

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: P676290

Luminaire Tested: **CCW-SA-1F-750-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676290
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-750-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/
T2 distribution lens and House Side Shield
Light Source: (16) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

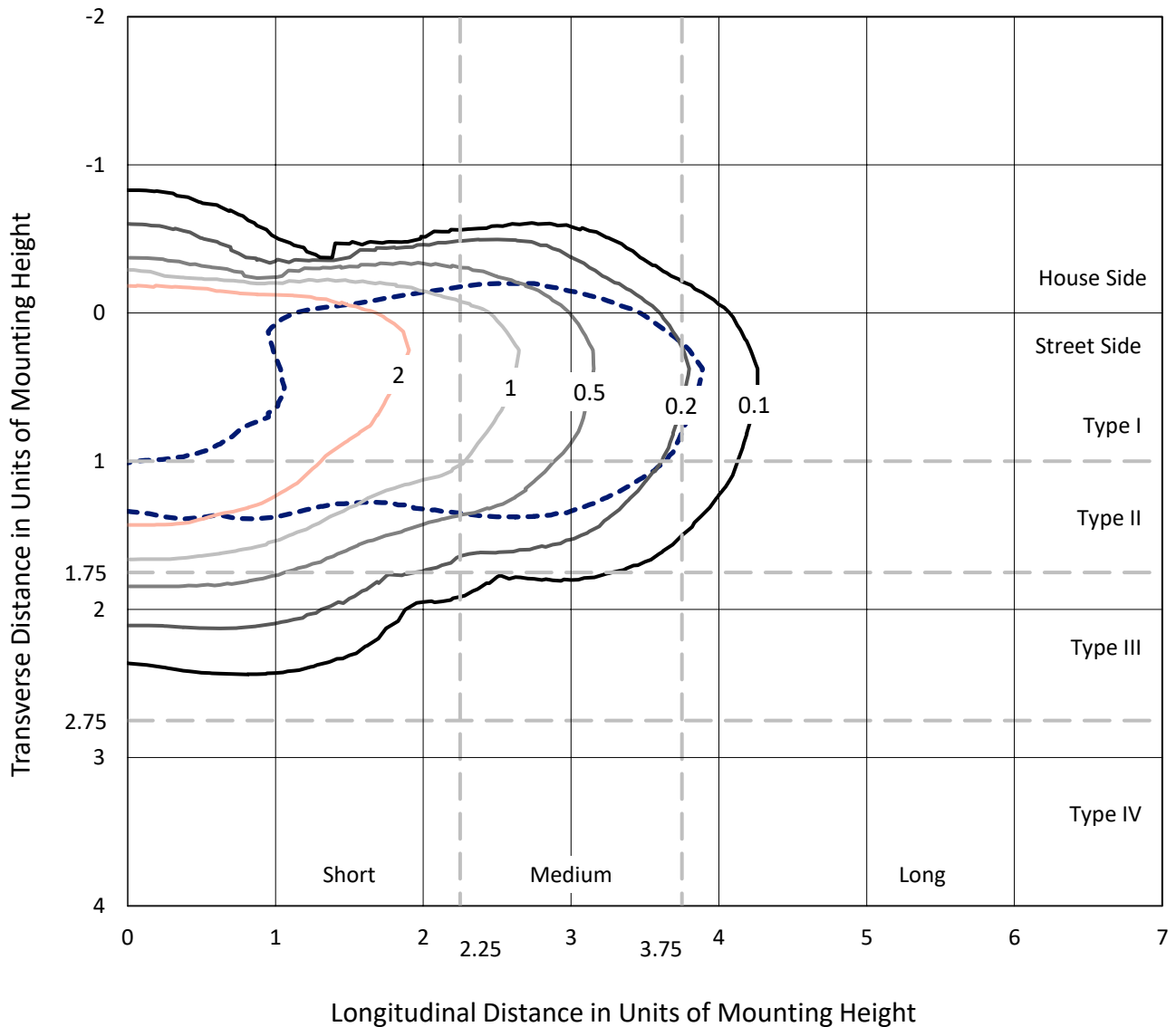
Lumens per Lamp: N/A
Luminaire Lumens: 5921.1 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 67
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

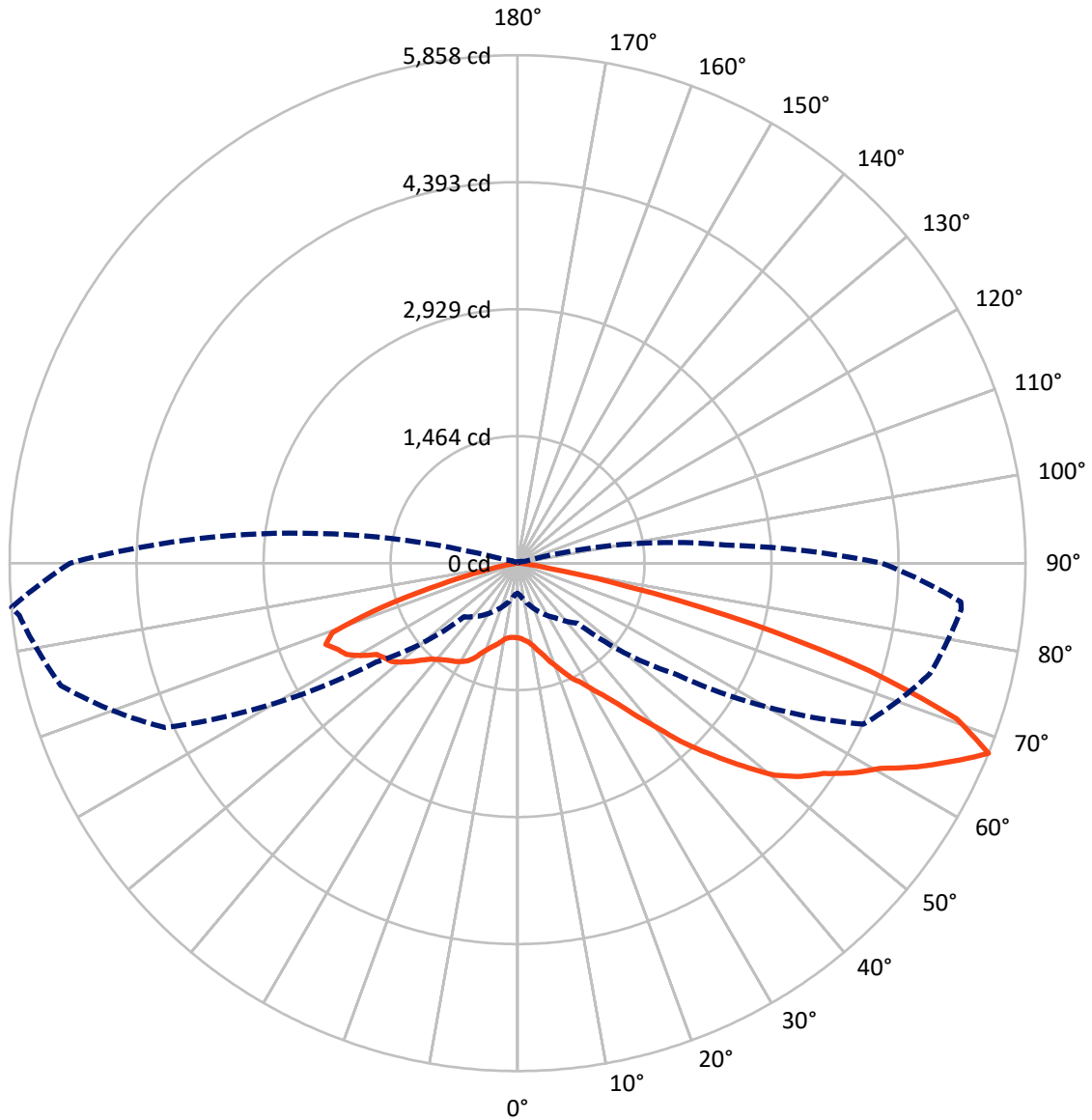
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.5 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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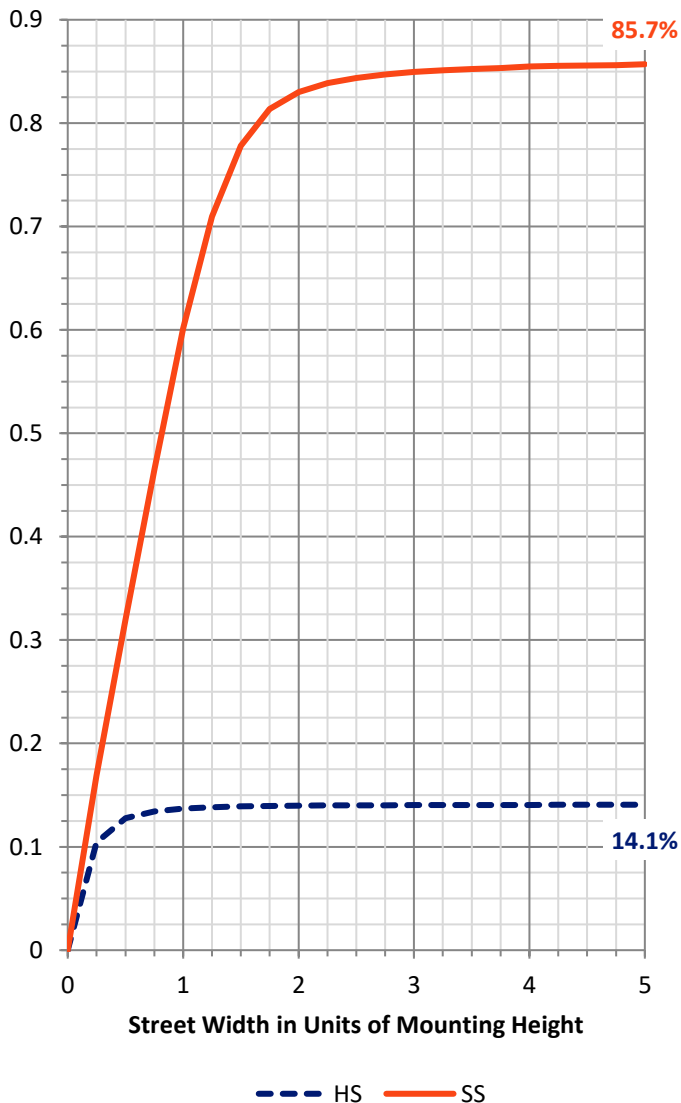
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	841.2	0.0	841.2
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	5079.9	0.0	5079.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	5921.1	0.0	5921.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	1.3
10°-20°	211.1	3.6
20°-30°	350.6	5.9
30°-40°	603.2	10.2
40°-50°	1084.0	18.3
50°-60°	1543.1	26.1
60°-70°	1406.9	23.8
70°-80°	599.1	10.1
80°-90°	44.6	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°	5921.1	100.0
0°-180°	5921.1	100.0



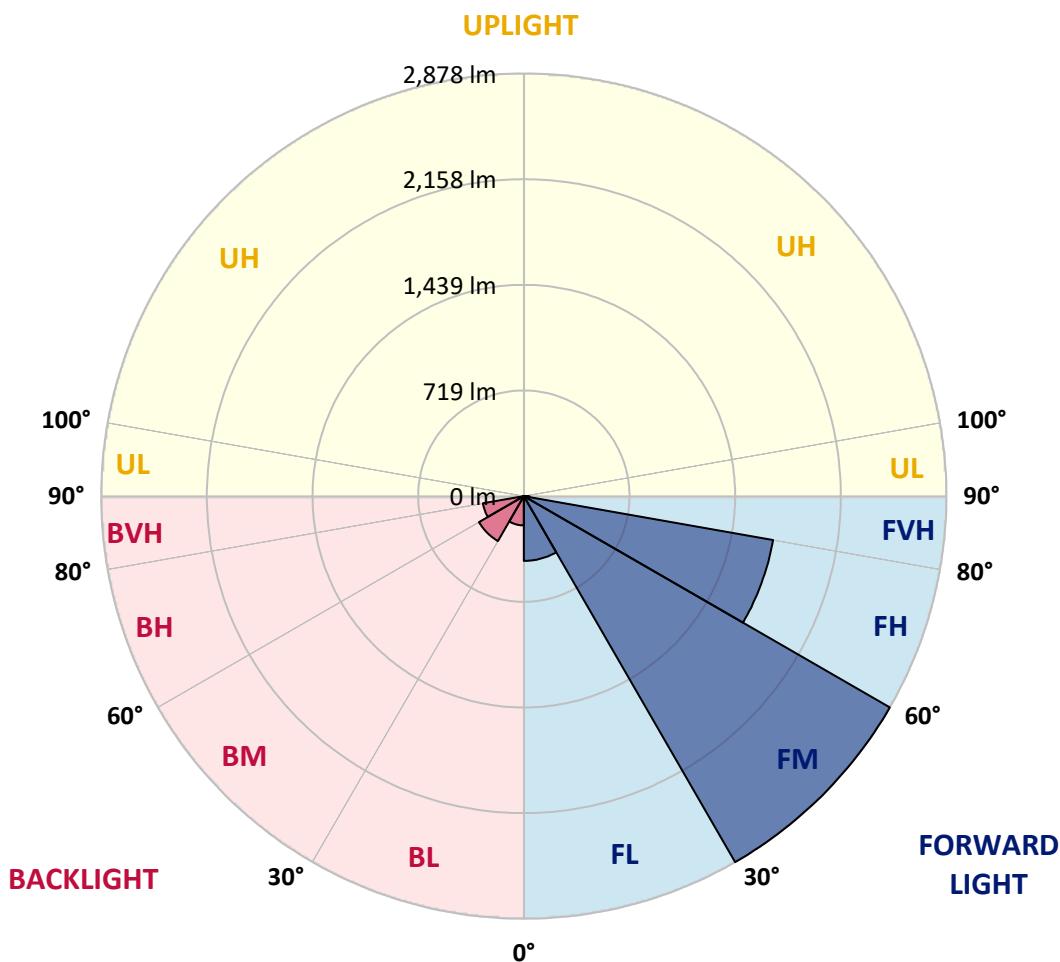
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	441.1	7.4			
FM (30°-60°)	2877.6	48.6			
FH (60°-80°)	1723.3	29.1			G1/1800
FVH (80°-90°)	37.9	0.6			G1/100
BL (0°-30°)	199.1	3.4	B1/500		
BM (30°-60°)	352.7	6.0	B1/1000		
BH (60°-80°)	282.7	4.8	B1/500		G1/500
BVH (80°-90°)	6.7	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°	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0
2.5°	892.1	900.5	900.5	897.7	889.2	883.6	880.8	875.1	869.5	869.5	872.3
5°	900.5	892.1	903.4	889.2	889.2	889.2	900.5	894.9	892.1	877.9	877.9
7.5°	900.5	892.1	892.1	900.5	892.1	897.7	911.8	906.2	917.5	892.1	897.7
10°	875.1	872.3	877.9	889.2	892.1	903.4	917.5	945.7	948.5	931.6	928.8
12.5°	824.3	821.5	841.2	846.9	880.8	909.0	951.3	973.9	999.3	990.9	973.9
15°	787.6	793.3	807.4	830.0	861.0	911.8	959.8	1010.6	1055.8	1044.5	1038.9
17.5°	801.7	798.9	801.7	815.8	855.4	906.2	988.0	1047.3	1112.3	1112.3	1117.9
20°	844.1	852.5	849.7	841.2	861.0	903.4	988.0	1092.5	1199.8	1191.3	1191.3
22.5°	917.5	920.3	903.4	897.7	894.9	920.3	1005.0	1149.0	1273.2	1290.1	1284.5
25°	993.7	996.5	990.9	973.9	951.3	957.0	1036.0	1194.1	1374.8	1403.0	1397.4
27.5°	1120.7	1117.9	1103.8	1084.0	1050.1	1024.7	1084.0	1228.0	1453.8	1501.8	1487.7
30°	1247.8	1239.3	1219.5	1194.1	1163.1	1115.1	1143.3	1292.9	1552.6	1597.8	1566.8
32.5°	1403.0	1386.1	1391.7	1352.2	1287.3	1211.1	1205.4	1352.2	1631.7	1696.6	1671.2
35°	1600.6	1580.9	1552.6	1515.9	1453.8	1352.2	1321.2	1448.2	1764.4	1812.3	1812.3
37.5°	1860.3	1880.1	1846.2	1693.8	1626.0	1530.1	1465.1	1547.0	1880.1	1995.8	1967.6
40°	2125.7	2142.6	2080.5	1967.6	1820.8	1702.3	1662.7	1707.9	2055.1	2193.5	2139.8
42.5°	2340.2	2362.8	2340.2	2193.5	2077.7	1925.3	1854.7	1897.0	2281.0	2447.5	2376.9
45°	2566.1	2588.7	2563.3	2467.3	2354.4	2266.8	2089.0	2142.6	2518.1	2766.5	2687.5
47.5°	2735.5	2763.7	2718.5	2698.8	2608.4	2594.3	2292.3	2351.5	2766.5	3088.3	2989.5
50°	2775.0	2806.0	2845.6	2868.1	2837.1	2871.0	2566.1	2616.9	3026.2	3384.7	3288.8
52.5°	2681.8	2712.9	2800.4	2904.8	3048.8	3150.4	2842.7	2885.1	3297.2	3630.3	3579.5
55°	2408.0	2436.2	2614.1	2755.2	3099.6	3266.2	3108.1	3285.9	3492.0	3887.2	3763.0
57.5°	1947.9	1981.7	2216.0	2433.4	2930.2	3201.3	3266.2	3619.1	3813.8	4076.4	3932.4
60°	1383.3	1403.0	1606.3	1990.2	2461.6	2876.6	3235.1	3867.5	4067.9	4330.4	4254.2
62.5°	796.1	813.0	1024.7	1386.1	1857.5	2402.4	3096.8	4101.8	4341.7	4609.9	4567.6
65°	527.9	533.5	677.5	875.1	1208.2	1770.0	2746.8	4310.7	4612.7	4832.9	4784.9
67.5°	347.2	378.3	491.2	626.7	773.5	979.6	2238.6	4398.2	4923.3	5143.5	5132.2
70°	248.4	259.7	352.9	482.7	581.5	550.5	1309.9	3780.0	4909.2	5228.1	5135.0
72.5°	146.8	158.1	234.3	361.3	457.3	350.0	612.6	2673.4	4067.9	4172.4	4147.0
75°	107.3	107.3	144.0	259.7	333.1	251.2	287.9	1691.0	2701.6	2933.1	2930.2
77.5°	76.2	79.0	98.8	155.3	256.9	183.5	158.1	940.1	1476.4	1614.7	1538.5
80°	45.2	48.0	67.8	93.2	186.3	132.7	104.5	429.1	567.4	573.1	544.8
82.5°	33.9	33.9	45.2	64.9	129.9	90.3	64.9	163.7	183.5	166.6	141.1
85°	19.8	16.9	33.9	48.0	76.2	50.8	45.2	76.2	84.7	62.1	56.5
87.5°	5.6	5.6	14.1	16.9	33.9	28.2	19.8	28.2	39.5	22.6	16.9
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°	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0
2.5°	866.7	858.2	844.1	838.4	818.7	810.2	804.5	790.4	793.3	784.8	784.8
5°	858.2	858.2	830.0	798.9	767.8	748.1	725.5	697.3	697.3	686.0	688.8
7.5°	889.2	866.7	830.0	773.5	722.7	677.5	657.8	629.5	612.6	604.1	604.1
10°	909.0	886.4	824.3	756.6	691.6	635.2	592.8	553.3	530.7	530.7	527.9
12.5°	962.6	928.8	846.9	753.7	657.8	573.1	508.1	463.0	431.9	409.3	415.0
15°	1007.8	971.1	858.2	731.2	598.5	479.9	400.9	316.2	273.8	251.2	242.8
17.5°	1078.4	1010.6	883.6	691.6	508.1	375.5	259.7	189.1	172.2	169.4	169.4
20°	1137.7	1058.6	886.4	615.4	417.8	240.0	166.6	155.3	146.8	144.0	141.1
22.5°	1219.5	1120.7	875.1	527.9	299.2	160.9	141.1	129.9	124.2	115.7	115.7
25°	1304.2	1202.6	852.5	446.0	183.5	138.3	124.2	112.9	101.6	96.0	98.8
27.5°	1394.5	1264.7	787.6	347.2	141.1	121.4	101.6	93.2	87.5	84.7	84.7
30°	1467.9	1304.2	691.6	231.5	127.0	107.3	90.3	81.9	76.2	73.4	73.4
32.5°	1521.6	1338.1	584.4	155.3	115.7	96.0	81.9	73.4	67.8	64.9	64.9
35°	1611.9	1363.5	485.6	132.7	104.5	84.7	70.6	64.9	59.3	59.3	59.3
37.5°	1750.2	1397.4	386.7	121.4	96.0	76.2	67.8	59.3	56.5	53.6	53.6
40°	1871.6	1439.7	276.7	110.1	87.5	70.6	59.3	53.6	50.8	48.0	48.0
42.5°	2046.7	1487.7	180.7	98.8	79.0	64.9	53.6	48.0	45.2	42.3	42.3
45°	2269.7	1566.8	141.1	87.5	70.6	59.3	50.8	45.2	39.5	39.5	36.7
47.5°	2506.8	1662.7	127.0	81.9	64.9	53.6	45.2	39.5	36.7	33.9	33.9
50°	2727.0	1755.9	118.6	76.2	59.3	50.8	42.3	36.7	31.1	28.2	28.2
52.5°	2924.6	1843.4	112.9	70.6	56.5	45.2	36.7	31.1	28.2	25.4	25.4
55°	3029.1	1882.9	110.1	67.8	50.8	42.3	33.9	28.2	25.4	22.6	22.6
57.5°	3192.8	1933.7	107.3	64.9	48.0	36.7	31.1	25.4	22.6	19.8	19.8
60°	3458.1	2100.3	104.5	62.1	45.2	36.7	28.2	22.6	16.9	14.1	14.1
62.5°	3678.3	2238.6	93.2	53.6	39.5	31.1	22.6	16.9	11.3	8.5	8.5
65°	3929.6	2303.5	81.9	48.0	33.9	25.4	16.9	11.3	8.5	2.8	2.8
67.5°	4203.4	2402.4	67.8	42.3	31.1	19.8	14.1	8.5	2.8	0.0	0.0
70°	4059.4	2278.1	56.5	36.7	28.2	16.9	11.3	5.6	0.0	0.0	0.0
72.5°	3181.5	1631.7	45.2	33.9	25.4	16.9	11.3	2.8	0.0	0.0	0.0
75°	2125.7	923.1	39.5	28.2	19.8	14.1	8.5	2.8	0.0	0.0	0.0
77.5°	1154.6	415.0	33.9	25.4	16.9	11.3	8.5	2.8	0.0	0.0	0.0
80°	375.5	163.7	28.2	22.6	16.9	11.3	8.5	2.8	0.0	0.0	0.0
82.5°	101.6	50.8	28.2	22.6	16.9	11.3	8.5	2.8	0.0	0.0	0.0
85°	42.3	33.9	28.2	22.6	16.9	11.3	8.5	2.8	0.0	0.0	0.0
87.5°	16.9	11.3	11.3	14.1	11.3	8.5	5.6	2.8	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°	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0
2.5°	787.6	793.3	796.1	796.1	810.2	824.3	841.2	855.4	855.4	863.8	872.3
5°	691.6	697.3	705.7	731.2	759.4	790.4	821.5	844.1	875.1	889.2	897.7
7.5°	612.6	618.2	640.8	666.2	705.7	759.4	813.0	863.8	894.9	909.0	920.3
10°	530.7	539.2	564.6	609.8	660.6	725.5	787.6	875.1	925.9	954.2	965.5
12.5°	412.2	434.7	468.6	516.6	581.5	680.3	796.1	886.4	973.9	1007.8	1030.4
15°	259.7	279.5	333.1	409.3	496.8	612.6	773.5	903.4	1024.7	1058.6	1095.3
17.5°	166.6	169.4	186.3	268.2	381.1	527.9	739.6	928.8	1081.2	1129.2	1185.6
20°	141.1	146.8	149.6	160.9	254.1	434.7	669.0	959.8	1149.0	1213.9	1267.5
22.5°	118.6	121.4	127.0	135.5	152.4	316.2	573.1	959.8	1208.2	1304.2	1366.3
25°	96.0	101.6	107.3	115.7	132.7	197.6	474.3	942.9	1278.8	1397.4	1476.4
27.5°	84.7	84.7	90.3	98.8	112.9	138.3	375.5	892.1	1332.4	1453.8	1558.3
30°	73.4	76.2	79.0	87.5	101.6	121.4	259.7	810.2	1388.9	1563.9	1682.5
32.5°	64.9	64.9	70.6	76.2	90.3	110.1	166.6	686.0	1462.3	1648.6	1815.2
35°	59.3	59.3	62.1	67.8	81.9	98.8	129.9	581.5	1549.8	1809.5	1993.0
37.5°	53.6	53.6	56.5	62.1	73.4	87.5	118.6	499.7	1640.1	1970.4	2238.6
40°	48.0	48.0	50.8	56.5	64.9	79.0	107.3	403.7	1753.1	2207.6	2506.8
42.5°	42.3	42.3	45.2	50.8	59.3	70.6	93.2	302.1	1902.7	2464.5	2854.0
45°	36.7	36.7	39.5	45.2	50.8	64.9	84.7	231.5	2066.4	2749.6	3158.9
47.5°	31.1	33.9	36.7	42.3	48.0	59.3	76.2	203.3	2227.3	3051.6	3497.7
50°	28.2	28.2	31.1	36.7	45.2	53.6	70.6	200.4	2391.1	3283.1	3844.9
52.5°	25.4	25.4	28.2	33.9	42.3	50.8	67.8	206.1	2526.6	3497.7	4087.7
55°	22.6	22.6	25.4	28.2	36.7	48.0	62.1	211.7	2622.5	3715.0	4282.5
57.5°	19.8	19.8	22.6	28.2	33.9	42.3	56.5	217.4	2777.8	3929.6	4564.8
60°	14.1	14.1	19.8	25.4	31.1	36.7	53.6	223.0	3026.2	4226.0	4804.7
62.5°	8.5	8.5	11.3	19.8	25.4	33.9	48.0	211.7	3257.7	4607.1	5171.7
65°	2.8	5.6	8.5	11.3	19.8	28.2	39.5	192.0	3452.5	4988.2	5510.4
67.5°	0.0	0.0	2.8	8.5	16.9	22.6	33.9	141.1	3483.6	5160.4	5857.7
70°	0.0	0.0	2.8	8.5	14.1	22.6	31.1	79.0	2966.9	4609.9	5369.3
72.5°	0.0	0.0	0.0	5.6	14.1	19.8	28.2	59.3	2187.8	3475.1	4242.9
75°	0.0	0.0	0.0	2.8	11.3	16.9	25.4	45.2	1329.6	2317.7	2769.3
77.5°	0.0	0.0	0.0	2.8	8.5	16.9	25.4	39.5	468.6	1103.8	1301.4
80°	0.0	0.0	0.0	5.6	11.3	16.9	22.6	33.9	112.9	276.7	372.6
82.5°	0.0	0.0	0.0	2.8	8.5	14.1	19.8	28.2	45.2	81.9	129.9
85°	0.0	0.0	0.0	2.8	5.6	14.1	19.8	25.4	31.1	39.5	56.5
87.5°	0.0	0.0	0.0	0.0	2.8	5.6	8.5	11.3	11.3	11.3	19.8
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°	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0
2.5°	869.5	880.8	886.4	897.7	903.4	900.5	897.7	906.2	900.5	892.1
5°	900.5	900.5	909.0	911.8	911.8	903.4	909.0	906.2	900.5	900.5
7.5°	934.4	948.5	948.5	931.6	928.8	923.1	923.1	900.5	892.1	900.5
10°	968.3	979.6	982.4	962.6	937.2	925.9	911.8	883.6	869.5	875.1
12.5°	1038.9	1038.9	1007.8	985.2	951.3	911.8	877.9	838.4	818.7	824.3
15°	1089.7	1101.0	1058.6	1007.8	948.5	875.1	838.4	807.4	796.1	787.6
17.5°	1188.5	1165.9	1098.1	1024.7	940.1	863.8	838.4	810.2	801.7	801.7
20°	1273.2	1261.9	1160.2	1027.6	937.2	886.4	869.5	855.4	852.5	844.1
22.5°	1388.9	1338.1	1208.2	1058.6	968.3	923.1	917.5	931.6	923.1	917.5
25°	1476.4	1434.1	1244.9	1103.8	1016.3	1002.2	1010.6	1024.7	1002.2	993.7
27.5°	1595.0	1515.9	1315.5	1163.1	1081.2	1095.3	1123.5	1126.4	1112.3	1120.7
30°	1705.1	1620.4	1369.1	1230.8	1191.3	1205.4	1247.8	1278.8	1259.0	1247.8
32.5°	1863.2	1733.3	1476.4	1343.7	1329.6	1366.3	1414.3	1434.1	1408.7	1403.0
35°	2029.7	1863.2	1586.5	1470.8	1496.2	1547.0	1589.3	1623.2	1583.7	1600.6
37.5°	2289.4	2072.1	1772.8	1671.2	1682.5	1702.3	1781.3	1874.5	1894.2	1860.3
40°	2560.4	2297.9	1945.0	1866.0	1891.4	1945.0	2038.2	2125.7	2170.9	2125.7
42.5°	2873.8	2515.3	2210.4	2117.2	2142.6	2218.9	2343.1	2413.6	2408.0	2340.2
45°	3260.5	2817.3	2458.8	2343.1	2436.2	2504.0	2628.2	2636.7	2583.0	2566.1
47.5°	3556.9	3071.4	2727.0	2653.6	2780.6	2783.5	2811.7	2814.5	2755.2	2735.5
50°	3884.4	3365.0	3026.2	2919.0	3133.5	3034.7	2958.5	2907.7	2817.3	2775.0
52.5°	4206.2	3573.9	3302.9	3192.8	3415.8	3153.3	3014.9	2859.7	2727.0	2681.8
55°	4378.4	3918.3	3706.6	3449.7	3477.9	3187.1	2839.9	2645.1	2419.3	2408.0
57.5°	4581.7	4149.8	4048.1	3624.7	3373.5	2950.0	2475.7	2218.9	1976.1	1947.9
60°	4821.6	4516.8	4409.5	3596.5	3003.6	2478.6	1962.0	1631.7	1403.0	1383.3
62.5°	5089.8	4951.5	4632.5	3319.8	2385.4	1744.6	1295.7	1019.1	807.4	796.1
65°	5513.3	5315.7	4751.1	2794.7	1578.0	1117.9	861.0	660.6	533.5	527.9
67.5°	5778.6	5454.0	4485.7	1993.0	875.1	739.6	604.1	479.9	369.8	347.2
70°	5403.2	5005.1	3548.5	1140.5	508.1	561.8	465.8	321.8	254.1	248.4
72.5°	4316.3	3715.0	2388.2	536.4	316.2	440.4	338.8	217.4	152.4	146.8
75°	2944.4	2337.4	1499.0	248.4	223.0	321.8	248.4	127.0	107.3	107.3
77.5°	1315.5	1191.3	767.8	152.4	166.6	245.6	144.0	87.5	79.0	76.2
80°	400.9	420.6	313.4	104.5	124.2	186.3	87.5	59.3	48.0	45.2
82.5°	135.5	158.1	141.1	62.1	84.7	132.7	59.3	39.5	33.9	33.9
85°	64.9	79.0	70.6	39.5	45.2	64.9	48.0	31.1	19.8	19.8
87.5°	25.4	36.7	25.4	16.9	25.4	33.9	19.8	14.1	5.6	5.6
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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