

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: P676292

Luminaire Tested: **CCW-SA-2B-750-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676292
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-750-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
T2 distribution lens and House Side Shield
Light Source: (32) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

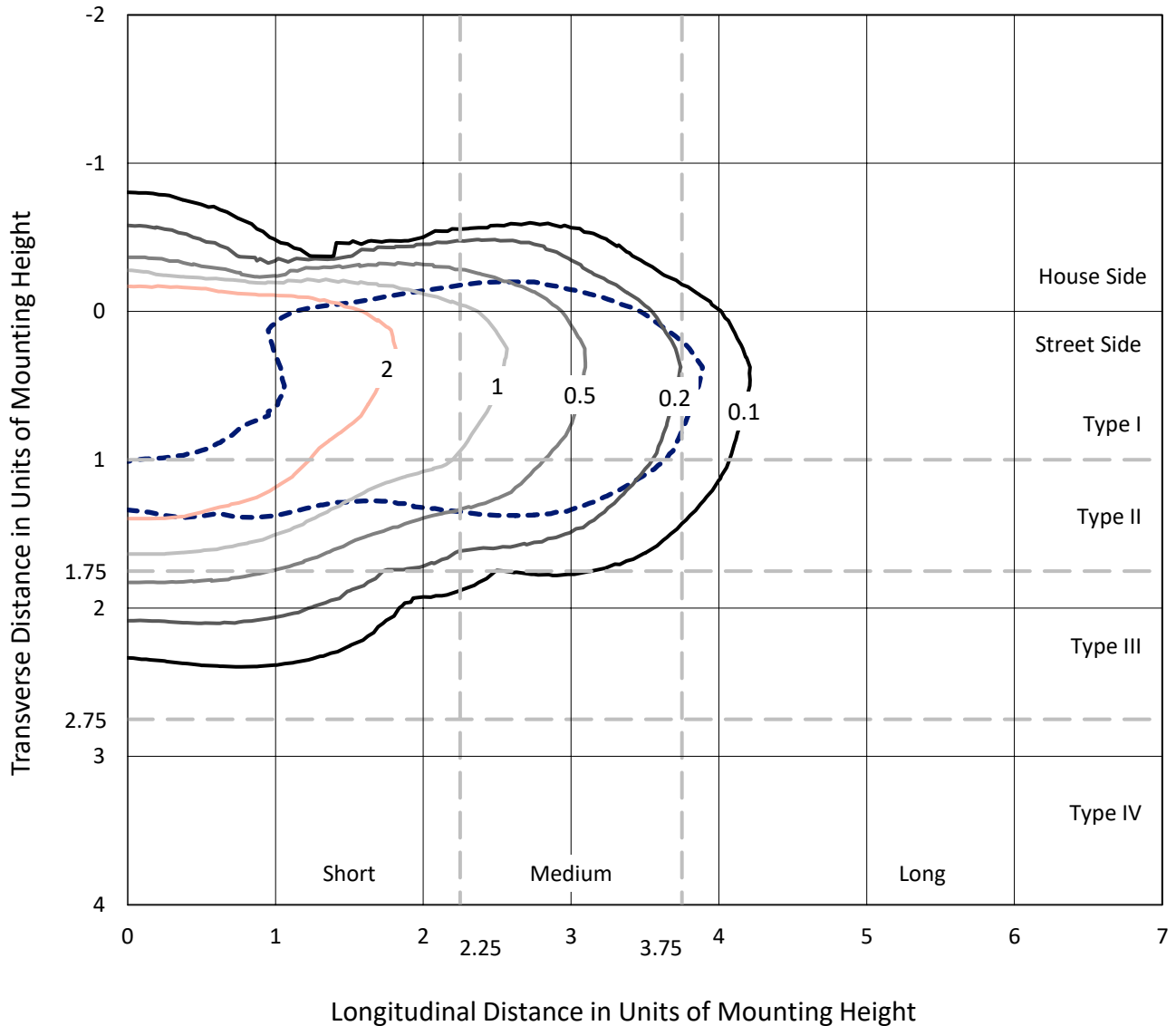
Lumens per Lamp: N/A
Luminaire Lumens: 5453.9 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 46
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

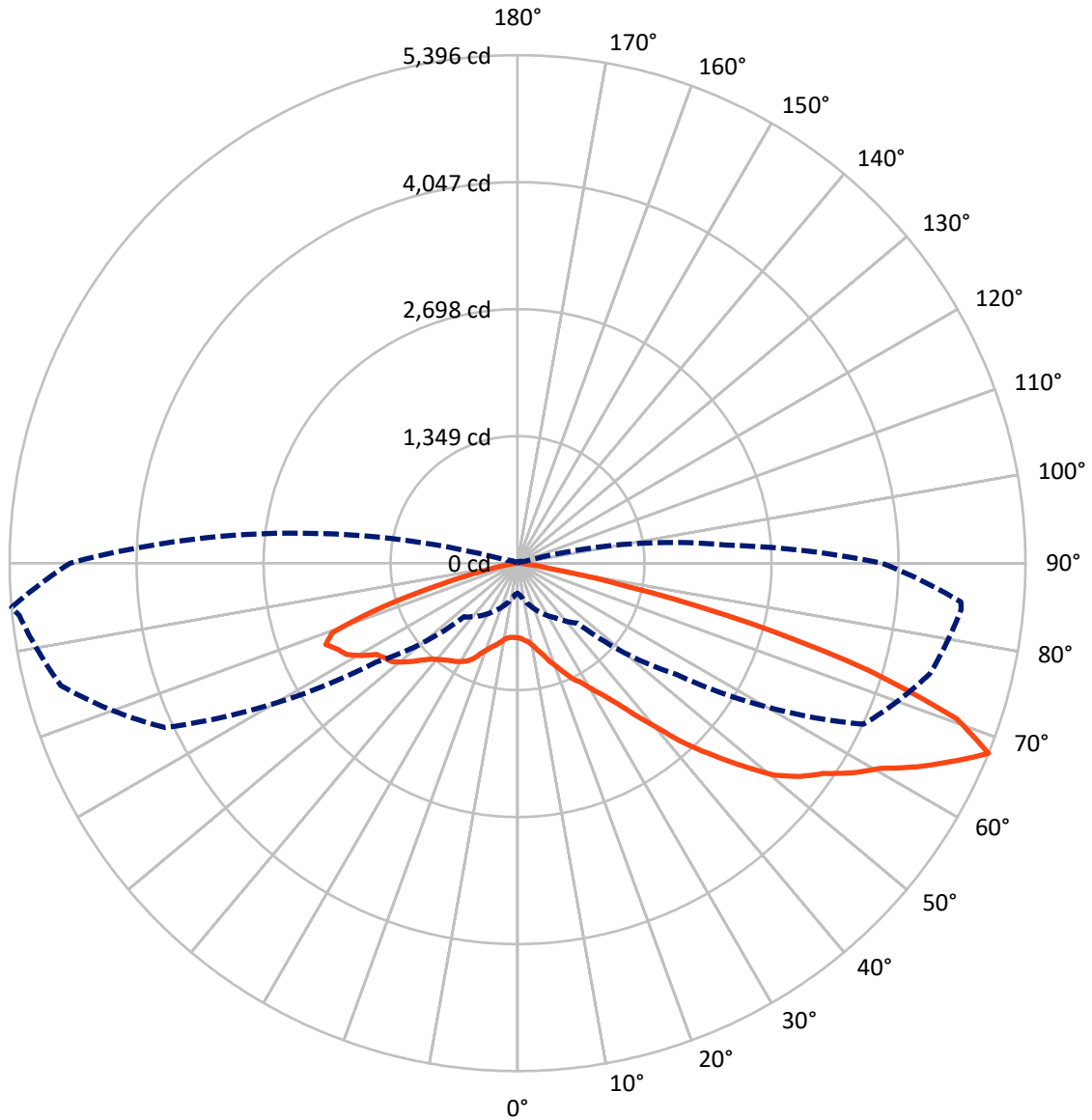
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.2 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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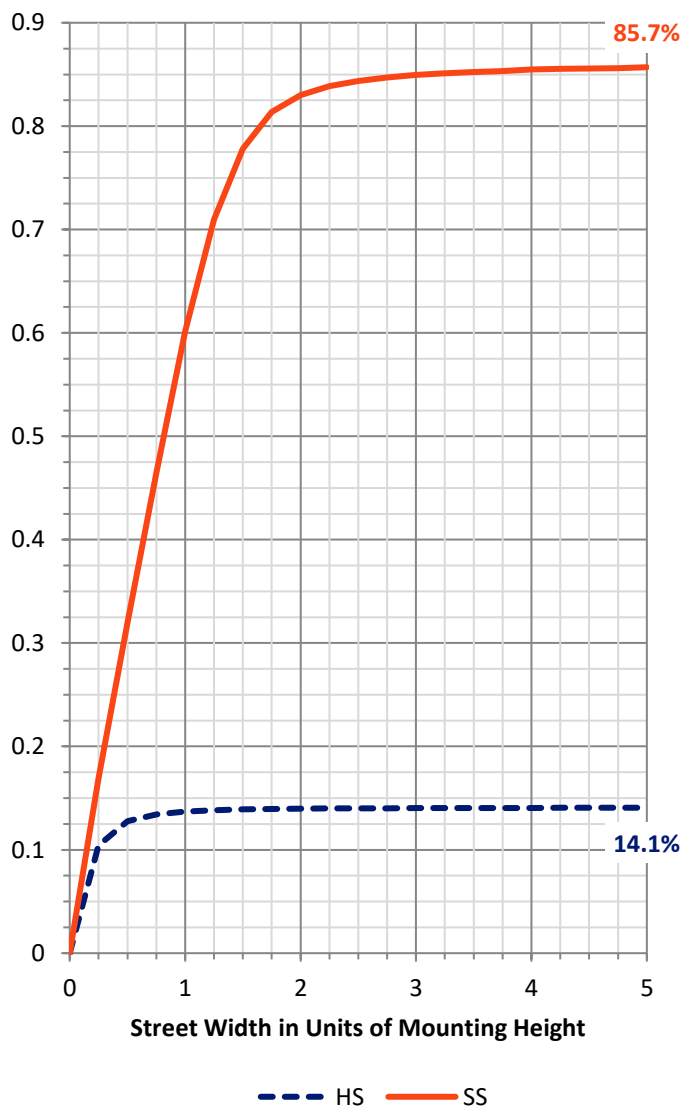
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	774.8	0.0	774.8
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	4679.1	0.0	4679.1
	% Fixture	85.8	0.0	85.8
Total	Lumens	5453.9	0.0	5453.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.3	1.3
10°-20°	194.5	3.6
20°-30°	322.9	5.9
30°-40°	555.6	10.2
40°-50°	998.5	18.3
50°-60°	1421.4	26.1
60°-70°	1295.9	23.8
70°-80°	551.8	10.1
80°-90°	41.1	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°	5453.9	100.0
0°-180°	5453.9	100.0



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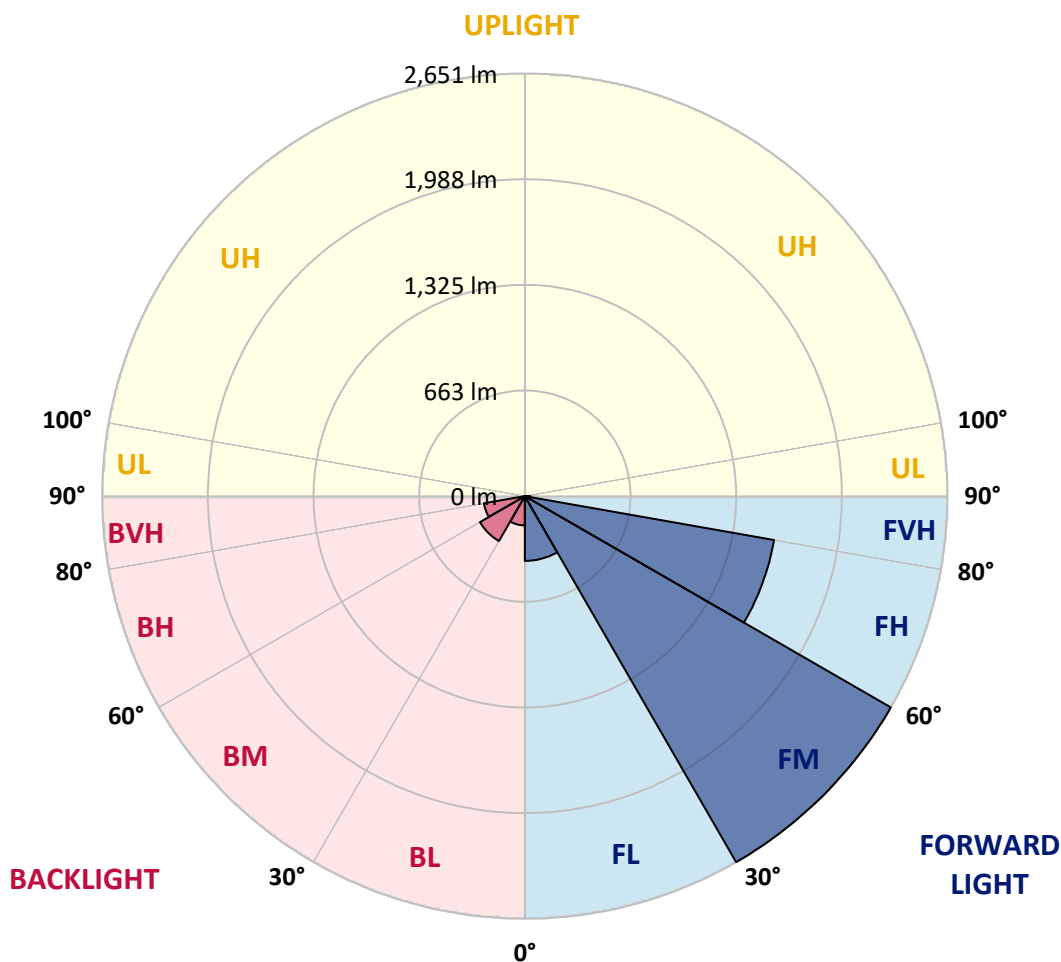
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	406.3	7.4			
FM (30°-60°)	2650.6	48.6			
FH (60°-80°)	1587.3	29.1			G1/1800
FVH (80°-90°)	34.9	0.6			G1/100
BL (0°-30°)	183.4	3.4	B1/500		
BM (30°-60°)	324.8	6.0	B1/1000		
BH (60°-80°)	260.4	4.8	B1/500		G1/500
BVH (80°-90°)	6.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	793.1	793.1	793.1	793.1	793.1	793.1	793.1	793.1	793.1	793.1	793.1
2.5°	821.7	829.5	829.5	826.9	819.1	813.9	811.3	806.1	800.9	800.9	803.5
5°	829.5	821.7	832.1	819.1	819.1	819.1	829.5	824.3	821.7	808.7	808.7
7.5°	829.5	821.7	821.7	829.5	821.7	826.9	839.9	834.7	845.1	821.7	826.9
10°	806.1	803.5	808.7	819.1	821.7	832.1	845.1	871.1	873.7	858.1	855.5
12.5°	759.3	756.7	774.9	780.1	811.3	837.3	876.3	897.1	920.5	912.7	897.1
15°	725.5	730.7	743.7	764.5	793.1	839.9	884.1	930.9	972.5	962.1	956.9
17.5°	738.5	735.9	738.5	751.5	787.9	834.7	910.1	964.7	1024.5	1024.5	1029.7
20°	777.5	785.3	782.7	774.9	793.1	832.1	910.1	1006.3	1105.1	1097.3	1097.3
22.5°	845.1	847.7	832.1	826.9	824.3	847.7	925.7	1058.3	1172.7	1188.3	1183.1
25°	915.3	917.9	912.7	897.1	876.3	881.5	954.3	1099.9	1266.3	1292.3	1287.1
27.5°	1032.3	1029.7	1016.7	998.5	967.3	943.9	998.5	1131.1	1339.1	1383.3	1370.3
30°	1149.3	1141.5	1123.3	1099.9	1071.3	1027.1	1053.1	1190.9	1430.2	1471.8	1443.2
32.5°	1292.3	1276.7	1281.9	1245.5	1185.7	1115.5	1110.3	1245.5	1503.0	1562.8	1539.4
35°	1474.4	1456.2	1430.2	1396.3	1339.1	1245.5	1216.9	1333.9	1625.2	1669.4	1669.4
37.5°	1713.6	1731.8	1700.6	1560.2	1497.8	1409.4	1349.5	1425.0	1731.8	1838.4	1812.4
40°	1958.0	1973.6	1916.4	1812.4	1677.2	1568.0	1531.6	1573.2	1893.0	2020.4	1971.0
42.5°	2155.6	2176.4	2155.6	2020.4	1913.8	1773.4	1708.4	1747.4	2101.0	2254.4	2189.4
45°	2363.7	2384.5	2361.1	2272.6	2168.6	2088.0	1924.2	1973.6	2319.4	2548.3	2475.5
47.5°	2519.7	2545.7	2504.1	2485.9	2402.7	2389.7	2111.4	2166.0	2548.3	2844.7	2753.7
50°	2556.1	2584.7	2621.1	2641.9	2613.3	2644.5	2363.7	2410.5	2787.5	3117.7	3029.3
52.5°	2470.3	2498.9	2579.5	2675.7	2808.3	2901.9	2618.5	2657.5	3037.1	3344.0	3297.2
55°	2218.0	2244.0	2407.9	2537.9	2855.1	3008.5	2862.9	3026.7	3216.5	3580.6	3466.2
57.5°	1794.2	1825.4	2041.2	2241.4	2699.1	2948.7	3008.5	3333.6	3513.0	3754.8	3622.2
60°	1274.1	1292.3	1479.6	1833.2	2267.4	2649.7	2979.9	3562.4	3747.0	3988.8	3918.6
62.5°	733.3	748.9	943.9	1276.7	1711.0	2212.8	2852.5	3778.2	3999.2	4246.3	4207.2
65°	486.3	491.5	624.1	806.1	1112.9	1630.4	2530.1	3970.6	4248.9	4451.7	4407.5
67.5°	319.8	348.4	452.4	577.3	712.5	902.3	2062.0	4051.2	4534.9	4737.7	4727.3
70°	228.8	239.2	325.0	444.6	535.7	507.1	1206.5	3481.8	4521.9	4815.7	4729.9
72.5°	135.2	145.6	215.8	332.8	421.2	322.4	564.3	2462.5	3747.0	3843.2	3819.8
75°	98.8	98.8	132.6	239.2	306.8	231.4	265.2	1557.6	2488.5	2701.7	2699.1
77.5°	70.2	72.8	91.0	143.0	236.6	169.0	145.6	865.9	1359.9	1487.4	1417.2
80°	41.6	44.2	62.4	85.8	171.6	122.2	96.2	395.2	522.7	527.9	501.9
82.5°	31.2	31.2	41.6	59.8	119.6	83.2	59.8	150.8	169.0	153.4	130.0
85°	18.2	15.6	31.2	44.2	70.2	46.8	41.6	70.2	78.0	57.2	52.0
87.5°	5.2	5.2	13.0	15.6	31.2	26.0	18.2	26.0	36.4	20.8	15.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	793.1	793.1	793.1	793.1	793.1	793.1	793.1	793.1	793.1	793.1	793.1
2.5°	798.3	790.5	777.5	772.3	754.1	746.3	741.1	728.1	730.7	722.9	722.9
5°	790.5	790.5	764.5	735.9	707.3	689.1	668.3	642.3	642.3	631.9	634.5
7.5°	819.1	798.3	764.5	712.5	665.7	624.1	605.9	579.9	564.3	556.5	556.5
10°	837.3	816.5	759.3	696.9	637.1	585.1	546.1	509.7	488.9	488.9	486.3
12.5°	886.7	855.5	780.1	694.3	605.9	527.9	468.0	426.4	397.8	377.0	382.2
15°	928.3	894.5	790.5	673.5	551.3	442.0	369.2	291.2	252.2	231.4	223.6
17.5°	993.3	930.9	813.9	637.1	468.0	345.8	239.2	174.2	158.6	156.0	156.0
20°	1047.9	975.1	816.5	566.9	384.8	221.0	153.4	143.0	135.2	132.6	130.0
22.5°	1123.3	1032.3	806.1	486.3	275.6	148.2	130.0	119.6	114.4	106.6	106.6
25°	1201.3	1107.7	785.3	410.8	169.0	127.4	114.4	104.0	93.6	88.4	91.0
27.5°	1284.5	1164.9	725.5	319.8	130.0	111.8	93.6	85.8	80.6	78.0	78.0
30°	1352.1	1201.3	637.1	213.2	117.0	98.8	83.2	75.4	70.2	67.6	67.6
32.5°	1401.5	1232.5	538.3	143.0	106.6	88.4	75.4	67.6	62.4	59.8	59.8
35°	1484.8	1255.9	447.2	122.2	96.2	78.0	65.0	59.8	54.6	54.6	54.6
37.5°	1612.2	1287.1	356.2	111.8	88.4	70.2	62.4	54.6	52.0	49.4	49.4
40°	1724.0	1326.1	254.8	101.4	80.6	65.0	54.6	49.4	46.8	44.2	44.2
42.5°	1885.2	1370.3	166.4	91.0	72.8	59.8	49.4	44.2	41.6	39.0	39.0
45°	2090.6	1443.2	130.0	80.6	65.0	54.6	46.8	41.6	36.4	36.4	33.8
47.5°	2309.0	1531.6	117.0	75.4	59.8	49.4	41.6	36.4	33.8	31.2	31.2
50°	2511.9	1617.4	109.2	70.2	54.6	46.8	39.0	33.8	28.6	26.0	26.0
52.5°	2693.9	1698.0	104.0	65.0	52.0	41.6	33.8	28.6	26.0	23.4	23.4
55°	2790.1	1734.4	101.4	62.4	46.8	39.0	31.2	26.0	23.4	20.8	20.8
57.5°	2940.9	1781.2	98.8	59.8	44.2	33.8	28.6	23.4	20.8	18.2	18.2
60°	3185.3	1934.6	96.2	57.2	41.6	33.8	26.0	20.8	15.6	13.0	13.0
62.5°	3388.2	2062.0	85.8	49.4	36.4	28.6	20.8	15.6	10.4	7.8	7.8
65°	3619.6	2121.8	75.4	44.2	31.2	23.4	15.6	10.4	7.8	2.6	2.6
67.5°	3871.8	2212.8	62.4	39.0	28.6	18.2	13.0	7.8	2.6	0.0	0.0
70°	3739.2	2098.4	52.0	33.8	26.0	15.6	10.4	5.2	0.0	0.0	0.0
72.5°	2930.5	1503.0	41.6	31.2	23.4	15.6	10.4	2.6	0.0	0.0	0.0
75°	1958.0	850.3	36.4	26.0	18.2	13.0	7.8	2.6	0.0	0.0	0.0
77.5°	1063.5	382.2	31.2	23.4	15.6	10.4	7.8	2.6	0.0	0.0	0.0
80°	345.8	150.8	26.0	20.8	15.6	10.4	7.8	2.6	0.0	0.0	0.0
82.5°	93.6	46.8	26.0	20.8	15.6	10.4	7.8	2.6	0.0	0.0	0.0
85°	39.0	31.2	26.0	20.8	15.6	10.4	7.8	2.6	0.0	0.0	0.0
87.5°	15.6	10.4	10.4	13.0	10.4	7.8	5.2	2.6	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°	793.1	793.1	793.1	793.1	793.1	793.1	793.1	793.1	793.1	793.1	793.1
2.5°	725.5	730.7	733.3	733.3	746.3	759.3	774.9	787.9	787.9	795.7	803.5
5°	637.1	642.3	650.1	673.5	699.5	728.1	756.7	777.5	806.1	819.1	826.9
7.5°	564.3	569.5	590.3	613.7	650.1	699.5	748.9	795.7	824.3	837.3	847.7
10°	488.9	496.7	520.1	561.7	608.5	668.3	725.5	806.1	852.9	878.9	889.3
12.5°	379.6	400.4	431.6	475.9	535.7	626.7	733.3	816.5	897.1	928.3	949.1
15°	239.2	257.4	306.8	377.0	457.6	564.3	712.5	832.1	943.9	975.1	1008.9
17.5°	153.4	156.0	171.6	247.0	351.0	486.3	681.3	855.5	995.9	1040.1	1092.1
20°	130.0	135.2	137.8	148.2	234.0	400.4	616.3	884.1	1058.3	1118.1	1167.5
22.5°	109.2	111.8	117.0	124.8	140.4	291.2	527.9	884.1	1112.9	1201.3	1258.5
25°	88.4	93.6	98.8	106.6	122.2	182.0	436.8	868.5	1177.9	1287.1	1359.9
27.5°	78.0	78.0	83.2	91.0	104.0	127.4	345.8	821.7	1227.3	1339.1	1435.4
30°	67.6	70.2	72.8	80.6	93.6	111.8	239.2	746.3	1279.3	1440.6	1549.8
32.5°	59.8	59.8	65.0	70.2	83.2	101.4	153.4	631.9	1346.9	1518.6	1672.0
35°	54.6	54.6	57.2	62.4	75.4	91.0	119.6	535.7	1427.6	1666.8	1835.8
37.5°	49.4	49.4	52.0	57.2	67.6	80.6	109.2	460.2	1510.8	1815.0	2062.0
40°	44.2	44.2	46.8	52.0	59.8	72.8	98.8	371.8	1614.8	2033.4	2309.0
42.5°	39.0	39.0	41.6	46.8	54.6	65.0	85.8	278.2	1752.6	2270.0	2628.9
45°	33.8	33.8	36.4	41.6	46.8	59.8	78.0	213.2	1903.4	2532.7	2909.7
47.5°	28.6	31.2	33.8	39.0	44.2	54.6	70.2	187.2	2051.6	2810.9	3221.7
50°	26.0	26.0	28.6	33.8	41.6	49.4	65.0	184.6	2202.4	3024.1	3541.6
52.5°	23.4	23.4	26.0	31.2	39.0	46.8	62.4	189.8	2327.2	3221.7	3765.2
55°	20.8	20.8	23.4	26.0	33.8	44.2	57.2	195.0	2415.7	3422.0	3944.6
57.5°	18.2	18.2	20.8	26.0	31.2	39.0	52.0	200.2	2558.7	3619.6	4204.6
60°	13.0	13.0	18.2	23.4	28.6	33.8	49.4	205.4	2787.5	3892.6	4425.7
62.5°	7.8	7.8	10.4	18.2	23.4	31.2	44.2	195.0	3000.7	4243.7	4763.7
65°	2.6	5.2	7.8	10.4	18.2	26.0	36.4	176.8	3180.1	4594.7	5075.7
67.5°	0.0	0.0	2.6	7.8	15.6	20.8	31.2	130.0	3208.7	4753.3	5395.6
70°	0.0	0.0	2.6	7.8	13.0	20.8	28.6	72.8	2732.9	4246.3	4945.7
72.5°	0.0	0.0	0.0	5.2	13.0	18.2	26.0	54.6	2015.2	3200.9	3908.2
75°	0.0	0.0	0.0	2.6	10.4	15.6	23.4	41.6	1224.7	2134.8	2550.9
77.5°	0.0	0.0	0.0	2.6	7.8	15.6	23.4	36.4	431.6	1016.7	1198.7
80°	0.0	0.0	0.0	5.2	10.4	15.6	20.8	31.2	104.0	254.8	343.2
82.5°	0.0	0.0	0.0	2.6	7.8	13.0	18.2	26.0	41.6	75.4	119.6
85°	0.0	0.0	0.0	2.6	5.2	13.0	18.2	23.4	28.6	36.4	52.0
87.5°	0.0	0.0	0.0	0.0	2.6	5.2	7.8	10.4	10.4	10.4	18.2
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):

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	793.1	793.1	793.1	793.1	793.1	793.1	793.1	793.1	793.1	793.1
2.5°	800.9	811.3	816.5	826.9	832.1	829.5	826.9	834.7	829.5	821.7
5°	829.5	829.5	837.3	839.9	839.9	832.1	837.3	834.7	829.5	829.5
7.5°	860.7	873.7	873.7	858.1	855.5	850.3	850.3	829.5	821.7	829.5
10°	891.9	902.3	904.9	886.7	863.3	852.9	839.9	813.9	800.9	806.1
12.5°	956.9	956.9	928.3	907.5	876.3	839.9	808.7	772.3	754.1	759.3
15°	1003.7	1014.1	975.1	928.3	873.7	806.1	772.3	743.7	733.3	725.5
17.5°	1094.7	1073.9	1011.5	943.9	865.9	795.7	772.3	746.3	738.5	738.5
20°	1172.7	1162.3	1068.7	946.5	863.3	816.5	800.9	787.9	785.3	777.5
22.5°	1279.3	1232.5	1112.9	975.1	891.9	850.3	845.1	858.1	850.3	845.1
25°	1359.9	1320.9	1146.7	1016.7	936.1	923.1	930.9	943.9	923.1	915.3
27.5°	1469.2	1396.3	1211.7	1071.3	995.9	1008.9	1034.9	1037.5	1024.5	1032.3
30°	1570.6	1492.6	1261.1	1133.7	1097.3	1110.3	1149.3	1177.9	1159.7	1149.3
32.5°	1716.2	1596.6	1359.9	1237.7	1224.7	1258.5	1302.7	1320.9	1297.5	1292.3
35°	1869.6	1716.2	1461.4	1354.7	1378.1	1425.0	1464.0	1495.2	1458.8	1474.4
37.5°	2108.8	1908.6	1633.0	1539.4	1549.8	1568.0	1640.8	1726.6	1744.8	1713.6
40°	2358.5	2116.6	1791.6	1718.8	1742.2	1791.6	1877.4	1958.0	1999.6	1958.0
42.5°	2647.1	2316.8	2036.0	1950.2	1973.6	2043.8	2158.2	2223.2	2218.0	2155.6
45°	3003.3	2595.1	2264.8	2158.2	2244.0	2306.4	2420.9	2428.7	2379.3	2363.7
47.5°	3276.3	2829.1	2511.9	2444.3	2561.3	2563.9	2589.9	2592.5	2537.9	2519.7
50°	3578.0	3099.5	2787.5	2688.7	2886.3	2795.3	2725.1	2678.3	2595.1	2556.1
52.5°	3874.4	3292.0	3042.3	2940.9	3146.3	2904.5	2777.1	2634.1	2511.9	2470.3
55°	4033.0	3609.2	3414.2	3177.5	3203.5	2935.7	2615.9	2436.5	2228.4	2218.0
57.5°	4220.2	3822.4	3728.8	3338.8	3107.3	2717.3	2280.4	2043.8	1820.2	1794.2
60°	4441.3	4160.4	4061.6	3312.8	2766.7	2283.0	1807.2	1503.0	1292.3	1274.1
62.5°	4688.3	4560.9	4267.1	3057.9	2197.2	1607.0	1193.5	938.7	743.7	733.3
65°	5078.3	4896.3	4376.3	2574.3	1453.6	1029.7	793.1	608.5	491.5	486.3
67.5°	5322.8	5023.7	4131.8	1835.8	806.1	681.3	556.5	442.0	340.6	319.8
70°	4976.9	4610.3	3268.5	1050.5	468.0	517.5	429.0	296.4	234.0	228.8
72.5°	3975.8	3422.0	2199.8	494.1	291.2	405.6	312.0	200.2	140.4	135.2
75°	2712.1	2153.0	1380.7	228.8	205.4	296.4	228.8	117.0	98.8	98.8
77.5°	1211.7	1097.3	707.3	140.4	153.4	226.2	132.6	80.6	72.8	70.2
80°	369.2	387.4	288.6	96.2	114.4	171.6	80.6	54.6	44.2	41.6
82.5°	124.8	145.6	130.0	57.2	78.0	122.2	54.6	36.4	31.2	31.2
85°	59.8	72.8	65.0	36.4	41.6	59.8	44.2	28.6	18.2	18.2
87.5°	23.4	33.8	23.4	15.6	23.4	31.2	18.2	13.0	5.2	5.2
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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