

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: P677252

Luminaire Tested: **CCW-SA-1D-727-U-SLL-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677252
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-727-U-SLL-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
SLL distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

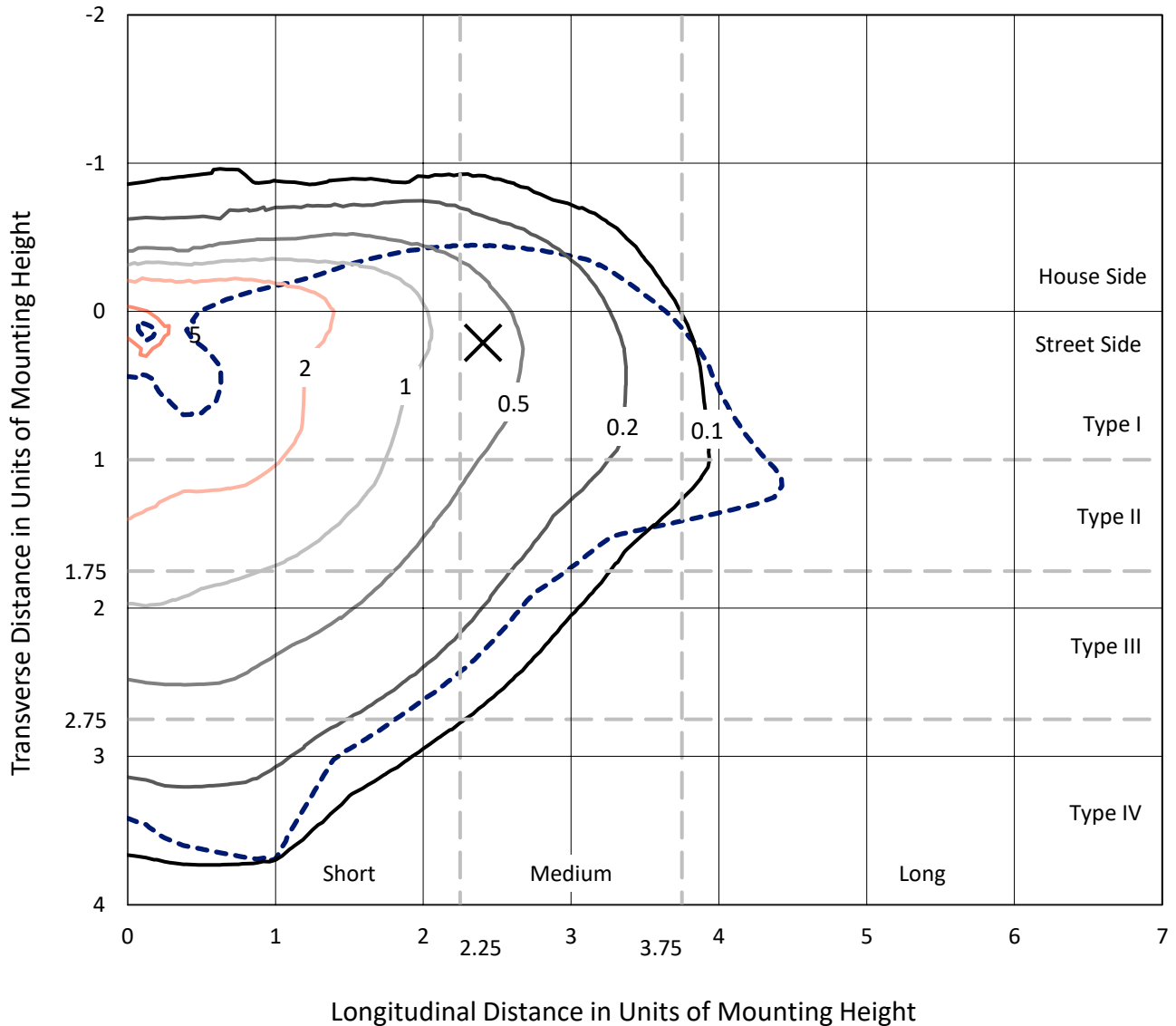
Lumens per Lamp: N/A
Luminaire Lumens: 3383.9 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

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

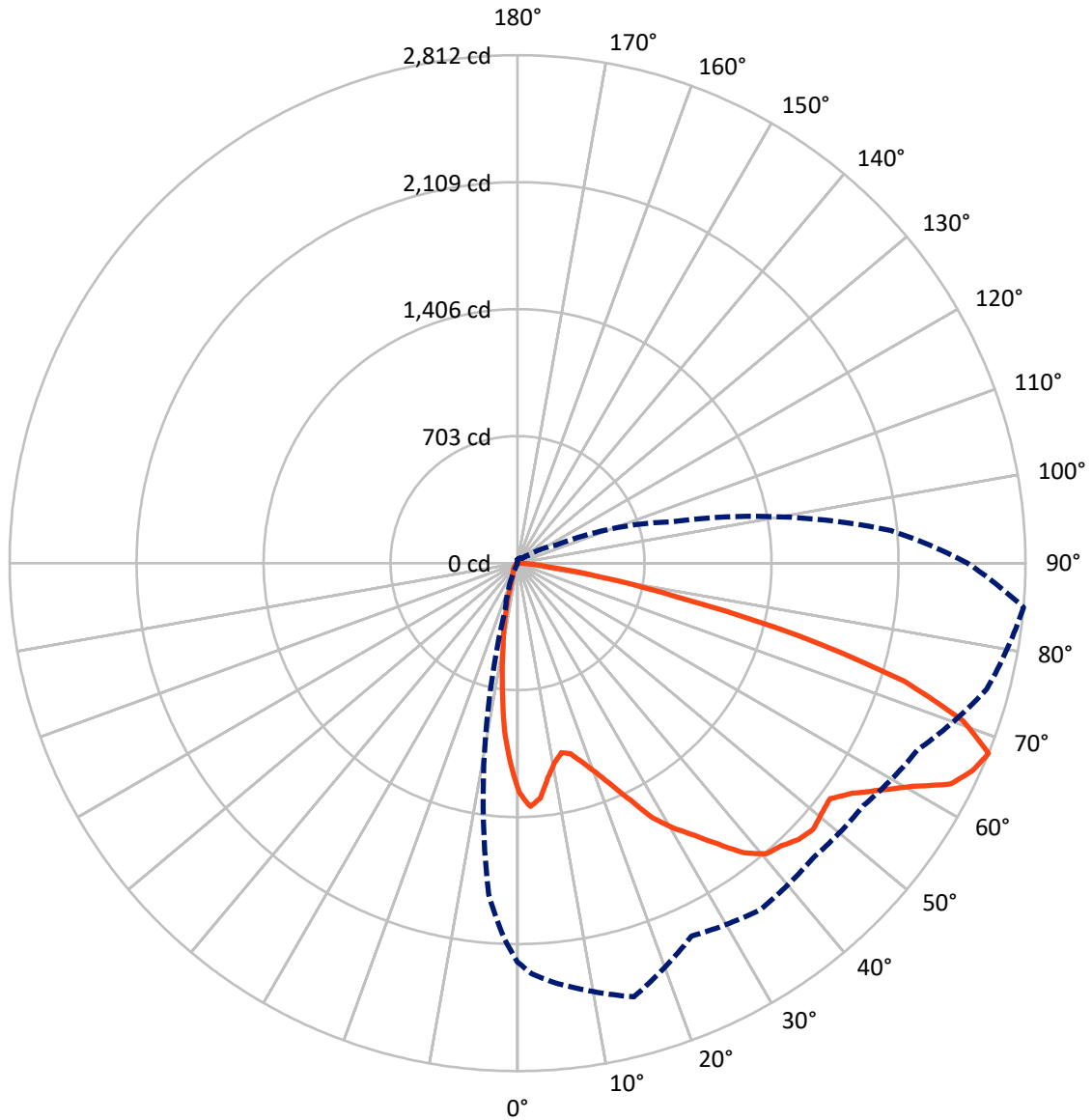
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.4 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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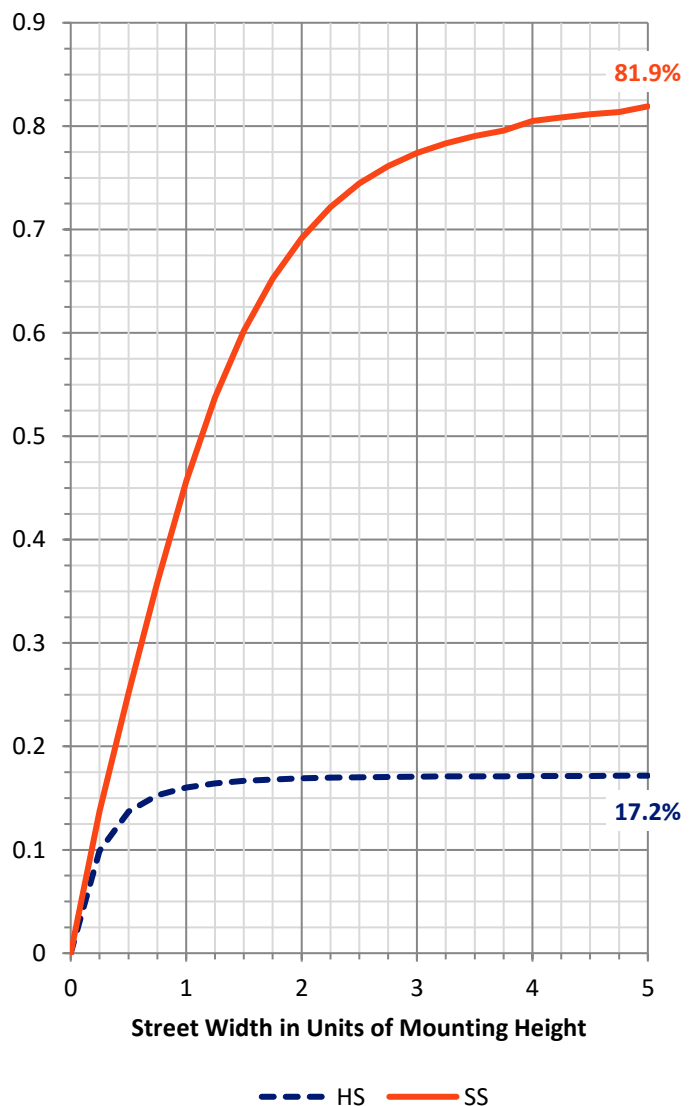
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	587.5	0.0	587.5
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	2796.3	0.0	2796.3
	% Fixture	82.6	0.0	82.6
Total	Lumens	3383.9	0.0	3383.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.7	2.9
10°-20°	189.5	5.6
20°-30°	262.3	7.8
30°-40°	370.7	11.0
40°-50°	504.7	14.9
50°-60°	668.4	19.8
60°-70°	776.1	22.9
70°-80°	439.5	13.0
80°-90°	75.9	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°	3383.9	100.0
0°-180°	3383.9	100.0

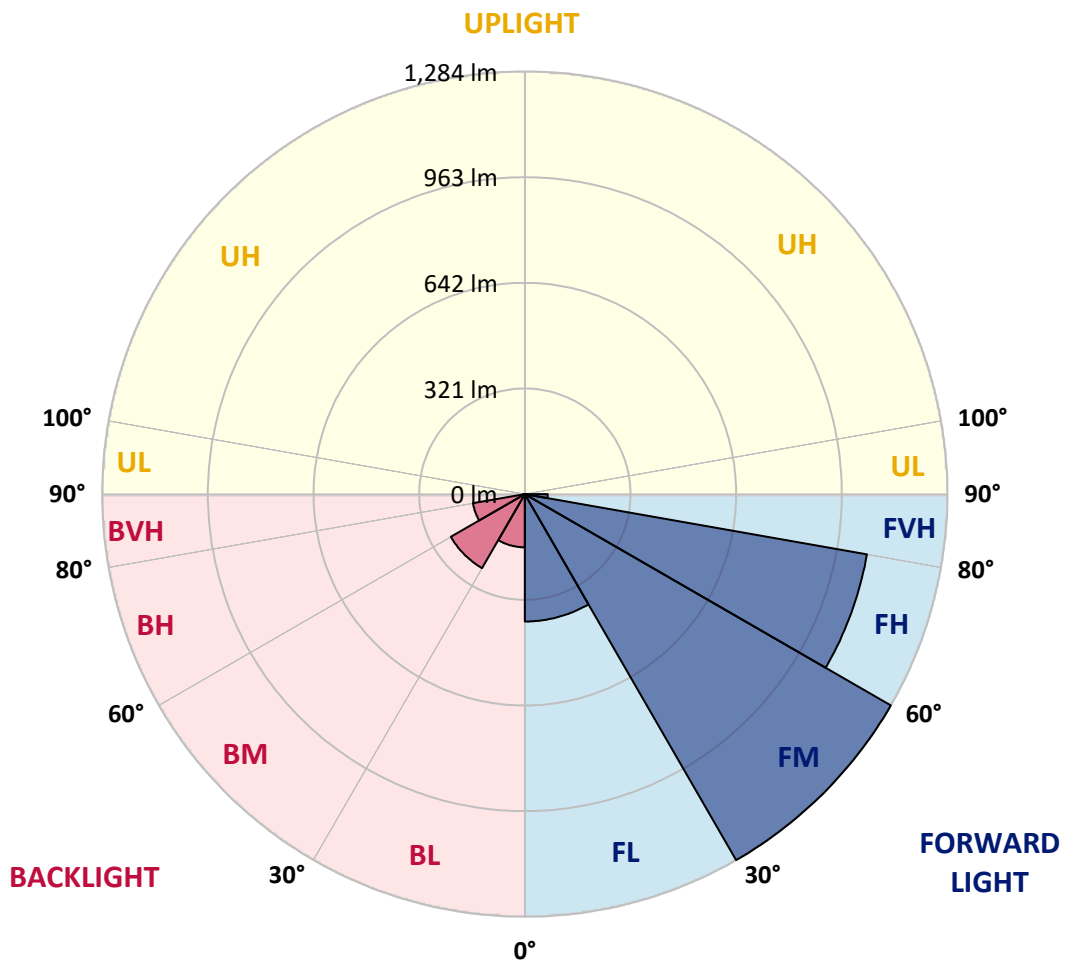


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	387.0	11.4			
FM (30°-60°)	1284.2	38.0			
FH (60°-80°)	1055.6	31.2			G1/1800
FVH (80°-90°)	69.5	2.1			G1/100
BL (0°-30°)	161.5	4.8	B1/500		
BM (30°-60°)	259.6	7.7	B1/1000		
BH (60°-80°)	160.0	4.7	B1/500		G1/500
BVH (80°-90°)	6.4	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°	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3
2.5°	1322.0	1350.0	1350.9	1363.6	1376.2	1376.2	1406.1	1398.8	1372.6	1368.1	1349.1
5°	1332.0	1341.9	1349.1	1413.3	1467.5	1462.1	1478.3	1467.5	1416.9	1351.8	1307.6
7.5°	1246.1	1257.0	1285.9	1395.2	1468.4	1492.8	1523.5	1455.8	1402.4	1285.0	1200.0
10°	1132.3	1153.0	1206.4	1331.1	1421.4	1499.1	1499.1	1444.9	1341.9	1227.1	1123.2
12.5°	1069.0	1110.6	1139.5	1266.0	1383.5	1436.8	1435.0	1406.1	1339.2	1194.6	1077.1
15°	1079.8	1091.6	1153.0	1251.5	1329.2	1326.5	1359.1	1350.0	1303.0	1223.5	1094.3
17.5°	1129.5	1147.6	1200.9	1251.5	1288.6	1277.7	1276.8	1320.2	1322.9	1272.3	1158.5
20°	1210.9	1264.2	1289.5	1304.8	1259.7	1213.6	1208.2	1268.7	1315.7	1334.7	1235.3
22.5°	1341.0	1376.2	1427.7	1349.1	1231.7	1173.8	1163.0	1229.8	1324.7	1408.8	1334.7
25°	1468.4	1495.5	1545.2	1444.0	1263.3	1165.7	1146.7	1204.5	1359.1	1511.8	1454.9
27.5°	1603.0	1626.5	1632.0	1513.6	1280.4	1149.4	1126.8	1204.5	1388.0	1566.0	1598.5
30°	1685.3	1713.3	1718.7	1575.0	1308.5	1163.0	1152.1	1210.0	1407.9	1612.1	1701.5
32.5°	1777.4	1784.7	1780.2	1585.9	1339.2	1202.7	1157.6	1246.1	1430.5	1667.2	1795.5
35°	1887.7	1900.3	1854.3	1635.6	1407.9	1228.0	1211.8	1290.4	1469.3	1692.5	1909.4
37.5°	1971.7	2011.5	1907.6	1654.6	1421.4	1281.4	1284.1	1382.6	1496.4	1723.2	2035.0
40°	2129.9	2063.0	1997.9	1719.6	1472.9	1371.7	1357.3	1477.4	1587.7	1743.1	2117.2
42.5°	2216.6	2181.4	2033.2	1725.9	1552.4	1496.4	1500.0	1585.0	1635.6	1799.1	2139.8
45°	2238.3	2201.3	2081.1	1730.5	1631.1	1643.7	1706.1	1722.3	1706.1	1836.2	2182.3
47.5°	2293.4	2213.0	2075.6	1791.0	1758.5	1807.3	1886.8	1922.0	1801.8	1822.6	2202.2
50°	2282.6	2236.5	2063.9	1816.3	1913.9	2043.1	2096.4	2082.0	1908.5	1794.6	2180.5
52.5°	2237.4	2187.7	2100.0	1885.0	2059.4	2215.7	2289.8	2253.7	2003.4	1857.9	2166.0
55°	2303.4	2265.4	2147.0	1978.1	2168.7	2367.5	2419.9	2392.8	2119.9	1916.6	2248.2
57.5°	2374.8	2366.6	2274.4	2087.4	2297.9	2523.9	2523.9	2490.4	2221.1	2001.5	2370.2
60°	2477.8	2495.8	2368.4	2159.7	2342.2	2514.8	2645.8	2607.0	2323.2	2150.6	2508.5
62.5°	2444.3	2502.2	2489.5	2315.1	2392.8	2559.1	2630.5	2659.4	2449.8	2332.3	2692.8
65°	2336.8	2398.2	2488.6	2417.2	2354.9	2451.6	2487.7	2575.4	2513.0	2503.1	2768.7
67.5°	2208.5	2275.4	2331.4	2485.9	2278.1	2342.2	2310.6	2338.6	2444.3	2690.1	2812.1
70°	1928.4	1992.5	2081.1	2333.2	2074.7	2016.9	2008.8	1995.2	2159.7	2623.2	2615.1
72.5°	1585.9	1615.7	1762.1	1896.7	1535.3	1524.4	1537.1	1521.7	1712.4	2374.8	2240.1
75°	1187.4	1217.2	1300.3	1456.7	1045.5	983.2	1055.4	1126.8	1307.6	1843.4	1609.4
77.5°	892.8	930.7	983.2	1089.8	767.2	669.6	679.5	747.3	945.2	1476.5	901.8
80°	579.2	574.7	675.9	750.0	577.4	595.5	570.2	619.9	685.0	789.8	460.9
82.5°	334.3	338.9	381.3	430.1	402.1	459.9	331.6	553.9	488.9	321.7	171.7
85°	188.0	196.1	234.9	298.2	252.1	169.0	138.3	274.7	307.2	131.9	83.1
87.5°	19.0	16.3	31.6	113.0	68.7	28.0	41.6	66.0	74.1	49.7	24.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3
2.5°	1322.0	1322.0	1299.4	1261.5	1246.1	1219.0	1182.0	1193.7	1181.0	1135.0	1123.2
5°	1267.8	1224.4	1177.4	1119.6	1086.2	1017.5	995.8	956.9	963.3	924.4	926.2
7.5°	1154.8	1120.5	1041.0	965.1	899.1	839.5	755.4	723.8	693.1	677.7	695.8
10°	1088.9	1024.7	916.3	816.9	729.2	675.9	619.9	576.5	536.8	506.9	500.6
12.5°	1041.0	984.1	853.0	731.9	663.3	619.9	568.4	508.7	469.9	418.4	403.0
15°	1026.5	956.9	818.7	698.5	631.6	560.3	501.5	442.8	392.2	338.0	319.0
17.5°	1076.2	995.8	817.8	671.4	577.4	500.6	419.3	353.3	301.8	252.1	240.4
20°	1160.3	1037.4	844.0	655.1	525.9	422.9	330.7	264.8	206.9	174.4	166.3
22.5°	1256.1	1107.9	846.7	611.8	474.4	345.2	241.3	174.4	141.9	126.5	122.0
25°	1373.5	1220.8	879.2	576.5	413.9	262.1	171.7	133.7	114.8	105.7	103.9
27.5°	1470.2	1299.4	914.5	539.5	354.2	194.3	134.6	109.3	99.4	90.4	89.5
30°	1570.5	1389.8	924.4	516.9	302.7	159.9	115.7	96.7	85.8	81.3	80.4
32.5°	1658.2	1488.3	956.0	479.8	253.9	141.0	104.8	86.7	79.5	72.3	71.4
35°	1771.1	1545.2	971.4	459.9	235.8	127.4	95.8	79.5	68.7	64.2	62.4
37.5°	1892.2	1600.3	981.3	444.6	220.5	119.3	90.4	75.0	65.1	58.7	56.9
40°	2005.2	1678.0	966.9	425.6	208.7	109.3	86.7	69.6	60.5	54.2	51.5
42.5°	2091.9	1754.0	962.4	407.5	196.1	105.7	82.2	66.9	56.9	49.7	48.8
45°	2140.7	1805.5	930.7	393.1	186.1	107.5	80.4	63.3	54.2	47.9	44.3
47.5°	2129.0	1845.2	938.9	388.6	172.6	100.3	79.5	60.5	49.7	44.3	41.6
50°	2194.0	1925.6	925.3	374.1	162.7	90.4	86.7	60.5	48.8	42.5	39.8
52.5°	2204.9	1998.8	954.2	347.9	147.3	83.1	85.8	59.6	47.0	40.7	37.0
55°	2295.2	2083.8	1010.3	333.4	134.6	72.3	78.6	57.8	42.5	37.0	35.2
57.5°	2418.1	2260.0	1046.4	319.9	117.5	63.3	66.0	56.9	38.9	34.3	31.6
60°	2536.5	2330.5	1049.1	295.5	101.2	56.9	51.5	56.9	36.1	30.7	28.0
62.5°	2625.1	2330.5	1031.0	274.7	88.6	50.6	45.2	54.2	32.5	27.1	25.3
65°	2577.2	2268.1	984.1	257.5	80.4	44.3	38.9	41.6	28.9	23.5	21.7
67.5°	2491.3	2073.8	880.1	236.8	79.5	38.9	33.4	30.7	25.3	20.8	19.0
70°	2354.0	1811.8	732.8	213.3	77.7	35.2	29.8	26.2	22.6	18.1	16.3
72.5°	1896.7	1496.4	601.8	199.7	75.9	30.7	25.3	22.6	19.0	15.4	13.6
75°	1313.9	956.0	463.6	170.8	74.1	28.0	23.5	19.9	16.3	12.7	11.7
77.5°	788.0	638.9	299.1	128.3	48.8	22.6	19.9	15.4	13.6	10.8	9.9
80°	368.7	301.8	121.1	49.7	23.5	16.3	13.6	11.7	10.8	9.0	8.1
82.5°	144.6	127.4	58.7	28.9	19.0	12.7	10.8	9.9	9.0	7.2	6.3
85°	77.7	68.7	28.0	19.9	13.6	9.0	9.0	8.1	7.2	6.3	5.4
87.5°	17.2	12.7	11.7	11.7	9.9	7.2	7.2	6.3	5.4	4.5	3.6
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3
2.5°	1116.9	1130.4	1108.8	1122.3	1103.3	1117.8	1119.6	1106.0	1109.7	1127.7	1135.9
5°	951.5	942.5	922.6	916.3	917.2	905.4	910.0	916.3	926.2	931.6	947.9
7.5°	685.9	706.6	705.7	721.1	722.0	720.2	707.5	680.4	689.5	682.2	691.3
10°	490.7	499.7	516.9	526.8	544.9	535.0	506.0	495.2	489.8	488.9	497.9
12.5°	392.2	370.5	368.7	372.3	381.3	369.6	355.1	342.5	348.8	361.5	371.4
15°	303.6	285.5	262.1	258.4	260.2	254.8	239.5	223.2	227.7	240.4	247.6
17.5°	233.1	212.4	196.1	185.2	181.6	162.7	140.1	126.5	122.9	122.0	128.3
20°	157.2	153.6	150.9	137.4	137.4	110.2	91.3	81.3	81.3	83.1	84.0
22.5°	117.5	113.0	113.9	111.1	103.9	82.2	72.3	69.6	69.6	71.4	71.4
25°	102.1	95.8	94.0	93.1	85.8	70.5	63.3	60.5	60.5	62.4	62.4
27.5°	86.7	84.9	82.2	78.6	72.3	60.5	56.0	53.3	54.2	55.1	54.2
30°	79.5	75.0	71.4	71.4	64.2	54.2	50.6	48.8	47.0	48.8	49.7
32.5°	70.5	67.8	66.0	63.3	55.1	47.9	44.3	42.5	41.6	41.6	42.5
35°	60.5	60.5	58.7	55.1	47.9	43.4	38.9	37.0	36.1	37.0	37.0
37.5°	54.2	51.5	52.4	48.8	42.5	38.0	33.4	31.6	31.6	30.7	31.6
40°	50.6	46.1	43.4	41.6	38.0	32.5	28.9	27.1	26.2	26.2	26.2
42.5°	45.2	41.6	36.1	35.2	34.3	28.0	23.5	22.6	21.7	20.8	20.8
45°	42.5	37.0	32.5	28.0	28.0	23.5	19.9	18.1	17.2	16.3	17.2
47.5°	38.9	33.4	28.0	23.5	22.6	19.0	15.4	13.6	12.7	12.7	12.7
50°	37.0	29.8	24.4	19.9	17.2	15.4	11.7	9.9	9.0	9.0	9.0
52.5°	34.3	28.0	21.7	17.2	13.6	11.7	9.0	7.2	6.3	6.3	6.3
55°	30.7	25.3	19.0	14.5	11.7	9.0	6.3	4.5	3.6	3.6	3.6
57.5°	28.9	22.6	16.3	12.7	9.0	6.3	3.6	2.7	2.7	1.8	2.7
60°	26.2	19.9	13.6	9.9	7.2	4.5	2.7	0.9	0.9	0.9	0.9
62.5°	22.6	17.2	11.7	8.1	5.4	2.7	0.9	0.0	0.0	0.0	0.0
65°	19.0	13.6	9.0	6.3	3.6	0.9	0.0	0.0	0.0	0.0	0.0
67.5°	16.3	11.7	7.2	4.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	14.5	9.9	5.4	3.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	11.7	8.1	4.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	9.9	6.3	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.1	4.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.3	3.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	0.9	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°	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3
2.5°	1147.6	1142.2	1169.3	1213.6	1236.2	1280.4	1291.3	1319.3	1312.1	1322.0
5°	949.7	960.6	1000.3	1065.4	1088.9	1153.0	1213.6	1274.1	1313.0	1332.0
7.5°	704.8	741.0	789.8	849.4	910.0	994.0	1097.0	1167.5	1205.4	1246.1
10°	525.0	563.9	619.9	678.6	777.1	871.1	974.1	1061.8	1094.3	1132.3
12.5°	413.0	473.5	538.6	601.8	660.6	750.0	877.4	1004.8	1040.1	1069.0
15°	287.4	361.5	454.5	536.8	619.0	696.7	828.6	983.2	1031.0	1079.8
17.5°	159.0	217.8	324.4	440.1	561.2	680.4	844.9	1022.9	1095.2	1129.5
20°	92.2	115.7	191.6	328.9	488.9	645.2	853.0	1097.9	1193.7	1210.9
22.5°	75.9	84.0	108.4	206.0	400.3	622.6	894.6	1202.7	1300.3	1341.0
25°	65.1	71.4	84.0	123.8	302.7	574.7	920.8	1333.8	1424.1	1468.4
27.5°	57.8	64.2	74.1	91.3	206.0	508.7	964.2	1452.1	1542.5	1603.0
30°	50.6	56.0	66.0	77.7	142.8	434.6	1001.2	1538.9	1666.3	1685.3
32.5°	45.2	49.7	56.9	66.9	105.7	329.8	1031.0	1628.3	1735.9	1777.4
35°	38.9	44.3	48.8	56.9	80.4	248.5	1013.0	1697.9	1838.0	1887.7
37.5°	34.3	38.0	42.5	47.9	67.8	194.3	975.9	1781.1	1925.6	1971.7
40°	28.9	31.6	37.0	42.5	61.4	150.0	933.5	1881.4	2048.5	2129.9
42.5°	24.4	27.1	30.7	39.8	50.6	111.1	847.6	1959.1	2147.9	2216.6
45°	19.0	22.6	28.0	39.8	40.7	82.2	759.1	2016.9	2204.0	2238.3
47.5°	14.5	18.1	27.1	34.3	32.5	56.9	654.2	2082.9	2261.8	2293.4
50°	10.8	14.5	30.7	29.8	27.1	43.4	588.3	2129.0	2265.4	2282.6
52.5°	7.2	10.8	25.3	22.6	22.6	38.0	570.2	2127.2	2274.4	2237.4
55°	5.4	8.1	14.5	16.3	19.9	33.4	553.9	2194.9	2277.2	2303.4
57.5°	3.6	6.3	9.9	12.7	17.2	28.9	520.5	2276.3	2361.2	2374.8
60°	1.8	4.5	7.2	9.9	14.5	25.3	473.5	2335.9	2463.3	2477.8
62.5°	0.9	2.7	5.4	8.1	11.7	19.9	424.7	2241.0	2419.0	2444.3
65°	0.0	1.8	3.6	5.4	7.2	14.5	345.2	2023.2	2243.7	2336.8
67.5°	0.0	0.0	1.8	3.6	4.5	10.8	260.2	1840.7	2082.0	2208.5
70°	0.0	0.0	0.9	0.9	2.7	8.1	166.3	1524.4	1858.8	1928.4
72.5°	0.0	0.0	0.0	0.0	0.9	5.4	96.7	1132.3	1456.7	1585.9
75°	0.0	0.0	0.0	0.0	0.0	4.5	48.8	728.3	1013.9	1187.4
77.5°	0.0	0.0	0.0	0.0	0.0	3.6	26.2	469.9	747.3	892.8
80°	0.0	0.0	0.0	0.0	0.0	0.9	15.4	272.9	478.0	579.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.3	133.7	285.5	334.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	71.4	142.8	188.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	9.9	19.0
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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