

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: P676277

Luminaire Tested: **CCW-SA-1D-740-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676277
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-740-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
T2 distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

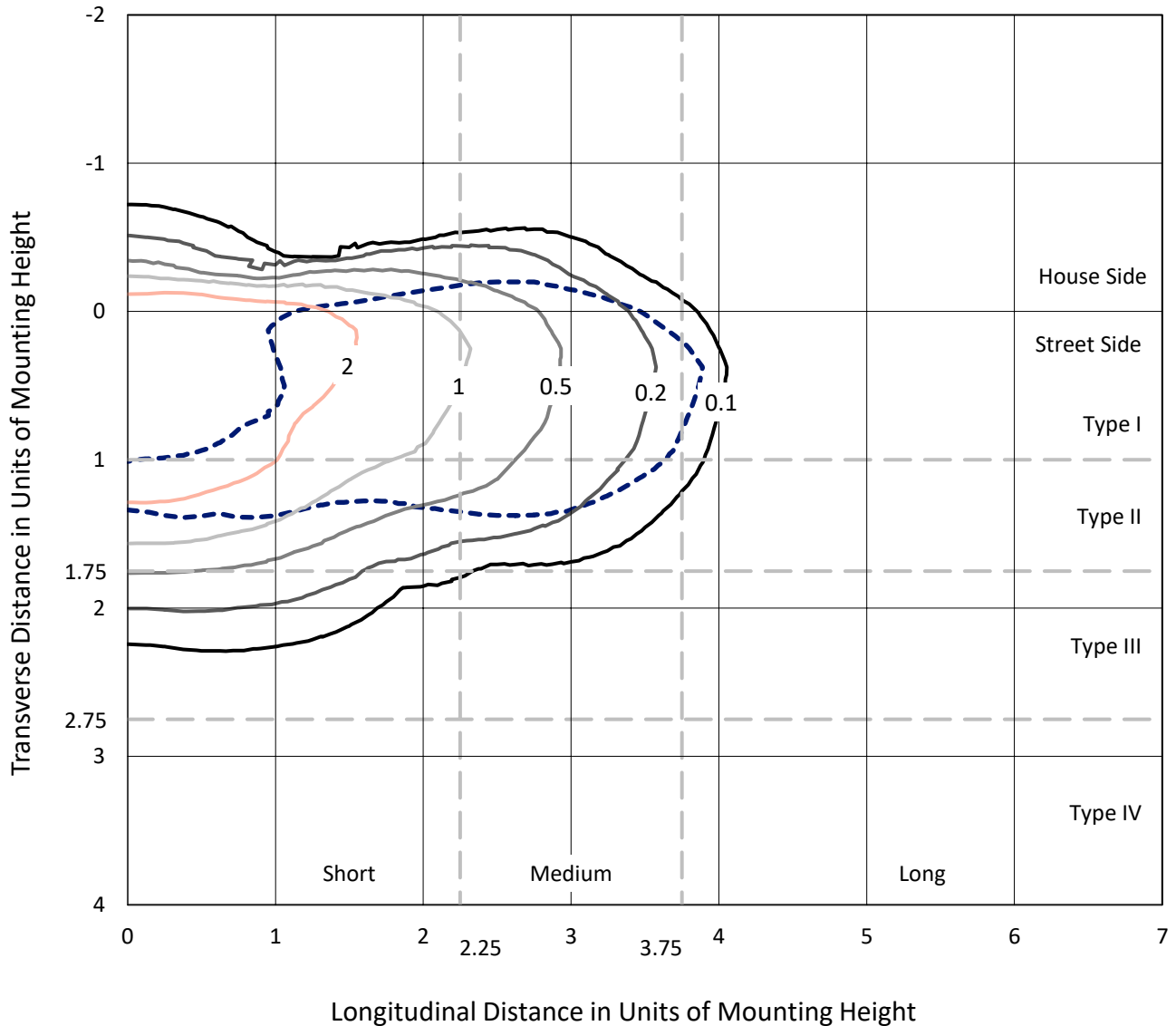
Lumens per Lamp: N/A
Luminaire Lumens: 4305.6 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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

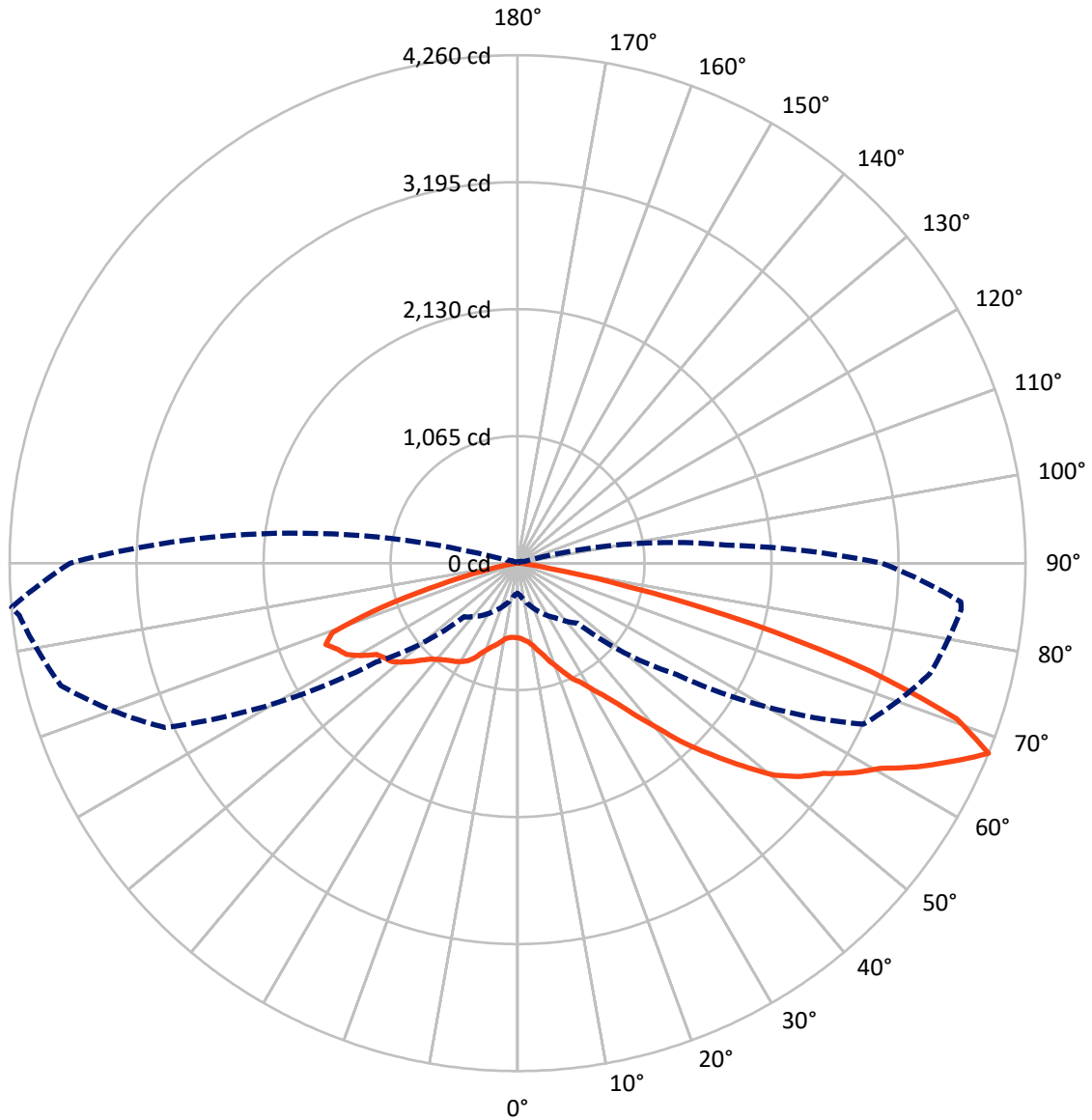
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.3 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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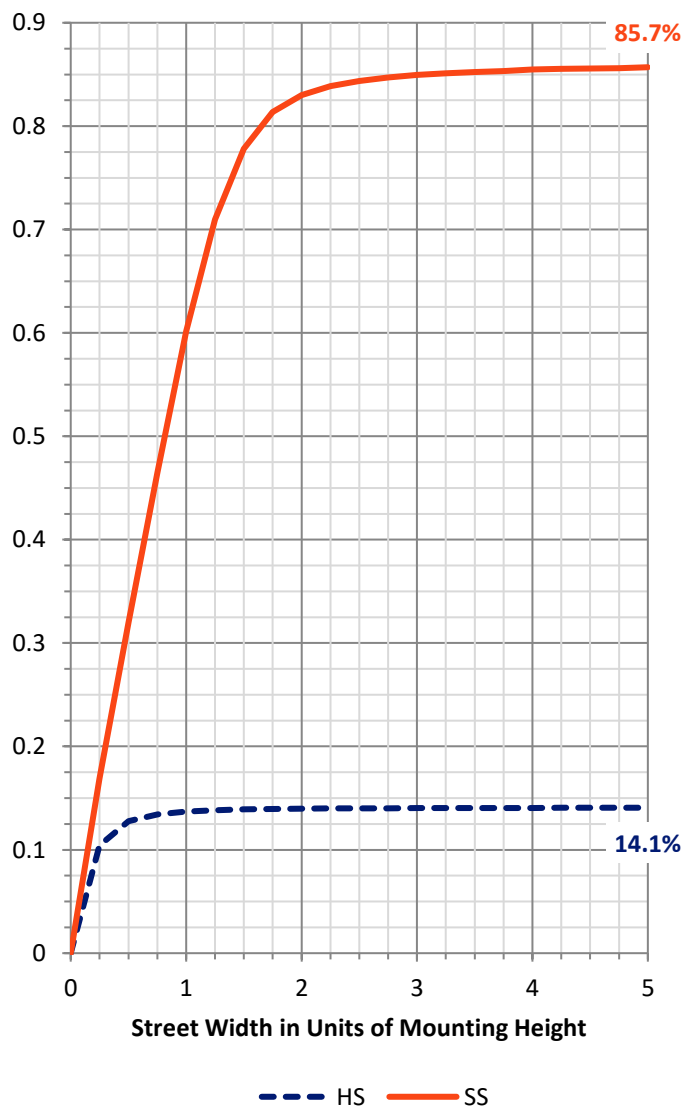
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	611.7	0.0	611.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	3693.9	0.0	3693.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	4305.6	0.0	4305.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.1	1.3
10°-20°	153.5	3.6
20°-30°	254.9	5.9
30°-40°	438.6	10.2
40°-50°	788.2	18.3
50°-60°	1122.1	26.1
60°-70°	1023.0	23.8
70°-80°	435.6	10.1
80°-90°	32.4	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°	4305.6	100.0
0°-180°	4305.6	100.0

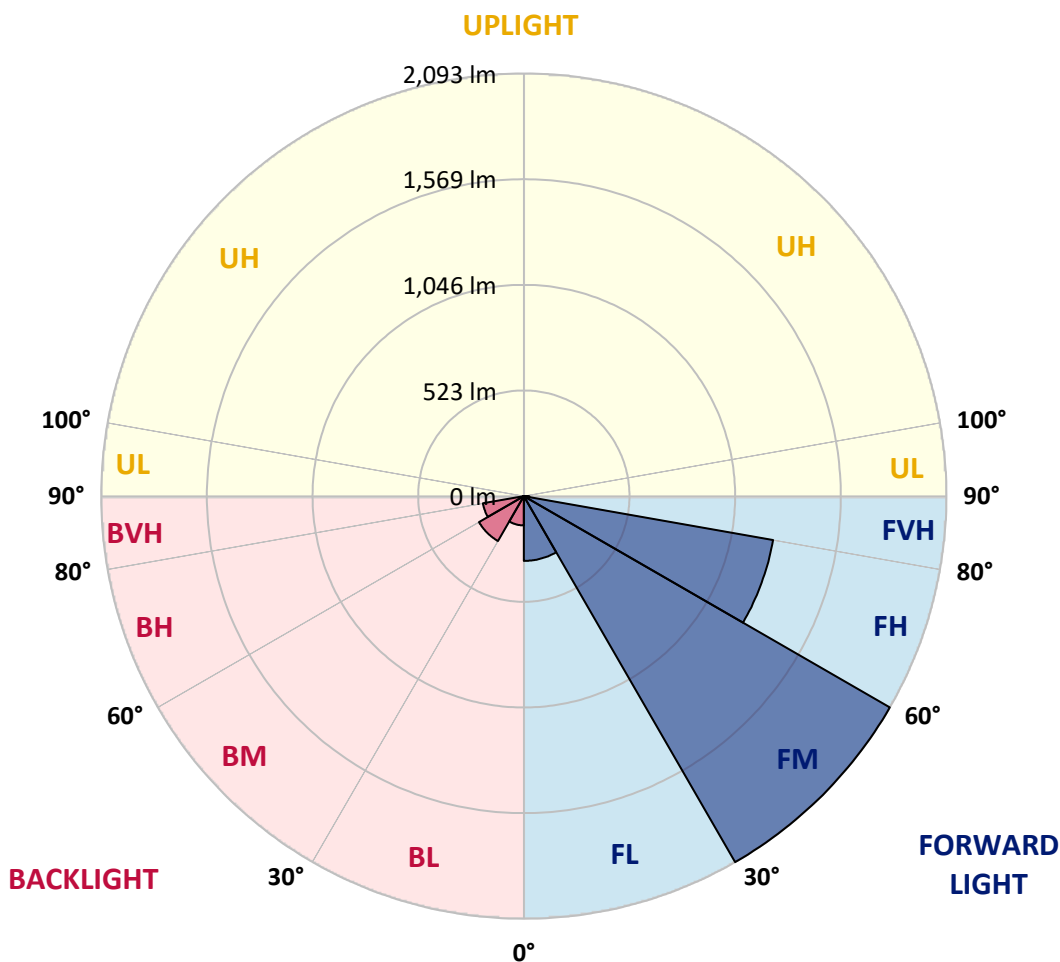


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	320.8	7.4			
FM (30°-60°)	2092.5	48.6			
FH (60°-80°)	1253.1	29.1			G1/1800
FVH (80°-90°)	27.5	0.6			G1/100
BL (0°-30°)	144.8	3.4	B1/500		
BM (30°-60°)	256.4	6.0	B1/1000		
BH (60°-80°)	205.5	4.8	B1/500		G1/500
BVH (80°-90°)	4.9	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°	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1
2.5°	648.7	654.8	654.8	652.8	646.6	642.5	640.5	636.4	632.3	632.3	634.3
5°	654.8	648.7	656.9	646.6	646.6	646.6	654.8	650.7	648.7	638.4	638.4
7.5°	654.8	648.7	648.7	654.8	648.7	652.8	663.0	658.9	667.1	648.7	652.8
10°	636.4	634.3	638.4	646.6	648.7	656.9	667.1	687.7	689.7	677.4	675.4
12.5°	599.4	597.4	611.7	615.8	640.5	661.0	691.8	708.2	726.7	720.5	708.2
15°	572.7	576.8	587.1	603.5	626.1	663.0	697.9	734.9	767.7	759.5	755.4
17.5°	583.0	580.9	583.0	593.2	622.0	658.9	718.5	761.6	808.8	808.8	812.9
20°	613.8	619.9	617.9	611.7	626.1	656.9	718.5	794.4	872.4	866.3	866.3
22.5°	667.1	669.2	656.9	652.8	650.7	669.2	730.8	835.5	925.8	938.1	934.0
25°	722.6	724.6	720.5	708.2	691.8	695.9	753.4	868.3	999.7	1020.2	1016.1
27.5°	814.9	812.9	802.6	788.3	763.6	745.2	788.3	893.0	1057.2	1092.1	1081.8
30°	907.3	901.2	886.8	868.3	845.7	810.8	831.4	940.2	1129.0	1161.9	1139.3
32.5°	1020.2	1007.9	1012.0	983.3	936.1	880.6	876.5	983.3	1186.5	1233.7	1215.2
35°	1163.9	1149.5	1129.0	1102.3	1057.2	983.3	960.7	1053.1	1283.0	1317.9	1317.9
37.5°	1352.8	1367.1	1342.5	1231.7	1182.4	1112.6	1065.4	1124.9	1367.1	1451.3	1430.8
40°	1545.7	1558.0	1512.9	1430.8	1324.0	1237.8	1209.1	1241.9	1494.4	1595.0	1556.0
42.5°	1701.7	1718.2	1701.7	1595.0	1510.8	1400.0	1348.7	1379.5	1658.6	1779.7	1728.4
45°	1866.0	1882.4	1863.9	1794.1	1712.0	1648.4	1519.0	1558.0	1831.1	2011.7	1954.2
47.5°	1989.1	2009.7	1976.8	1962.4	1896.8	1886.5	1666.8	1710.0	2011.7	2245.7	2173.9
50°	2017.9	2040.4	2069.2	2085.6	2063.0	2087.7	1866.0	1902.9	2200.6	2461.3	2391.5
52.5°	1950.1	1972.7	2036.3	2112.3	2217.0	2290.9	2067.1	2097.9	2397.6	2639.9	2602.9
55°	1751.0	1771.5	1900.9	2003.5	2253.9	2375.0	2260.1	2389.4	2539.3	2826.7	2736.3
57.5°	1416.4	1441.0	1611.4	1769.5	2130.8	2327.8	2375.0	2631.6	2773.3	2964.2	2859.5
60°	1005.9	1020.2	1168.0	1447.2	1790.0	2091.8	2352.5	2812.3	2958.0	3148.9	3093.5
62.5°	578.9	591.2	745.2	1007.9	1350.7	1746.9	2251.9	2982.7	3157.2	3352.2	3321.4
65°	383.9	388.0	492.7	636.4	878.6	1287.1	1997.3	3134.6	3354.2	3514.3	3479.4
67.5°	252.5	275.1	357.2	455.7	562.5	712.3	1627.8	3198.2	3580.0	3740.1	3731.9
70°	180.6	188.9	256.6	351.0	422.9	400.3	952.5	2748.7	3569.8	3801.7	3734.0
72.5°	106.7	115.0	170.4	262.8	332.5	254.5	445.5	1944.0	2958.0	3034.0	3015.5
75°	78.0	78.0	104.7	188.9	242.2	182.7	209.4	1229.6	1964.5	2132.8	2130.8
77.5°	55.4	57.5	71.8	112.9	186.8	133.4	115.0	683.6	1073.6	1174.2	1118.8
80°	32.8	34.9	49.3	67.7	135.5	96.5	76.0	312.0	412.6	416.7	396.2
82.5°	24.6	24.6	32.8	47.2	94.4	65.7	47.2	119.1	133.4	121.1	102.6
85°	14.4	12.3	24.6	34.9	55.4	36.9	32.8	55.4	61.6	45.2	41.1
87.5°	4.1	4.1	10.3	12.3	24.6	20.5	14.4	20.5	28.7	16.4	12.3
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°	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1
2.5°	630.2	624.0	613.8	609.7	595.3	589.1	585.0	574.8	576.8	570.7	570.7
5°	624.0	624.0	603.5	580.9	558.4	544.0	527.6	507.0	507.0	498.8	500.9
7.5°	646.6	630.2	603.5	562.5	525.5	492.7	478.3	457.8	445.5	439.3	439.3
10°	661.0	644.6	599.4	550.1	502.9	461.9	431.1	402.3	385.9	385.9	383.9
12.5°	700.0	675.4	615.8	548.1	478.3	416.7	369.5	336.7	314.1	297.7	301.8
15°	732.8	706.2	624.0	531.7	435.2	349.0	291.5	229.9	199.1	182.7	176.5
17.5°	784.2	734.9	642.5	502.9	369.5	273.0	188.9	137.5	125.2	123.2	123.2
20°	827.3	769.8	644.6	447.5	303.8	174.5	121.1	112.9	106.7	104.7	102.6
22.5°	886.8	814.9	636.4	383.9	217.6	117.0	102.6	94.4	90.3	84.2	84.2
25°	948.4	874.5	619.9	324.3	133.4	100.6	90.3	82.1	73.9	69.8	71.8
27.5°	1014.1	919.6	572.7	252.5	102.6	88.3	73.9	67.7	63.6	61.6	61.6
30°	1067.4	948.4	502.9	168.3	92.4	78.0	65.7	59.5	55.4	53.4	53.4
32.5°	1106.4	973.0	424.9	112.9	84.2	69.8	59.5	53.4	49.3	47.2	47.2
35°	1172.1	991.5	353.1	96.5	76.0	61.6	51.3	47.2	43.1	43.1	43.1
37.5°	1272.7	1016.1	281.2	88.3	69.8	55.4	49.3	43.1	41.1	39.0	39.0
40°	1361.0	1046.9	201.2	80.1	63.6	51.3	43.1	39.0	36.9	34.9	34.9
42.5°	1488.3	1081.8	131.4	71.8	57.5	47.2	39.0	34.9	32.8	30.8	30.8
45°	1650.4	1139.3	102.6	63.6	51.3	43.1	36.9	32.8	28.7	28.7	26.7
47.5°	1822.9	1209.1	92.4	59.5	47.2	39.0	32.8	28.7	26.7	24.6	24.6
50°	1983.0	1276.8	86.2	55.4	43.1	36.9	30.8	26.7	22.6	20.5	20.5
52.5°	2126.7	1340.5	82.1	51.3	41.1	32.8	26.7	22.6	20.5	18.5	18.5
55°	2202.6	1369.2	80.1	49.3	36.9	30.8	24.6	20.5	18.5	16.4	16.4
57.5°	2321.7	1406.1	78.0	47.2	34.9	26.7	22.6	18.5	16.4	14.4	14.4
60°	2514.6	1527.3	76.0	45.2	32.8	26.7	20.5	16.4	12.3	10.3	10.3
62.5°	2674.8	1627.8	67.7	39.0	28.7	22.6	16.4	12.3	8.2	6.2	6.2
65°	2857.4	1675.1	59.5	34.9	24.6	18.5	12.3	8.2	6.2	2.1	2.1
67.5°	3056.6	1746.9	49.3	30.8	22.6	14.4	10.3	6.2	2.1	0.0	0.0
70°	2951.9	1656.6	41.1	26.7	20.5	12.3	8.2	4.1	0.0	0.0	0.0
72.5°	2313.5	1186.5	32.8	24.6	18.5	12.3	8.2	2.1	0.0	0.0	0.0
75°	1545.7	671.3	28.7	20.5	14.4	10.3	6.2	2.1	0.0	0.0	0.0
77.5°	839.6	301.8	24.6	18.5	12.3	8.2	6.2	2.1	0.0	0.0	0.0
80°	273.0	119.1	20.5	16.4	12.3	8.2	6.2	2.1	0.0	0.0	0.0
82.5°	73.9	36.9	20.5	16.4	12.3	8.2	6.2	2.1	0.0	0.0	0.0
85°	30.8	24.6	20.5	16.4	12.3	8.2	6.2	2.1	0.0	0.0	0.0
87.5°	12.3	8.2	8.2	10.3	8.2	6.2	4.1	2.1	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°	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1
2.5°	572.7	576.8	578.9	578.9	589.1	599.4	611.7	622.0	622.0	628.1	634.3
5°	502.9	507.0	513.2	531.7	552.2	574.8	597.4	613.8	636.4	646.6	652.8
7.5°	445.5	449.6	466.0	484.5	513.2	552.2	591.2	628.1	650.7	661.0	669.2
10°	385.9	392.1	410.6	443.4	480.3	527.6	572.7	636.4	673.3	693.8	702.0
12.5°	299.7	316.1	340.8	375.7	422.9	494.7	578.9	644.6	708.2	732.8	749.3
15°	188.9	203.2	242.2	297.7	361.3	445.5	562.5	656.9	745.2	769.8	796.5
17.5°	121.1	123.2	135.5	195.0	277.1	383.9	537.8	675.4	786.2	821.1	862.2
20°	102.6	106.7	108.8	117.0	184.7	316.1	486.5	697.9	835.5	882.7	921.7
22.5°	86.2	88.3	92.4	98.5	110.8	229.9	416.7	697.9	878.6	948.4	993.5
25°	69.8	73.9	78.0	84.2	96.5	143.7	344.9	685.6	929.9	1016.1	1073.6
27.5°	61.6	61.6	65.7	71.8	82.1	100.6	273.0	648.7	968.9	1057.2	1133.1
30°	53.4	55.4	57.5	63.6	73.9	88.3	188.9	589.1	1010.0	1137.2	1223.4
32.5°	47.2	47.2	51.3	55.4	65.7	80.1	121.1	498.8	1063.3	1198.8	1319.9
35°	43.1	43.1	45.2	49.3	59.5	71.8	94.4	422.9	1127.0	1315.8	1449.3
37.5°	39.0	39.0	41.1	45.2	53.4	63.6	86.2	363.3	1192.7	1432.8	1627.8
40°	34.9	34.9	36.9	41.1	47.2	57.5	78.0	293.5	1274.8	1605.3	1822.9
42.5°	30.8	30.8	32.8	36.9	43.1	51.3	67.7	219.6	1383.6	1792.1	2075.3
45°	26.7	26.7	28.7	32.8	36.9	47.2	61.6	168.3	1502.6	1999.4	2297.0
47.5°	22.6	24.6	26.7	30.8	34.9	43.1	55.4	147.8	1619.6	2219.0	2543.4
50°	20.5	20.5	22.6	26.7	32.8	39.0	51.3	145.7	1738.7	2387.4	2795.9
52.5°	18.5	18.5	20.5	24.6	30.8	36.9	49.3	149.9	1837.2	2543.4	2972.4
55°	16.4	16.4	18.5	20.5	26.7	34.9	45.2	154.0	1907.0	2701.4	3114.0
57.5°	14.4	14.4	16.4	20.5	24.6	30.8	41.1	158.1	2019.9	2857.4	3319.3
60°	10.3	10.3	14.4	18.5	22.6	26.7	39.0	162.2	2200.6	3073.0	3493.8
62.5°	6.2	6.2	8.2	14.4	18.5	24.6	34.9	154.0	2368.9	3350.1	3760.7
65°	2.1	4.1	6.2	8.2	14.4	20.5	28.7	139.6	2510.5	3627.2	4007.0
67.5°	0.0	0.0	2.1	6.2	12.3	16.4	24.6	102.6	2533.1	3752.5	4259.5
70°	0.0	0.0	2.1	6.2	10.3	16.4	22.6	57.5	2157.5	3352.2	3904.4
72.5°	0.0	0.0	0.0	4.1	10.3	14.4	20.5	43.1	1590.9	2527.0	3085.3
75°	0.0	0.0	0.0	2.1	8.2	12.3	18.5	32.8	966.9	1685.3	2013.8
77.5°	0.0	0.0	0.0	2.1	6.2	12.3	18.5	28.7	340.8	802.6	946.3
80°	0.0	0.0	0.0	4.1	8.2	12.3	16.4	24.6	82.1	201.2	271.0
82.5°	0.0	0.0	0.0	2.1	6.2	10.3	14.4	20.5	32.8	59.5	94.4
85°	0.0	0.0	0.0	2.1	4.1	10.3	14.4	18.5	22.6	28.7	41.1
87.5°	0.0	0.0	0.0	0.0	2.1	4.1	6.2	8.2	8.2	8.2	14.4
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°	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1
2.5°	632.3	640.5	644.6	652.8	656.9	654.8	652.8	658.9	654.8	648.7
5°	654.8	654.8	661.0	663.0	663.0	656.9	661.0	658.9	654.8	654.8
7.5°	679.5	689.7	689.7	677.4	675.4	671.3	671.3	654.8	648.7	654.8
10°	704.1	712.3	714.4	700.0	681.5	673.3	663.0	642.5	632.3	636.4
12.5°	755.4	755.4	732.8	716.4	691.8	663.0	638.4	609.7	595.3	599.4
15°	792.4	800.6	769.8	732.8	689.7	636.4	609.7	587.1	578.9	572.7
17.5°	864.2	847.8	798.5	745.2	683.6	628.1	609.7	589.1	583.0	583.0
20°	925.8	917.6	843.7	747.2	681.5	644.6	632.3	622.0	619.9	613.8
22.5°	1010.0	973.0	878.6	769.8	704.1	671.3	667.1	677.4	671.3	667.1
25°	1073.6	1042.8	905.3	802.6	739.0	728.7	734.9	745.2	728.7	722.6
27.5°	1159.8	1102.3	956.6	845.7	786.2	796.5	817.0	819.1	808.8	814.9
30°	1239.9	1178.3	995.6	895.0	866.3	876.5	907.3	929.9	915.5	907.3
32.5°	1354.8	1260.4	1073.6	977.1	966.9	993.5	1028.4	1042.8	1024.3	1020.2
35°	1475.9	1354.8	1153.7	1069.5	1088.0	1124.9	1155.7	1180.3	1151.6	1163.9
37.5°	1664.8	1506.7	1289.1	1215.2	1223.4	1237.8	1295.3	1363.0	1377.4	1352.8
40°	1861.9	1671.0	1414.4	1356.9	1375.4	1414.4	1482.1	1545.7	1578.6	1545.7
42.5°	2089.7	1829.0	1607.3	1539.6	1558.0	1613.5	1703.8	1755.1	1751.0	1701.7
45°	2370.9	2048.7	1788.0	1703.8	1771.5	1820.8	1911.1	1917.3	1878.3	1866.0
47.5°	2586.5	2233.4	1983.0	1929.6	2022.0	2024.0	2044.6	2046.6	2003.5	1989.1
50°	2824.6	2446.9	2200.6	2122.6	2278.6	2206.7	2151.3	2114.3	2048.7	2017.9
52.5°	3058.6	2598.8	2401.7	2321.7	2483.8	2292.9	2192.4	2079.5	1983.0	1950.1
55°	3183.8	2849.2	2695.3	2508.5	2529.0	2317.6	2065.1	1923.4	1759.2	1751.0
57.5°	3331.6	3017.6	2943.7	2635.8	2453.1	2145.1	1800.3	1613.5	1436.9	1416.4
60°	3506.1	3284.4	3206.4	2615.2	2184.1	1802.3	1426.7	1186.5	1020.2	1005.9
62.5°	3701.1	3600.6	3368.6	2414.1	1734.6	1268.6	942.2	741.0	587.1	578.9
65°	4009.1	3865.4	3454.8	2032.2	1147.5	812.9	626.1	480.3	388.0	383.9
67.5°	4202.0	3965.9	3261.8	1449.3	636.4	537.8	439.3	349.0	268.9	252.5
70°	3929.0	3639.6	2580.3	829.3	369.5	408.5	338.7	234.0	184.7	180.6
72.5°	3138.7	2701.4	1736.6	390.0	229.9	320.2	246.3	158.1	110.8	106.7
75°	2141.0	1699.7	1090.0	180.6	162.2	234.0	180.6	92.4	78.0	78.0
77.5°	956.6	866.3	558.4	110.8	121.1	178.6	104.7	63.6	57.5	55.4
80°	291.5	305.9	227.9	76.0	90.3	135.5	63.6	43.1	34.9	32.8
82.5°	98.5	115.0	102.6	45.2	61.6	96.5	43.1	28.7	24.6	24.6
85°	47.2	57.5	51.3	28.7	32.8	47.2	34.9	22.6	14.4	14.4
87.5°	18.5	26.7	18.5	12.3	18.5	24.6	14.4	10.3	4.1	4.1
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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