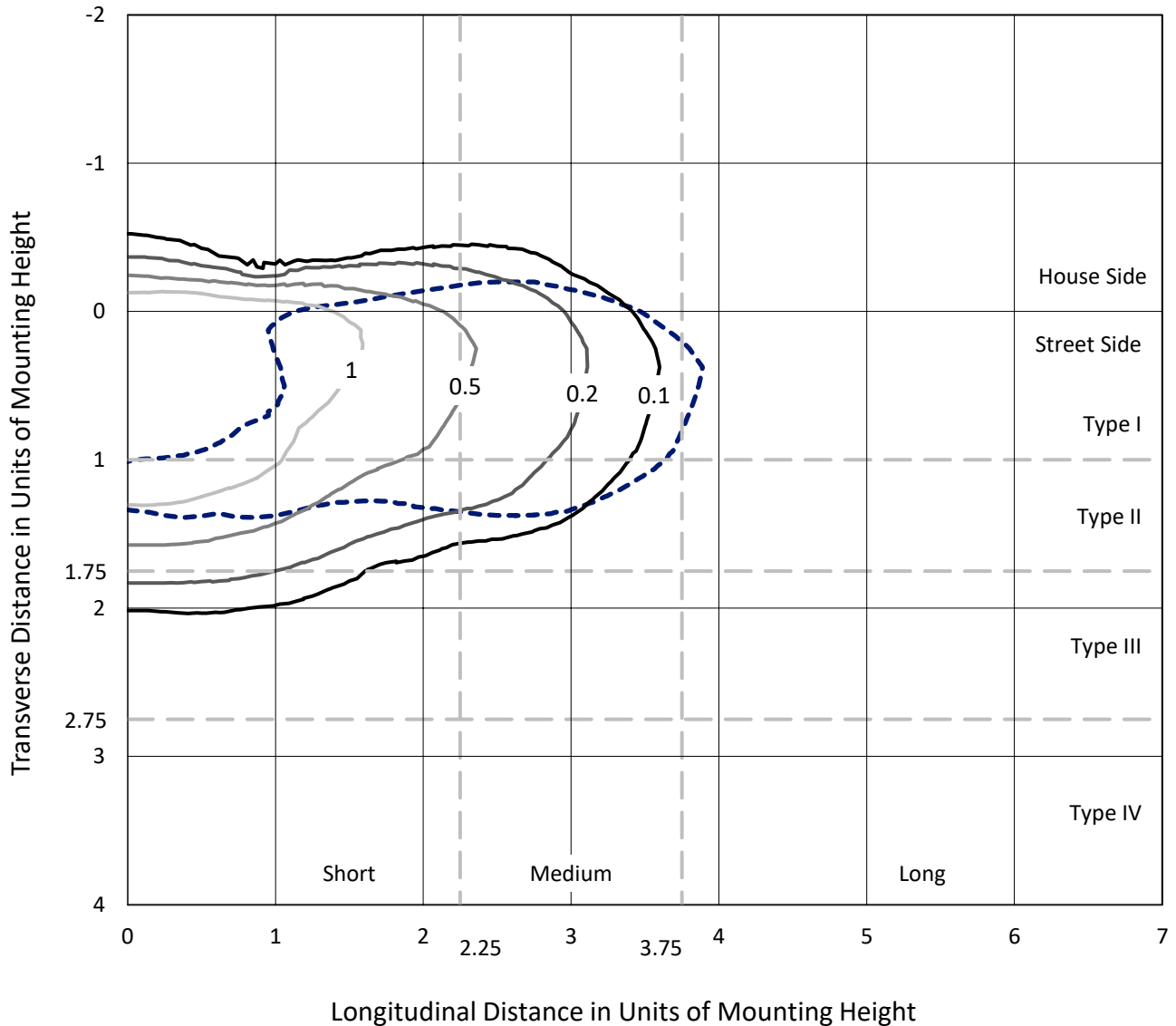
Lumens per Lamp: N/A
Luminaire Lumens: 2229.9 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 24
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

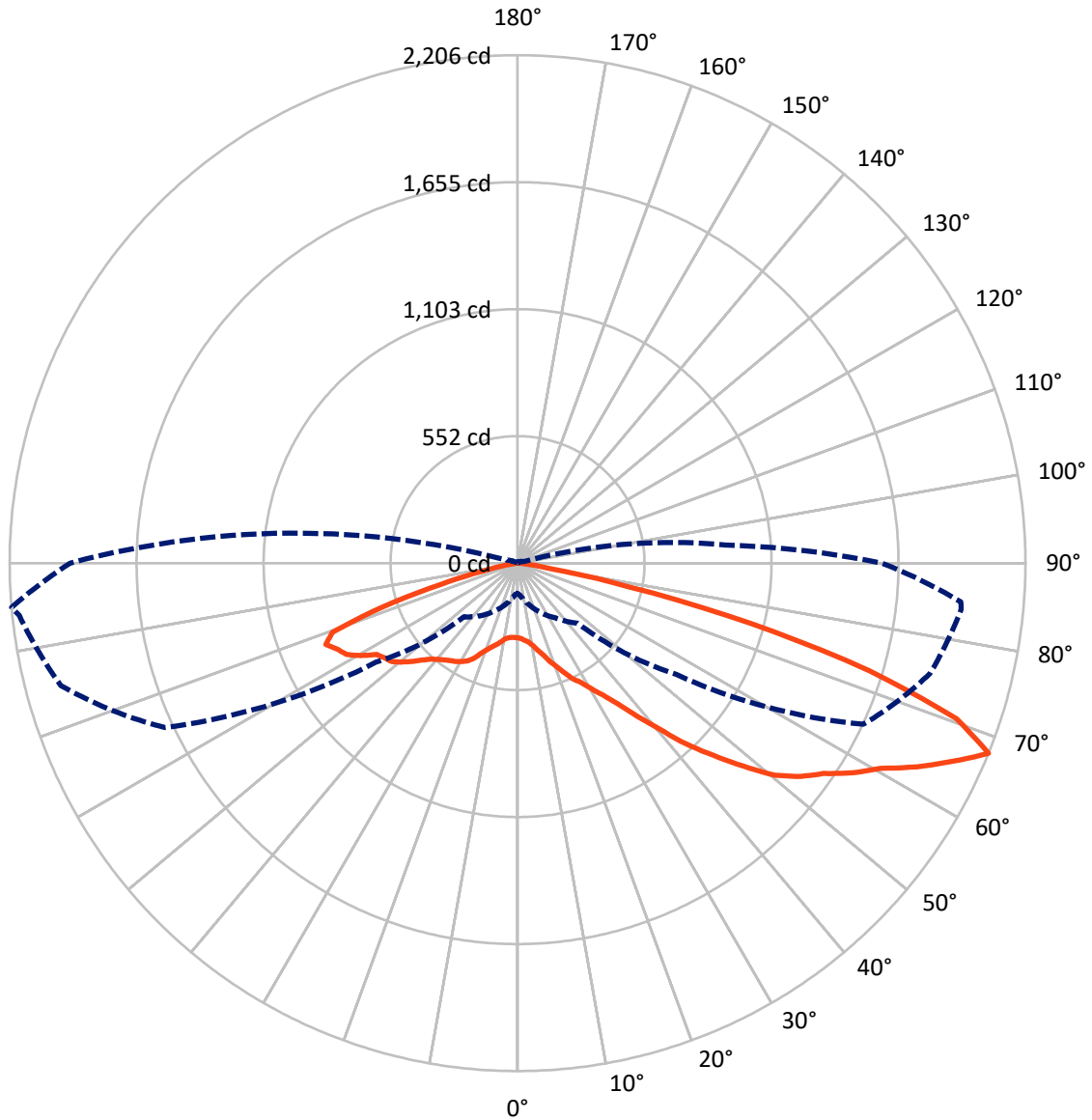
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 275-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	316.8	0.0	316.8
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	1913.1	0.0	1913.1
	% Fixture	85.8	0.0	85.8
Total	Lumens	2229.9	0.0	2229.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.6	1.3
10°-20°	79.5	3.6
20°-30°	132.0	5.9
30°-40°	227.2	10.2
40°-50°	408.2	18.3
50°-60°	581.1	26.1
60°-70°	529.8	23.8
70°-80°	225.6	10.1
80°-90°	16.8	0.8
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°	2229.9	100.0
0°-180°	2229.9	100.0



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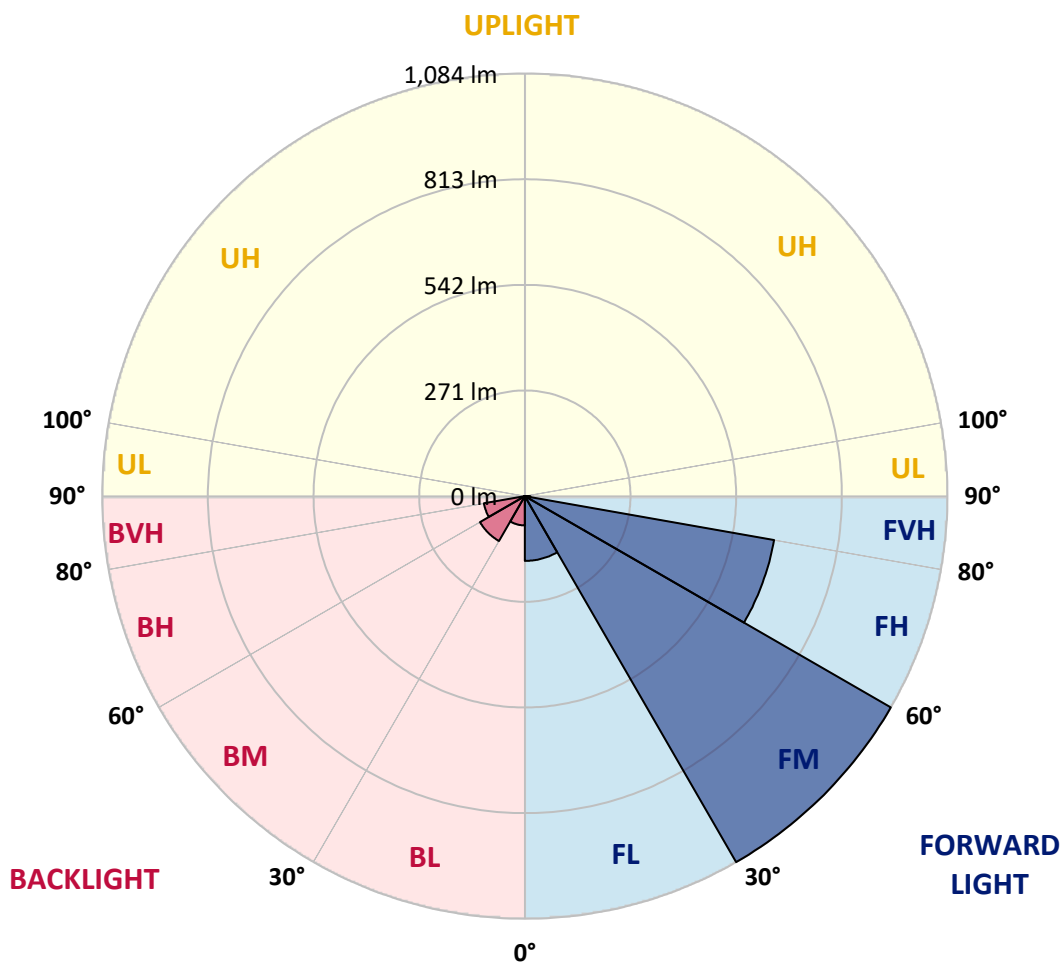
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	166.1	7.4			
FM (30°-60°)	1083.7	48.6			
FH (60°-80°)	649.0	29.1			G0/660
FVH (80°-90°)	14.3	0.6			G1/100
BL (0°-30°)	75.0	3.4	B0/110		
BM (30°-60°)	132.8	6.0	B0/220		
BH (60°-80°)	106.5	4.8	B0/110		G0/110
BVH (80°-90°)	2.5	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	324.3	324.3	324.3	324.3	324.3	324.3	324.3	324.3	324.3	324.3	324.3
2.5°	335.9	339.1	339.1	338.1	334.9	332.8	331.7	329.6	327.4	327.4	328.5
5°	339.1	335.9	340.2	334.9	334.9	334.9	339.1	337.0	335.9	330.6	330.6
7.5°	339.1	335.9	335.9	339.1	335.9	338.1	343.4	341.3	345.5	335.9	338.1
10°	329.6	328.5	330.6	334.9	335.9	340.2	345.5	356.1	357.2	350.8	349.8
12.5°	310.4	309.4	316.8	318.9	331.7	342.3	358.3	366.8	376.3	373.2	366.8
15°	296.6	298.7	304.1	312.6	324.3	343.4	361.5	380.6	397.6	393.4	391.2
17.5°	301.9	300.9	301.9	307.2	322.1	341.3	372.1	394.4	418.9	418.9	421.0
20°	317.9	321.1	320.0	316.8	324.3	340.2	372.1	411.4	451.8	448.6	448.6
22.5°	345.5	346.6	340.2	338.1	337.0	346.6	378.5	432.7	479.5	485.8	483.7
25°	374.2	375.3	373.2	366.8	358.3	360.4	390.2	449.7	517.7	528.4	526.2
27.5°	422.1	421.0	415.7	408.2	395.5	385.9	408.2	462.5	547.5	565.6	560.3
30°	469.9	466.7	459.3	449.7	438.0	419.9	430.6	486.9	584.7	601.7	590.0
32.5°	528.4	522.0	524.1	509.2	484.8	456.1	454.0	509.2	614.5	638.9	629.4
35°	602.8	595.3	584.7	570.9	547.5	509.2	497.5	545.4	664.4	682.5	682.5
37.5°	700.6	708.0	695.3	637.9	612.4	576.2	551.8	582.6	708.0	751.6	741.0
40°	800.5	806.9	783.5	741.0	685.7	641.1	626.2	643.2	774.0	826.0	805.8
42.5°	881.3	889.8	881.3	826.0	782.5	725.0	698.5	714.4	859.0	921.7	895.1
45°	966.4	974.9	965.3	929.2	886.6	853.7	786.7	806.9	948.3	1041.9	1012.1
47.5°	1030.2	1040.8	1023.8	1016.3	982.3	977.0	863.3	885.6	1041.9	1163.1	1125.8
50°	1045.0	1056.7	1071.6	1080.1	1068.4	1081.2	966.4	985.5	1139.7	1274.7	1238.5
52.5°	1010.0	1021.7	1054.6	1093.9	1148.2	1186.4	1070.6	1086.5	1241.7	1367.2	1348.0
55°	906.8	917.5	984.4	1037.6	1167.3	1230.0	1170.5	1237.5	1315.1	1463.9	1417.1
57.5°	733.6	746.3	834.5	916.4	1103.5	1205.6	1230.0	1362.9	1436.3	1535.1	1480.9
60°	520.9	528.4	604.9	749.5	927.0	1083.3	1218.3	1456.5	1532.0	1630.8	1602.1
62.5°	299.8	306.2	385.9	522.0	699.5	904.7	1166.2	1544.7	1635.1	1736.1	1720.1
65°	198.8	200.9	255.1	329.6	455.0	666.6	1034.4	1623.4	1737.1	1820.1	1802.0
67.5°	130.8	142.5	185.0	236.0	291.3	368.9	843.1	1656.3	1854.1	1937.0	1932.7
70°	93.6	97.8	132.9	181.8	219.0	207.3	493.3	1423.5	1848.8	1968.9	1933.8
72.5°	55.3	59.5	88.2	136.1	172.2	131.8	230.7	1006.8	1532.0	1571.3	1561.7
75°	40.4	40.4	54.2	97.8	125.4	94.6	108.4	636.8	1017.4	1104.6	1103.5
77.5°	28.7	29.8	37.2	58.5	96.7	69.1	59.5	354.0	556.0	608.1	579.4
80°	17.0	18.1	25.5	35.1	70.2	50.0	39.3	161.6	213.7	215.8	205.2
82.5°	12.8	12.8	17.0	24.5	48.9	34.0	24.5	61.7	69.1	62.7	53.2
85°	7.4	6.4	12.8	18.1	28.7	19.1	17.0	28.7	31.9	23.4	21.3
87.5°	2.1	2.1	5.3	6.4	12.8	10.6	7.4	10.6	14.9	8.5	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	324.3	324.3	324.3	324.3	324.3	324.3	324.3	324.3	324.3	324.3	324.3
2.5°	326.4	323.2	317.9	315.7	308.3	305.1	303.0	297.7	298.7	295.5	295.5
5°	323.2	323.2	312.6	300.9	289.2	281.7	273.2	262.6	262.6	258.3	259.4
7.5°	334.9	326.4	312.6	291.3	272.2	255.1	247.7	237.1	230.7	227.5	227.5
10°	342.3	333.8	310.4	284.9	260.5	239.2	223.3	208.4	199.9	199.9	198.8
12.5°	362.5	349.8	318.9	283.9	247.7	215.8	191.4	174.4	162.7	154.2	156.3
15°	379.5	365.7	323.2	275.3	225.4	180.7	151.0	119.1	103.1	94.6	91.4
17.5°	406.1	380.6	332.8	260.5	191.4	141.4	97.8	71.2	64.9	63.8	63.8
20°	428.4	398.7	333.8	231.8	157.3	90.4	62.7	58.5	55.3	54.2	53.2
22.5°	459.3	422.1	329.6	198.8	112.7	60.6	53.2	48.9	46.8	43.6	43.6
25°	491.2	452.9	321.1	168.0	69.1	52.1	46.8	42.5	38.3	36.1	37.2
27.5°	525.2	476.3	296.6	130.8	53.2	45.7	38.3	35.1	33.0	31.9	31.9
30°	552.8	491.2	260.5	87.2	47.8	40.4	34.0	30.8	28.7	27.6	27.6
32.5°	573.0	503.9	220.1	58.5	43.6	36.1	30.8	27.6	25.5	24.5	24.5
35°	607.0	513.5	182.9	50.0	39.3	31.9	26.6	24.5	22.3	22.3	22.3
37.5°	659.1	526.2	145.6	45.7	36.1	28.7	25.5	22.3	21.3	20.2	20.2
40°	704.8	542.2	104.2	41.5	33.0	26.6	22.3	20.2	19.1	18.1	18.1
42.5°	770.8	560.3	68.0	37.2	29.8	24.5	20.2	18.1	17.0	15.9	15.9
45°	854.7	590.0	53.2	33.0	26.6	22.3	19.1	17.0	14.9	14.9	13.8
47.5°	944.0	626.2	47.8	30.8	24.5	20.2	17.0	14.9	13.8	12.8	12.8
50°	1027.0	661.3	44.7	28.7	22.3	19.1	15.9	13.8	11.7	10.6	10.6
52.5°	1101.4	694.2	42.5	26.6	21.3	17.0	13.8	11.7	10.6	9.6	9.6
55°	1140.7	709.1	41.5	25.5	19.1	15.9	12.8	10.6	9.6	8.5	8.5
57.5°	1202.4	728.2	40.4	24.5	18.1	13.8	11.7	9.6	8.5	7.4	7.4
60°	1302.3	791.0	39.3	23.4	17.0	13.8	10.6	8.5	6.4	5.3	5.3
62.5°	1385.2	843.1	35.1	20.2	14.9	11.7	8.5	6.4	4.3	3.2	3.2
65°	1479.9	867.5	30.8	18.1	12.8	9.6	6.4	4.3	3.2	1.1	1.1
67.5°	1583.0	904.7	25.5	15.9	11.7	7.4	5.3	3.2	1.1	0.0	0.0
70°	1528.8	857.9	21.3	13.8	10.6	6.4	4.3	2.1	0.0	0.0	0.0
72.5°	1198.1	614.5	17.0	12.8	9.6	6.4	4.3	1.1	0.0	0.0	0.0
75°	800.5	347.6	14.9	10.6	7.4	5.3	3.2	1.1	0.0	0.0	0.0
77.5°	434.8	156.3	12.8	9.6	6.4	4.3	3.2	1.1	0.0	0.0	0.0
80°	141.4	61.7	10.6	8.5	6.4	4.3	3.2	1.1	0.0	0.0	0.0
82.5°	38.3	19.1	10.6	8.5	6.4	4.3	3.2	1.1	0.0	0.0	0.0
85°	15.9	12.8	10.6	8.5	6.4	4.3	3.2	1.1	0.0	0.0	0.0
87.5°	6.4	4.3	4.3	5.3	4.3	3.2	2.1	1.1	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°	324.3	324.3	324.3	324.3	324.3	324.3	324.3	324.3	324.3	324.3	324.3
2.5°	296.6	298.7	299.8	299.8	305.1	310.4	316.8	322.1	322.1	325.3	328.5
5°	260.5	262.6	265.8	275.3	286.0	297.7	309.4	317.9	329.6	334.9	338.1
7.5°	230.7	232.8	241.3	250.9	265.8	286.0	306.2	325.3	337.0	342.3	346.6
10°	199.9	203.1	212.6	229.6	248.8	273.2	296.6	329.6	348.7	359.3	363.6
12.5°	155.2	163.7	176.5	194.6	219.0	256.2	299.8	333.8	366.8	379.5	388.0
15°	97.8	105.2	125.4	154.2	187.1	230.7	291.3	340.2	385.9	398.7	412.5
17.5°	62.7	63.8	70.2	101.0	143.5	198.8	278.5	349.8	407.2	425.2	446.5
20°	53.2	55.3	56.3	60.6	95.7	163.7	252.0	361.5	432.7	457.1	477.3
22.5°	44.7	45.7	47.8	51.0	57.4	119.1	215.8	361.5	455.0	491.2	514.5
25°	36.1	38.3	40.4	43.6	50.0	74.4	178.6	355.1	481.6	526.2	556.0
27.5°	31.9	31.9	34.0	37.2	42.5	52.1	141.4	335.9	501.8	547.5	586.8
30°	27.6	28.7	29.8	33.0	38.3	45.7	97.8	305.1	523.1	589.0	633.6
32.5°	24.5	24.5	26.6	28.7	34.0	41.5	62.7	258.3	550.7	620.9	683.6
35°	22.3	22.3	23.4	25.5	30.8	37.2	48.9	219.0	583.7	681.5	750.6
37.5°	20.2	20.2	21.3	23.4	27.6	33.0	44.7	188.2	617.7	742.1	843.1
40°	18.1	18.1	19.1	21.3	24.5	29.8	40.4	152.0	660.2	831.4	944.0
42.5°	15.9	15.9	17.0	19.1	22.3	26.6	35.1	113.8	716.5	928.1	1074.8
45°	13.8	13.8	14.9	17.0	19.1	24.5	31.9	87.2	778.2	1035.5	1189.6
47.5°	11.7	12.8	13.8	15.9	18.1	22.3	28.7	76.5	838.8	1149.2	1317.2
50°	10.6	10.6	11.7	13.8	17.0	20.2	26.6	75.5	900.5	1236.4	1448.0
52.5°	9.6	9.6	10.6	12.8	15.9	19.1	25.5	77.6	951.5	1317.2	1539.4
55°	8.5	8.5	9.6	10.6	13.8	18.1	23.4	79.7	987.6	1399.1	1612.8
57.5°	7.4	7.4	8.5	10.6	12.8	15.9	21.3	81.9	1046.1	1479.9	1719.1
60°	5.3	5.3	7.4	9.6	11.7	13.8	20.2	84.0	1139.7	1591.5	1809.4
62.5°	3.2	3.2	4.3	7.4	9.6	12.8	18.1	79.7	1226.8	1735.0	1947.6
65°	1.1	2.1	3.2	4.3	7.4	10.6	14.9	72.3	1300.2	1878.5	2075.2
67.5°	0.0	0.0	1.1	3.2	6.4	8.5	12.8	53.2	1311.9	1943.4	2206.0
70°	0.0	0.0	1.1	3.2	5.3	8.5	11.7	29.8	1117.3	1736.1	2022.1
72.5°	0.0	0.0	0.0	2.1	5.3	7.4	10.6	22.3	823.9	1308.7	1597.9
75°	0.0	0.0	0.0	1.1	4.3	6.4	9.6	17.0	500.7	872.8	1042.9
77.5°	0.0	0.0	0.0	1.1	3.2	6.4	9.6	14.9	176.5	415.7	490.1
80°	0.0	0.0	0.0	2.1	4.3	6.4	8.5	12.8	42.5	104.2	140.3
82.5°	0.0	0.0	0.0	1.1	3.2	5.3	7.4	10.6	17.0	30.8	48.9
85°	0.0	0.0	0.0	1.1	2.1	5.3	7.4	9.6	11.7	14.9	21.3
87.5°	0.0	0.0	0.0	0.0	1.1	2.1	3.2	4.3	4.3	4.3	7.4
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):

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	324.3	324.3	324.3	324.3	324.3	324.3	324.3	324.3	324.3	324.3
2.5°	327.4	331.7	333.8	338.1	340.2	339.1	338.1	341.3	339.1	335.9
5°	339.1	339.1	342.3	343.4	343.4	340.2	342.3	341.3	339.1	339.1
7.5°	351.9	357.2	357.2	350.8	349.8	347.6	347.6	339.1	335.9	339.1
10°	364.6	368.9	370.0	362.5	353.0	348.7	343.4	332.8	327.4	329.6
12.5°	391.2	391.2	379.5	371.0	358.3	343.4	330.6	315.7	308.3	310.4
15°	410.4	414.6	398.7	379.5	357.2	329.6	315.7	304.1	299.8	296.6
17.5°	447.6	439.1	413.6	385.9	354.0	325.3	315.7	305.1	301.9	301.9
20°	479.5	475.2	436.9	387.0	353.0	333.8	327.4	322.1	321.1	317.9
22.5°	523.1	503.9	455.0	398.7	364.6	347.6	345.5	350.8	347.6	345.5
25°	556.0	540.1	468.8	415.7	382.7	377.4	380.6	385.9	377.4	374.2
27.5°	600.7	570.9	495.4	438.0	407.2	412.5	423.1	424.2	418.9	422.1
30°	642.1	610.2	515.6	463.5	448.6	454.0	469.9	481.6	474.2	469.9
32.5°	701.7	652.8	556.0	506.0	500.7	514.5	532.6	540.1	530.5	528.4
35°	764.4	701.7	597.5	553.9	563.5	582.6	598.5	611.3	596.4	602.8
37.5°	862.2	780.3	667.6	629.4	633.6	641.1	670.8	705.9	713.4	700.6
40°	964.2	865.4	732.5	702.7	712.3	732.5	767.6	800.5	817.5	800.5
42.5°	1082.3	947.2	832.4	797.3	806.9	835.6	882.4	909.0	906.8	881.3
45°	1227.9	1061.0	926.0	882.4	917.5	943.0	989.8	993.0	972.8	966.4
47.5°	1339.5	1156.7	1027.0	999.3	1047.2	1048.2	1058.9	1059.9	1037.6	1030.2
50°	1462.9	1267.2	1139.7	1099.3	1180.1	1142.9	1114.1	1095.0	1061.0	1045.0
52.5°	1584.0	1345.9	1243.8	1202.4	1286.4	1187.5	1135.4	1076.9	1027.0	1010.0
55°	1648.9	1475.6	1395.9	1299.1	1309.8	1200.3	1069.5	996.1	911.1	906.8
57.5°	1725.4	1562.8	1524.5	1365.0	1270.4	1111.0	932.4	835.6	744.2	733.6
60°	1815.8	1701.0	1660.6	1354.4	1131.2	933.4	738.9	614.5	528.4	520.9
62.5°	1916.8	1864.7	1744.6	1250.2	898.3	657.0	488.0	383.8	304.1	299.8
65°	2076.3	2001.9	1789.2	1052.5	594.3	421.0	324.3	248.8	200.9	198.8
67.5°	2176.2	2053.9	1689.3	750.6	329.6	278.5	227.5	180.7	139.3	130.8
70°	2034.8	1884.9	1336.3	429.5	191.4	211.6	175.4	121.2	95.7	93.6
72.5°	1625.5	1399.1	899.4	202.0	119.1	165.8	127.6	81.9	57.4	55.3
75°	1108.8	880.3	564.5	93.6	84.0	121.2	93.6	47.8	40.4	40.4
77.5°	495.4	448.6	289.2	57.4	62.7	92.5	54.2	33.0	29.8	28.7
80°	151.0	158.4	118.0	39.3	46.8	70.2	33.0	22.3	18.1	17.0
82.5°	51.0	59.5	53.2	23.4	31.9	50.0	22.3	14.9	12.8	12.8
85°	24.5	29.8	26.6	14.9	17.0	24.5	18.1	11.7	7.4	7.4
87.5°	9.6	13.8	9.6	6.4	9.6	12.8	7.4	5.3	2.1	2.1
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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