

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: P676334

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676334
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-835-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) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

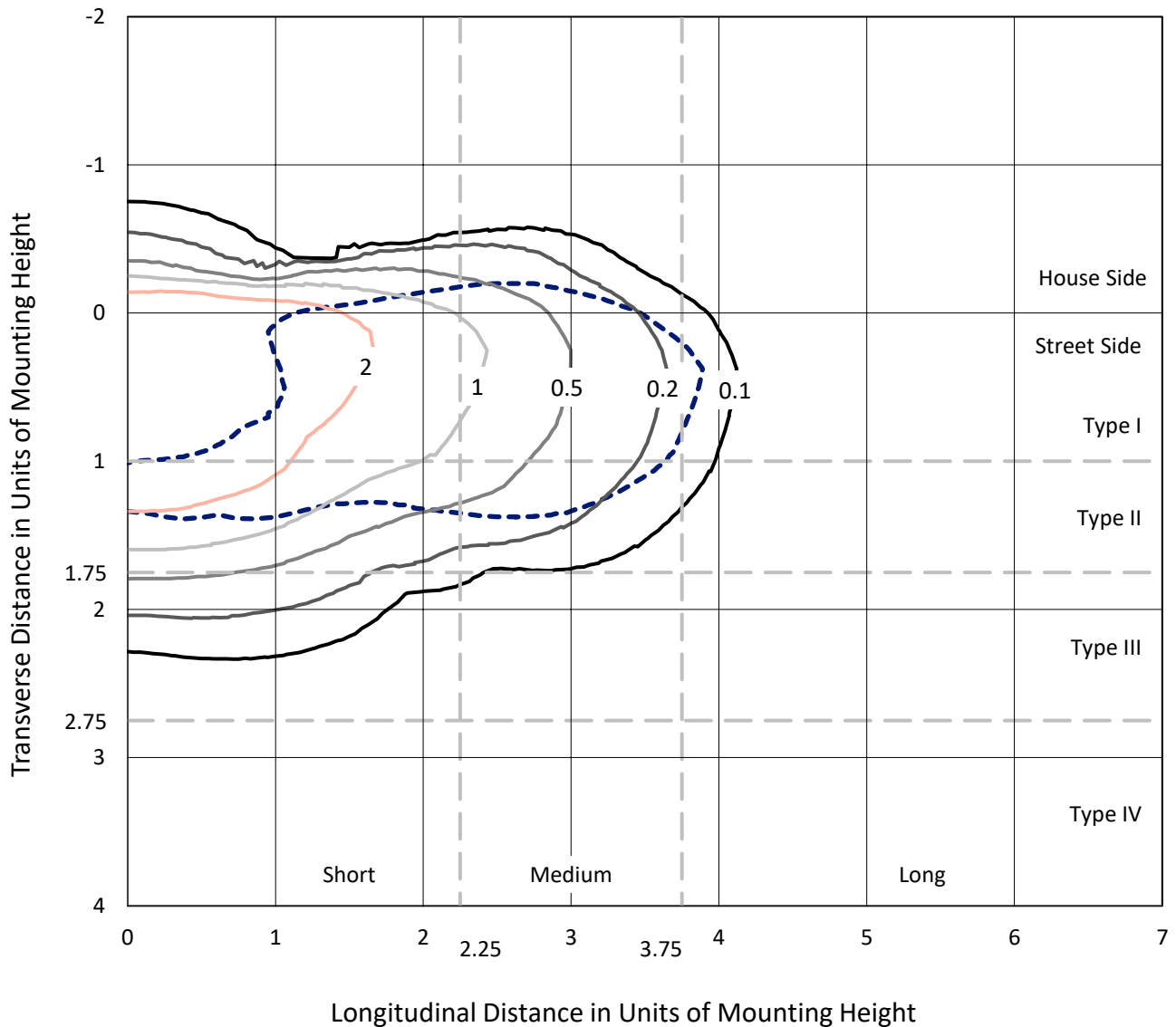
Lumens per Lamp: N/A
Luminaire Lumens: 4769.7 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

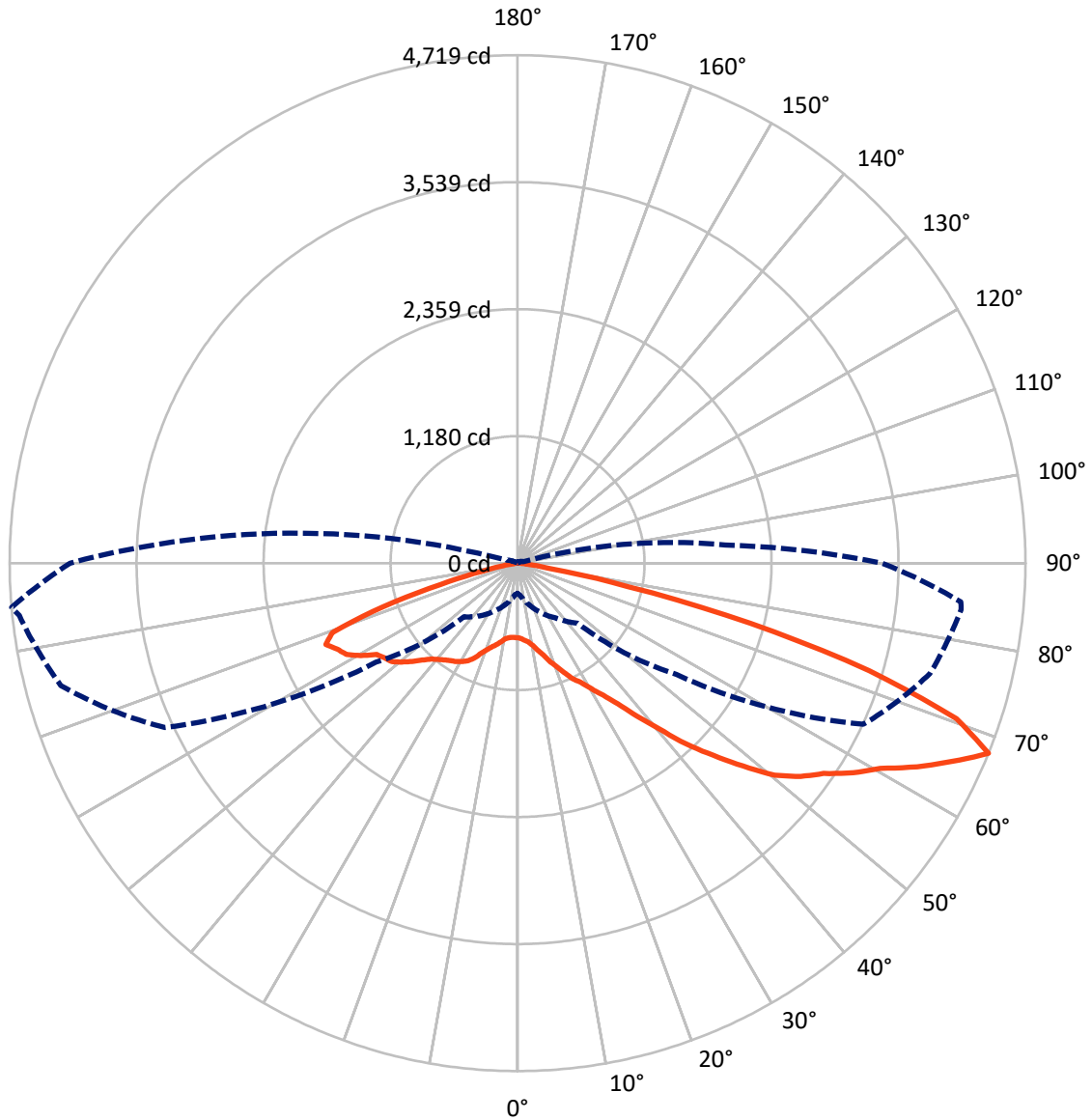
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.6 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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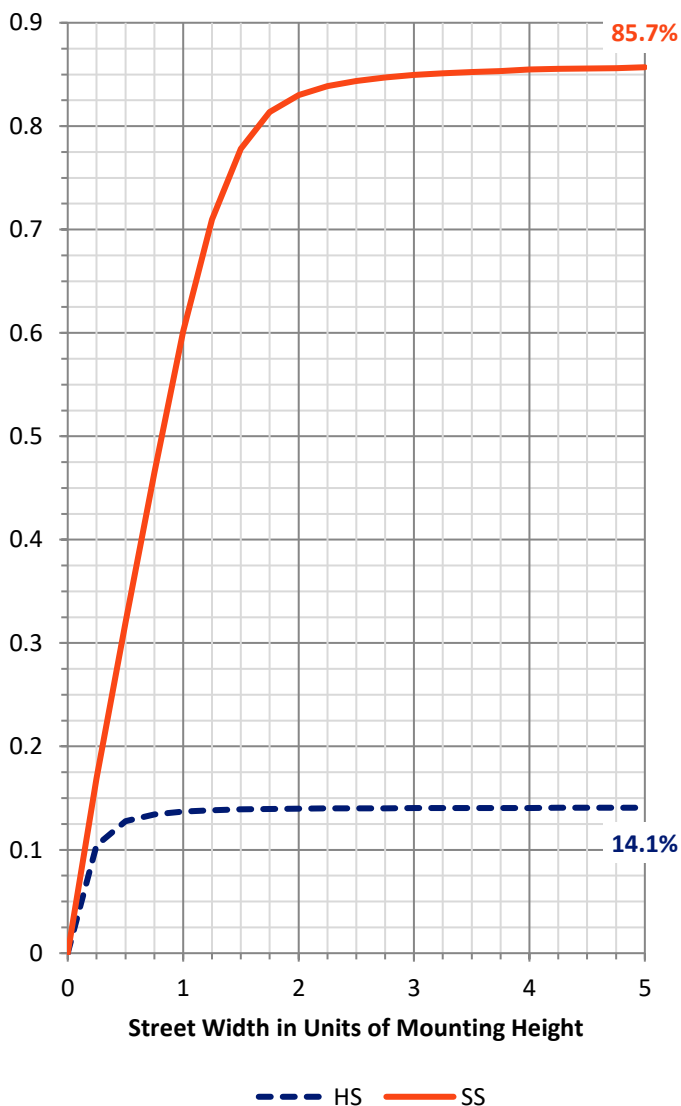
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	677.6	0.0	677.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	4092.1	0.0	4092.1
	% Fixture	85.8	0.0	85.8
Total	Lumens	4769.7	0.0	4769.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.2	1.3
10°-20°	170.1	3.6
20°-30°	282.4	5.9
30°-40°	485.9	10.2
40°-50°	873.2	18.3
50°-60°	1243.1	26.1
60°-70°	1133.3	23.8
70°-80°	482.6	10.1
80°-90°	35.9	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°	4769.7	100.0
0°-180°	4769.7	100.0



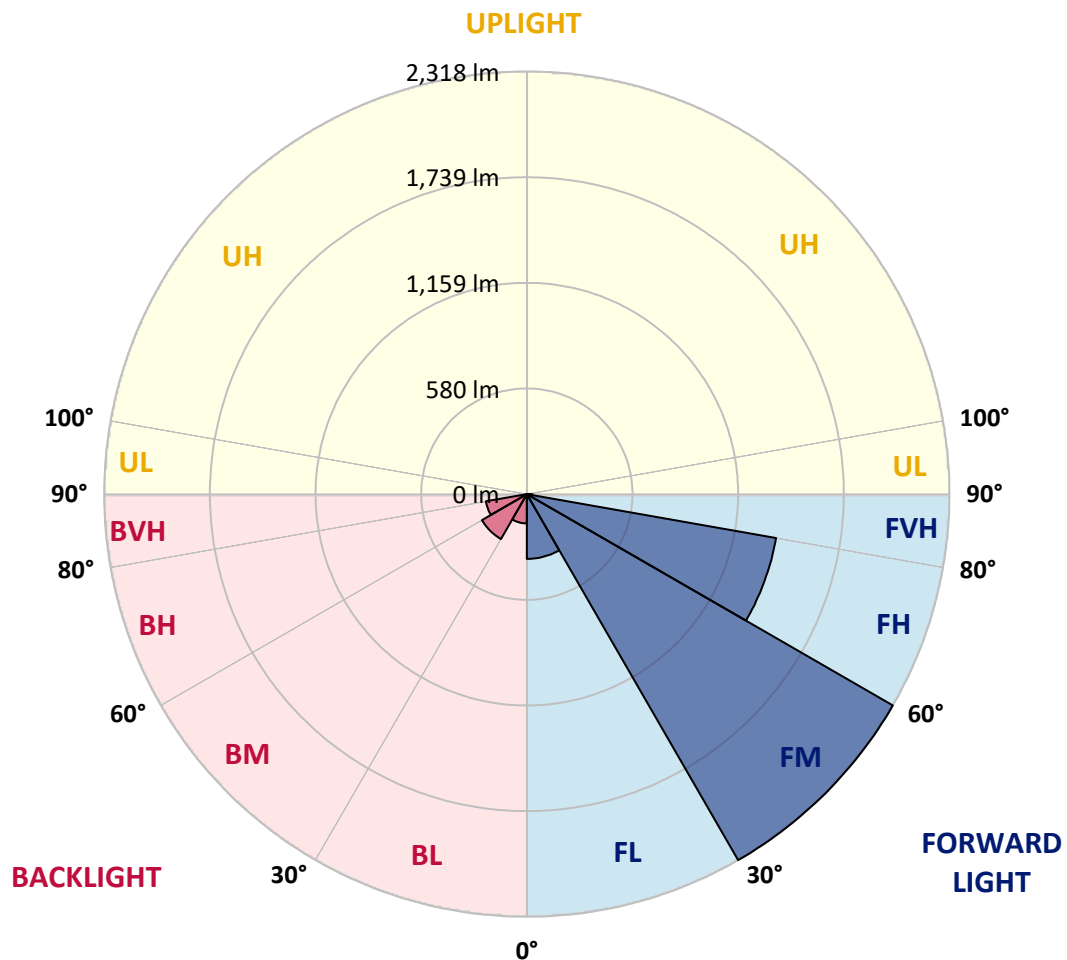
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	355.3	7.4			
FM (30°-60°)	2318.1	48.6			
FH (60°-80°)	1388.2	29.1			G1/1800
FVH (80°-90°)	30.5	0.6			G1/100
BL (0°-30°)	160.4	3.4	B1/500		
BM (30°-60°)	284.1	6.0	B1/1000		
BH (60°-80°)	227.7	4.8	B1/500		G1/500
BVH (80°-90°)	5.4	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°	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6
2.5°	718.6	725.4	725.4	723.1	716.3	711.8	709.5	705.0	700.4	700.4	702.7
5°	725.4	718.6	727.7	716.3	716.3	716.3	725.4	720.9	718.6	707.2	707.2
7.5°	725.4	718.6	718.6	725.4	718.6	723.1	734.5	730.0	739.1	718.6	723.1
10°	705.0	702.7	707.2	716.3	718.6	727.7	739.1	761.8	764.1	750.4	748.2
12.5°	664.0	661.8	677.7	682.2	709.5	732.2	766.4	784.5	805.0	798.2	784.5
15°	634.5	639.0	650.4	668.6	693.6	734.5	773.2	814.1	850.5	841.4	836.9
17.5°	645.8	643.6	645.8	657.2	689.0	730.0	795.9	843.7	896.0	896.0	900.5
20°	679.9	686.8	684.5	677.7	693.6	727.7	795.9	880.1	966.5	959.7	959.7
22.5°	739.1	741.3	727.7	723.1	720.9	741.3	809.6	925.5	1025.6	1039.2	1034.7
25°	800.5	802.7	798.2	784.5	766.4	770.9	834.6	961.9	1107.5	1130.2	1125.7
27.5°	902.8	900.5	889.2	873.2	845.9	825.5	873.2	989.2	1171.1	1209.8	1198.4
30°	1005.1	998.3	982.4	961.9	936.9	898.3	921.0	1041.5	1250.7	1287.1	1262.1
32.5°	1130.2	1116.6	1121.1	1089.3	1037.0	975.6	971.0	1089.3	1314.4	1366.7	1346.2
35°	1289.4	1273.5	1250.7	1221.2	1171.1	1089.3	1064.3	1166.6	1421.3	1459.9	1459.9
37.5°	1498.6	1514.5	1487.2	1364.4	1309.9	1232.5	1180.2	1246.2	1514.5	1607.8	1585.0
40°	1712.4	1726.0	1676.0	1585.0	1466.8	1371.3	1339.4	1375.8	1655.5	1766.9	1723.7
42.5°	1885.2	1903.4	1885.2	1766.9	1673.7	1550.9	1494.1	1528.2	1837.4	1971.6	1914.8
45°	2067.1	2085.3	2064.8	1987.5	1896.6	1826.1	1682.8	1726.0	2028.5	2228.6	2164.9
47.5°	2203.6	2226.3	2189.9	2174.0	2101.2	2089.9	1846.5	1894.3	2228.6	2487.8	2408.2
50°	2235.4	2260.4	2292.2	2310.4	2285.4	2312.7	2067.1	2108.0	2437.8	2726.6	2649.3
52.5°	2160.4	2185.4	2255.9	2340.0	2456.0	2537.8	2290.0	2324.1	2656.1	2924.4	2883.5
55°	1939.8	1962.5	2105.8	2219.5	2496.9	2631.1	2503.7	2647.0	2813.0	3131.4	3031.3
57.5°	1569.1	1596.4	1785.1	1960.2	2360.5	2578.8	2631.1	2915.3	3072.2	3283.7	3167.8
60°	1114.3	1130.2	1293.9	1603.2	1983.0	2317.3	2606.1	3115.5	3276.9	3488.4	3427.0
62.5°	641.3	654.9	825.5	1116.6	1496.3	1935.2	2494.6	3304.2	3497.5	3713.5	3679.4
65°	425.2	429.8	545.8	705.0	973.3	1425.8	2212.7	3472.5	3715.8	3893.2	3854.5
67.5°	279.7	304.7	395.7	504.8	623.1	789.1	1803.3	3543.0	3966.0	4143.3	4134.2
70°	200.1	209.2	284.3	388.9	468.5	443.4	1055.2	3045.0	3954.6	4211.6	4136.5
72.5°	118.3	127.3	188.7	291.1	368.4	282.0	493.5	2153.5	3276.9	3361.1	3340.6
75°	86.4	86.4	116.0	209.2	268.3	202.4	232.0	1362.2	2176.3	2362.7	2360.5
77.5°	61.4	63.7	79.6	125.1	206.9	147.8	127.3	757.3	1189.3	1300.8	1239.4
80°	36.4	38.7	54.6	75.0	150.1	106.9	84.1	345.7	457.1	461.6	438.9
82.5°	27.3	27.3	36.4	52.3	104.6	72.8	52.3	131.9	147.8	134.2	113.7
85°	15.9	13.6	27.3	38.7	61.4	40.9	36.4	61.4	68.2	50.0	45.5
87.5°	4.5	4.5	11.4	13.6	27.3	22.7	15.9	22.7	31.8	18.2	13.6
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°	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6
2.5°	698.1	691.3	679.9	675.4	659.5	652.7	648.1	636.7	639.0	632.2	632.2
5°	691.3	691.3	668.6	643.6	618.5	602.6	584.4	561.7	561.7	552.6	554.9
7.5°	716.3	698.1	668.6	623.1	582.2	545.8	529.9	507.1	493.5	486.6	486.6
10°	732.2	714.1	664.0	609.4	557.1	511.7	477.6	445.7	427.5	427.5	425.2
12.5°	775.5	748.2	682.2	607.2	529.9	461.6	409.3	372.9	347.9	329.7	334.3
15°	811.8	782.3	691.3	589.0	482.1	386.6	322.9	254.7	220.6	202.4	195.6
17.5°	868.7	814.1	711.8	557.1	409.3	302.4	209.2	152.4	138.7	136.4	136.4
20°	916.4	852.8	714.1	495.7	336.6	193.3	134.2	125.1	118.3	116.0	113.7
22.5°	982.4	902.8	705.0	425.2	241.0	129.6	113.7	104.6	100.1	93.2	93.2
25°	1050.6	968.7	686.8	359.3	147.8	111.4	100.1	91.0	81.9	77.3	79.6
27.5°	1123.4	1018.8	634.5	279.7	113.7	97.8	81.9	75.0	70.5	68.2	68.2
30°	1182.5	1050.6	557.1	186.5	102.3	86.4	72.8	65.9	61.4	59.1	59.1
32.5°	1225.7	1077.9	470.7	125.1	93.2	77.3	65.9	59.1	54.6	52.3	52.3
35°	1298.5	1098.4	391.1	106.9	84.1	68.2	56.9	52.3	47.8	47.8	47.8
37.5°	1409.9	1125.7	311.5	97.8	77.3	61.4	54.6	47.8	45.5	43.2	43.2
40°	1507.7	1159.8	222.9	88.7	70.5	56.9	47.8	43.2	40.9	38.7	38.7
42.5°	1648.7	1198.4	145.5	79.6	63.7	52.3	43.2	38.7	36.4	34.1	34.1
45°	1828.3	1262.1	113.7	70.5	56.9	47.8	40.9	36.4	31.8	31.8	29.6
47.5°	2019.4	1339.4	102.3	65.9	52.3	43.2	36.4	31.8	29.6	27.3	27.3
50°	2196.7	1414.5	95.5	61.4	47.8	40.9	34.1	29.6	25.0	22.7	22.7
52.5°	2355.9	1485.0	91.0	56.9	45.5	36.4	29.6	25.0	22.7	20.5	20.5
55°	2440.1	1516.8	88.7	54.6	40.9	34.1	27.3	22.7	20.5	18.2	18.2
57.5°	2572.0	1557.7	86.4	52.3	38.7	29.6	25.0	20.5	18.2	15.9	15.9
60°	2785.7	1691.9	84.1	50.0	36.4	29.6	22.7	18.2	13.6	11.4	11.4
62.5°	2963.1	1803.3	75.0	43.2	31.8	25.0	18.2	13.6	9.1	6.8	6.8
65°	3165.5	1855.6	65.9	38.7	27.3	20.5	13.6	9.1	6.8	2.3	2.3
67.5°	3386.1	1935.2	54.6	34.1	25.0	15.9	11.4	6.8	2.3	0.0	0.0
70°	3270.1	1835.2	45.5	29.6	22.7	13.6	9.1	4.5	0.0	0.0	0.0
72.5°	2562.9	1314.4	36.4	27.3	20.5	13.6	9.1	2.3	0.0	0.0	0.0
75°	1712.4	743.6	31.8	22.7	15.9	11.4	6.8	2.3	0.0	0.0	0.0
77.5°	930.1	334.3	27.3	20.5	13.6	9.1	6.8	2.3	0.0	0.0	0.0
80°	302.4	131.9	22.7	18.2	13.6	9.1	6.8	2.3	0.0	0.0	0.0
82.5°	81.9	40.9	22.7	18.2	13.6	9.1	6.8	2.3	0.0	0.0	0.0
85°	34.1	27.3	22.7	18.2	13.6	9.1	6.8	2.3	0.0	0.0	0.0
87.5°	13.6	9.1	9.1	11.4	9.1	6.8	4.5	2.3	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°	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6
2.5°	634.5	639.0	641.3	641.3	652.7	664.0	677.7	689.0	689.0	695.9	702.7
5°	557.1	561.7	568.5	589.0	611.7	636.7	661.8	679.9	705.0	716.3	723.1
7.5°	493.5	498.0	516.2	536.7	568.5	611.7	654.9	695.9	720.9	732.2	741.3
10°	427.5	434.3	454.8	491.2	532.1	584.4	634.5	705.0	745.9	768.6	777.7
12.5°	332.0	350.2	377.5	416.2	468.5	548.0	641.3	714.1	784.5	811.8	830.0
15°	209.2	225.1	268.3	329.7	400.2	493.5	623.1	727.7	825.5	852.8	882.3
17.5°	134.2	136.4	150.1	216.0	307.0	425.2	595.8	748.2	871.0	909.6	955.1
20°	113.7	118.3	120.5	129.6	204.7	350.2	539.0	773.2	925.5	977.8	1021.1
22.5°	95.5	97.8	102.3	109.2	122.8	254.7	461.6	773.2	973.3	1050.6	1100.6
25°	77.3	81.9	86.4	93.2	106.9	159.2	382.0	759.5	1030.1	1125.7	1189.3
27.5°	68.2	68.2	72.8	79.6	91.0	111.4	302.4	718.6	1073.4	1171.1	1255.3
30°	59.1	61.4	63.7	70.5	81.9	97.8	209.2	652.7	1118.8	1259.8	1355.3
32.5°	52.3	52.3	56.9	61.4	72.8	88.7	134.2	552.6	1178.0	1328.0	1462.2
35°	47.8	47.8	50.0	54.6	65.9	79.6	104.6	468.5	1248.5	1457.7	1605.5
37.5°	43.2	43.2	45.5	50.0	59.1	70.5	95.5	402.5	1321.2	1587.3	1803.3
40°	38.7	38.7	40.9	45.5	52.3	63.7	86.4	325.2	1412.2	1778.3	2019.4
42.5°	34.1	34.1	36.4	40.9	47.8	56.9	75.0	243.3	1532.7	1985.3	2299.1
45°	29.6	29.6	31.8	36.4	40.9	52.3	68.2	186.5	1664.6	2214.9	2544.7
47.5°	25.0	27.3	29.6	34.1	38.7	47.8	61.4	163.7	1794.2	2458.3	2817.6
50°	22.7	22.7	25.0	29.6	36.4	43.2	56.9	161.5	1926.1	2644.7	3097.3
52.5°	20.5	20.5	22.7	27.3	34.1	40.9	54.6	166.0	2035.3	2817.6	3292.8
55°	18.2	18.2	20.5	22.7	29.6	38.7	50.0	170.6	2112.6	2992.7	3449.7
57.5°	15.9	15.9	18.2	22.7	27.3	34.1	45.5	175.1	2237.7	3165.5	3677.1
60°	11.4	11.4	15.9	20.5	25.0	29.6	43.2	179.7	2437.8	3404.3	3870.4
62.5°	6.8	6.8	9.1	15.9	20.5	27.3	38.7	170.6	2624.3	3711.3	4166.1
65°	2.3	4.5	6.8	9.1	15.9	22.7	31.8	154.6	2781.2	4018.3	4439.0
67.5°	0.0	0.0	2.3	6.8	13.6	18.2	27.3	113.7	2806.2	4157.0	4718.7
70°	0.0	0.0	2.3	6.8	11.4	18.2	25.0	63.7	2390.0	3713.5	4325.3
72.5°	0.0	0.0	0.0	4.5	11.4	15.9	22.7	47.8	1762.4	2799.4	3417.9
75°	0.0	0.0	0.0	2.3	9.1	13.6	20.5	36.4	1071.1	1867.0	2230.8
77.5°	0.0	0.0	0.0	2.3	6.8	13.6	20.5	31.8	377.5	889.2	1048.3
80°	0.0	0.0	0.0	4.5	9.1	13.6	18.2	27.3	91.0	222.9	300.2
82.5°	0.0	0.0	0.0	2.3	6.8	11.4	15.9	22.7	36.4	65.9	104.6
85°	0.0	0.0	0.0	2.3	4.5	11.4	15.9	20.5	25.0	31.8	45.5
87.5°	0.0	0.0	0.0	0.0	2.3	4.5	6.8	9.1	9.1	9.1	15.9
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):

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6
2.5°	700.4	709.5	714.1	723.1	727.7	725.4	723.1	730.0	725.4	718.6
5°	725.4	725.4	732.2	734.5	734.5	727.7	732.2	730.0	725.4	725.4
7.5°	752.7	764.1	764.1	750.4	748.2	743.6	743.6	725.4	718.6	725.4
10°	780.0	789.1	791.4	775.5	755.0	745.9	734.5	711.8	700.4	705.0
12.5°	836.9	836.9	811.8	793.6	766.4	734.5	707.2	675.4	659.5	664.0
15°	877.8	886.9	852.8	811.8	764.1	705.0	675.4	650.4	641.3	634.5
17.5°	957.4	939.2	884.6	825.5	757.3	695.9	675.4	652.7	645.8	645.8
20°	1025.6	1016.5	934.6	827.8	755.0	714.1	700.4	689.0	686.8	679.9
22.5°	1118.8	1077.9	973.3	852.8	780.0	743.6	739.1	750.4	743.6	739.1
25°	1189.3	1155.2	1002.9	889.2	818.7	807.3	814.1	825.5	807.3	800.5
27.5°	1284.8	1221.2	1059.7	936.9	871.0	882.3	905.1	907.3	896.0	902.8
30°	1373.5	1305.3	1102.9	991.5	959.7	971.0	1005.1	1030.1	1014.2	1005.1
32.5°	1500.9	1396.3	1189.3	1082.5	1071.1	1100.6	1139.3	1155.2	1134.8	1130.2
35°	1635.0	1500.9	1278.0	1184.8	1205.2	1246.2	1280.3	1307.6	1275.7	1289.4
37.5°	1844.3	1669.2	1428.1	1346.2	1355.3	1371.3	1434.9	1510.0	1525.9	1498.6
40°	2062.6	1851.1	1566.8	1503.2	1523.6	1566.8	1641.9	1712.4	1748.7	1712.4
42.5°	2315.0	2026.2	1780.6	1705.5	1726.0	1787.4	1887.5	1944.3	1939.8	1885.2
45°	2626.5	2269.5	1980.7	1887.5	1962.5	2017.1	2117.1	2124.0	2080.8	2067.1
47.5°	2865.3	2474.2	2196.7	2137.6	2239.9	2242.2	2265.0	2267.2	2219.5	2203.6
50°	3129.1	2710.7	2437.8	2351.4	2524.2	2444.6	2383.2	2342.3	2269.5	2235.4
52.5°	3388.3	2879.0	2660.6	2572.0	2751.6	2540.1	2428.7	2303.6	2196.7	2160.4
55°	3527.1	3156.4	2985.8	2778.9	2801.6	2567.4	2287.7	2130.8	1948.9	1939.8
57.5°	3690.8	3342.9	3261.0	2919.9	2717.5	2376.4	1994.3	1787.4	1591.8	1569.1
60°	3884.1	3638.5	3552.1	2897.1	2419.6	1996.6	1580.5	1314.4	1130.2	1114.3
62.5°	4100.1	3988.7	3731.7	2674.3	1921.6	1405.4	1043.8	820.9	650.4	641.3
65°	4441.2	4282.0	3827.2	2251.3	1271.2	900.5	693.6	532.1	429.8	425.2
67.5°	4655.0	4393.5	3613.5	1605.5	705.0	595.8	486.6	386.6	297.9	279.7
70°	4352.5	4031.9	2858.5	918.7	409.3	452.5	375.2	259.2	204.7	200.1
72.5°	3477.0	2992.7	1923.9	432.1	254.7	354.8	272.9	175.1	122.8	118.3
75°	2371.8	1882.9	1207.5	200.1	179.7	259.2	200.1	102.3	86.4	86.4
77.5°	1059.7	959.7	618.5	122.8	134.2	197.8	116.0	70.5	63.7	61.4
80°	322.9	338.8	252.4	84.1	100.1	150.1	70.5	47.8	38.7	36.4
82.5°	109.2	127.3	113.7	50.0	68.2	106.9	47.8	31.8	27.3	27.3
85°	52.3	63.7	56.9	31.8	36.4	52.3	38.7	25.0	15.9	15.9
87.5°	20.5	29.6	20.5	13.6	20.5	27.3	15.9	11.4	4.5	4.5
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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