

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: P674110

Luminaire Tested: **CCP-SA-2A-730-U-SLL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674110
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2A-730-U-SLL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @350mA w/ SLL distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

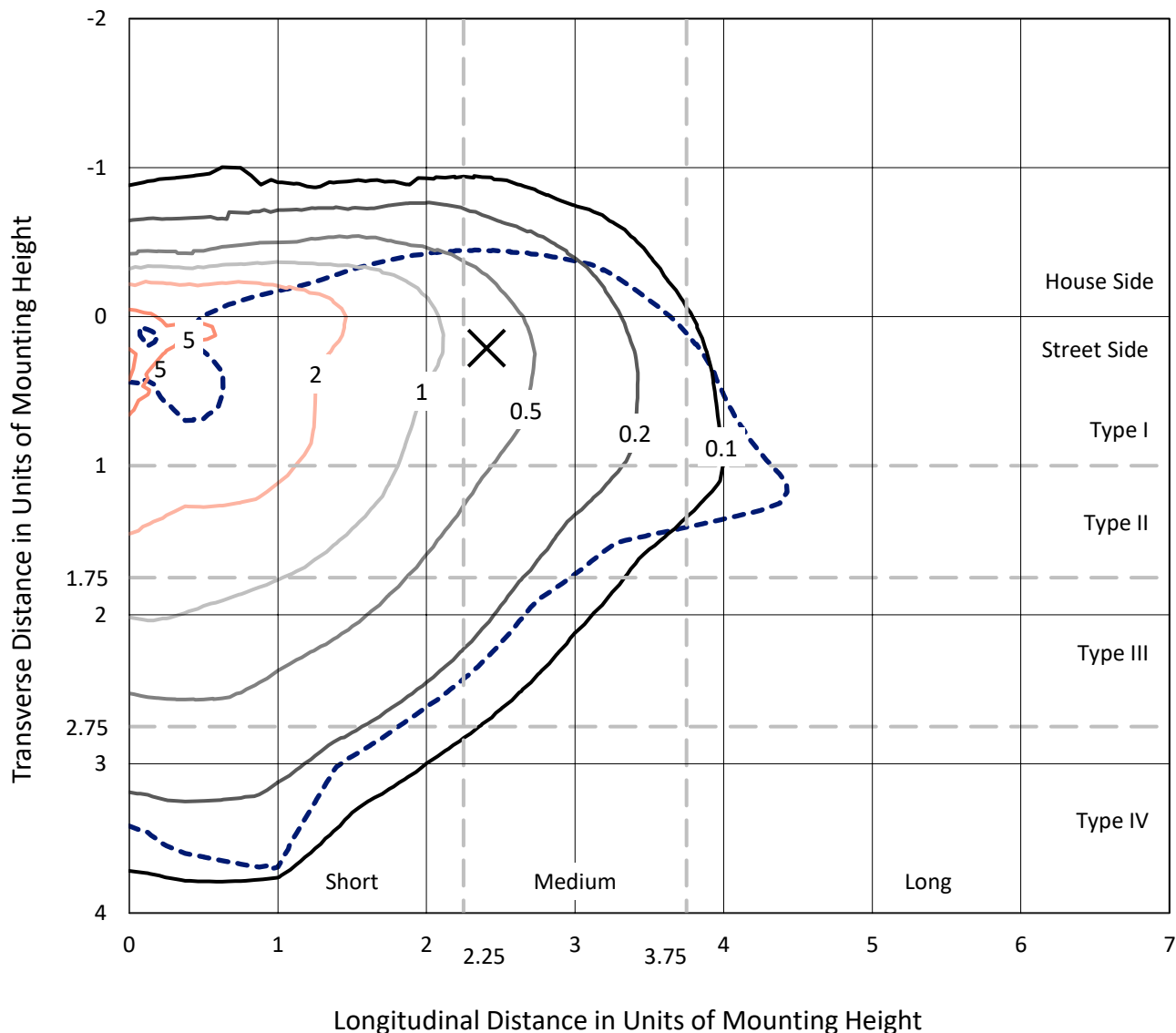
Lumens per Lamp: N/A
Luminaire Lumens: 3615 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2
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

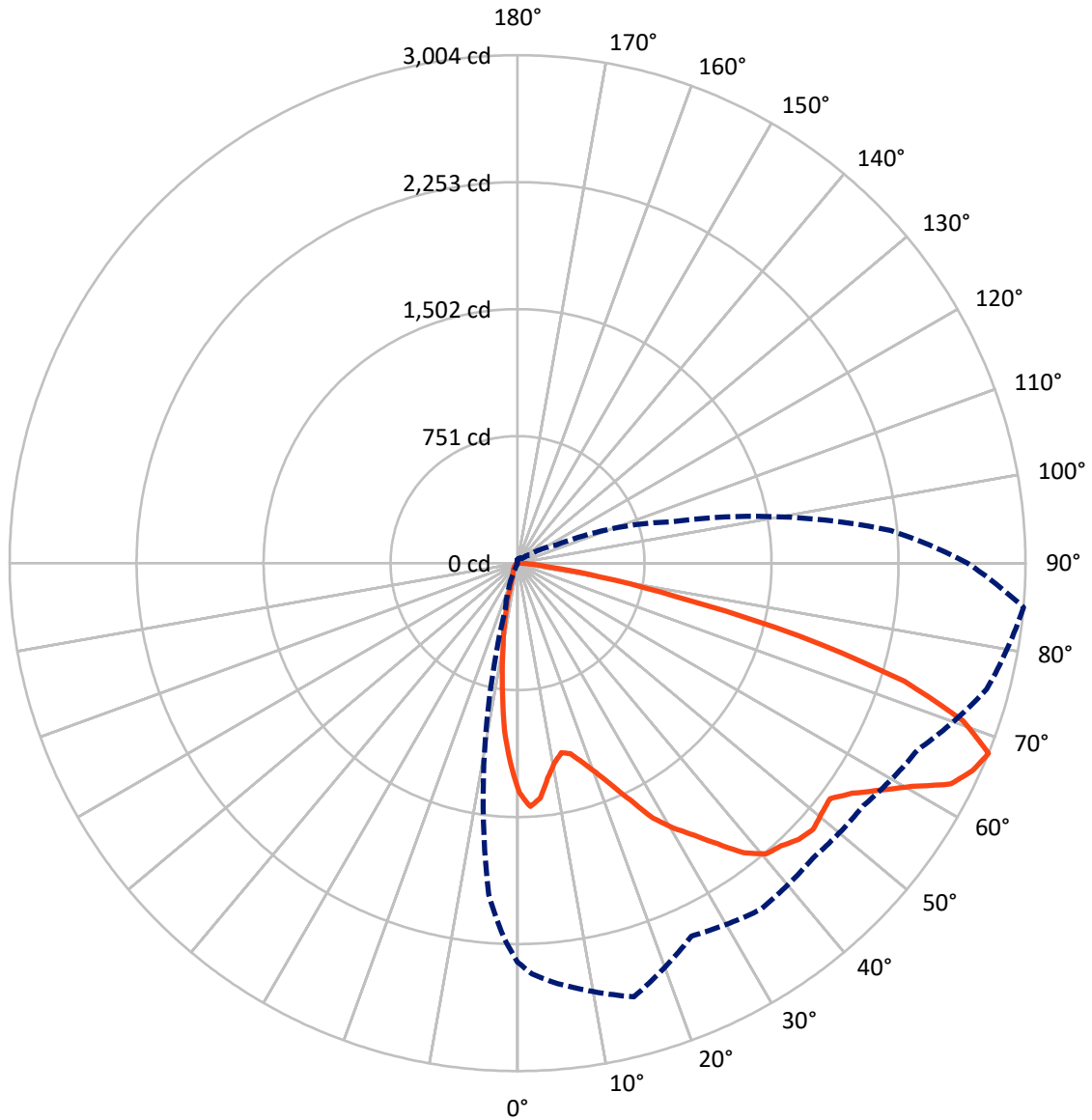
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	627.7	0.0	627.7
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	2987.3	0.0	2987.3
	% Fixture	82.6	0.0	82.6
Total	Lumens	3615.0	0.0	3615.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.3	2.9
10°-20°	202.5	5.6
20°-30°	280.2	7.8
30°-40°	396.0	11.0
40°-50°	539.2	14.9
50°-60°	714.1	19.8
60°-70°	829.1	22.9
70°-80°	469.5	13.0
80°-90°	81.1	2.2
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°	3615.0	100.0
0°-180°	3615.0	100.0



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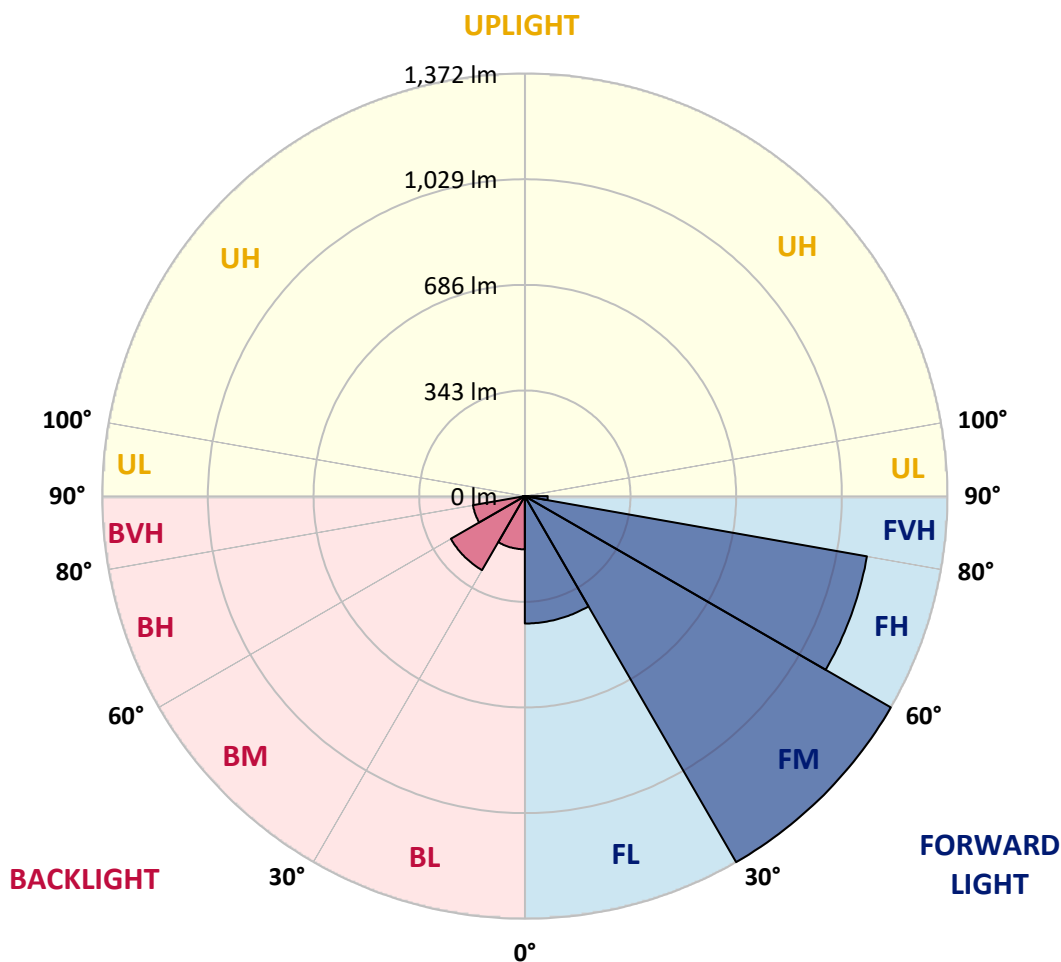
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	413.4	11.4			
FM (30°-60°)	1371.9	38.0			
FH (60°-80°)	1127.7	31.2			G1/1800
FVH (80°-90°)	74.3	2.1			G1/100
BL (0°-30°)	172.6	4.8	B1/500		
BM (30°-60°)	277.3	7.7	B1/1000		
BH (60°-80°)	170.9	4.7	B1/500		G1/500
BVH (80°-90°)	6.8	0.2			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1412.3	1442.2	1443.2	1456.7	1470.2	1470.2	1502.1	1494.4	1466.4	1461.5	1441.3
5°	1422.9	1433.5	1441.3	1509.8	1567.7	1561.9	1579.3	1567.7	1513.7	1444.2	1396.9
7.5°	1331.2	1342.8	1373.7	1490.5	1568.7	1594.8	1627.6	1555.2	1498.2	1372.7	1282.0
10°	1209.6	1231.8	1288.7	1422.0	1518.5	1601.5	1601.5	1543.6	1433.5	1310.9	1199.9
12.5°	1142.0	1186.4	1217.3	1352.4	1477.9	1534.9	1533.0	1502.1	1430.6	1276.2	1150.7
15°	1153.6	1166.1	1231.8	1337.0	1420.0	1417.1	1451.9	1442.2	1392.0	1307.1	1169.0
17.5°	1206.7	1226.0	1282.9	1337.0	1376.6	1365.0	1364.0	1410.4	1413.3	1359.2	1237.6
20°	1293.6	1350.5	1377.5	1394.0	1345.7	1296.5	1290.7	1355.3	1405.5	1425.8	1319.6
22.5°	1432.6	1470.2	1525.2	1441.3	1315.8	1254.0	1242.4	1313.8	1415.2	1505.0	1425.8
25°	1568.7	1597.6	1650.7	1542.6	1349.6	1245.3	1225.0	1286.8	1451.9	1615.0	1554.2
27.5°	1712.5	1737.6	1743.4	1617.0	1367.9	1227.9	1203.8	1286.8	1482.8	1672.9	1707.7
30°	1800.4	1830.3	1836.1	1682.6	1397.8	1242.4	1230.8	1292.6	1504.0	1722.2	1817.7
32.5°	1898.8	1906.6	1901.7	1694.2	1430.6	1284.9	1236.6	1331.2	1528.1	1781.1	1918.1
35°	2016.6	2030.1	1980.9	1747.3	1504.0	1311.9	1294.5	1378.5	1569.7	1808.1	2039.8
37.5°	2106.4	2148.9	2037.8	1767.5	1518.5	1368.9	1371.8	1477.0	1598.6	1840.9	2174.0
40°	2275.3	2203.9	2134.4	1837.1	1573.5	1465.4	1449.9	1578.3	1696.1	1862.2	2261.8
42.5°	2368.0	2330.3	2172.0	1843.8	1658.5	1598.6	1602.5	1693.2	1747.3	1922.0	2285.9
45°	2391.2	2351.6	2223.2	1848.6	1742.4	1756.0	1822.6	1839.9	1822.6	1961.6	2331.3
47.5°	2450.0	2364.1	2217.4	1913.3	1878.6	1930.7	2015.6	2053.3	1924.9	1947.1	2352.5
50°	2438.5	2389.2	2204.8	1940.3	2044.6	2182.6	2239.6	2224.2	2038.8	1917.2	2329.4
52.5°	2390.2	2337.1	2243.5	2013.7	2200.0	2367.0	2446.2	2407.6	2140.2	1984.7	2313.9
55°	2460.7	2420.1	2293.7	2113.1	2316.8	2529.2	2585.2	2556.2	2264.7	2047.5	2401.8
57.5°	2536.9	2528.2	2429.8	2229.9	2454.9	2696.2	2696.2	2660.5	2372.8	2138.2	2532.1
60°	2647.0	2666.3	2530.2	2307.2	2502.2	2686.6	2826.5	2785.0	2481.9	2297.5	2679.8
62.5°	2611.3	2673.0	2659.5	2473.2	2556.2	2733.9	2810.1	2841.0	2617.1	2491.6	2876.7
65°	2496.4	2562.0	2658.6	2582.3	2515.7	2619.0	2657.6	2751.2	2684.6	2674.0	2957.8
67.5°	2359.3	2430.7	2490.6	2655.7	2433.6	2502.2	2468.4	2498.3	2611.3	2873.8	3004.2
70°	2060.0	2128.6	2223.2	2492.5	2216.4	2154.7	2146.0	2131.5	2307.2	2802.4	2793.7
72.5°	1694.2	1726.0	1882.4	2026.3	1640.1	1628.5	1642.1	1625.6	1829.3	2536.9	2393.1
75°	1268.5	1300.3	1389.1	1556.1	1116.9	1050.3	1127.5	1203.8	1396.9	1969.3	1719.3
77.5°	953.8	994.3	1050.3	1164.2	819.6	715.3	725.9	798.3	1009.8	1577.4	963.4
80°	618.8	614.0	722.1	801.2	616.9	636.2	609.1	662.2	731.7	843.7	492.3
82.5°	357.2	362.0	407.4	459.5	429.6	491.4	354.3	591.8	522.3	343.7	183.4
85°	200.8	209.5	251.0	318.6	269.3	180.5	147.7	293.5	328.2	140.9	88.8
87.5°	20.3	17.4	33.8	120.7	73.4	29.9	44.4	70.5	79.2	53.1	26.1
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°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1412.3	1412.3	1388.2	1347.6	1331.2	1302.3	1262.7	1275.2	1261.7	1212.5	1199.9
5°	1354.4	1308.0	1257.8	1196.1	1160.3	1087.0	1063.8	1022.3	1029.1	987.5	989.5
7.5°	1233.7	1197.0	1112.1	1031.0	960.5	896.8	807.0	773.2	740.4	724.0	743.3
10°	1163.2	1094.7	978.9	872.7	779.0	722.1	662.2	615.9	573.4	541.6	534.8
12.5°	1112.1	1051.3	911.3	781.9	708.6	662.2	607.2	543.5	502.0	447.0	430.5
15°	1096.6	1022.3	874.6	746.2	674.8	598.5	535.8	473.0	419.0	361.0	340.8
17.5°	1149.7	1063.8	873.6	717.3	616.9	534.8	447.9	377.4	322.4	269.3	256.8
20°	1239.5	1108.2	901.6	699.9	561.8	451.8	353.3	282.8	221.1	186.3	177.6
22.5°	1341.8	1183.5	904.5	653.5	506.8	368.8	257.7	186.3	151.6	135.1	130.3
25°	1467.3	1304.2	939.3	615.9	442.1	280.0	183.4	142.9	122.6	112.9	111.0
27.5°	1570.6	1388.2	976.9	576.3	378.4	207.5	143.8	116.8	106.2	96.5	95.6
30°	1677.8	1484.7	987.5	552.2	323.4	170.9	123.6	103.3	91.7	86.9	85.9
32.5°	1771.4	1589.9	1021.3	512.6	271.3	150.6	112.0	92.7	85.0	77.2	76.3
35°	1892.1	1650.7	1037.7	491.4	252.0	136.1	102.3	85.0	73.4	68.5	66.6
37.5°	2021.4	1709.6	1048.4	474.9	235.5	127.4	96.5	80.1	69.5	62.7	60.8
40°	2142.1	1792.6	1032.9	454.7	223.0	116.8	92.7	74.3	64.7	57.9	55.0
42.5°	2234.8	1873.7	1028.1	435.4	209.5	112.9	87.8	71.4	60.8	53.1	52.1
45°	2286.9	1928.8	994.3	419.9	198.9	114.9	85.9	67.6	57.9	51.2	47.3
47.5°	2274.4	1971.2	1003.0	415.1	184.4	107.2	85.0	64.7	53.1	47.3	44.4
50°	2343.9	2057.2	988.5	399.7	173.8	96.5	92.7	64.7	52.1	45.4	42.5
52.5°	2355.4	2135.3	1019.4	371.7	157.4	88.8	91.7	63.7	50.2	43.4	39.6
55°	2452.0	2226.1	1079.3	356.2	143.8	77.2	84.0	61.8	45.4	39.6	37.6
57.5°	2583.3	2414.3	1117.9	341.7	125.5	67.6	70.5	60.8	41.5	36.7	33.8
60°	2709.7	2489.6	1120.8	315.7	108.1	60.8	55.0	60.8	38.6	32.8	29.9
62.5°	2804.3	2489.6	1101.5	293.5	94.6	54.1	48.3	57.9	34.8	29.0	27.0
65°	2753.2	2423.0	1051.3	275.1	85.9	47.3	41.5	44.4	30.9	25.1	23.2
67.5°	2661.5	2215.5	940.2	252.9	85.0	41.5	35.7	32.8	27.0	22.2	20.3
70°	2514.7	1935.5	782.9	227.8	83.0	37.6	31.9	28.0	24.1	19.3	17.4
72.5°	2026.3	1598.6	642.9	213.3	81.1	32.8	27.0	24.1	20.3	16.4	14.5
75°	1403.6	1021.3	495.2	182.5	79.2	29.9	25.1	21.2	17.4	13.5	12.5
77.5°	841.8	682.5	319.5	137.1	52.1	24.1	21.2	16.4	14.5	11.6	10.6
80°	393.9	322.4	129.4	53.1	25.1	17.4	14.5	12.5	11.6	9.7	8.7
82.5°	154.5	136.1	62.7	30.9	20.3	13.5	11.6	10.6	9.7	7.7	6.8
85°	83.0	73.4	29.9	21.2	14.5	9.7	9.7	8.7	7.7	6.8	5.8
87.5°	18.3	13.5	12.5	12.5	10.6	7.7	7.7	6.8	5.8	4.8	3.9
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1193.2	1207.6	1184.5	1199.0	1178.7	1194.1	1196.1	1181.6	1185.4	1204.8	1213.4
5°	1016.5	1006.9	985.6	978.9	979.8	967.3	972.1	978.9	989.5	995.3	1012.6
7.5°	732.7	754.9	753.9	770.3	771.3	769.4	755.9	726.9	736.6	728.8	738.5
10°	524.2	533.8	552.2	562.8	582.1	571.5	540.6	529.0	523.2	522.3	531.9
12.5°	419.0	395.8	393.9	397.7	407.4	394.8	379.4	365.9	372.6	386.1	396.8
15°	324.4	305.0	280.0	276.1	278.0	272.2	255.8	238.4	243.3	256.8	264.5
17.5°	249.1	226.9	209.5	197.9	194.0	173.8	149.6	135.1	131.3	130.3	137.1
20°	168.0	164.1	161.2	146.7	146.7	117.8	97.5	86.9	86.9	88.8	89.8
22.5°	125.5	120.7	121.6	118.7	111.0	87.8	77.2	74.3	74.3	76.3	76.3
25°	109.1	102.3	100.4	99.4	91.7	75.3	67.6	64.7	64.7	66.6	66.6
27.5°	92.7	90.7	87.8	84.0	77.2	64.7	59.9	57.0	57.9	58.9	57.9
30°	85.0	80.1	76.3	76.3	68.5	57.9	54.1	52.1	50.2	52.1	53.1
32.5°	75.3	72.4	70.5	67.6	58.9	51.2	47.3	45.4	44.4	44.4	45.4
35°	64.7	64.7	62.7	58.9	51.2	46.3	41.5	39.6	38.6	39.6	39.6
37.5°	57.9	55.0	56.0	52.1	45.4	40.5	35.7	33.8	33.8	32.8	33.8
40°	54.1	49.2	46.3	44.4	40.5	34.8	30.9	29.0	28.0	28.0	28.0
42.5°	48.3	44.4	38.6	37.6	36.7	29.9	25.1	24.1	23.2	22.2	22.2
45°	45.4	39.6	34.8	29.9	29.9	25.1	21.2	19.3	18.3	17.4	18.3
47.5°	41.5	35.7	29.9	25.1	24.1	20.3	16.4	14.5	13.5	13.5	13.5
50°	39.6	31.9	26.1	21.2	18.3	16.4	12.5	10.6	9.7	9.7	9.7
52.5°	36.7	29.9	23.2	18.3	14.5	12.5	9.7	7.7	6.8	6.8	6.8
55°	32.8	27.0	20.3	15.4	12.5	9.7	6.8	4.8	3.9	3.9	3.9
57.5°	30.9	24.1	17.4	13.5	9.7	6.8	3.9	2.9	2.9	1.9	2.9
60°	28.0	21.2	14.5	10.6	7.7	4.8	2.9	1.0	1.0	1.0	1.0
62.5°	24.1	18.3	12.5	8.7	5.8	2.9	1.0	0.0	0.0	0.0	0.0
65°	20.3	14.5	9.7	6.8	3.9	1.0	0.0	0.0	0.0	0.0	0.0
67.5°	17.4	12.5	7.7	4.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	15.4	10.6	5.8	3.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	12.5	8.7	4.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	10.6	6.8	2.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.7	4.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.8	3.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1226.0	1220.2	1249.2	1296.5	1320.6	1367.9	1379.5	1409.4	1401.7	1412.3
5°	1014.6	1026.2	1068.6	1138.1	1163.2	1231.8	1296.5	1361.1	1402.6	1422.9
7.5°	753.0	791.6	843.7	907.4	972.1	1061.9	1171.9	1247.2	1287.8	1331.2
10°	560.9	602.4	662.2	725.0	830.2	930.6	1040.6	1134.3	1169.0	1209.6
12.5°	441.2	505.8	575.3	642.9	705.7	801.2	937.4	1073.5	1111.1	1142.0
15°	307.0	386.1	485.6	573.4	661.3	744.3	885.2	1050.3	1101.5	1153.6
17.5°	169.9	232.6	346.6	470.1	599.5	726.9	902.6	1092.8	1170.0	1206.7
20°	98.5	123.6	204.7	351.4	522.3	689.3	911.3	1172.9	1275.2	1293.6
22.5°	81.1	89.8	115.8	220.1	427.6	665.1	955.7	1284.9	1389.1	1432.6
25°	69.5	76.3	89.8	132.3	323.4	614.0	983.7	1424.8	1521.4	1568.7
27.5°	61.8	68.5	79.2	97.5	220.1	543.5	1030.0	1551.3	1647.8	1712.5
30°	54.1	59.9	70.5	83.0	152.5	464.3	1069.6	1644.0	1780.1	1800.4
32.5°	48.3	53.1	60.8	71.4	112.9	352.4	1101.5	1739.6	1854.4	1898.8
35°	41.5	47.3	52.1	60.8	85.9	265.5	1082.2	1813.9	1963.5	2016.6
37.5°	36.7	40.5	45.4	51.2	72.4	207.5	1042.6	1902.7	2057.2	2106.4
40°	30.9	33.8	39.6	45.4	65.6	160.2	997.2	2009.8	2188.4	2275.3
42.5°	26.1	29.0	32.8	42.5	54.1	118.7	905.5	2092.9	2294.6	2368.0
45°	20.3	24.1	29.9	42.5	43.4	87.8	810.9	2154.7	2354.5	2391.2
47.5°	15.4	19.3	29.0	36.7	34.8	60.8	698.9	2225.1	2416.3	2450.0
50°	11.6	15.4	32.8	31.9	29.0	46.3	628.4	2274.4	2420.1	2438.5
52.5°	7.7	11.6	27.0	24.1	24.1	40.5	609.1	2272.4	2429.8	2390.2
55°	5.8	8.7	15.4	17.4	21.2	35.7	591.8	2344.8	2432.7	2460.7
57.5°	3.9	6.8	10.6	13.5	18.3	30.9	556.0	2431.7	2522.4	2536.9
60°	1.9	4.8	7.7	10.6	15.4	27.0	505.8	2495.4	2631.5	2647.0
62.5°	1.0	2.9	5.8	8.7	12.5	21.2	453.7	2394.1	2584.2	2611.3
65°	0.0	1.9	3.9	5.8	7.7	15.4	368.8	2161.4	2397.0	2496.4
67.5°	0.0	0.0	1.9	3.9	4.8	11.6	278.0	1966.4	2224.2	2359.3
70°	0.0	0.0	1.0	1.0	2.9	8.7	177.6	1628.5	1985.7	2060.0
72.5°	0.0	0.0	0.0	0.0	1.0	5.8	103.3	1209.6	1556.1	1694.2
75°	0.0	0.0	0.0	0.0	0.0	4.8	52.1	778.1	1083.1	1268.5
77.5°	0.0	0.0	0.0	0.0	0.0	3.9	28.0	502.0	798.3	953.8
80°	0.0	0.0	0.0	0.0	0.0	1.0	16.4	291.5	510.7	618.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.8	142.9	305.0	357.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.9	76.3	152.5	200.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	10.6	20.3
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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