

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: P677407

Luminaire Tested: **CCW-SA-1D-730-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677407
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-730-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
SLR distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

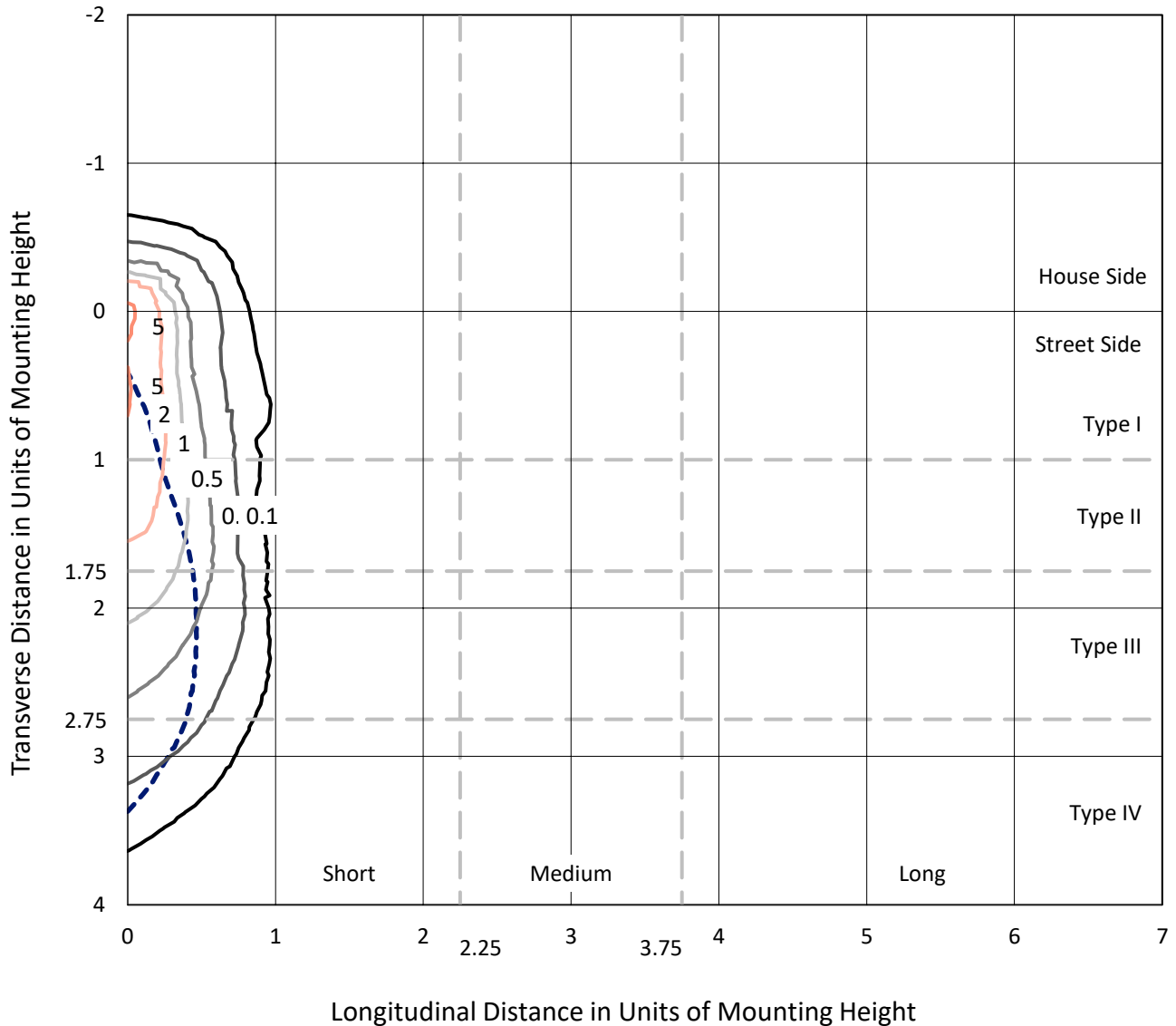
Lumens per Lamp: N/A
Luminaire Lumens: 3649.4 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
Input Voltage (V): 120
Input Current (A_{in}): 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

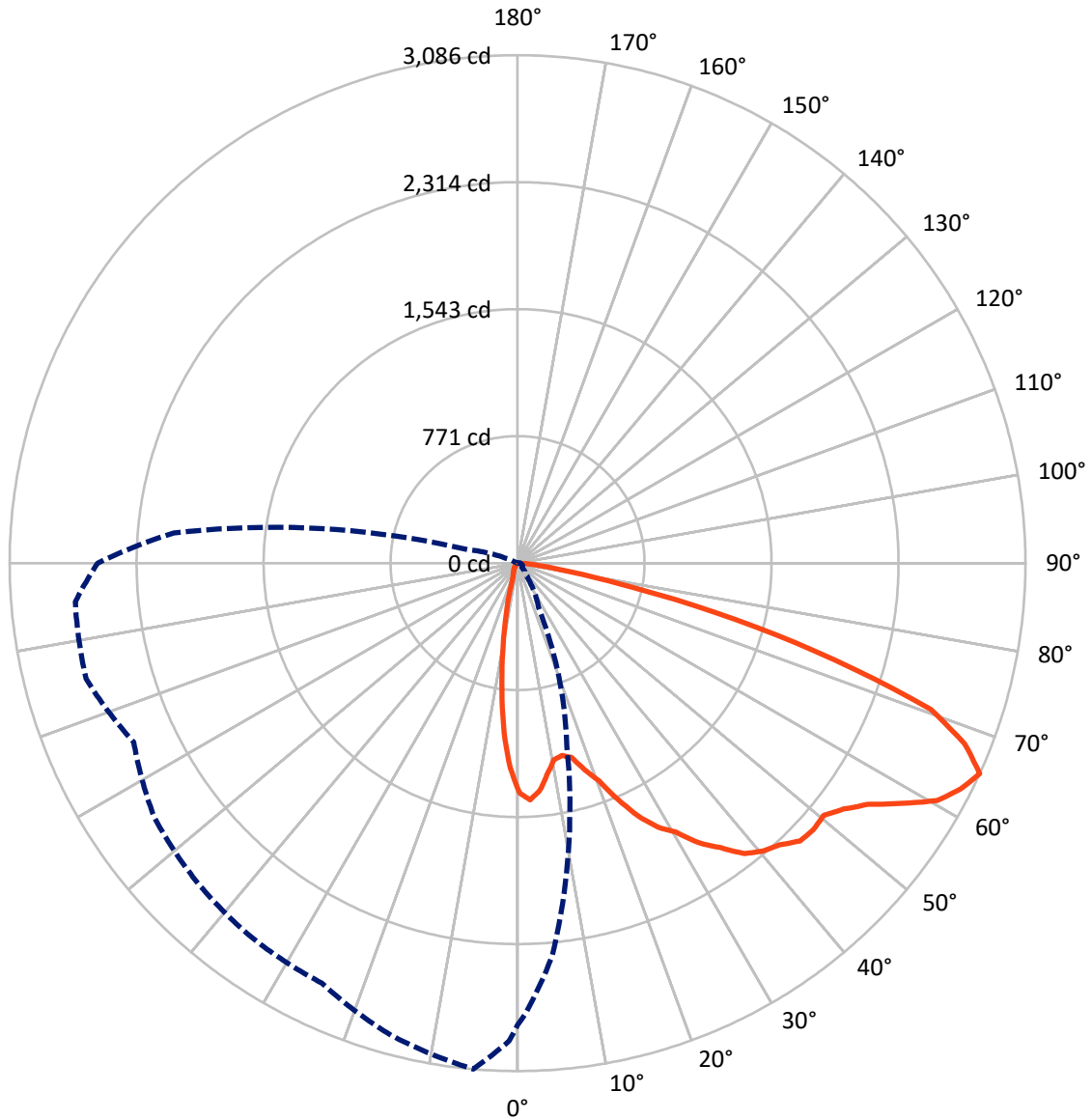
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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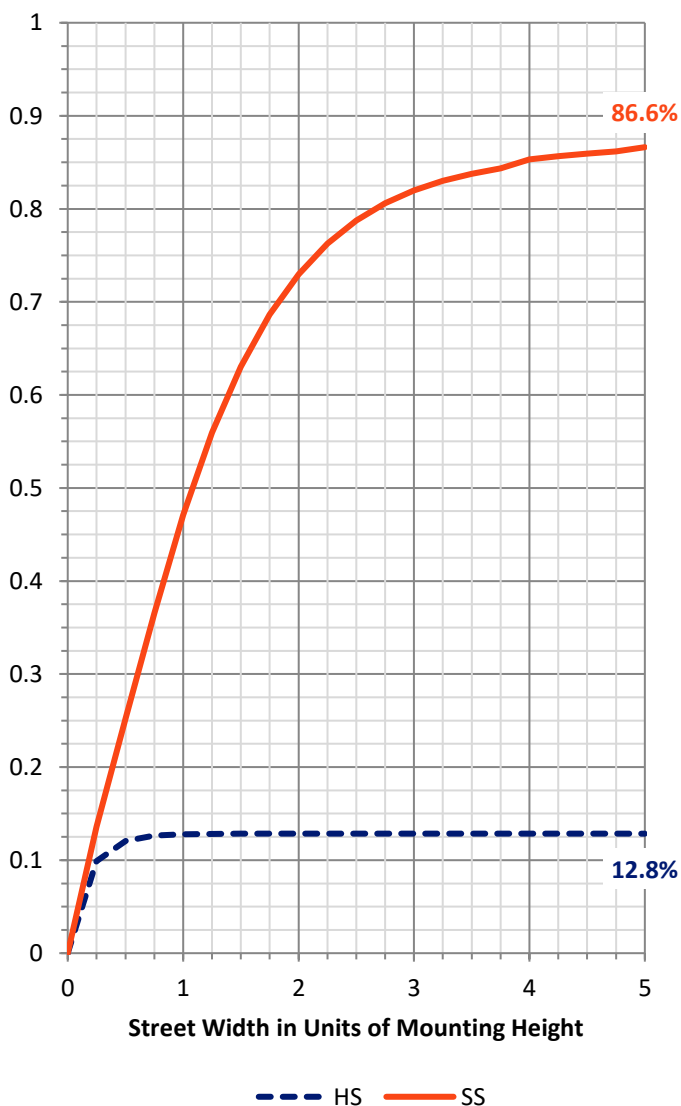
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	473.8	0.0	473.8
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	3175.6	0.0	3175.6
	% Fixture	87.0	0.0	87.0
Total	Lumens	3649.4	0.0	3649.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.7	2.9
10°-20°	204.6	5.6
20°-30°	285.0	7.8
30°-40°	405.0	11.1
40°-50°	561.6	15.4
50°-60°	765.2	21.0
60°-70°	841.3	23.1
70°-80°	413.5	11.3
80°-90°	67.5	1.9
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°	3649.4	100.0
0°-180°	3649.4	100.0



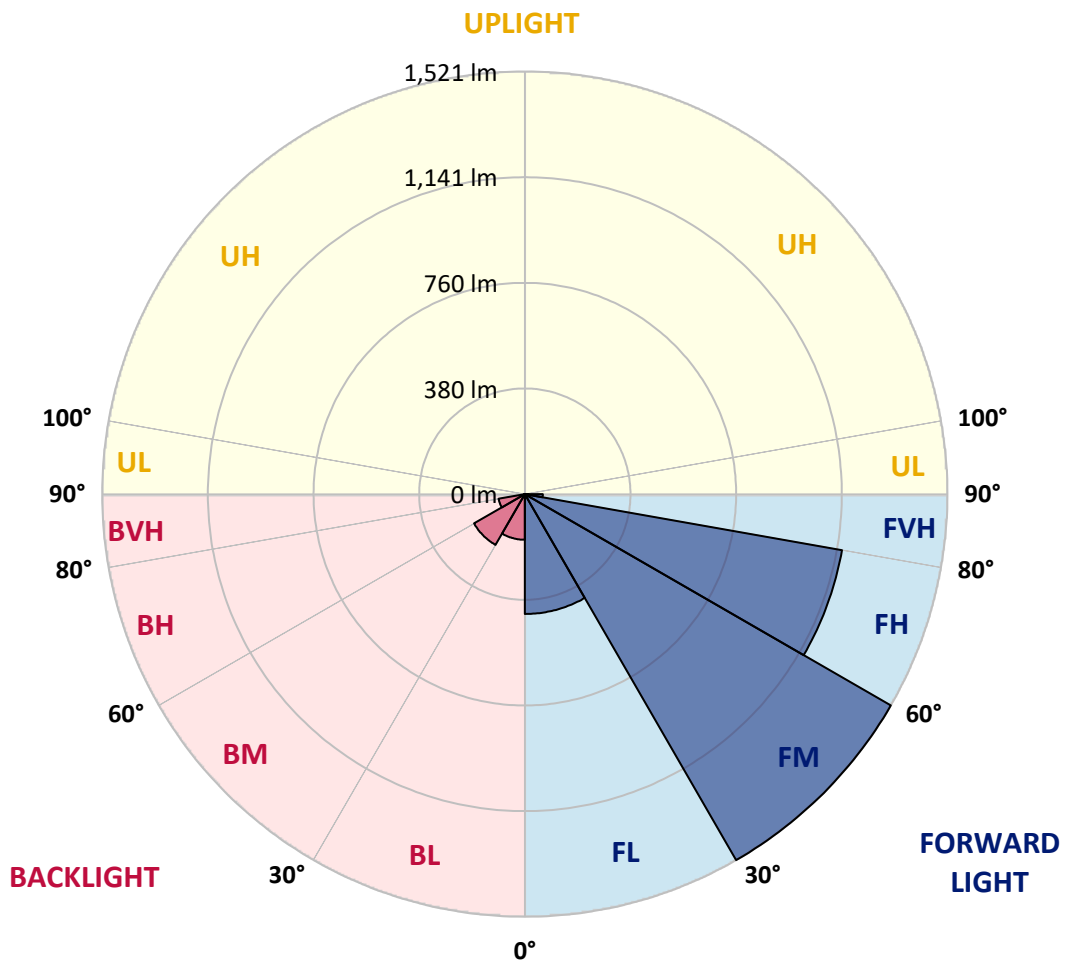
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	431.3	11.8			
FM (30°-60°)	1520.8	41.7			
FH (60°-80°)	1159.0	31.8			G1/1800
FVH (80°-90°)	64.5	1.8			G1/100
BL (0°-30°)	164.1	4.5	B1/500		
BM (30°-60°)	211.0	5.8	B0/220		
BH (60°-80°)	95.8	2.6	B0/110		G0/110
BVH (80°-90°)	3.0	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1395.2	1395.2	1395.2	1395.2	1395.2	1395.2	1395.2	1395.2	1395.2	1395.2	1395.2
2.5°	1423.7	1440.4	1424.7	1369.6	1359.8	1333.2	1292.9	1289.9	1247.6	1252.5	1229.9
5°	1338.1	1354.8	1321.4	1248.6	1180.7	1126.6	1094.1	1036.1	1023.3	994.7	994.7
7.5°	1250.5	1249.6	1192.5	1131.5	1030.1	930.8	885.5	801.9	752.7	726.1	700.5
10°	1177.7	1162.0	1126.6	1000.6	890.4	787.1	731.0	675.9	624.8	580.5	536.2
12.5°	1126.6	1136.4	1080.3	943.6	800.9	729.1	669.1	611.0	550.0	499.8	450.6
15°	1153.1	1137.4	1071.5	930.8	786.1	687.8	608.1	537.2	469.3	403.4	366.0
17.5°	1235.8	1195.4	1117.7	930.8	755.6	624.8	528.4	444.7	371.9	312.9	266.6
20°	1347.0	1300.7	1217.1	965.2	733.0	578.5	446.7	341.4	265.7	210.6	175.1
22.5°	1461.1	1424.7	1298.8	979.0	706.4	516.6	352.2	247.0	177.1	141.7	124.0
25°	1597.9	1546.7	1409.0	1034.1	667.1	456.5	277.5	172.2	131.8	113.1	102.3
27.5°	1707.1	1698.2	1512.3	1067.5	637.6	407.3	219.4	136.8	109.2	95.4	88.6
30°	1844.8	1796.6	1638.2	1134.4	604.1	351.3	183.0	123.0	100.4	85.6	80.7
32.5°	1927.5	1904.8	1704.1	1171.8	566.7	305.0	157.4	108.2	91.5	80.7	75.8
35°	2047.5	2002.2	1798.6	1195.4	547.1	278.4	141.7	98.4	76.7	65.9	60.0
37.5°	2181.3	2164.6	1911.7	1194.5	518.5	262.7	130.9	91.5	72.8	61.0	54.1
40°	2318.1	2250.2	1980.6	1222.0	503.8	250.9	123.0	87.6	68.9	58.1	49.2
42.5°	2420.4	2342.7	2060.3	1212.2	486.0	230.2	120.0	81.7	65.9	53.1	45.3
45°	2448.0	2420.4	2132.1	1209.2	473.3	213.5	115.1	80.7	64.0	50.2	42.3
47.5°	2501.1	2482.4	2220.7	1214.1	463.4	200.7	103.3	82.6	61.0	47.2	40.3
50°	2524.7	2491.2	2292.5	1225.9	440.8	185.0	92.5	86.6	60.0	46.2	38.4
52.5°	2622.1	2592.6	2390.9	1259.4	422.1	164.3	81.7	82.6	62.0	43.3	36.4
55°	2717.5	2684.1	2542.4	1336.1	395.5	147.6	69.9	72.8	59.0	39.4	32.5
57.5°	2848.4	2793.3	2643.8	1367.6	371.9	125.0	62.0	60.0	55.1	35.4	28.5
60°	2868.1	2890.7	2629.0	1348.0	347.3	110.2	54.1	46.2	59.0	31.5	24.6
62.5°	2934.0	2839.6	2560.1	1302.7	329.6	101.3	48.2	38.4	51.2	27.5	20.7
65°	2807.1	2737.2	2398.8	1157.1	307.0	102.3	42.3	31.5	32.5	22.6	16.7
67.5°	2621.1	2566.0	2131.1	998.7	284.3	100.4	37.4	27.5	24.6	19.7	14.8
70°	2300.4	2181.3	1810.4	810.7	250.9	93.5	31.5	24.6	20.7	15.7	10.8
72.5°	1673.6	1625.4	1298.8	626.7	225.3	84.6	29.5	20.7	17.7	11.8	8.9
75°	1126.6	1046.9	819.6	411.3	181.0	73.8	24.6	18.7	13.8	8.9	6.9
77.5°	595.3	562.8	464.4	195.8	100.4	34.4	13.8	10.8	7.9	6.9	3.9
80°	257.8	229.3	200.7	79.7	35.4	15.7	8.9	5.9	4.9	3.9	2.0
82.5°	131.8	125.9	104.3	34.4	20.7	11.8	4.9	3.9	3.0	2.0	1.0
85°	64.9	66.9	55.1	10.8	11.8	6.9	1.0	1.0	0.0	0.0	0.0
87.5°	4.9	4.9	3.9	2.0	3.0	1.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1395.2	1395.2	1395.2	1395.2	1395.2	1395.2	1395.2	1395.2	1395.2	1395.2	1395.2
2.5°	1221.0	1234.8	1211.2	1225.9	1219.1	1222.0	1225.0	1217.1	1219.1	1246.6	1247.6
5°	978.0	1004.6	994.7	1008.5	1032.1	1020.3	1031.1	1029.2	1031.1	1035.1	1052.8
7.5°	697.6	689.7	708.4	744.8	787.1	812.7	799.9	793.0	789.1	779.3	791.1
10°	526.4	522.5	517.5	528.4	555.9	584.4	600.2	573.6	558.9	540.2	533.3
12.5°	436.9	412.3	398.5	381.8	389.6	415.2	416.2	390.6	367.0	357.2	368.0
15°	344.4	327.6	303.0	279.4	267.6	287.3	270.6	246.0	215.5	211.5	210.6
17.5°	246.0	236.1	218.4	208.6	194.8	189.9	172.2	134.8	113.1	107.2	109.2
20°	167.3	159.4	158.4	149.6	143.7	139.7	111.2	86.6	79.7	80.7	81.7
22.5°	124.0	120.0	115.1	114.1	109.2	104.3	81.7	72.8	67.9	67.9	70.8
25°	101.3	99.4	94.5	92.5	90.5	83.6	68.9	62.0	60.0	58.1	61.0
27.5°	86.6	85.6	82.6	79.7	77.7	70.8	60.0	54.1	52.1	52.1	52.1
30°	77.7	77.7	73.8	67.9	67.9	60.0	51.2	47.2	45.3	45.3	44.3
32.5°	72.8	70.8	65.9	62.0	59.0	51.2	45.3	41.3	38.4	38.4	39.4
35°	59.0	59.0	58.1	55.1	51.2	43.3	38.4	34.4	32.5	31.5	32.5
37.5°	52.1	49.2	45.3	46.2	44.3	37.4	32.5	29.5	26.6	26.6	26.6
40°	47.2	44.3	40.3	37.4	36.4	33.5	28.5	23.6	20.7	19.7	19.7
42.5°	42.3	40.3	34.4	29.5	28.5	28.5	21.6	17.7	14.8	14.8	14.8
45°	39.4	36.4	31.5	25.6	20.7	21.6	17.7	12.8	10.8	9.8	9.8
47.5°	37.4	34.4	27.5	21.6	15.7	15.7	12.8	8.9	6.9	5.9	5.9
50°	34.4	31.5	24.6	17.7	11.8	9.8	7.9	4.9	3.0	2.0	2.0
52.5°	32.5	29.5	21.6	14.8	9.8	6.9	4.9	1.0	0.0	0.0	0.0
55°	29.5	25.6	18.7	11.8	7.9	3.9	1.0	0.0	0.0	0.0	0.0
57.5°	25.6	22.6	14.8	8.9	4.9	1.0	0.0	0.0	0.0	0.0	0.0
60°	21.6	18.7	11.8	6.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	17.7	15.7	8.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	14.8	11.8	6.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	12.8	9.8	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	9.8	6.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6.9	4.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	4.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1395.2	1395.2	1395.2	1395.2	1395.2	1395.2	1395.2	1395.2	1395.2	1395.2	1395.2
2.5°	1251.5	1281.0	1308.6	1316.5	1338.1	1398.1	1398.1	1426.7	1477.8	1496.5	1500.5
5°	1055.7	1087.2	1093.1	1154.1	1182.7	1243.7	1284.0	1380.4	1438.5	1474.9	1497.5
7.5°	802.9	813.7	836.3	893.4	949.5	1023.3	1100.0	1223.0	1325.3	1366.6	1443.4
10°	552.0	584.4	633.6	684.8	772.4	854.0	953.4	1069.5	1195.4	1246.6	1312.5
12.5°	371.9	417.2	495.9	568.7	649.4	732.0	826.5	981.9	1124.6	1195.4	1261.4
15°	217.4	272.5	340.4	458.5	565.7	658.2	752.7	910.1	1083.3	1174.8	1255.5
17.5°	110.2	126.9	183.0	285.3	427.0	578.5	719.2	920.0	1114.8	1226.9	1293.8
20°	82.6	87.6	103.3	151.5	292.2	478.2	687.8	934.7	1202.3	1339.1	1375.5
22.5°	71.8	75.8	82.6	98.4	164.3	366.0	643.5	971.1	1321.4	1450.3	1527.0
25°	61.0	64.9	70.8	80.7	105.3	248.9	589.4	1009.5	1427.6	1590.0	1661.8
27.5°	53.1	56.1	62.0	69.9	85.6	158.4	495.9	1060.7	1590.0	1759.2	1777.9
30°	45.3	48.2	53.1	62.0	72.8	112.2	364.0	1067.5	1679.5	1833.0	1885.2
32.5°	39.4	40.3	46.2	54.1	61.0	88.6	255.8	1074.4	1745.4	1928.5	1939.3
35°	32.5	34.4	40.3	45.3	53.1	69.9	193.8	1040.0	1831.0	2026.8	2023.9
37.5°	26.6	29.5	33.5	37.4	43.3	59.0	154.5	976.0	1938.3	2179.4	2086.9
40°	20.7	23.6	27.5	32.5	36.4	53.1	116.1	879.6	2050.5	2254.1	2155.7
42.5°	14.8	16.7	20.7	25.6	32.5	44.3	83.6	765.5	2094.7	2341.7	2238.4
45°	10.8	12.8	15.7	21.6	33.5	35.4	58.1	661.2	2142.0	2380.1	2219.7
47.5°	5.9	7.9	11.8	18.7	29.5	26.6	41.3	567.7	2196.1	2414.5	2234.5
50°	2.0	3.0	6.9	19.7	23.6	20.7	32.5	517.5	2249.2	2421.4	2264.0
52.5°	0.0	0.0	3.9	20.7	17.7	15.7	28.5	497.9	2235.4	2443.0	2245.3
55°	0.0	0.0	1.0	8.9	9.8	11.8	23.6	496.9	2332.8	2449.9	2347.6
57.5°	0.0	0.0	0.0	3.0	5.9	9.8	20.7	465.4	2394.8	2621.1	2485.3
60°	0.0	0.0	0.0	1.0	3.9	6.9	15.7	437.8	2457.8	2697.9	2632.9
62.5°	0.0	0.0	0.0	0.0	1.0	3.0	10.8	395.5	2330.9	2692.0	2775.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	6.9	312.9	2096.7	2551.3	2696.9
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.9	216.5	1836.0	2374.2	2552.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	130.9	1481.8	2081.9	2164.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.1	1057.7	1653.0	1776.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.6	654.3	1208.2	1359.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	424.1	915.0	1032.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	226.3	573.6	667.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.4	348.3	401.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.5	211.5	241.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5	43.3
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1395.2	1395.2	1395.2	1395.2	1395.2	1395.2	1395.2	1395.2	1395.2	1395.2
2.5°	1502.4	1531.0	1541.8	1525.1	1527.0	1492.6	1487.7	1439.5	1419.8	1423.7
5°	1571.3	1612.6	1635.3	1616.6	1574.2	1508.3	1448.3	1391.2	1355.8	1338.1
7.5°	1555.6	1601.8	1630.3	1648.0	1599.8	1493.6	1402.1	1294.8	1249.6	1250.5
10°	1469.0	1565.4	1623.4	1600.8	1578.2	1471.9	1330.2	1214.1	1173.8	1177.7
12.5°	1399.1	1506.4	1540.8	1558.5	1512.3	1427.6	1332.2	1199.4	1154.1	1126.6
15°	1355.8	1435.5	1437.5	1465.0	1446.3	1446.3	1352.9	1223.0	1183.6	1153.1
17.5°	1355.8	1373.5	1371.6	1381.4	1412.9	1450.3	1405.0	1318.4	1240.7	1235.8
20°	1386.3	1331.2	1318.4	1322.4	1348.9	1460.1	1520.1	1411.9	1362.7	1347.0
22.5°	1457.2	1336.1	1258.4	1244.6	1326.3	1459.1	1593.9	1559.5	1473.9	1461.1
25°	1554.6	1327.3	1242.7	1225.0	1286.9	1494.6	1695.3	1702.2	1624.4	1597.9
27.5°	1647.1	1366.6	1240.7	1236.8	1318.4	1486.7	1765.1	1816.3	1728.7	1707.1
30°	1678.5	1406.0	1277.1	1225.0	1330.2	1515.2	1763.2	1897.0	1839.9	1844.8
32.5°	1715.9	1445.4	1281.0	1260.4	1380.4	1561.5	1819.2	2026.8	1985.5	1927.5
35°	1771.0	1498.5	1318.4	1299.7	1415.8	1602.8	1831.0	2122.3	2115.4	2047.5
37.5°	1818.3	1550.6	1396.2	1399.1	1524.1	1669.7	1883.2	2239.4	2227.6	2181.3
40°	1851.7	1623.4	1517.2	1525.1	1618.5	1744.5	1975.7	2298.4	2386.0	2318.1
42.5°	1856.6	1688.4	1655.9	1718.9	1806.5	1860.6	2013.1	2338.7	2464.7	2420.4
45°	1875.3	1791.7	1882.2	1928.5	2000.3	1962.9	2011.1	2407.6	2470.6	2448.0
47.5°	1948.1	1979.6	2093.8	2234.5	2260.0	2137.0	2058.3	2418.4	2504.0	2501.1
50°	2023.9	2181.3	2341.7	2435.2	2467.6	2257.1	2102.6	2409.6	2548.3	2524.7
52.5°	2108.5	2356.5	2587.7	2702.8	2685.1	2389.9	2152.8	2481.4	2630.0	2622.1
55°	2161.6	2435.2	2746.1	2906.5	2892.7	2538.5	2312.2	2584.7	2737.2	2717.5
57.5°	2302.3	2563.1	2903.5	2978.3	3014.7	2733.3	2423.4	2754.0	2826.8	2848.4
60°	2418.4	2646.7	2944.8	3053.1	3065.9	2849.4	2618.2	2928.1	2940.9	2868.1
62.5°	2588.7	2679.2	2857.3	2954.7	3020.6	2915.3	2793.3	3021.6	2938.9	2934.0
65°	2713.6	2572.9	2693.9	2748.0	2790.4	2815.0	2969.4	3085.5	2902.5	2807.1
67.5°	2643.8	2372.2	2349.6	2352.5	2365.3	2513.9	2910.4	2929.1	2699.8	2621.1
70°	2326.9	1946.2	1915.7	1939.3	1875.3	2054.4	2671.3	2662.4	2382.0	2300.4
72.5°	1882.2	1418.8	1366.6	1399.1	1413.9	1603.8	2247.2	2019.0	1737.6	1673.6
75°	1495.5	1040.0	877.6	956.4	1006.5	1167.9	1755.3	1371.6	1213.2	1126.6
77.5°	1174.8	787.1	682.8	651.3	697.6	849.1	1277.1	720.2	635.6	595.3
80°	744.8	578.5	627.7	582.5	602.2	606.1	665.1	327.6	260.7	257.8
82.5°	448.7	395.5	470.3	258.8	471.3	421.1	276.5	148.6	131.8	131.8
85°	317.8	245.0	162.3	105.3	209.6	231.2	107.2	76.7	66.9	64.9
87.5°	159.4	75.8	36.4	23.6	26.6	43.3	12.8	5.9	5.9	4.9
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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