

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: P676331

Luminaire Tested: **CCW-SA-1C-835-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676331
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-835-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
T2 distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

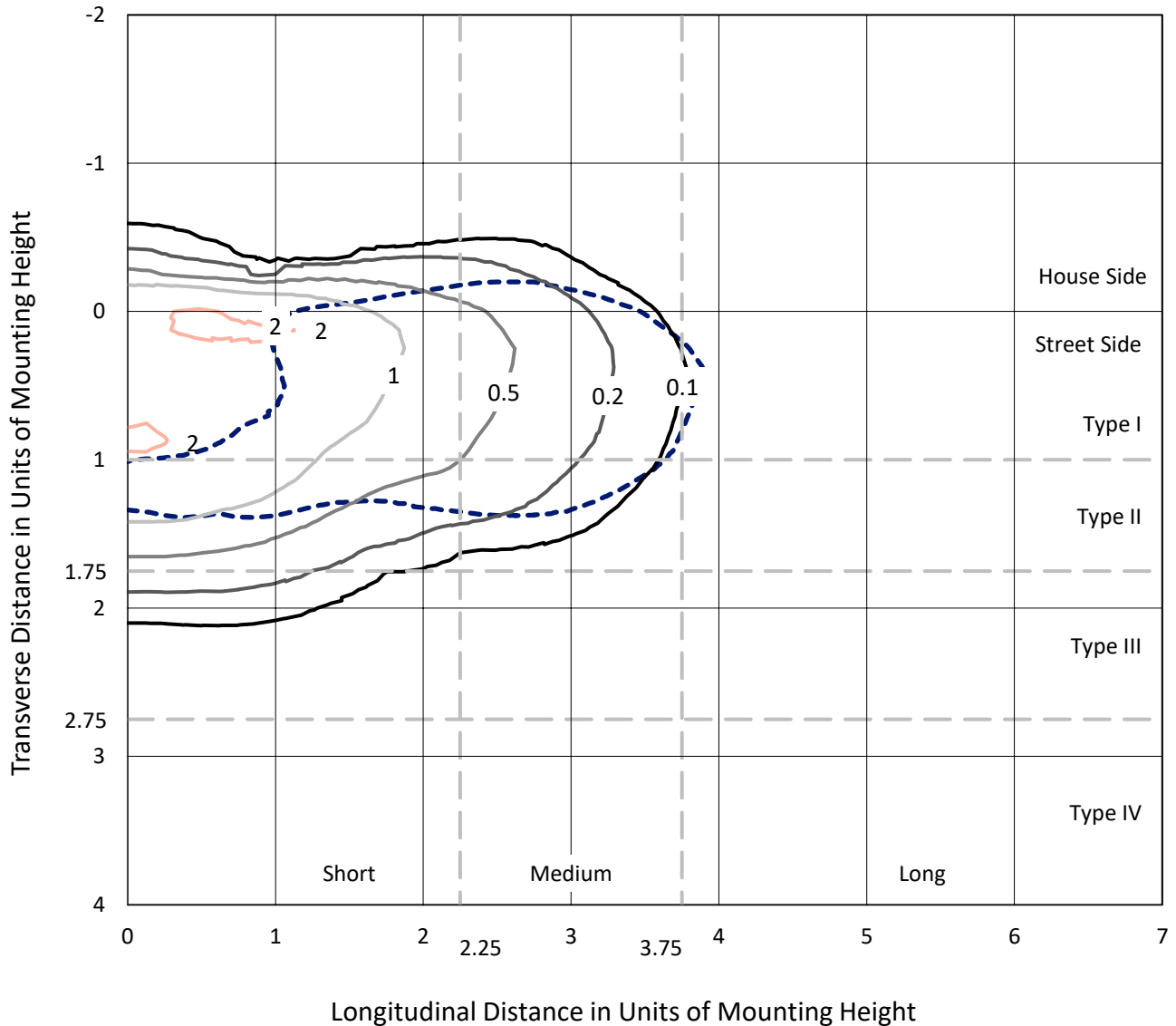
Lumens per Lamp: N/A
Luminaire Lumens: 2876.2 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 32
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

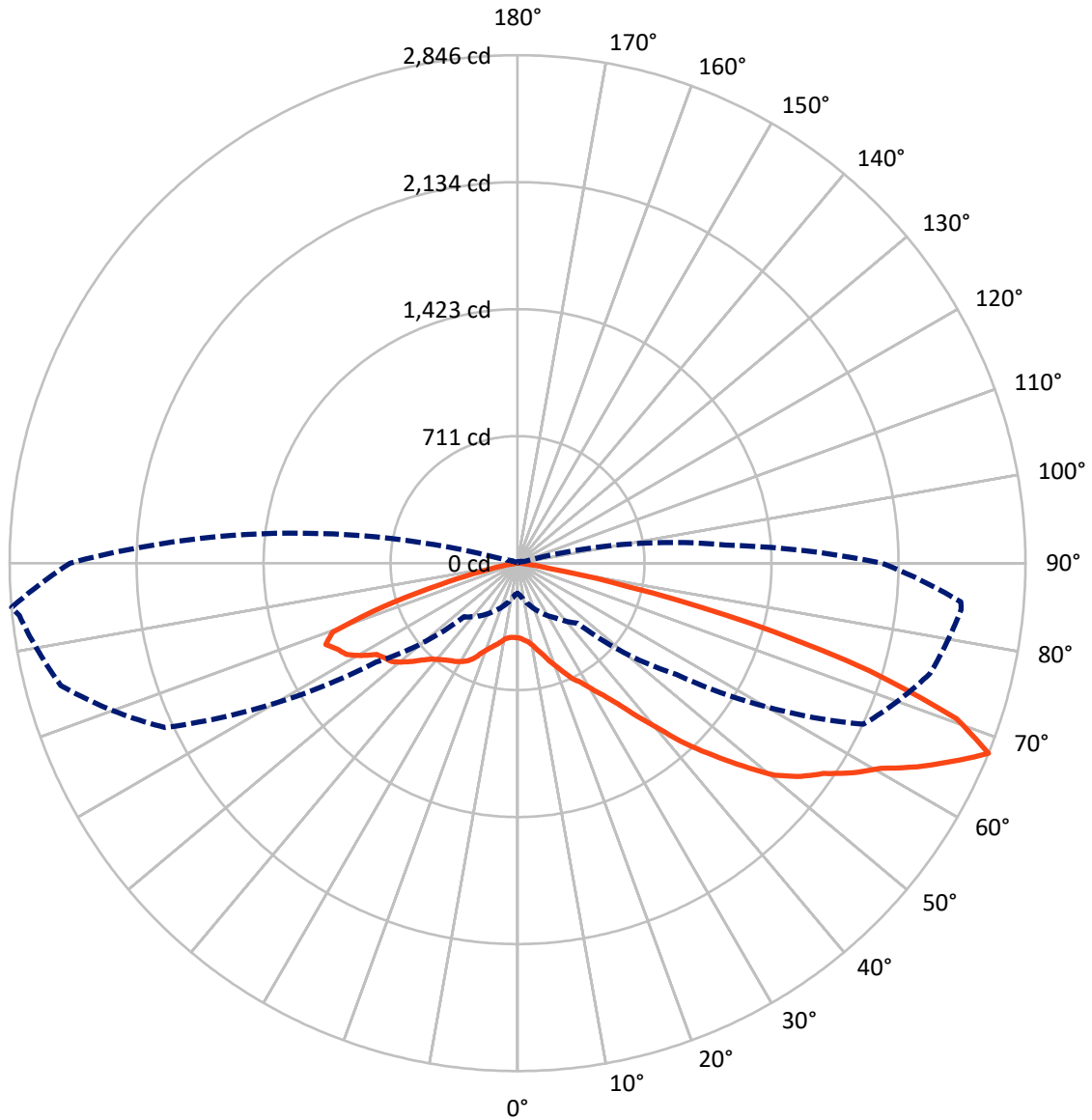
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.2 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	408.6	0.0	408.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	2467.6	0.0	2467.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	2876.2	0.0	2876.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.1	1.3
10°-20°	102.6	3.6
20°-30°	170.3	5.9
30°-40°	293.0	10.2
40°-50°	526.6	18.3
50°-60°	749.6	26.1
60°-70°	683.4	23.8
70°-80°	291.0	10.1
80°-90°	21.7	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°	2876.2	100.0
0°-180°	2876.2	100.0



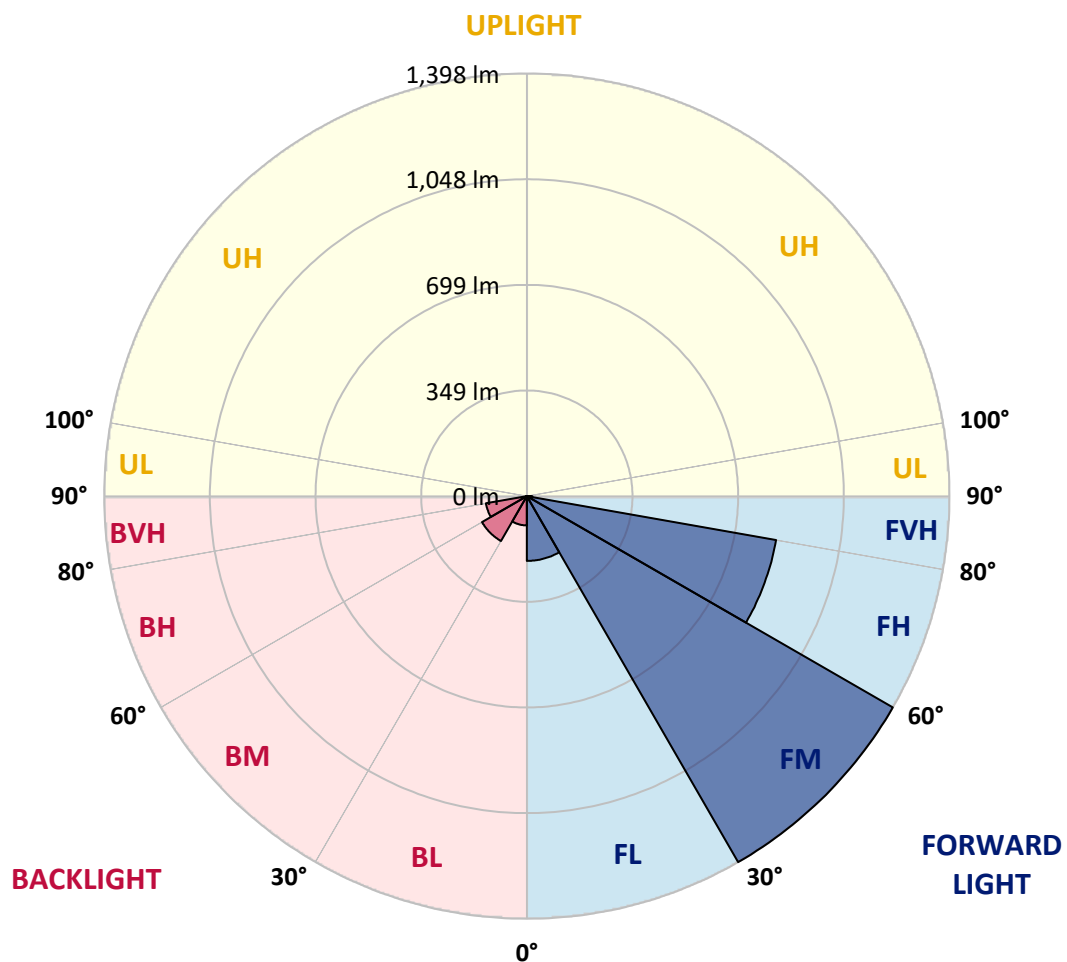
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	214.3	7.4			
FM (30°-60°)	1397.9	48.6			
FH (60°-80°)	837.1	29.1			G1/1800
FVH (80°-90°)	18.4	0.6			G1/100
BL (0°-30°)	96.7	3.4	B0/110		
BM (30°-60°)	171.3	6.0	B0/220		
BH (60°-80°)	137.3	4.8	B1/500		G1/500
BVH (80°-90°)	3.3	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°	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2
2.5°	433.3	437.4	437.4	436.1	432.0	429.2	427.8	425.1	422.4	422.4	423.7
5°	437.4	433.3	438.8	432.0	432.0	432.0	437.4	434.7	433.3	426.5	426.5
7.5°	437.4	433.3	433.3	437.4	433.3	436.1	442.9	440.2	445.7	433.3	436.1
10°	425.1	423.7	426.5	432.0	433.3	438.8	445.7	459.4	460.8	452.5	451.2
12.5°	400.4	399.0	408.6	411.4	427.8	441.6	462.1	473.1	485.4	481.3	473.1
15°	382.6	385.3	392.2	403.2	418.2	442.9	466.2	490.9	512.9	507.4	504.6
17.5°	389.5	388.1	389.5	396.3	415.5	440.2	480.0	508.8	540.3	540.3	543.0
20°	410.0	414.1	412.8	408.6	418.2	438.8	480.0	530.7	582.8	578.7	578.7
22.5°	445.7	447.0	438.8	436.1	434.7	447.0	488.2	558.1	618.5	626.7	623.9
25°	482.7	484.1	481.3	473.1	462.1	464.9	503.3	580.1	667.8	681.5	678.8
27.5°	544.4	543.0	536.2	526.6	510.1	497.8	526.6	596.5	706.2	729.5	722.7
30°	606.1	602.0	592.4	580.1	565.0	541.7	555.4	628.1	754.2	776.2	761.1
32.5°	681.5	673.3	676.1	656.9	625.3	588.3	585.5	656.9	792.6	824.2	811.8
35°	777.5	767.9	754.2	736.4	706.2	656.9	641.8	703.5	857.1	880.4	880.4
37.5°	903.7	913.3	896.8	822.8	789.9	743.2	711.7	751.5	913.3	969.5	955.8
40°	1032.6	1040.8	1010.7	955.8	884.5	826.9	807.7	829.6	998.3	1065.5	1039.4
42.5°	1136.8	1147.8	1136.8	1065.5	1009.3	935.2	900.9	921.5	1108.0	1188.9	1154.6
45°	1246.5	1257.5	1245.1	1198.5	1143.7	1101.2	1014.8	1040.8	1223.2	1343.9	1305.5
47.5°	1328.8	1342.5	1320.6	1311.0	1267.1	1260.2	1113.5	1142.3	1343.9	1500.2	1452.2
50°	1348.0	1363.1	1382.3	1393.2	1378.2	1394.6	1246.5	1271.2	1470.0	1644.2	1597.6
52.5°	1302.7	1317.8	1360.3	1411.1	1481.0	1530.4	1380.9	1401.5	1601.7	1763.5	1738.8
55°	1169.7	1183.4	1269.8	1338.4	1505.7	1586.6	1509.8	1596.2	1696.3	1888.3	1827.9
57.5°	946.2	962.7	1076.5	1182.1	1423.4	1555.1	1586.6	1758.0	1852.6	1980.2	1910.2
60°	671.9	681.5	780.3	966.8	1195.8	1397.4	1571.5	1878.7	1976.1	2103.6	2066.6
62.5°	386.7	394.9	497.8	673.3	902.3	1167.0	1504.3	1992.5	2109.1	2239.3	2218.8
65°	256.4	259.2	329.1	425.1	586.9	859.8	1334.3	2094.0	2240.7	2347.7	2324.4
67.5°	168.7	183.8	238.6	304.4	375.7	475.8	1087.4	2136.5	2391.6	2498.5	2493.0
70°	120.7	126.2	171.4	234.5	282.5	267.4	636.3	1836.2	2384.7	2539.7	2494.4
72.5°	71.3	76.8	113.8	175.5	222.2	170.0	297.6	1298.6	1976.1	2026.8	2014.4
75°	52.1	52.1	69.9	126.2	161.8	122.0	139.9	821.4	1312.3	1424.8	1423.4
77.5°	37.0	38.4	48.0	75.4	124.8	89.1	76.8	456.6	717.2	784.4	747.4
80°	21.9	23.3	32.9	45.3	90.5	64.5	50.7	208.4	275.6	278.4	264.7
82.5°	16.5	16.5	21.9	31.5	63.1	43.9	31.5	79.5	89.1	80.9	68.6
85°	9.6	8.2	16.5	23.3	37.0	24.7	21.9	37.0	41.1	30.2	27.4
87.5°	2.7	2.7	6.9	8.2	16.5	13.7	9.6	13.7	19.2	11.0	8.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2
2.5°	421.0	416.9	410.0	407.3	397.7	393.6	390.8	384.0	385.3	381.2	381.2
5°	416.9	416.9	403.2	388.1	373.0	363.4	352.4	338.7	338.7	333.2	334.6
7.5°	432.0	421.0	403.2	375.7	351.1	329.1	319.5	305.8	297.6	293.5	293.5
10°	441.6	430.6	400.4	367.5	336.0	308.5	288.0	268.8	257.8	257.8	256.4
12.5°	467.6	451.2	411.4	366.1	319.5	278.4	246.8	224.9	209.8	198.8	201.6
15°	489.6	471.7	416.9	355.2	290.7	233.1	194.7	153.6	133.0	122.0	117.9
17.5°	523.8	490.9	429.2	336.0	246.8	182.4	126.2	91.9	83.6	82.3	82.3
20°	552.6	514.2	430.6	298.9	203.0	116.6	80.9	75.4	71.3	69.9	68.6
22.5°	592.4	544.4	425.1	256.4	145.4	78.2	68.6	63.1	60.3	56.2	56.2
25°	633.5	584.2	414.1	216.7	89.1	67.2	60.3	54.9	49.4	46.6	48.0
27.5°	677.4	614.3	382.6	168.7	68.6	59.0	49.4	45.3	42.5	41.1	41.1
30°	713.1	633.5	336.0	112.4	61.7	52.1	43.9	39.8	37.0	35.7	35.7
32.5°	739.1	650.0	283.9	75.4	56.2	46.6	39.8	35.7	32.9	31.5	31.5
35°	783.0	662.3	235.9	64.5	50.7	41.1	34.3	31.5	28.8	28.8	28.8
37.5°	850.2	678.8	187.9	59.0	46.6	37.0	32.9	28.8	27.4	26.1	26.1
40°	909.2	699.4	134.4	53.5	42.5	34.3	28.8	26.1	24.7	23.3	23.3
42.5°	994.2	722.7	87.8	48.0	38.4	31.5	26.1	23.3	21.9	20.6	20.6
45°	1102.5	761.1	68.6	42.5	34.3	28.8	24.7	21.9	19.2	19.2	17.8
47.5°	1217.7	807.7	61.7	39.8	31.5	26.1	21.9	19.2	17.8	16.5	16.5
50°	1324.7	853.0	57.6	37.0	28.8	24.7	20.6	17.8	15.1	13.7	13.7
52.5°	1420.7	895.5	54.9	34.3	27.4	21.9	17.8	15.1	13.7	12.3	12.3
55°	1471.4	914.7	53.5	32.9	24.7	20.6	16.5	13.7	12.3	11.0	11.0
57.5°	1550.9	939.3	52.1	31.5	23.3	17.8	15.1	12.3	11.0	9.6	9.6
60°	1679.8	1020.3	50.7	30.2	21.9	17.8	13.7	11.0	8.2	6.9	6.9
62.5°	1786.8	1087.4	45.3	26.1	19.2	15.1	11.0	8.2	5.5	4.1	4.1
65°	1908.9	1119.0	39.8	23.3	16.5	12.3	8.2	5.5	4.1	1.4	1.4
67.5°	2041.9	1167.0	32.9	20.6	15.1	9.6	6.9	4.1	1.4	0.0	0.0
70°	1971.9	1106.6	27.4	17.8	13.7	8.2	5.5	2.7	0.0	0.0	0.0
72.5°	1545.5	792.6	21.9	16.5	12.3	8.2	5.5	1.4	0.0	0.0	0.0
75°	1032.6	448.4	19.2	13.7	9.6	6.9	4.1	1.4	0.0	0.0	0.0
77.5°	560.9	201.6	16.5	12.3	8.2	5.5	4.1	1.4	0.0	0.0	0.0
80°	182.4	79.5	13.7	11.0	8.2	5.5	4.1	1.4	0.0	0.0	0.0
82.5°	49.4	24.7	13.7	11.0	8.2	5.5	4.1	1.4	0.0	0.0	0.0
85°	20.6	16.5	13.7	11.0	8.2	5.5	4.1	1.4	0.0	0.0	0.0
87.5°	8.2	5.5	5.5	6.9	5.5	4.1	2.7	1.4	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°	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2
2.5°	382.6	385.3	386.7	386.7	393.6	400.4	408.6	415.5	415.5	419.6	423.7
5°	336.0	338.7	342.8	355.2	368.9	384.0	399.0	410.0	425.1	432.0	436.1
7.5°	297.6	300.3	311.3	323.6	342.8	368.9	394.9	419.6	434.7	441.6	447.0
10°	257.8	261.9	274.3	296.2	320.9	352.4	382.6	425.1	449.8	463.5	469.0
12.5°	200.2	211.2	227.6	250.9	282.5	330.5	386.7	430.6	473.1	489.6	500.5
15°	126.2	135.8	161.8	198.8	241.3	297.6	375.7	438.8	497.8	514.2	532.1
17.5°	80.9	82.3	90.5	130.3	185.1	256.4	359.3	451.2	525.2	548.5	575.9
20°	68.6	71.3	72.7	78.2	123.4	211.2	325.0	466.2	558.1	589.7	615.7
22.5°	57.6	59.0	61.7	65.8	74.1	153.6	278.4	466.2	586.9	633.5	663.7
25°	46.6	49.4	52.1	56.2	64.5	96.0	230.4	458.0	621.2	678.8	717.2
27.5°	41.1	41.1	43.9	48.0	54.9	67.2	182.4	433.3	647.3	706.2	757.0
30°	35.7	37.0	38.4	42.5	49.4	59.0	126.2	393.6	674.7	759.7	817.3
32.5°	31.5	31.5	34.3	37.0	43.9	53.5	80.9	333.2	710.3	800.8	881.7
35°	28.8	28.8	30.2	32.9	39.8	48.0	63.1	282.5	752.8	879.0	968.1
37.5°	26.1	26.1	27.4	30.2	35.7	42.5	57.6	242.7	796.7	957.2	1087.4
40°	23.3	23.3	24.7	27.4	31.5	38.4	52.1	196.1	851.6	1072.4	1217.7
42.5°	20.6	20.6	21.9	24.7	28.8	34.3	45.3	146.7	924.3	1197.1	1386.4
45°	17.8	17.8	19.2	21.9	24.7	31.5	41.1	112.4	1003.8	1335.7	1534.5
47.5°	15.1	16.5	17.8	20.6	23.3	28.8	37.0	98.7	1082.0	1482.4	1699.0
50°	13.7	13.7	15.1	17.8	21.9	26.1	34.3	97.4	1161.5	1594.8	1867.7
52.5°	12.3	12.3	13.7	16.5	20.6	24.7	32.9	100.1	1227.3	1699.0	1985.6
55°	11.0	11.0	12.3	13.7	17.8	23.3	30.2	102.8	1273.9	1804.6	2080.3
57.5°	9.6	9.6	11.0	13.7	16.5	20.6	27.4	105.6	1349.4	1908.9	2217.4
60°	6.9	6.9	9.6	12.3	15.1	17.8	26.1	108.3	1470.0	2052.8	2334.0
62.5°	4.1	4.1	5.5	9.6	12.3	16.5	23.3	102.8	1582.5	2238.0	2512.2
65°	1.4	2.7	4.1	5.5	9.6	13.7	19.2	93.2	1677.1	2423.1	2676.8
67.5°	0.0	0.0	1.4	4.1	8.2	11.0	16.5	68.6	1692.2	2506.7	2845.5
70°	0.0	0.0	1.4	4.1	6.9	11.0	15.1	38.4	1441.2	2239.3	2608.2
72.5°	0.0	0.0	0.0	2.7	6.9	9.6	13.7	28.8	1062.8	1688.1	2061.1
75°	0.0	0.0	0.0	1.4	5.5	8.2	12.3	21.9	645.9	1125.8	1345.3
77.5°	0.0	0.0	0.0	1.4	4.1	8.2	12.3	19.2	227.6	536.2	632.2
80°	0.0	0.0	0.0	2.7	5.5	8.2	11.0	16.5	54.9	134.4	181.0
82.5°	0.0	0.0	0.0	1.4	4.1	6.9	9.6	13.7	21.9	39.8	63.1
85°	0.0	0.0	0.0	1.4	2.7	6.9	9.6	12.3	15.1	19.2	27.4
87.5°	0.0	0.0	0.0	0.0	1.4	2.7	4.1	5.5	5.5	5.5	9.6
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°	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2
2.5°	422.4	427.8	430.6	436.1	438.8	437.4	436.1	440.2	437.4	433.3
5°	437.4	437.4	441.6	442.9	442.9	438.8	441.6	440.2	437.4	437.4
7.5°	453.9	460.8	460.8	452.5	451.2	448.4	448.4	437.4	433.3	437.4
10°	470.4	475.8	477.2	467.6	455.3	449.8	442.9	429.2	422.4	425.1
12.5°	504.6	504.6	489.6	478.6	462.1	442.9	426.5	407.3	397.7	400.4
15°	529.3	534.8	514.2	489.6	460.8	425.1	407.3	392.2	386.7	382.6
17.5°	577.3	566.3	533.4	497.8	456.6	419.6	407.3	393.6	389.5	389.5
20°	618.5	613.0	563.6	499.2	455.3	430.6	422.4	415.5	414.1	410.0
22.5°	674.7	650.0	586.9	514.2	470.4	448.4	445.7	452.5	448.4	445.7
25°	717.2	696.6	604.7	536.2	493.7	486.8	490.9	497.8	486.8	482.7
27.5°	774.8	736.4	639.0	565.0	525.2	532.1	545.8	547.2	540.3	544.4
30°	828.3	787.1	665.1	597.9	578.7	585.5	606.1	621.2	611.6	606.1
32.5°	905.1	842.0	717.2	652.7	645.9	663.7	687.0	696.6	684.3	681.5
35°	986.0	905.1	770.7	714.4	726.8	751.5	772.0	788.5	769.3	777.5
37.5°	1112.1	1006.5	861.2	811.8	817.3	826.9	865.3	910.5	920.1	903.7
40°	1243.8	1116.2	944.8	906.4	918.8	944.8	990.1	1032.6	1054.5	1032.6
42.5°	1396.0	1221.8	1073.7	1028.5	1040.8	1077.8	1138.2	1172.5	1169.7	1136.8
45°	1583.9	1368.6	1194.4	1138.2	1183.4	1216.3	1276.7	1280.8	1254.7	1246.5
47.5°	1727.8	1492.0	1324.7	1289.0	1350.7	1352.1	1365.8	1367.2	1338.4	1328.8
50°	1886.9	1634.6	1470.0	1417.9	1522.1	1474.2	1437.1	1412.4	1368.6	1348.0
52.5°	2043.2	1736.1	1604.4	1550.9	1659.3	1531.7	1464.6	1389.1	1324.7	1302.7
55°	2126.9	1903.4	1800.5	1675.7	1689.4	1548.2	1379.5	1284.9	1175.2	1169.7
57.5°	2225.6	2015.8	1966.5	1760.8	1638.7	1433.0	1202.6	1077.8	959.9	946.2
60°	2342.2	2194.1	2142.0	1747.0	1459.1	1204.0	953.1	792.6	681.5	671.9
62.5°	2472.5	2405.3	2250.3	1612.7	1158.8	847.5	629.4	495.0	392.2	386.7
65°	2678.2	2582.2	2307.9	1357.6	766.6	543.0	418.2	320.9	259.2	256.4
67.5°	2807.1	2649.4	2179.0	968.1	425.1	359.3	293.5	233.1	179.6	168.7
70°	2624.7	2431.3	1723.7	554.0	246.8	272.9	226.3	156.3	123.4	120.7
72.5°	2096.7	1804.6	1160.1	260.5	153.6	213.9	164.6	105.6	74.1	71.3
75°	1430.3	1135.4	728.2	120.7	108.3	156.3	120.7	61.7	52.1	52.1
77.5°	639.0	578.7	373.0	74.1	80.9	119.3	69.9	42.5	38.4	37.0
80°	194.7	204.3	152.2	50.7	60.3	90.5	42.5	28.8	23.3	21.9
82.5°	65.8	76.8	68.6	30.2	41.1	64.5	28.8	19.2	16.5	16.5
85°	31.5	38.4	34.3	19.2	21.9	31.5	23.3	15.1	9.6	9.6
87.5°	12.3	17.8	12.3	8.2	12.3	16.5	9.6	6.9	2.7	2.7
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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