

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: P677245

Luminaire Tested: **CCW-SA-2B-722-U-SLL-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677245
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-722-U-SLL-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
SLL distribution lens and House Side Shield
Light Source: (32) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3690.9 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

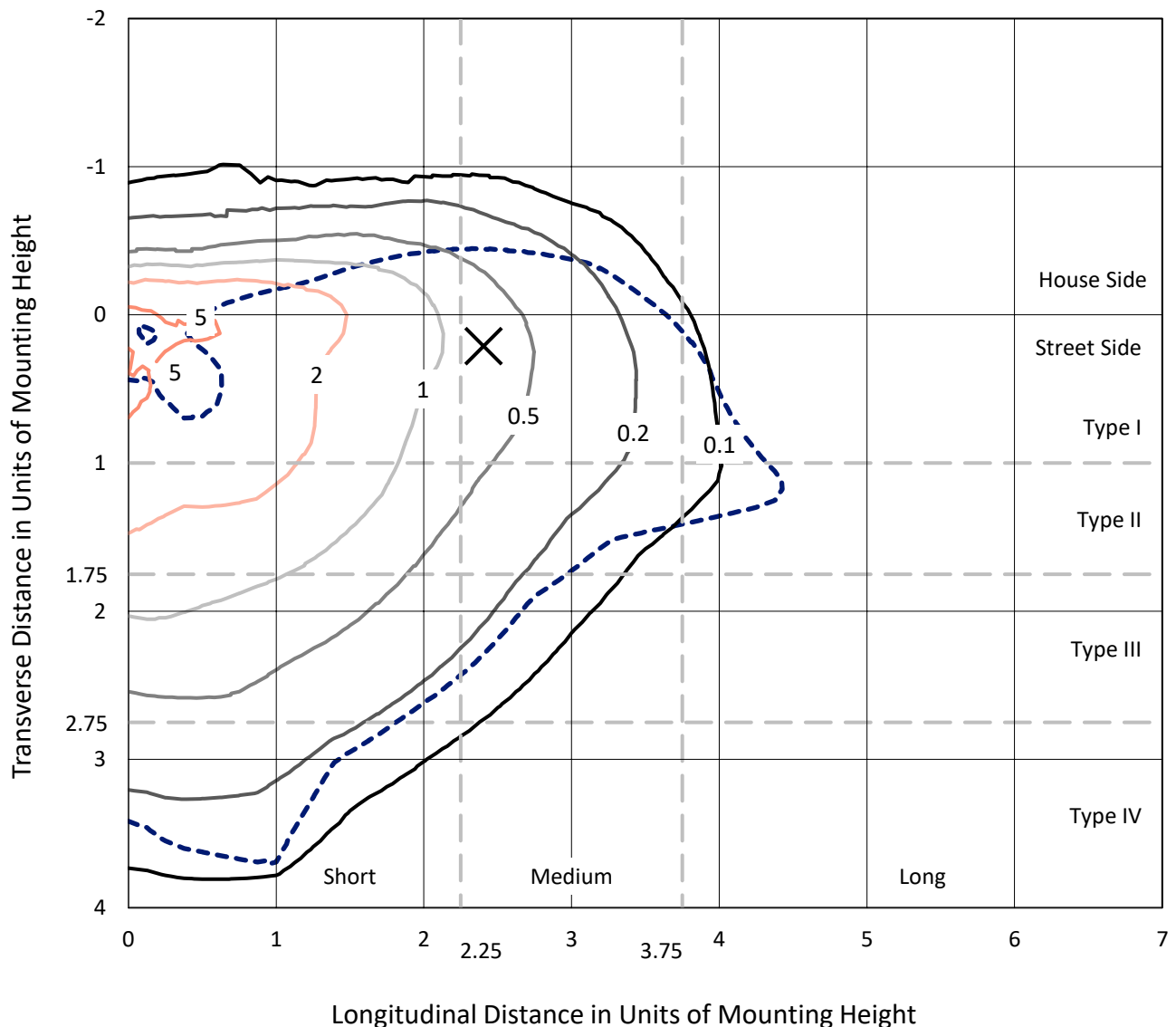
Input Watts (W): 46
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

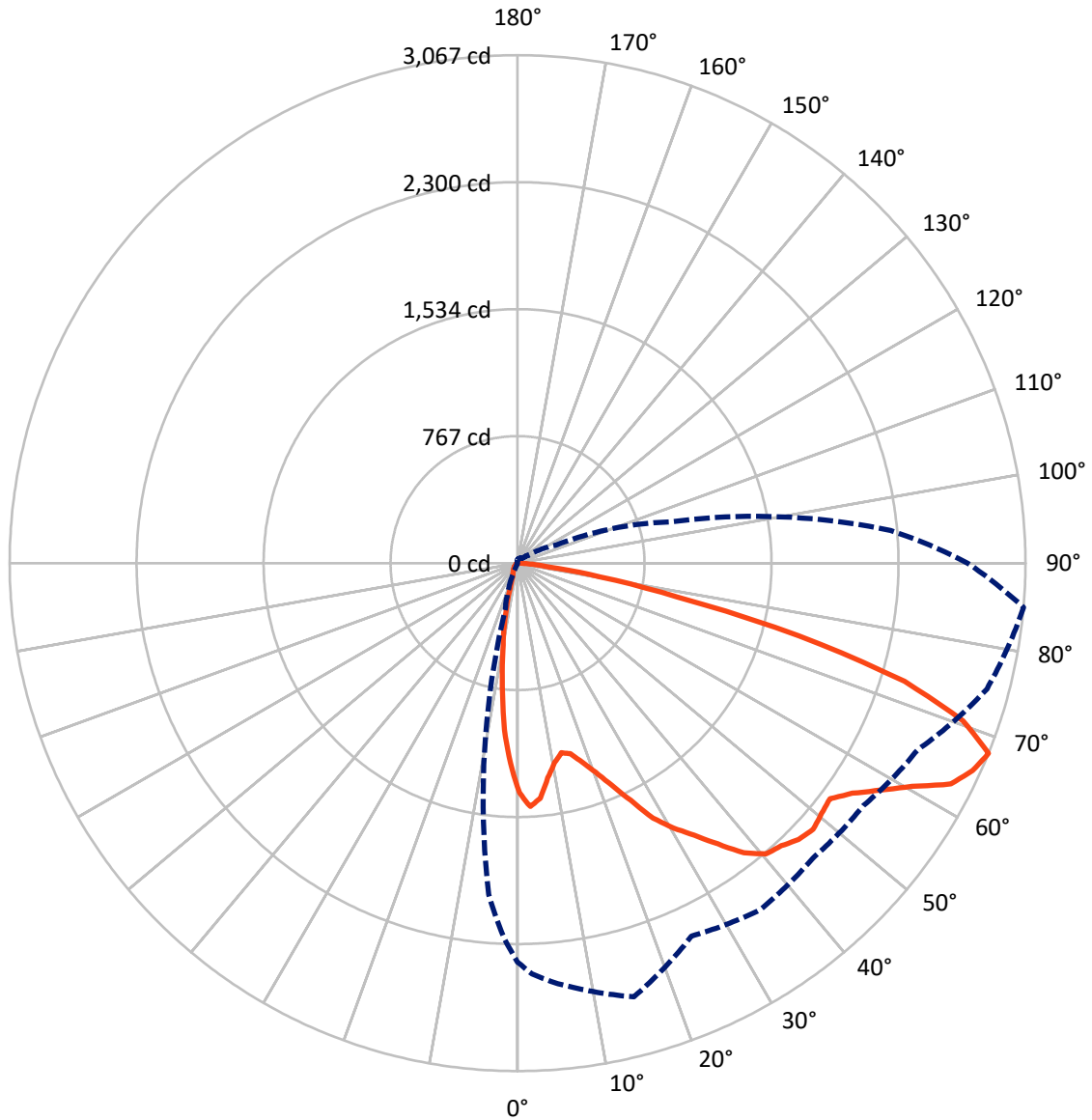
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.9 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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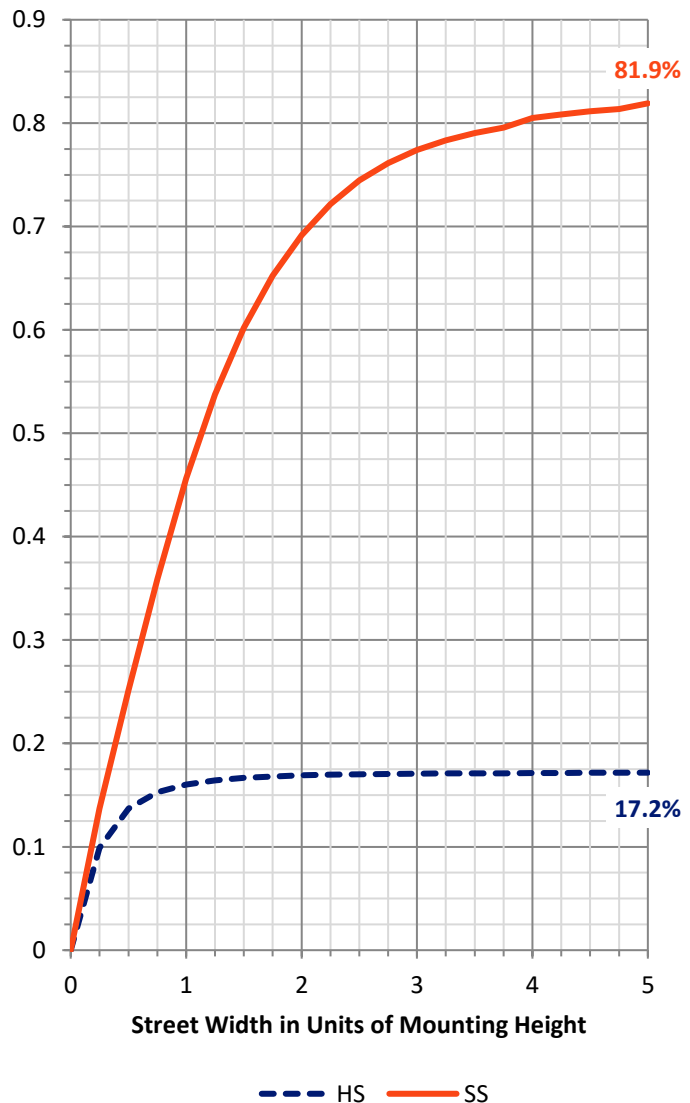
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	640.9	0.0	640.9
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	3050.0	0.0	3050.0
	% Fixture	82.6	0.0	82.6
Total	Lumens	3690.9	0.0	3690.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.4	2.9
10°-20°	206.7	5.6
20°-30°	286.1	7.8
30°-40°	404.3	11.0
40°-50°	550.5	14.9
50°-60°	729.1	19.8
60°-70°	846.5	22.9
70°-80°	479.4	13.0
80°-90°	82.8	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°	3690.9	100.0
0°-180°	3690.9	100.0



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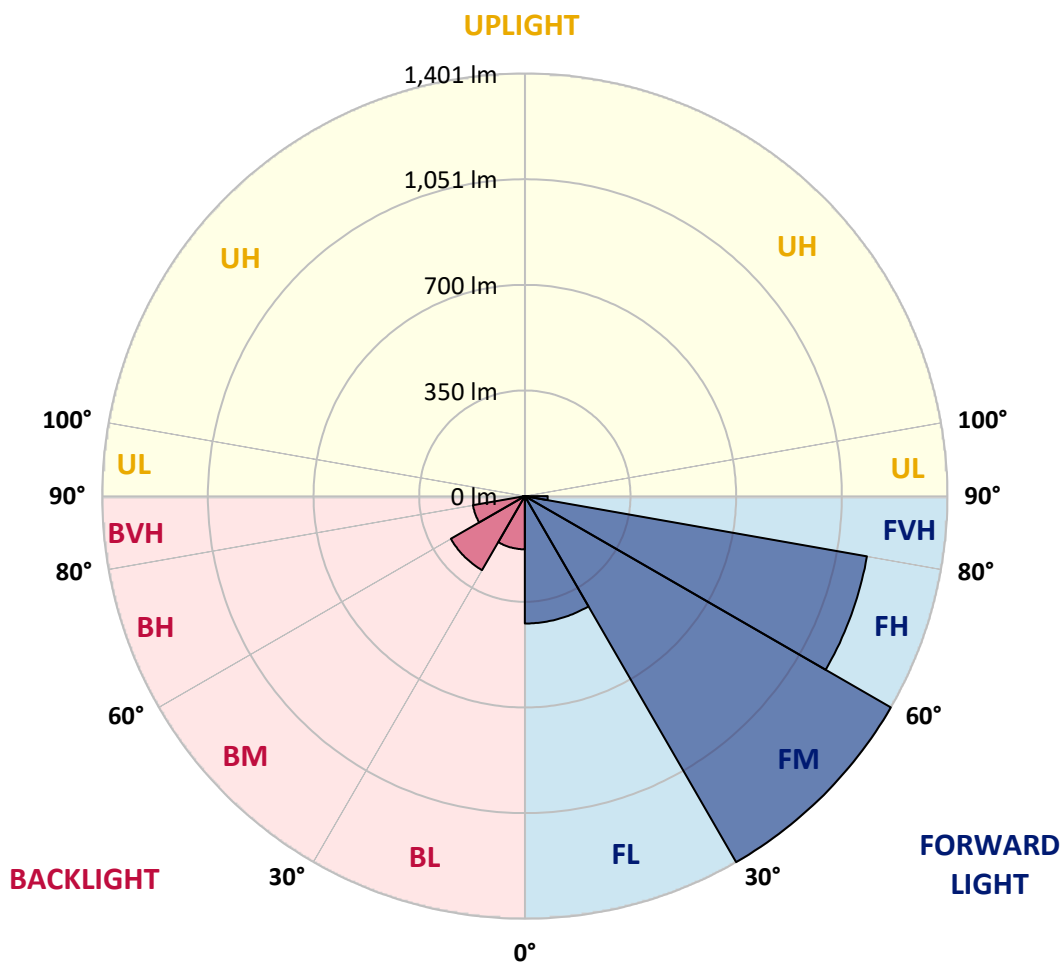
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	422.1	11.4			
FM (30°-60°)	1400.7	38.0			
FH (60°-80°)	1151.4	31.2			G1/1800
FVH (80°-90°)	75.9	2.1			G1/100
BL (0°-30°)	176.2	4.8	B1/500		
BM (30°-60°)	283.2	7.7	B1/1000		
BH (60°-80°)	174.5	4.7	B1/500		G1/500
BVH (80°-90°)	7.0	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°	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8
2.5°	1442.0	1472.5	1473.5	1487.3	1501.1	1501.1	1533.6	1525.7	1497.2	1492.2	1471.5
5°	1452.8	1463.6	1471.5	1541.5	1600.6	1594.7	1612.5	1600.6	1545.5	1474.5	1426.2
7.5°	1359.2	1371.0	1402.5	1521.8	1601.6	1628.2	1661.8	1587.8	1529.7	1401.6	1308.9
10°	1235.0	1257.7	1315.8	1451.8	1550.4	1635.1	1635.1	1576.0	1463.6	1338.5	1225.1
12.5°	1166.0	1211.3	1242.9	1380.9	1509.0	1567.1	1565.2	1533.6	1460.7	1303.0	1174.9
15°	1177.8	1190.6	1257.7	1365.1	1449.8	1446.9	1482.4	1472.5	1421.3	1334.5	1193.6
17.5°	1232.0	1251.7	1309.9	1365.1	1405.5	1393.7	1392.7	1440.0	1442.9	1387.8	1263.6
20°	1320.7	1378.9	1406.5	1423.2	1374.0	1323.7	1317.8	1383.8	1435.1	1455.8	1347.3
22.5°	1462.7	1501.1	1557.3	1471.5	1343.4	1280.3	1268.5	1341.4	1444.9	1536.6	1455.8
25°	1601.6	1631.2	1685.4	1575.0	1377.9	1271.4	1250.8	1313.8	1482.4	1648.9	1586.8
27.5°	1748.5	1774.1	1780.0	1650.9	1396.6	1253.7	1229.1	1313.8	1513.9	1708.1	1743.6
30°	1838.2	1868.7	1874.6	1717.9	1427.2	1268.5	1256.7	1319.7	1535.6	1758.3	1855.9
32.5°	1938.7	1946.6	1941.7	1729.8	1460.7	1311.9	1262.6	1359.2	1560.2	1818.5	1958.4
35°	2059.0	2072.8	2022.5	1784.0	1535.6	1339.5	1321.7	1407.5	1602.6	1846.1	2082.6
37.5°	2150.6	2194.0	2080.6	1804.7	1550.4	1397.6	1400.6	1508.0	1632.2	1879.6	2219.6
40°	2323.1	2250.2	2179.2	1875.6	1606.6	1496.2	1480.4	1611.5	1731.7	1901.3	2309.3
42.5°	2417.7	2379.3	2217.6	1882.5	1693.3	1632.2	1636.1	1728.8	1784.0	1962.4	2333.9
45°	2441.4	2401.0	2269.9	1887.5	1779.0	1792.8	1860.8	1878.6	1860.8	2002.8	2380.3
47.5°	2501.5	2413.8	2264.0	1953.5	1918.0	1971.2	2058.0	2096.4	1965.3	1988.0	2402.0
50°	2489.7	2439.4	2251.2	1981.1	2087.5	2228.5	2286.6	2270.9	2081.6	1957.4	2378.3
52.5°	2440.4	2386.2	2290.6	2056.0	2246.2	2416.7	2497.6	2458.1	2185.1	2026.4	2362.5
55°	2512.3	2470.9	2341.8	2157.5	2365.5	2582.3	2639.5	2609.9	2312.3	2090.5	2452.2
57.5°	2590.2	2581.3	2480.8	2276.8	2506.4	2752.8	2752.8	2716.4	2422.7	2183.1	2585.3
60°	2702.6	2722.3	2583.3	2355.6	2554.7	2743.0	2885.9	2843.5	2534.0	2345.8	2736.1
62.5°	2666.1	2729.2	2715.4	2525.2	2609.9	2791.3	2869.1	2900.7	2672.0	2543.9	2937.1
65°	2548.8	2615.8	2714.4	2636.5	2568.5	2674.0	2713.4	2809.0	2741.0	2730.2	3019.9
67.5°	2408.9	2481.8	2542.9	2711.4	2484.7	2554.7	2520.2	2550.8	2666.1	2934.2	3067.2
70°	2103.3	2173.3	2269.9	2544.9	2263.0	2199.9	2191.0	2176.2	2355.6	2861.3	2852.4
72.5°	1729.8	1762.3	1922.0	2068.8	1674.6	1662.7	1676.5	1659.8	1867.7	2590.2	2443.4
75°	1295.1	1327.6	1418.3	1588.8	1140.4	1072.4	1151.2	1229.1	1426.2	2010.7	1755.4
77.5°	973.8	1015.2	1072.4	1188.7	836.8	730.3	741.2	815.1	1031.0	1610.5	983.6
80°	631.8	626.9	737.2	818.1	629.8	649.5	621.9	676.1	747.1	861.4	502.7
82.5°	364.7	369.6	415.9	469.2	438.6	501.7	361.7	604.2	533.2	350.9	187.3
85°	205.0	213.9	256.3	325.3	275.0	184.3	150.8	299.6	335.1	143.9	90.7
87.5°	20.7	17.7	34.5	123.2	74.9	30.6	45.3	72.0	80.8	54.2	26.6
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°	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8
2.5°	1442.0	1442.0	1417.3	1375.9	1359.2	1329.6	1289.2	1302.0	1288.2	1237.9	1225.1
5°	1382.8	1335.5	1284.3	1221.2	1184.7	1109.8	1086.2	1043.8	1050.7	1008.3	1010.3
7.5°	1259.6	1222.2	1135.4	1052.6	980.7	915.6	824.0	789.5	756.0	739.2	758.9
10°	1187.7	1117.7	999.4	891.0	795.4	737.2	676.1	628.8	585.5	552.9	546.0
12.5°	1135.4	1073.3	930.4	798.4	723.4	676.1	620.0	554.9	512.5	456.3	439.6
15°	1119.7	1043.8	893.0	761.9	688.9	611.1	547.0	483.0	427.8	368.6	347.9
17.5°	1173.9	1086.2	892.0	732.3	629.8	546.0	457.3	385.4	329.2	275.0	262.2
20°	1265.5	1131.5	920.6	714.6	573.6	461.3	360.7	288.8	225.7	190.2	181.4
22.5°	1370.0	1208.4	923.5	667.3	517.5	376.5	263.2	190.2	154.7	138.0	133.1
25°	1498.1	1331.6	959.0	628.8	451.4	285.8	187.3	145.9	125.2	115.3	113.3
27.5°	1603.6	1417.3	997.4	588.4	386.4	211.9	146.9	119.3	108.4	98.6	97.6
30°	1713.0	1515.9	1008.3	563.8	330.2	174.5	126.2	105.5	93.6	88.7	87.7
32.5°	1808.6	1623.3	1042.8	523.4	277.0	153.8	114.3	94.6	86.7	78.8	77.9
35°	1931.8	1685.4	1059.5	501.7	257.2	139.0	104.5	86.7	74.9	70.0	68.0
37.5°	2063.9	1745.5	1070.4	484.9	240.5	130.1	98.6	81.8	71.0	64.1	62.1
40°	2187.1	1830.3	1054.6	464.2	227.7	119.3	94.6	75.9	66.0	59.1	56.2
42.5°	2281.7	1913.1	1049.7	444.5	213.9	115.3	89.7	72.9	62.1	54.2	53.2
45°	2334.9	1969.3	1015.2	428.7	203.0	117.3	87.7	69.0	59.1	52.2	48.3
47.5°	2322.1	2012.6	1024.1	423.8	188.3	109.4	86.7	66.0	54.2	48.3	45.3
50°	2393.1	2100.4	1009.3	408.0	177.4	98.6	94.6	66.0	53.2	46.3	43.4
52.5°	2404.9	2180.2	1040.8	379.5	160.7	90.7	93.6	65.1	51.3	44.4	40.4
55°	2503.5	2272.8	1101.9	363.7	146.9	78.8	85.7	63.1	46.3	40.4	38.4
57.5°	2637.5	2465.0	1141.3	348.9	128.1	69.0	72.0	62.1	42.4	37.5	34.5
60°	2766.6	2541.9	1144.3	322.3	110.4	62.1	56.2	62.1	39.4	33.5	30.6
62.5°	2863.2	2541.9	1124.6	299.6	96.6	55.2	49.3	59.1	35.5	29.6	27.6
65°	2811.0	2473.9	1073.3	280.9	87.7	48.3	42.4	45.3	31.5	25.6	23.7
67.5°	2717.4	2262.0	960.0	258.2	86.7	42.4	36.5	33.5	27.6	22.7	20.7
70°	2567.5	1976.2	799.3	232.6	84.8	38.4	32.5	28.6	24.6	19.7	17.7
72.5°	2068.8	1632.2	656.4	217.8	82.8	33.5	27.6	24.6	20.7	16.8	14.8
75°	1433.1	1042.8	505.6	186.3	80.8	30.6	25.6	21.7	17.7	13.8	12.8
77.5°	859.5	696.8	326.2	140.0	53.2	24.6	21.7	16.8	14.8	11.8	10.8
80°	402.1	329.2	132.1	54.2	25.6	17.7	14.8	12.8	11.8	9.9	8.9
82.5°	157.7	139.0	64.1	31.5	20.7	13.8	11.8	10.8	9.9	7.9	6.9
85°	84.8	74.9	30.6	21.7	14.8	9.9	9.9	8.9	7.9	6.9	5.9
87.5°	18.7	13.8	12.8	12.8	10.8	7.9	7.9	6.9	5.9	4.9	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°	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8
2.5°	1218.2	1233.0	1209.4	1224.1	1203.4	1219.2	1221.2	1206.4	1210.3	1230.1	1238.9
5°	1037.9	1028.0	1006.3	999.4	1000.4	987.6	992.5	999.4	1010.3	1016.2	1033.9
7.5°	748.1	770.8	769.8	786.5	787.5	785.5	771.7	742.2	752.0	744.1	754.0
10°	535.2	545.0	563.8	574.6	594.3	583.5	551.9	540.1	534.2	533.2	543.1
12.5°	427.8	404.1	402.1	406.1	415.9	403.1	387.3	373.5	380.4	394.2	405.1
15°	331.2	311.5	285.8	281.9	283.9	277.9	261.2	243.4	248.4	262.2	270.1
17.5°	254.3	231.6	213.9	202.1	198.1	177.4	152.8	138.0	134.0	133.1	140.0
20°	171.5	167.6	164.6	149.8	149.8	120.2	99.5	88.7	88.7	90.7	91.7
22.5°	128.1	123.2	124.2	121.2	113.3	89.7	78.8	75.9	75.9	77.9	77.9
25°	111.4	104.5	102.5	101.5	93.6	76.9	69.0	66.0	66.0	68.0	68.0
27.5°	94.6	92.6	89.7	85.7	78.8	66.0	61.1	58.2	59.1	60.1	59.1
30°	86.7	81.8	77.9	77.9	70.0	59.1	55.2	53.2	51.3	53.2	54.2
32.5°	76.9	73.9	72.0	69.0	60.1	52.2	48.3	46.3	45.3	45.3	46.3
35°	66.0	66.0	64.1	60.1	52.2	47.3	42.4	40.4	39.4	40.4	40.4
37.5°	59.1	56.2	57.2	53.2	46.3	41.4	36.5	34.5	34.5	33.5	34.5
40°	55.2	50.3	47.3	45.3	41.4	35.5	31.5	29.6	28.6	28.6	28.6
42.5°	49.3	45.3	39.4	38.4	37.5	30.6	25.6	24.6	23.7	22.7	22.7
45°	46.3	40.4	35.5	30.6	30.6	25.6	21.7	19.7	18.7	17.7	18.7
47.5°	42.4	36.5	30.6	25.6	24.6	20.7	16.8	14.8	13.8	13.8	13.8
50°	40.4	32.5	26.6	21.7	18.7	16.8	12.8	10.8	9.9	9.9	9.9
52.5°	37.5	30.6	23.7	18.7	14.8	12.8	9.9	7.9	6.9	6.9	6.9
55°	33.5	27.6	20.7	15.8	12.8	9.9	6.9	4.9	3.9	3.9	3.9
57.5°	31.5	24.6	17.7	13.8	9.9	6.9	3.9	3.0	3.0	2.0	3.0
60°	28.6	21.7	14.8	10.8	7.9	4.9	3.0	1.0	1.0	1.0	1.0
62.5°	24.6	18.7	12.8	8.9	5.9	3.0	1.0	0.0	0.0	0.0	0.0
65°	20.7	14.8	9.9	6.9	3.9	1.0	0.0	0.0	0.0	0.0	0.0
67.5°	17.7	12.8	7.9	4.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	15.8	10.8	5.9	3.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	12.8	8.9	4.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	10.8	6.9	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.9	4.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.9	3.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.9	3.0	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°	3.0	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°	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8
2.5°	1251.7	1245.8	1275.4	1323.7	1348.3	1396.6	1408.5	1439.0	1431.1	1442.0
5°	1035.9	1047.7	1091.1	1162.0	1187.7	1257.7	1323.7	1389.7	1432.1	1452.8
7.5°	768.8	808.2	861.4	926.5	992.5	1084.2	1196.5	1273.4	1314.8	1359.2
10°	572.6	615.0	676.1	740.2	847.6	950.1	1062.5	1158.1	1193.6	1235.0
12.5°	450.4	516.5	587.4	656.4	720.5	818.1	957.0	1096.0	1134.4	1166.0
15°	313.4	394.2	495.8	585.5	675.1	759.9	903.8	1072.4	1124.6	1177.8
17.5°	173.5	237.5	353.8	480.0	612.1	742.2	921.6	1115.7	1194.6	1232.0
20°	100.5	126.2	209.0	358.8	533.2	703.7	930.4	1197.5	1302.0	1320.7
22.5°	82.8	91.7	118.3	224.7	436.6	679.1	975.8	1311.9	1418.3	1462.7
25°	71.0	77.9	91.7	135.0	330.2	626.9	1004.3	1454.8	1553.3	1601.6
27.5°	63.1	70.0	80.8	99.5	224.7	554.9	1051.7	1583.9	1682.5	1748.5
30°	55.2	61.1	72.0	84.8	155.7	474.1	1092.1	1678.5	1817.5	1838.2
32.5°	49.3	54.2	62.1	72.9	115.3	359.8	1124.6	1776.1	1893.4	1938.7
35°	42.4	48.3	53.2	62.1	87.7	271.0	1104.9	1852.0	2004.8	2059.0
37.5°	37.5	41.4	46.3	52.2	73.9	211.9	1064.5	1942.7	2100.4	2150.6
40°	31.5	34.5	40.4	46.3	67.0	163.6	1018.1	2052.1	2234.4	2323.1
42.5°	26.6	29.6	33.5	43.4	55.2	121.2	924.5	2136.8	2342.8	2417.7
45°	20.7	24.6	30.6	43.4	44.4	89.7	827.9	2199.9	2403.9	2441.4
47.5°	15.8	19.7	29.6	37.5	35.5	62.1	713.6	2271.9	2467.0	2501.5
50°	11.8	15.8	33.5	32.5	29.6	47.3	641.6	2322.1	2470.9	2489.7
52.5°	7.9	11.8	27.6	24.6	24.6	41.4	621.9	2320.1	2480.8	2440.4
55°	5.9	8.9	15.8	17.7	21.7	36.5	604.2	2394.1	2483.8	2512.3
57.5°	3.9	6.9	10.8	13.8	18.7	31.5	567.7	2482.8	2575.4	2590.2
60°	2.0	4.9	7.9	10.8	15.8	27.6	516.5	2547.8	2686.8	2702.6
62.5°	1.0	3.0	5.9	8.9	12.8	21.7	463.2	2444.3	2638.5	2666.1
65°	0.0	2.0	3.9	5.9	7.9	15.8	376.5	2206.8	2447.3	2548.8
67.5°	0.0	0.0	2.0	3.9	4.9	11.8	283.9	2007.7	2270.9	2408.9
70°	0.0	0.0	1.0	1.0	3.0	8.9	181.4	1662.7	2027.4	2103.3
72.5°	0.0	0.0	0.0	0.0	1.0	5.9	105.5	1235.0	1588.8	1729.8
75°	0.0	0.0	0.0	0.0	0.0	4.9	53.2	794.4	1105.9	1295.1
77.5°	0.0	0.0	0.0	0.0	0.0	3.9	28.6	512.5	815.1	973.8
80°	0.0	0.0	0.0	0.0	0.0	1.0	16.8	297.7	521.4	631.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.9	145.9	311.5	364.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	77.9	155.7	205.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	10.8	20.7
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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