

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: P676346

Luminaire Tested: **CCW-SA-2A-840-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676346
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-840-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
T2 distribution lens and House Side Shield
Light Source: (32) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

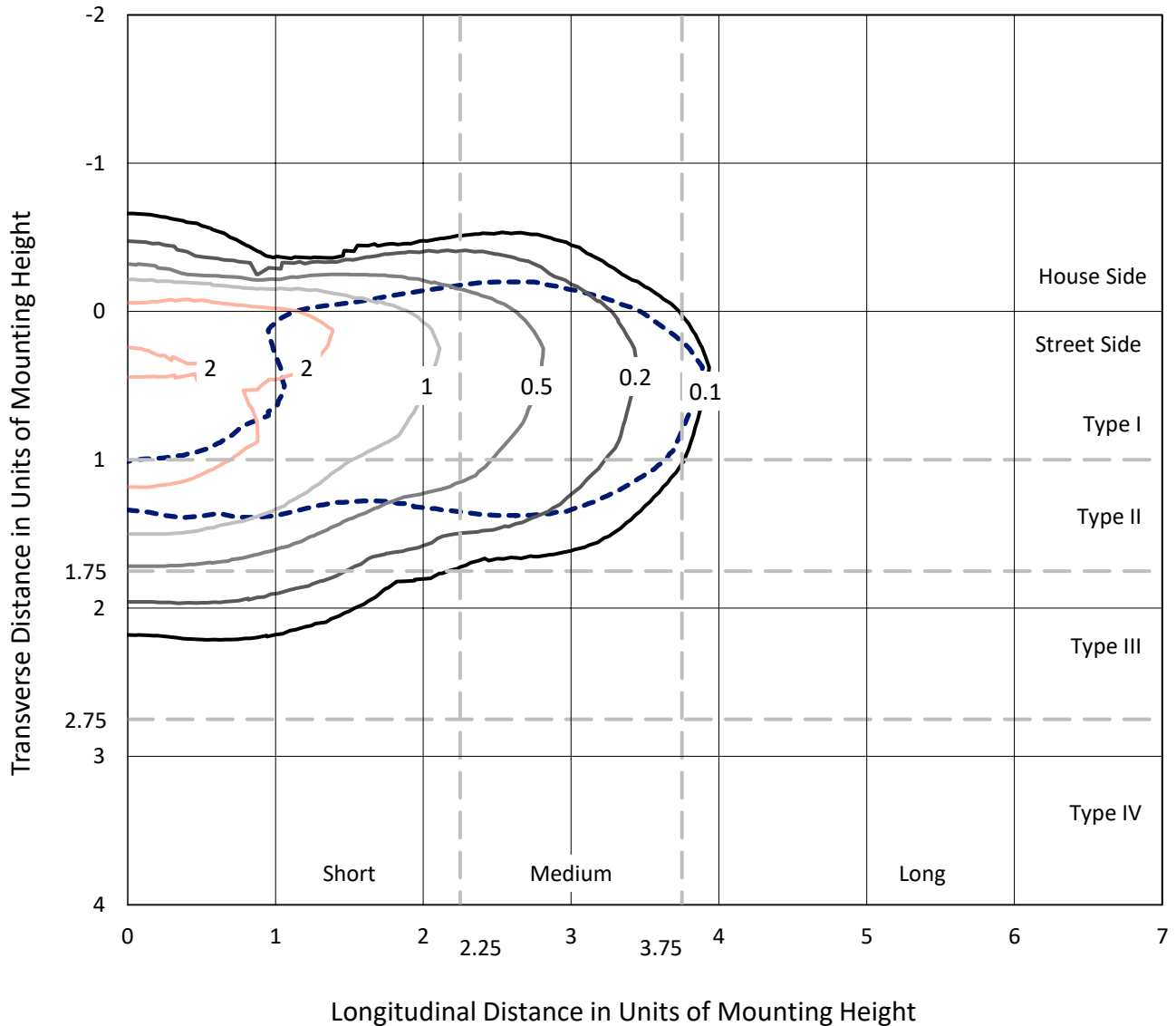
Lumens per Lamp: N/A
Luminaire Lumens: 3601.7 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2
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

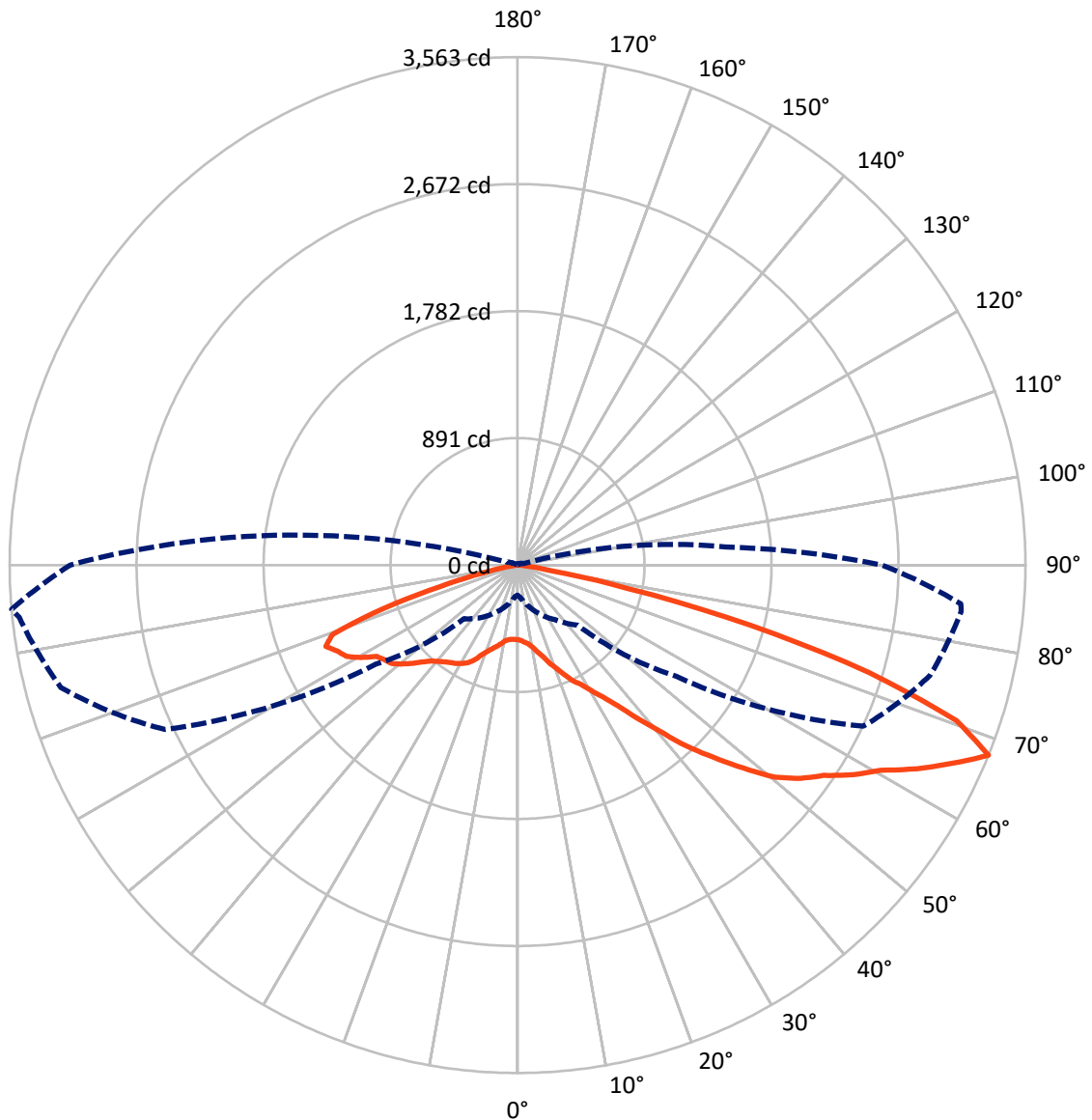
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.8 fc
 Type 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	511.7	0.0	511.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	3090.0	0.0	3090.0
	% Fixture	85.8	0.0	85.8
Total	Lumens	3601.7	0.0	3601.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.8	1.3
10°-20°	128.4	3.6
20°-30°	213.3	5.9
30°-40°	366.9	10.2
40°-50°	659.4	18.3
50°-60°	938.7	26.1
60°-70°	855.8	23.8
70°-80°	364.4	10.1
80°-90°	27.1	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°	3601.7	100.0
0°-180°	3601.7	100.0



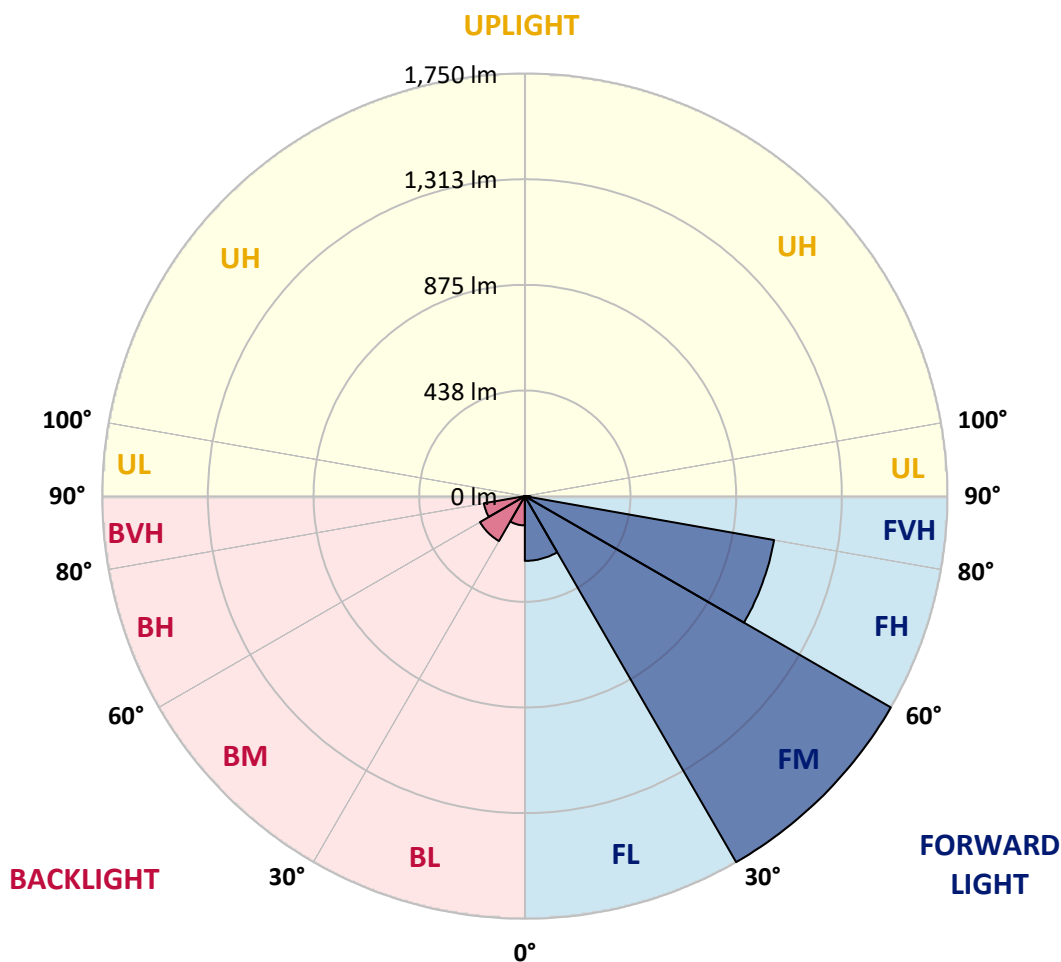
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	268.3	7.4			
FM (30°-60°)	1750.4	48.6			
FH (60°-80°)	1048.2	29.1			G1/1800
FVH (80°-90°)	23.0	0.6			G1/100
BL (0°-30°)	121.1	3.4	B1/500		
BM (30°-60°)	214.5	6.0	B0/220		
BH (60°-80°)	171.9	4.8	B1/500		G1/500
BVH (80°-90°)	4.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	523.7	523.7	523.7	523.7	523.7	523.7	523.7	523.7	523.7	523.7	523.7
2.5°	542.6	547.8	547.8	546.1	540.9	537.5	535.8	532.3	528.9	528.9	530.6
5°	547.8	542.6	549.5	540.9	540.9	540.9	547.8	544.3	542.6	534.0	534.0
7.5°	547.8	542.6	542.6	547.8	542.6	546.1	554.6	551.2	558.1	542.6	546.1
10°	532.3	530.6	534.0	540.9	542.6	549.5	558.1	575.2	577.0	566.7	564.9
12.5°	501.4	499.7	511.7	515.1	535.8	552.9	578.7	592.4	607.9	602.7	592.4
15°	479.1	482.5	491.1	504.8	523.7	554.6	583.8	614.7	642.2	635.3	631.9
17.5°	487.7	486.0	487.7	496.3	520.3	551.2	601.0	637.1	676.6	676.6	680.0
20°	513.4	518.6	516.9	511.7	523.7	549.5	601.0	664.5	729.8	724.6	724.6
22.5°	558.1	559.8	549.5	546.1	544.3	559.8	611.3	698.9	774.4	784.7	781.3
25°	604.4	606.2	602.7	592.4	578.7	582.1	630.2	726.4	836.3	853.4	850.0
27.5°	681.7	680.0	671.4	659.4	638.8	623.3	659.4	747.0	884.3	913.5	904.9
30°	759.0	753.8	741.8	726.4	707.5	678.3	695.4	786.5	944.4	971.9	953.0
32.5°	853.4	843.1	846.6	822.5	783.0	736.7	733.2	822.5	992.5	1032.0	1016.6
35°	973.6	961.6	944.4	922.1	884.3	822.5	803.6	880.9	1073.2	1102.4	1102.4
37.5°	1131.6	1143.6	1123.0	1030.3	989.1	930.7	891.2	941.0	1143.6	1214.0	1196.9
40°	1293.0	1303.3	1265.5	1196.9	1107.6	1035.4	1011.4	1038.9	1250.1	1334.2	1301.6
42.5°	1423.5	1437.3	1423.5	1334.2	1263.8	1171.1	1128.2	1153.9	1387.5	1488.8	1445.8
45°	1560.9	1574.6	1559.2	1500.8	1432.1	1378.9	1270.7	1303.3	1531.7	1682.8	1634.7
47.5°	1663.9	1681.1	1653.6	1641.6	1586.6	1578.1	1394.3	1430.4	1682.8	1878.6	1818.5
50°	1688.0	1706.9	1730.9	1744.6	1725.7	1746.3	1560.9	1591.8	1840.8	2058.9	2000.5
52.5°	1631.3	1650.2	1703.4	1767.0	1854.5	1916.3	1729.2	1754.9	2005.6	2208.3	2177.4
55°	1464.7	1481.9	1590.1	1675.9	1885.4	1986.7	1890.6	1998.8	2124.1	2364.5	2289.0
57.5°	1184.8	1205.4	1348.0	1480.2	1782.4	1947.3	1986.7	2201.4	2319.9	2479.6	2392.0
60°	841.4	853.4	977.1	1210.6	1497.4	1749.8	1967.9	2352.5	2474.4	2634.1	2587.8
62.5°	484.2	494.5	623.3	843.1	1129.9	1461.3	1883.7	2495.0	2641.0	2804.1	2778.4
65°	321.1	324.5	412.1	532.3	734.9	1076.7	1670.8	2622.1	2805.8	2939.8	2910.6
67.5°	211.2	230.1	298.8	381.2	470.5	595.9	1361.7	2675.3	2994.7	3128.7	3121.8
70°	151.1	158.0	214.6	293.6	353.7	334.8	796.8	2299.3	2986.1	3180.2	3123.5
72.5°	89.3	96.2	142.5	219.8	278.2	212.9	372.6	1626.1	2474.4	2538.0	2522.5
75°	65.3	65.3	87.6	158.0	202.6	152.8	175.1	1028.6	1643.3	1784.1	1782.4
77.5°	46.4	48.1	60.1	94.4	156.3	111.6	96.2	571.8	898.1	982.2	935.8
80°	27.5	29.2	41.2	56.7	113.3	80.7	63.5	261.0	345.1	348.6	331.4
82.5°	20.6	20.6	27.5	39.5	79.0	54.9	39.5	99.6	111.6	101.3	85.9
85°	12.0	10.3	20.6	29.2	46.4	30.9	27.5	46.4	51.5	37.8	34.3
87.5°	3.4	3.4	8.6	10.3	20.6	17.2	12.0	17.2	24.0	13.7	10.3
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°	523.7	523.7	523.7	523.7	523.7	523.7	523.7	523.7	523.7	523.7	523.7
2.5°	527.2	522.0	513.4	510.0	498.0	492.8	489.4	480.8	482.5	477.4	477.4
5°	522.0	522.0	504.8	486.0	467.1	455.0	441.3	424.1	424.1	417.3	419.0
7.5°	540.9	527.2	504.8	470.5	439.6	412.1	400.1	382.9	372.6	367.5	367.5
10°	552.9	539.2	501.4	460.2	420.7	386.4	360.6	336.6	322.8	322.8	321.1
12.5°	585.5	564.9	515.1	458.5	400.1	348.6	309.1	281.6	262.7	249.0	252.4
15°	613.0	590.7	522.0	444.7	364.0	291.9	243.8	192.3	166.6	152.8	147.7
17.5°	656.0	614.7	537.5	420.7	309.1	228.4	158.0	115.0	104.7	103.0	103.0
20°	692.0	643.9	539.2	374.3	254.1	146.0	101.3	94.4	89.3	87.6	85.9
22.5°	741.8	681.7	532.3	321.1	182.0	97.9	85.9	79.0	75.6	70.4	70.4
25°	793.3	731.5	518.6	271.3	111.6	84.1	75.6	68.7	61.8	58.4	60.1
27.5°	848.3	769.3	479.1	211.2	85.9	73.8	61.8	56.7	53.2	51.5	51.5
30°	892.9	793.3	420.7	140.8	77.3	65.3	54.9	49.8	46.4	44.6	44.6
32.5°	925.5	813.9	355.5	94.4	70.4	58.4	49.8	44.6	41.2	39.5	39.5
35°	980.5	829.4	295.4	80.7	63.5	51.5	42.9	39.5	36.1	36.1	36.1
37.5°	1064.6	850.0	235.3	73.8	58.4	46.4	41.2	36.1	34.3	32.6	32.6
40°	1138.5	875.7	168.3	67.0	53.2	42.9	36.1	32.6	30.9	29.2	29.2
42.5°	1244.9	904.9	109.9	60.1	48.1	39.5	32.6	29.2	27.5	25.8	25.8
45°	1380.6	953.0	85.9	53.2	42.9	36.1	30.9	27.5	24.0	24.0	22.3
47.5°	1524.8	1011.4	77.3	49.8	39.5	32.6	27.5	24.0	22.3	20.6	20.6
50°	1658.8	1068.1	72.1	46.4	36.1	30.9	25.8	22.3	18.9	17.2	17.2
52.5°	1779.0	1121.3	68.7	42.9	34.3	27.5	22.3	18.9	17.2	15.5	15.5
55°	1842.5	1145.3	67.0	41.2	30.9	25.8	20.6	17.2	15.5	13.7	13.7
57.5°	1942.1	1176.3	65.3	39.5	29.2	22.3	18.9	15.5	13.7	12.0	12.0
60°	2103.5	1277.6	63.5	37.8	27.5	22.3	17.2	13.7	10.3	8.6	8.6
62.5°	2237.5	1361.7	56.7	32.6	24.0	18.9	13.7	10.3	6.9	5.2	5.2
65°	2390.3	1401.2	49.8	29.2	20.6	15.5	10.3	6.9	5.2	1.7	1.7
67.5°	2556.8	1461.3	41.2	25.8	18.9	12.0	8.6	5.2	1.7	0.0	0.0
70°	2469.3	1385.7	34.3	22.3	17.2	10.3	6.9	3.4	0.0	0.0	0.0
72.5°	1935.2	992.5	27.5	20.6	15.5	10.3	6.9	1.7	0.0	0.0	0.0
75°	1293.0	561.5	24.0	17.2	12.0	8.6	5.2	1.7	0.0	0.0	0.0
77.5°	702.3	252.4	20.6	15.5	10.3	6.9	5.2	1.7	0.0	0.0	0.0
80°	228.4	99.6	17.2	13.7	10.3	6.9	5.2	1.7	0.0	0.0	0.0
82.5°	61.8	30.9	17.2	13.7	10.3	6.9	5.2	1.7	0.0	0.0	0.0
85°	25.8	20.6	17.2	13.7	10.3	6.9	5.2	1.7	0.0	0.0	0.0
87.5°	10.3	6.9	6.9	8.6	6.9	5.2	3.4	1.7	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°	523.7	523.7	523.7	523.7	523.7	523.7	523.7	523.7	523.7	523.7	523.7
2.5°	479.1	482.5	484.2	484.2	492.8	501.4	511.7	520.3	520.3	525.4	530.6
5°	420.7	424.1	429.3	444.7	461.9	480.8	499.7	513.4	532.3	540.9	546.1
7.5°	372.6	376.1	389.8	405.2	429.3	461.9	494.5	525.4	544.3	552.9	559.8
10°	322.8	328.0	343.4	370.9	401.8	441.3	479.1	532.3	563.2	580.4	587.3
12.5°	250.7	264.4	285.0	314.2	353.7	413.8	484.2	539.2	592.4	613.0	626.8
15°	158.0	170.0	202.6	249.0	302.2	372.6	470.5	549.5	623.3	643.9	666.3
17.5°	101.3	103.0	113.3	163.1	231.8	321.1	449.9	564.9	657.7	686.9	721.2
20°	85.9	89.3	91.0	97.9	154.5	264.4	407.0	583.8	698.9	738.4	771.0
22.5°	72.1	73.8	77.3	82.4	92.7	192.3	348.6	583.8	734.9	793.3	831.1
25°	58.4	61.8	65.3	70.4	80.7	120.2	288.5	573.5	777.9	850.0	898.1
27.5°	51.5	51.5	54.9	60.1	68.7	84.1	228.4	542.6	810.5	884.3	947.9
30°	44.6	46.4	48.1	53.2	61.8	73.8	158.0	492.8	844.8	951.3	1023.4
32.5°	39.5	39.5	42.9	46.4	54.9	67.0	101.3	417.3	889.5	1002.8	1104.1
35°	36.1	36.1	37.8	41.2	49.8	60.1	79.0	353.7	942.7	1100.7	1212.3
37.5°	32.6	32.6	34.3	37.8	44.6	53.2	72.1	303.9	997.7	1198.6	1361.7
40°	29.2	29.2	30.9	34.3	39.5	48.1	65.3	245.6	1066.4	1342.8	1524.8
42.5°	25.8	25.8	27.5	30.9	36.1	42.9	56.7	183.7	1157.4	1499.1	1736.0
45°	22.3	22.3	24.0	27.5	30.9	39.5	51.5	140.8	1257.0	1672.5	1921.5
47.5°	18.9	20.6	22.3	25.8	29.2	36.1	46.4	123.6	1354.8	1856.2	2127.6
50°	17.2	17.2	18.9	22.3	27.5	32.6	42.9	121.9	1454.4	1997.0	2338.8
52.5°	15.5	15.5	17.2	20.6	25.8	30.9	41.2	125.4	1536.9	2127.6	2486.4
55°	13.7	13.7	15.5	17.2	22.3	29.2	37.8	128.8	1595.2	2259.8	2604.9
57.5°	12.0	12.0	13.7	17.2	20.6	25.8	34.3	132.2	1689.7	2390.3	2776.6
60°	8.6	8.6	12.0	15.5	18.9	22.3	32.6	135.7	1840.8	2570.6	2922.6
62.5°	5.2	5.2	6.9	12.0	15.5	20.6	29.2	128.8	1981.6	2802.4	3145.8
65°	1.7	3.4	5.2	6.9	12.0	17.2	24.0	116.8	2100.1	3034.2	3351.9
67.5°	0.0	0.0	1.7	5.2	10.3	13.7	20.6	85.9	2119.0	3139.0	3563.1
70°	0.0	0.0	1.7	5.2	8.6	13.7	18.9	48.1	1804.7	2804.1	3266.0
72.5°	0.0	0.0	0.0	3.4	8.6	12.0	17.2	36.1	1330.8	2113.8	2580.9
75°	0.0	0.0	0.0	1.7	6.9	10.3	15.5	27.5	808.8	1409.8	1684.5
77.5°	0.0	0.0	0.0	1.7	5.2	10.3	15.5	24.0	285.0	671.4	791.6
80°	0.0	0.0	0.0	3.4	6.9	10.3	13.7	20.6	68.7	168.3	226.7
82.5°	0.0	0.0	0.0	1.7	5.2	8.6	12.0	17.2	27.5	49.8	79.0
85°	0.0	0.0	0.0	1.7	3.4	8.6	12.0	15.5	18.9	24.0	34.3
87.5°	0.0	0.0	0.0	0.0	1.7	3.4	5.2	6.9	6.9	6.9	12.0
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):

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	523.7	523.7	523.7	523.7	523.7	523.7	523.7	523.7	523.7	523.7
2.5°	528.9	535.8	539.2	546.1	549.5	547.8	546.1	551.2	547.8	542.6
5°	547.8	547.8	552.9	554.6	554.6	549.5	552.9	551.2	547.8	547.8
7.5°	568.4	577.0	577.0	566.7	564.9	561.5	561.5	547.8	542.6	547.8
10°	589.0	595.9	597.6	585.5	570.1	563.2	554.6	537.5	528.9	532.3
12.5°	631.9	631.9	613.0	599.3	578.7	554.6	534.0	510.0	498.0	501.4
15°	662.8	669.7	643.9	613.0	577.0	532.3	510.0	491.1	484.2	479.1
17.5°	722.9	709.2	668.0	623.3	571.8	525.4	510.0	492.8	487.7	487.7
20°	774.4	767.6	705.8	625.0	570.1	539.2	528.9	520.3	518.6	513.4
22.5°	844.8	813.9	734.9	643.9	589.0	561.5	558.1	566.7	561.5	558.1
25°	898.1	872.3	757.3	671.4	618.2	609.6	614.7	623.3	609.6	604.4
27.5°	970.2	922.1	800.2	707.5	657.7	666.3	683.4	685.1	676.6	681.7
30°	1037.2	985.6	832.8	748.7	724.6	733.2	759.0	777.9	765.9	759.0
32.5°	1133.3	1054.3	898.1	817.4	808.8	831.1	860.3	872.3	856.9	853.4
35°	1234.6	1133.3	965.0	894.6	910.1	941.0	966.8	987.4	963.3	973.6
37.5°	1392.6	1260.4	1078.4	1016.6	1023.4	1035.4	1083.5	1140.2	1152.2	1131.6
40°	1557.5	1397.8	1183.1	1135.0	1150.5	1183.1	1239.8	1293.0	1320.5	1293.0
42.5°	1748.1	1530.0	1344.5	1287.9	1303.3	1349.7	1425.2	1468.2	1464.7	1423.5
45°	1983.3	1713.7	1495.6	1425.2	1481.9	1523.1	1598.7	1603.8	1571.2	1560.9
47.5°	2163.6	1868.3	1658.8	1614.1	1691.4	1693.1	1710.3	1712.0	1675.9	1663.9
50°	2362.8	2046.8	1840.8	1775.5	1906.0	1845.9	1799.6	1768.7	1713.7	1688.0
52.5°	2558.6	2173.9	2009.1	1942.1	2077.8	1918.1	1833.9	1739.5	1658.8	1631.3
55°	2663.3	2383.4	2254.6	2098.4	2115.5	1938.7	1727.5	1609.0	1471.6	1464.7
57.5°	2786.9	2524.2	2462.4	2204.8	2052.0	1794.4	1505.9	1349.7	1202.0	1184.8
60°	2932.9	2747.4	2682.2	2187.7	1827.1	1507.7	1193.4	992.5	853.4	841.4
62.5°	3096.0	3011.9	2817.8	2019.4	1451.0	1061.2	788.2	619.9	491.1	484.2
65°	3353.6	3233.4	2890.0	1700.0	959.9	680.0	523.7	401.8	324.5	321.1
67.5°	3515.0	3317.5	2728.6	1212.3	532.3	449.9	367.5	291.9	224.9	211.2
70°	3286.6	3044.5	2158.5	693.7	309.1	341.7	283.3	195.8	154.5	151.1
72.5°	2625.5	2259.8	1452.7	326.3	192.3	267.9	206.1	132.2	92.7	89.3
75°	1791.0	1421.8	911.8	151.1	135.7	195.8	151.1	77.3	65.3	65.3
77.5°	800.2	724.6	467.1	92.7	101.3	149.4	87.6	53.2	48.1	46.4
80°	243.8	255.9	190.6	63.5	75.6	113.3	53.2	36.1	29.2	27.5
82.5°	82.4	96.2	85.9	37.8	51.5	80.7	36.1	24.0	20.6	20.6
85°	39.5	48.1	42.9	24.0	27.5	39.5	29.2	18.9	12.0	12.0
87.5°	15.5	22.3	15.5	10.3	15.5	20.6	12.0	8.6	3.4	3.4
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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