

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: P674321

Luminaire Tested: **CCP-SA-2B-830-U-SLR-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674321
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2B-830-U-SLR-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ SLR distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3943.6 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

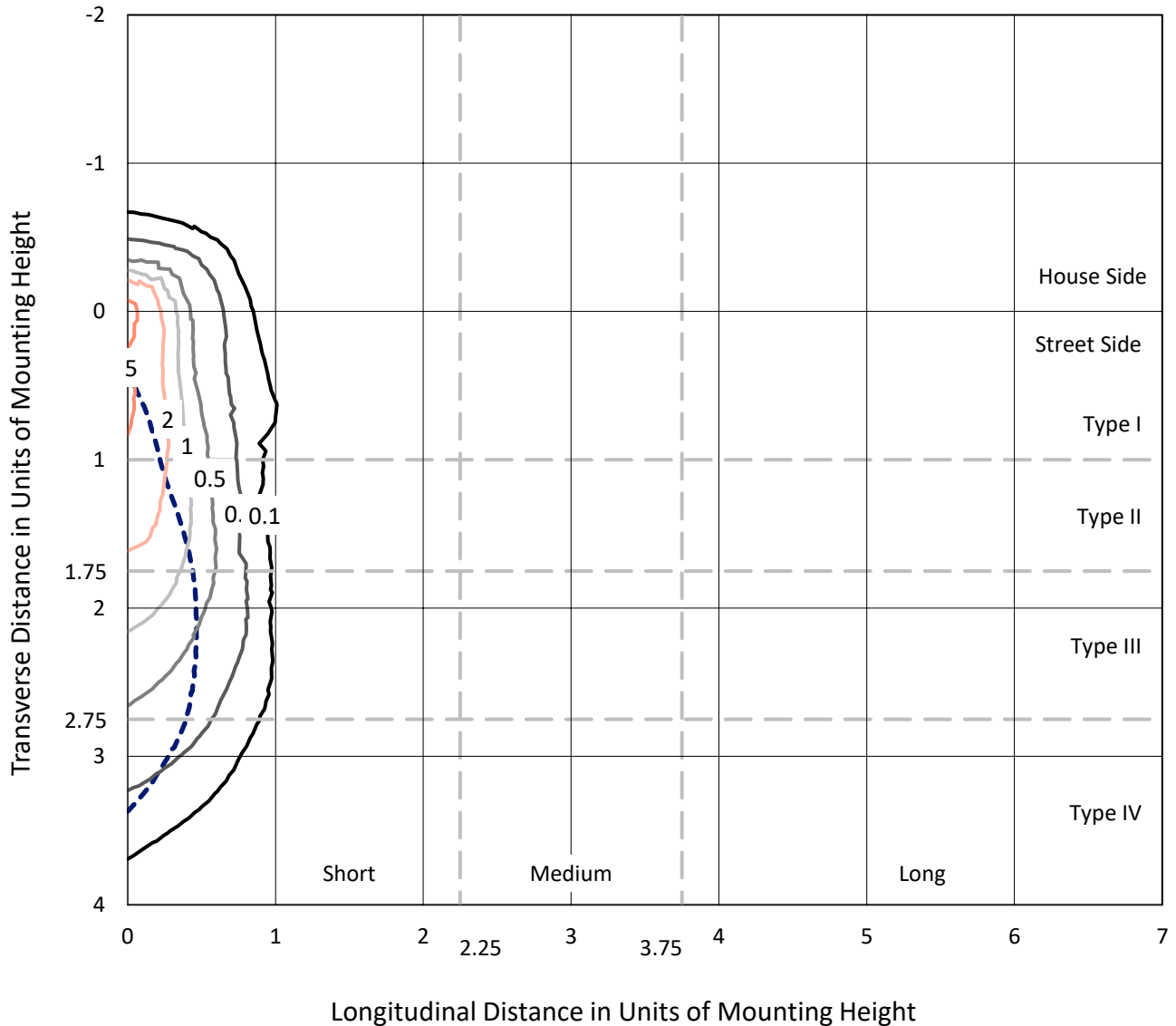
Input Watts (W): 46
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

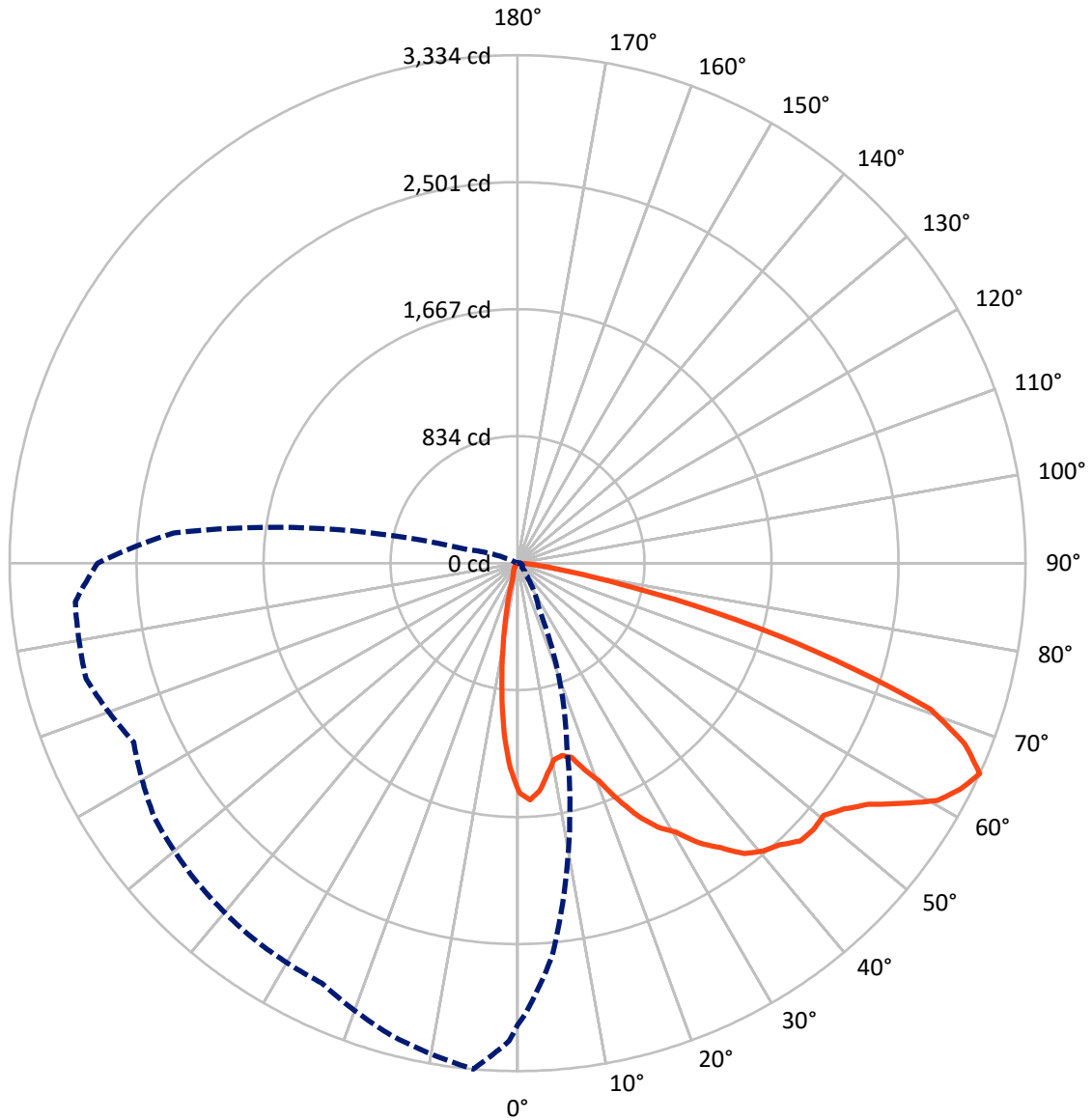
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.7 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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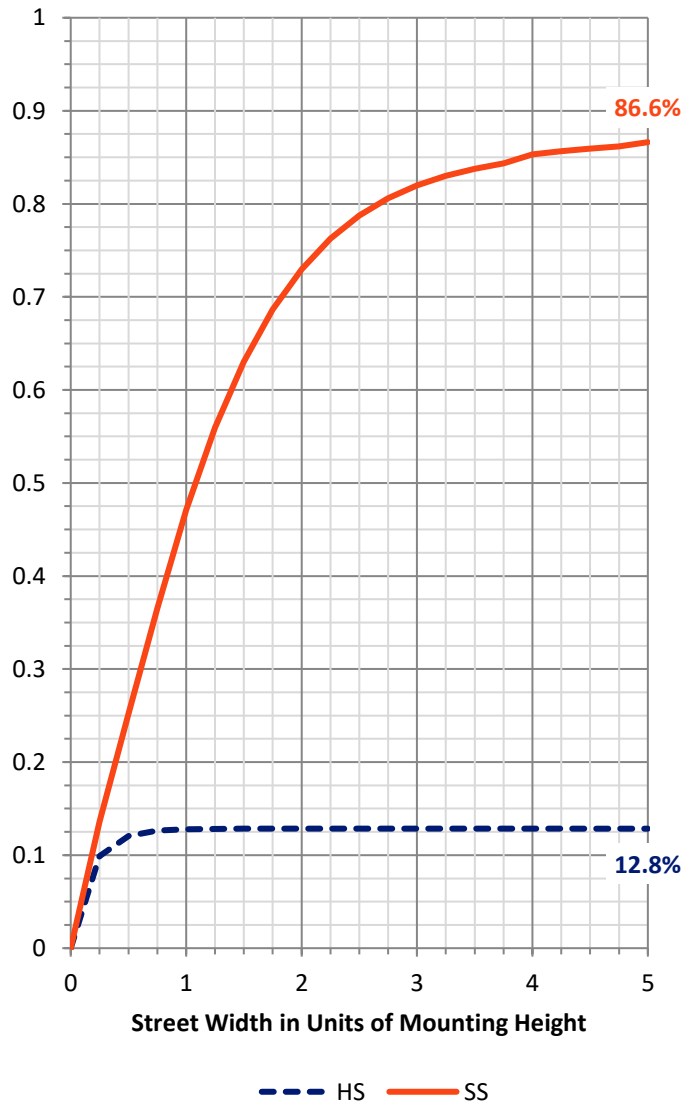
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	512.0	0.0	512.0
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	3431.6	0.0	3431.6
	% Fixture	87.0	0.0	87.0
Total	Lumens	3943.6	0.0	3943.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.2	2.9
10°-20°	221.1	5.6
20°-30°	308.0	7.8
30°-40°	437.6	11.1
40°-50°	606.9	15.4
50°-60°	826.9	21.0
60°-70°	909.1	23.1
70°-80°	446.8	11.3
80°-90°	73.0	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°	3943.6	100.0
0°-180°	3943.6	100.0



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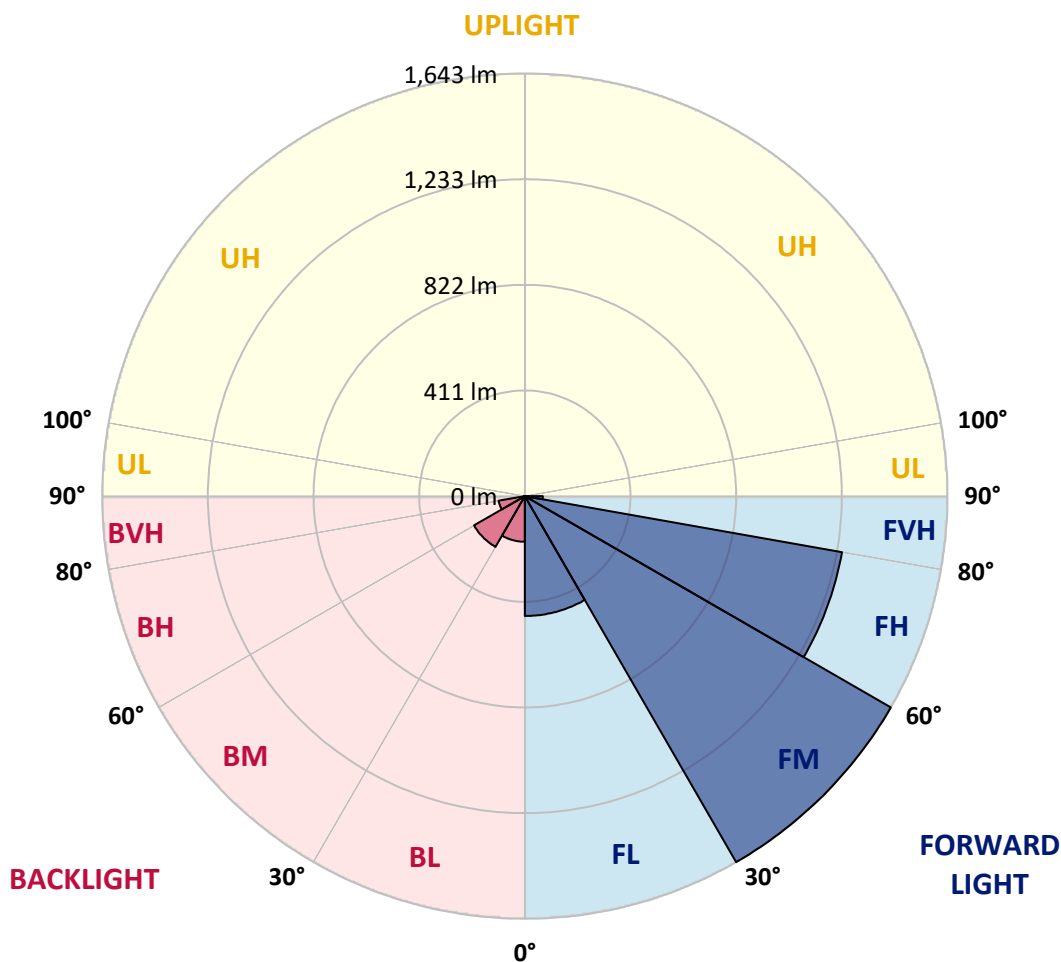
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	466.1	11.8			
FM (30°-60°)	1643.4	41.7			
FH (60°-80°)	1252.4	31.8			G1/1800
FVH (80°-90°)	69.7	1.8			G1/100
BL (0°-30°)	177.3	4.5	B1/500		
BM (30°-60°)	228.0	5.8	B1/1000		
BH (60°-80°)	103.5	2.6	B0/110		G0/110
BVH (80°-90°)	3.3	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°	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6
2.5°	1538.5	1556.5	1539.5	1480.0	1469.4	1440.7	1397.1	1393.9	1348.2	1353.5	1329.0
5°	1446.0	1464.0	1427.9	1349.2	1275.9	1217.4	1182.3	1119.6	1105.7	1074.9	1074.9
7.5°	1351.3	1350.3	1288.6	1222.7	1113.2	1005.8	956.9	866.5	813.4	784.7	757.0
10°	1272.7	1255.7	1217.4	1081.3	962.2	850.6	790.0	730.4	675.1	627.3	579.5
12.5°	1217.4	1228.0	1167.4	1019.6	865.5	787.8	723.0	660.3	594.3	540.1	487.0
15°	1246.1	1229.1	1157.8	1005.8	849.5	743.2	657.1	580.5	507.2	435.9	395.5
17.5°	1335.4	1291.8	1207.8	1005.8	816.6	675.1	570.9	480.6	401.9	338.1	288.1
20°	1455.5	1405.6	1315.2	1043.0	792.1	625.2	482.7	368.9	287.1	227.5	189.3
22.5°	1578.9	1539.5	1403.4	1057.9	763.4	558.2	380.6	266.9	191.4	153.1	134.0
25°	1726.7	1671.4	1522.5	1117.4	720.9	493.3	299.8	186.1	142.5	122.3	110.6
27.5°	1844.7	1835.1	1634.2	1153.6	689.0	440.2	237.1	147.8	118.0	103.1	95.7
30°	1993.5	1941.4	1770.3	1225.9	652.8	379.6	197.8	132.9	108.4	92.5	87.2
32.5°	2082.8	2058.4	1841.5	1266.3	612.4	329.6	170.1	117.0	98.9	87.2	81.9
35°	2212.6	2163.6	1943.6	1291.8	591.1	300.9	153.1	106.3	82.9	71.2	64.9
37.5°	2357.2	2339.1	2065.8	1290.7	560.3	283.9	141.4	98.9	78.7	65.9	58.5
40°	2504.9	2431.6	2140.3	1320.5	544.4	271.1	132.9	94.6	74.4	62.7	53.2
42.5°	2615.5	2531.5	2226.4	1309.9	525.2	248.8	129.7	88.2	71.2	57.4	48.9
45°	2645.3	2615.5	2304.0	1306.7	511.4	230.7	124.4	87.2	69.1	54.2	45.7
47.5°	2702.7	2682.5	2399.7	1312.0	500.8	216.9	111.6	89.3	65.9	51.0	43.6
50°	2728.2	2692.1	2477.3	1324.8	476.3	199.9	99.9	93.6	64.9	50.0	41.5
52.5°	2833.5	2801.6	2583.6	1360.9	456.1	177.6	88.2	89.3	67.0	46.8	39.3
55°	2936.6	2900.5	2747.4	1443.8	427.4	159.5	75.5	78.7	63.8	42.5	35.1
57.5°	3078.0	3018.5	2856.9	1477.9	401.9	135.0	67.0	64.9	59.5	38.3	30.8
60°	3099.3	3123.7	2840.9	1456.6	375.3	119.1	58.5	50.0	63.8	34.0	26.6
62.5°	3170.5	3068.4	2766.5	1407.7	356.2	109.5	52.1	41.5	55.3	29.8	22.3
65°	3033.4	2957.9	2592.1	1250.3	331.7	110.6	45.7	34.0	35.1	24.5	18.1
67.5°	2832.4	2772.9	2302.9	1079.2	307.3	108.4	40.4	29.8	26.6	21.3	15.9
70°	2485.8	2357.2	1956.3	876.1	271.1	101.0	34.0	26.6	22.3	17.0	11.7
72.5°	1808.5	1756.4	1403.4	677.3	243.5	91.4	31.9	22.3	19.1	12.8	9.6
75°	1217.4	1131.3	885.7	444.4	195.6	79.7	26.6	20.2	14.9	9.6	7.4
77.5°	643.2	608.2	501.8	211.6	108.4	37.2	14.9	11.7	8.5	7.4	4.3
80°	278.6	247.7	216.9	86.1	38.3	17.0	9.6	6.4	5.3	4.3	2.1
82.5°	142.5	136.1	112.7	37.2	22.3	12.8	5.3	4.3	3.2	2.1	1.1
85°	70.2	72.3	59.5	11.7	12.8	7.4	1.1	1.1	0.0	0.0	0.0
87.5°	5.3	5.3	4.3	2.1	3.2	1.1	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°	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6
2.5°	1319.5	1334.3	1308.8	1324.8	1317.3	1320.5	1323.7	1315.2	1317.3	1347.1	1348.2
5°	1056.8	1085.5	1074.9	1089.8	1115.3	1102.6	1114.3	1112.1	1114.3	1118.5	1137.6
7.5°	753.8	745.3	765.5	804.9	850.6	878.2	864.4	857.0	852.7	842.1	854.8
10°	568.8	564.6	559.3	570.9	600.7	631.6	648.6	619.9	603.9	583.7	576.3
12.5°	472.1	445.5	430.6	412.5	421.0	448.7	449.7	422.1	396.6	385.9	397.6
15°	372.1	354.1	327.5	302.0	289.2	310.5	292.4	265.8	232.8	228.6	227.5
17.5°	265.8	255.2	236.0	225.4	210.5	205.2	186.1	145.7	122.3	115.9	118.0
20°	180.7	172.2	171.2	161.6	155.2	151.0	120.1	93.6	86.1	87.2	88.2
22.5°	134.0	129.7	124.4	123.3	118.0	112.7	88.2	78.7	73.4	73.4	76.6
25°	109.5	107.4	102.1	99.9	97.8	90.4	74.4	67.0	64.9	62.7	65.9
27.5°	93.6	92.5	89.3	86.1	84.0	76.6	64.9	58.5	56.4	56.4	56.4
30°	84.0	84.0	79.7	73.4	73.4	64.9	55.3	51.0	48.9	48.9	47.8
32.5°	78.7	76.6	71.2	67.0	63.8	55.3	48.9	44.7	41.5	41.5	42.5
35°	63.8	63.8	62.7	59.5	55.3	46.8	41.5	37.2	35.1	34.0	35.1
37.5°	56.4	53.2	48.9	50.0	47.8	40.4	35.1	31.9	28.7	28.7	28.7
40°	51.0	47.8	43.6	40.4	39.3	36.1	30.8	25.5	22.3	21.3	21.3
42.5°	45.7	43.6	37.2	31.9	30.8	30.8	23.4	19.1	15.9	15.9	15.9
45°	42.5	39.3	34.0	27.6	22.3	23.4	19.1	13.8	11.7	10.6	10.6
47.5°	40.4	37.2	29.8	23.4	17.0	17.0	13.8	9.6	7.4	6.4	6.4
50°	37.2	34.0	26.6	19.1	12.8	10.6	8.5	5.3	3.2	2.1	2.1
52.5°	35.1	31.9	23.4	15.9	10.6	7.4	5.3	1.1	0.0	0.0	0.0
55°	31.9	27.6	20.2	12.8	8.5	4.3	1.1	0.0	0.0	0.0	0.0
57.5°	27.6	24.5	15.9	9.6	5.3	1.1	0.0	0.0	0.0	0.0	0.0
60°	23.4	20.2	12.8	7.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	19.1	17.0	9.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	15.9	12.8	7.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	13.8	10.6	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	10.6	7.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7.4	5.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	5.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.1	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°	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6
2.5°	1352.4	1384.3	1414.1	1422.6	1446.0	1510.8	1510.8	1541.7	1597.0	1617.2	1621.4
5°	1140.8	1174.9	1181.2	1247.2	1278.0	1343.9	1387.5	1491.7	1554.4	1593.8	1618.2
7.5°	867.6	879.3	903.7	965.4	1026.0	1105.7	1188.7	1321.6	1432.2	1476.8	1559.7
10°	596.5	631.6	684.7	740.0	834.6	922.9	1030.3	1155.7	1291.8	1347.1	1418.3
12.5°	401.9	450.8	535.9	614.5	701.7	791.0	893.1	1061.1	1215.3	1291.8	1363.0
15°	235.0	294.5	367.9	495.5	611.3	711.3	813.4	983.5	1170.6	1269.5	1356.7
17.5°	119.1	137.2	197.8	308.3	461.4	625.2	777.2	994.1	1204.6	1325.8	1398.1
20°	89.3	94.6	111.6	163.7	315.8	516.7	743.2	1010.1	1299.3	1447.0	1486.4
22.5°	77.6	81.9	89.3	106.3	177.6	395.5	695.3	1049.4	1427.9	1567.2	1650.1
25°	65.9	70.2	76.6	87.2	113.8	269.0	636.9	1090.9	1542.7	1718.2	1795.8
27.5°	57.4	60.6	67.0	75.5	92.5	171.2	535.9	1146.1	1718.2	1901.0	1921.2
30°	48.9	52.1	57.4	67.0	78.7	121.2	393.4	1153.6	1814.9	1980.8	2037.1
32.5°	42.5	43.6	50.0	58.5	65.9	95.7	276.4	1161.0	1886.1	2083.9	2095.6
35°	35.1	37.2	43.6	48.9	57.4	75.5	209.5	1123.8	1978.6	2190.2	2187.0
37.5°	28.7	31.9	36.1	40.4	46.8	63.8	166.9	1054.7	2094.5	2355.0	2255.1
40°	22.3	25.5	29.8	35.1	39.3	57.4	125.5	950.5	2215.7	2435.8	2329.5
42.5°	15.9	18.1	22.3	27.6	35.1	47.8	90.4	827.2	2263.6	2530.5	2418.8
45°	11.7	13.8	17.0	23.4	36.1	38.3	62.7	714.5	2314.6	2571.9	2398.6
47.5°	6.4	8.5	12.8	20.2	31.9	28.7	44.7	613.5	2373.1	2609.1	2414.6
50°	2.1	3.2	7.4	21.3	25.5	22.3	35.1	559.3	2430.5	2616.6	2446.5
52.5°	0.0	0.0	4.3	22.3	19.1	17.0	30.8	538.0	2415.6	2640.0	2426.3
55°	0.0	0.0	1.1	9.6	10.6	12.8	25.5	536.9	2520.9	2647.4	2536.8
57.5°	0.0	0.0	0.0	3.2	6.4	10.6	22.3	502.9	2587.9	2832.4	2685.7
60°	0.0	0.0	0.0	1.1	4.3	7.4	17.0	473.1	2655.9	2915.3	2845.2
62.5°	0.0	0.0	0.0	0.0	1.1	3.2	11.7	427.4	2518.8	2909.0	2999.3
65°	0.0	0.0	0.0	0.0	0.0	0.0	7.4	338.1	2265.7	2756.9	2914.3
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.3	233.9	1984.0	2565.5	2758.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	141.4	1601.2	2249.8	2339.1
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.6	1143.0	1786.2	1919.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.5	707.0	1305.6	1469.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	458.2	988.8	1115.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	244.5	619.9	720.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	106.3	376.4	433.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.0	228.6	260.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.1	46.8
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°	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6
2.5°	1623.5	1654.4	1666.1	1648.0	1650.1	1612.9	1607.6	1555.5	1534.2	1538.5
5°	1698.0	1742.6	1767.1	1746.9	1701.1	1629.9	1565.1	1503.4	1465.1	1446.0
7.5°	1680.9	1730.9	1761.7	1780.9	1728.8	1614.0	1515.1	1399.2	1350.3	1351.3
10°	1587.4	1691.6	1754.3	1729.9	1705.4	1590.6	1437.5	1312.0	1268.4	1272.7
12.5°	1511.9	1627.8	1665.0	1684.1	1634.2	1542.7	1439.6	1296.1	1247.2	1217.4
15°	1465.1	1551.2	1553.4	1583.1	1562.9	1562.9	1461.9	1321.6	1279.0	1246.1
17.5°	1465.1	1484.2	1482.1	1492.8	1526.8	1567.2	1518.3	1424.7	1340.7	1335.4
20°	1498.1	1438.5	1424.7	1429.0	1457.7	1577.8	1642.7	1525.7	1472.6	1455.5
22.5°	1574.6	1443.8	1359.9	1345.0	1433.2	1576.7	1722.4	1685.2	1592.7	1578.9
25°	1679.9	1434.3	1342.8	1323.7	1390.7	1615.0	1831.9	1839.4	1755.4	1726.7
27.5°	1779.8	1476.8	1340.7	1336.5	1424.7	1606.5	1907.4	1962.7	1868.1	1844.7
30°	1813.8	1519.3	1380.1	1323.7	1437.5	1637.4	1905.3	2049.9	1988.2	1993.5
32.5°	1854.2	1561.9	1384.3	1362.0	1491.7	1687.3	1965.9	2190.2	2145.6	2082.8
35°	1913.8	1619.3	1424.7	1404.5	1530.0	1732.0	1978.6	2293.4	2285.9	2212.6
37.5°	1964.8	1675.6	1508.7	1511.9	1646.9	1804.3	2035.0	2419.9	2407.1	2357.2
40°	2001.0	1754.3	1639.5	1648.0	1749.0	1885.1	2134.9	2483.7	2578.3	2504.9
42.5°	2006.3	1824.5	1789.4	1857.4	1952.1	2010.5	2175.3	2527.3	2663.4	2615.5
45°	2026.5	1936.1	2033.9	2083.9	2161.5	2121.1	2173.2	2601.7	2669.7	2645.3
47.5°	2105.2	2139.2	2262.5	2414.6	2442.2	2309.3	2224.2	2613.4	2705.9	2702.7
50°	2187.0	2357.2	2530.5	2631.5	2666.5	2439.0	2272.1	2603.8	2753.7	2728.2
52.5°	2278.5	2546.4	2796.3	2920.7	2901.5	2582.6	2326.3	2681.4	2842.0	2833.5
55°	2335.9	2631.5	2967.4	3140.7	3125.9	2743.1	2498.6	2793.1	2957.9	2936.6
57.5°	2487.9	2769.7	3137.6	3218.4	3257.7	2953.6	2618.7	2975.9	3054.6	3078.0
60°	2613.4	2860.1	3182.2	3299.2	3313.0	3079.1	2829.2	3164.1	3178.0	3099.3
62.5°	2797.3	2895.1	3087.6	3192.8	3264.1	3150.3	3018.5	3265.1	3175.8	3170.5
65°	2932.4	2780.3	2911.1	2969.6	3015.3	3041.9	3208.8	3334.2	3136.5	3033.4
67.5°	2856.9	2563.4	2539.0	2542.2	2556.0	2716.5	3145.0	3165.2	2917.5	2832.4
70°	2514.5	2103.0	2070.1	2095.6	2026.5	2220.0	2886.6	2877.1	2574.0	2485.8
72.5°	2033.9	1533.2	1476.8	1511.9	1527.8	1733.0	2428.4	2181.7	1877.6	1808.5
75°	1616.1	1123.8	948.4	1033.4	1087.7	1262.0	1896.8	1482.1	1310.9	1217.4
77.5°	1269.5	850.6	737.9	703.8	753.8	917.6	1380.1	778.3	686.8	643.2
80°	804.9	625.2	678.3	629.4	650.7	654.9	718.7	354.1	281.8	278.6
82.5°	484.8	427.4	508.2	279.6	509.3	455.1	298.8	160.5	142.5	142.5
85°	343.4	264.7	175.4	113.8	226.5	249.9	115.9	82.9	72.3	70.2
87.5°	172.2	81.9	39.3	25.5	28.7	46.8	13.8	6.4	6.4	5.3
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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