

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: P677322

Luminaire Tested: **CCW-SA-2B-827-U-SLL-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677322
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-827-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) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3683.4 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

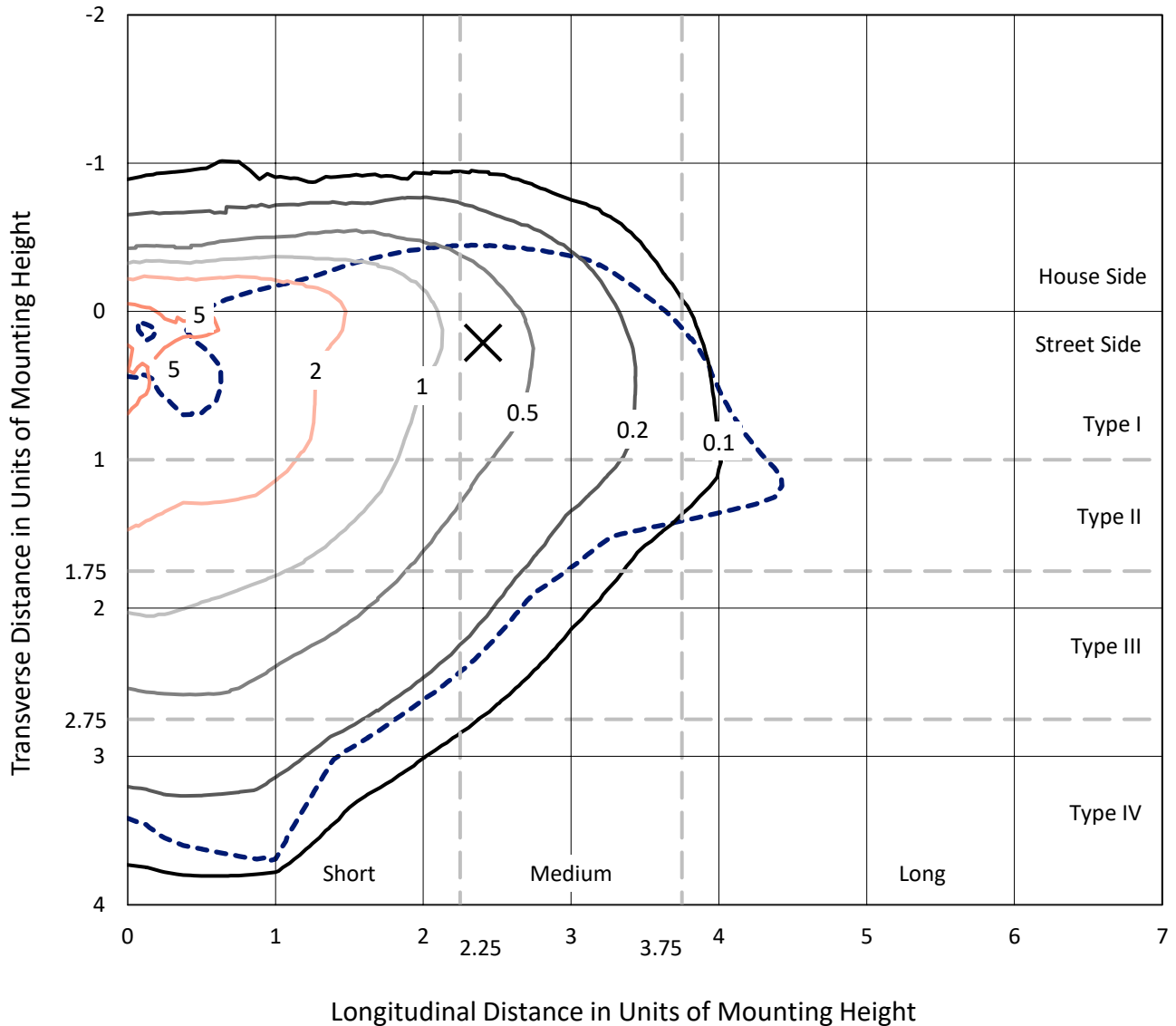
Input Watts (W): 46
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

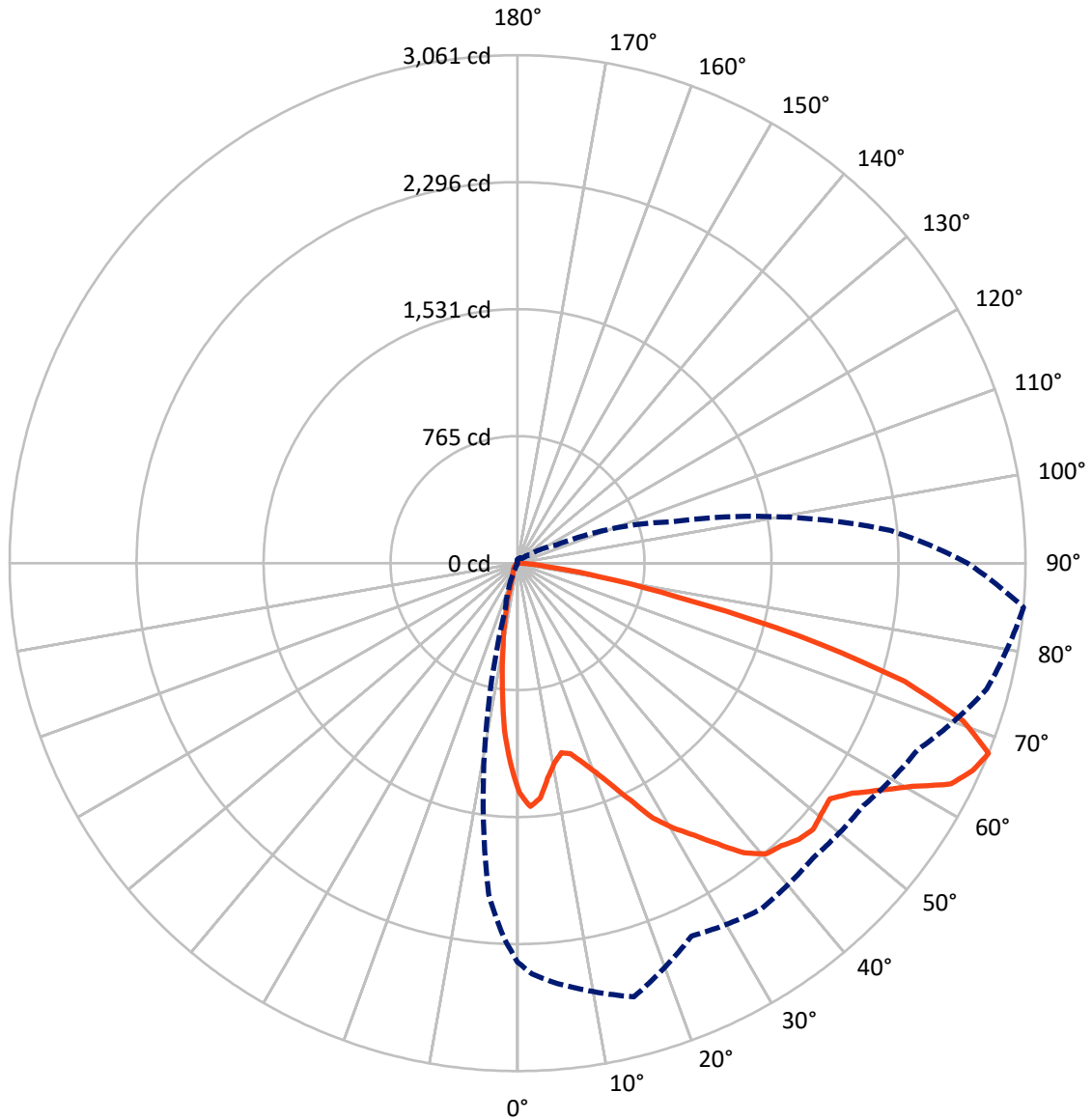
× Max cd
 - - - 1/2 Max cd



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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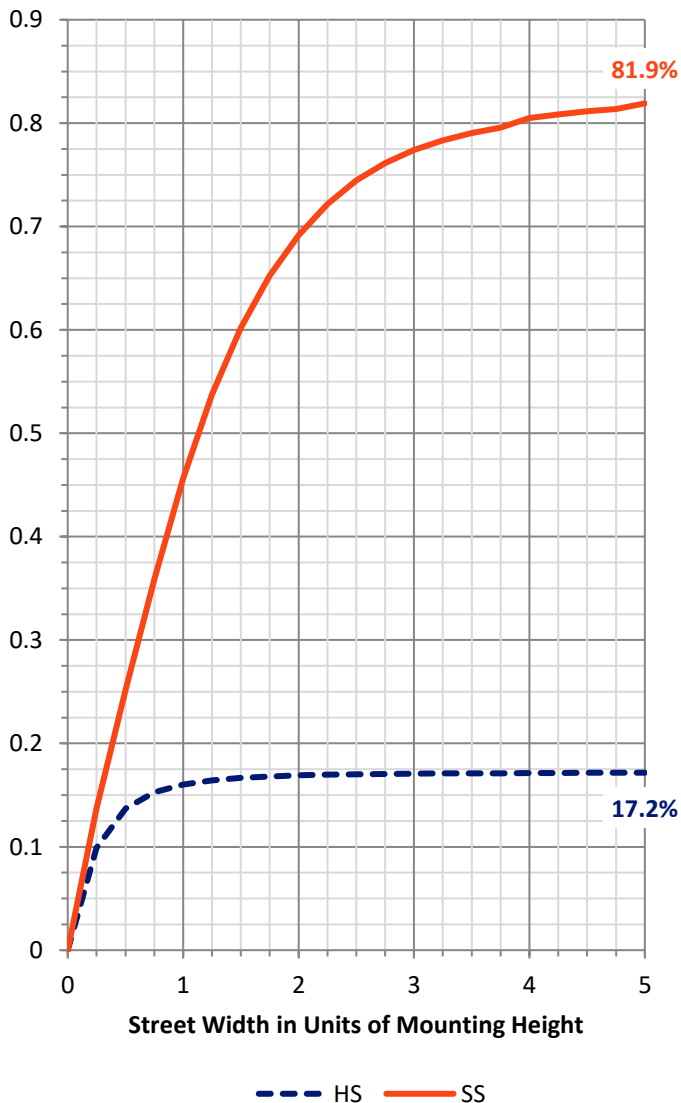
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	639.6	0.0	639.6
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	3043.8	0.0	3043.8
	% Fixture	82.6	0.0	82.6
Total	Lumens	3683.4	0.0	3683.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.2	2.9
10°-20°	206.3	5.6
20°-30°	285.5	7.8
30°-40°	403.5	11.0
40°-50°	549.4	14.9
50°-60°	727.6	19.8
60°-70°	844.8	22.9
70°-80°	478.4	13.0
80°-90°	82.7	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°	3683.4	100.0
0°-180°	3683.4	100.0



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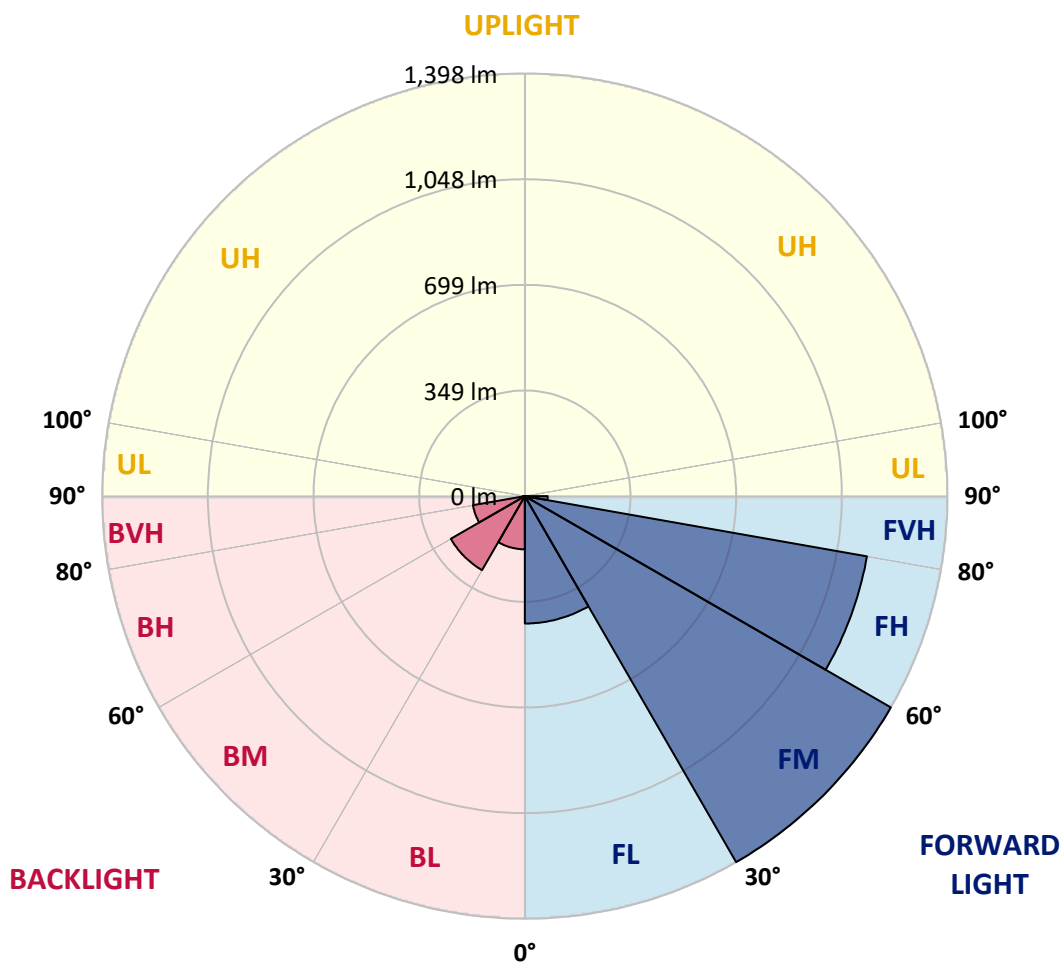
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	421.2	11.4			
FM (30°-60°)	1397.9	38.0			
FH (60°-80°)	1149.0	31.2			G1/1800
FVH (80°-90°)	75.7	2.1			G1/100
BL (0°-30°)	175.8	4.8	B1/500		
BM (30°-60°)	282.6	7.7	B1/1000		
BH (60°-80°)	174.2	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°	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9
2.5°	1439.0	1469.5	1470.5	1484.3	1498.0	1498.0	1530.5	1522.6	1494.1	1489.2	1468.5
5°	1449.8	1460.7	1468.5	1538.4	1597.4	1591.5	1609.2	1597.4	1542.3	1471.5	1423.3
7.5°	1356.4	1368.2	1399.7	1518.7	1598.4	1624.9	1658.4	1584.6	1526.6	1398.7	1306.2
10°	1232.5	1255.1	1313.1	1448.9	1547.2	1631.8	1631.8	1572.8	1460.7	1335.7	1222.6
12.5°	1163.6	1208.9	1240.3	1378.0	1505.9	1563.9	1562.0	1530.5	1457.7	1300.3	1172.5
15°	1175.4	1188.2	1255.1	1362.3	1446.9	1443.9	1479.4	1469.5	1418.4	1331.8	1191.2
17.5°	1229.5	1249.2	1307.2	1362.3	1402.6	1390.8	1389.8	1437.1	1440.0	1384.9	1261.0
20°	1318.0	1376.1	1403.6	1420.3	1371.2	1321.0	1315.1	1381.0	1432.1	1452.8	1344.6
22.5°	1459.7	1498.0	1554.1	1468.5	1340.7	1277.7	1265.9	1338.7	1442.0	1533.5	1452.8
25°	1598.4	1627.9	1682.0	1571.8	1375.1	1268.9	1248.2	1311.2	1479.4	1645.6	1583.6
27.5°	1744.9	1770.5	1776.4	1647.6	1393.8	1251.2	1226.6	1311.2	1510.8	1704.6	1740.0
30°	1834.4	1864.9	1870.8	1714.4	1424.3	1265.9	1254.1	1317.1	1532.5	1754.8	1852.1
32.5°	1934.8	1942.6	1937.7	1726.2	1457.7	1309.2	1260.0	1356.4	1557.1	1814.8	1954.4
35°	2054.8	2068.5	2018.4	1780.3	1532.5	1336.7	1319.0	1404.6	1599.4	1842.3	2078.4
37.5°	2146.2	2189.5	2076.4	1801.0	1547.2	1394.8	1397.7	1504.9	1628.9	1875.7	2215.1
40°	2318.4	2245.6	2174.8	1871.8	1603.3	1493.1	1477.4	1608.2	1728.2	1897.4	2304.6
42.5°	2412.8	2374.4	2213.1	1878.7	1689.8	1628.9	1632.8	1725.3	1780.3	1958.4	2329.2
45°	2436.4	2396.1	2265.3	1883.6	1775.4	1789.2	1857.1	1874.8	1857.1	1998.7	2375.4
47.5°	2496.4	2408.9	2259.4	1949.5	1914.1	1967.2	2053.8	2092.1	1961.3	1983.9	2397.1
50°	2484.6	2434.4	2246.6	1977.1	2083.3	2223.9	2282.0	2266.2	2077.4	1953.5	2373.5
52.5°	2435.4	2381.3	2285.9	2051.8	2241.7	2411.8	2492.5	2453.1	2180.7	2022.3	2357.7
55°	2507.2	2465.9	2337.1	2153.1	2360.7	2577.1	2634.1	2604.6	2307.6	2086.2	2447.2
57.5°	2584.9	2576.1	2475.8	2272.1	2501.3	2747.2	2747.2	2710.8	2417.7	2178.7	2580.0
60°	2697.1	2716.7	2578.0	2350.8	2549.5	2737.4	2880.0	2837.7	2528.9	2341.0	2730.5
62.5°	2660.7	2723.6	2709.9	2520.0	2604.6	2785.6	2863.3	2894.8	2666.6	2538.7	2931.2
65°	2543.6	2610.5	2708.9	2631.2	2563.3	2668.5	2707.9	2803.3	2735.4	2724.6	3013.8
67.5°	2403.9	2476.7	2537.7	2705.9	2479.7	2549.5	2515.1	2545.6	2660.7	2928.2	3061.0
70°	2099.0	2168.9	2265.3	2539.7	2258.4	2195.4	2186.6	2171.8	2350.8	2855.4	2846.6
72.5°	1726.2	1758.7	1918.0	2064.6	1671.2	1659.4	1673.1	1656.4	1863.9	2584.9	2438.4
75°	1292.5	1324.9	1415.4	1585.6	1138.0	1070.2	1148.9	1226.6	1423.3	2006.6	1751.8
77.5°	971.8	1013.1	1070.2	1186.2	835.1	728.9	739.7	813.4	1028.9	1607.2	981.6
80°	630.5	625.6	735.7	816.4	628.5	648.2	620.7	674.8	745.6	859.7	501.6
82.5°	363.9	368.9	415.1	468.2	437.7	500.7	361.0	603.0	532.1	350.2	186.9
85°	204.6	213.4	255.7	324.6	274.4	183.9	150.5	299.0	334.4	143.6	90.5
87.5°	20.7	17.7	34.4	123.0	74.8	30.5	45.2	71.8	80.7	54.1	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°	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9
2.5°	1439.0	1439.0	1414.4	1373.1	1356.4	1326.9	1286.6	1299.4	1285.6	1235.4	1222.6
5°	1380.0	1332.8	1281.6	1218.7	1182.3	1107.5	1083.9	1041.6	1048.5	1006.2	1008.2
7.5°	1257.1	1219.7	1133.1	1050.5	978.7	913.8	822.3	787.9	754.4	737.7	757.4
10°	1185.3	1115.4	997.4	889.2	793.8	735.7	674.8	627.5	584.3	551.8	544.9
12.5°	1133.1	1071.2	928.5	796.7	722.0	674.8	618.7	553.8	511.5	455.4	438.7
15°	1117.4	1041.6	891.2	760.3	687.5	609.8	545.9	482.0	426.9	367.9	347.2
17.5°	1171.5	1083.9	890.2	730.8	628.5	544.9	456.4	384.6	328.5	274.4	261.6
20°	1263.0	1129.2	918.7	713.1	572.5	460.3	360.0	288.2	225.2	189.8	181.0
22.5°	1367.2	1205.9	921.6	665.9	516.4	375.7	262.6	189.8	154.4	137.7	132.8
25°	1495.1	1328.9	957.1	627.5	450.5	285.2	186.9	145.6	124.9	115.1	113.1
27.5°	1600.3	1414.4	995.4	587.2	385.6	211.5	146.6	119.0	108.2	98.4	97.4
30°	1709.5	1512.8	1006.2	562.6	329.5	174.1	125.9	105.2	93.4	88.5	87.5
32.5°	1804.9	1620.0	1040.7	522.3	276.4	153.4	114.1	94.4	86.6	78.7	77.7
35°	1927.9	1682.0	1057.4	500.7	256.7	138.7	104.3	86.6	74.8	69.8	67.9
37.5°	2059.7	1742.0	1068.2	483.9	240.0	129.8	98.4	81.6	70.8	63.9	62.0
40°	2182.6	1826.6	1052.5	463.3	227.2	119.0	94.4	75.7	65.9	59.0	56.1
42.5°	2277.1	1909.2	1047.5	443.6	213.4	115.1	89.5	72.8	62.0	54.1	53.1
45°	2330.2	1965.3	1013.1	427.9	202.6	117.0	87.5	68.9	59.0	52.1	48.2
47.5°	2317.4	2008.5	1022.0	423.0	187.9	109.2	86.6	65.9	54.1	48.2	45.2
50°	2388.2	2096.1	1007.2	407.2	177.1	98.4	94.4	65.9	53.1	46.2	43.3
52.5°	2400.0	2175.8	1038.7	378.7	160.3	90.5	93.4	64.9	51.1	44.3	40.3
55°	2498.4	2268.2	1099.7	363.0	146.6	78.7	85.6	63.0	46.2	40.3	38.4
57.5°	2632.1	2460.0	1139.0	348.2	127.9	68.9	71.8	62.0	42.3	37.4	34.4
60°	2761.0	2536.7	1142.0	321.6	110.2	62.0	56.1	62.0	39.3	33.4	30.5
62.5°	2857.4	2536.7	1122.3	299.0	96.4	55.1	49.2	59.0	35.4	29.5	27.5
65°	2805.3	2468.9	1071.2	280.3	87.5	48.2	42.3	45.2	31.5	25.6	23.6
67.5°	2711.8	2257.4	958.0	257.7	86.6	42.3	36.4	33.4	27.5	22.6	20.7
70°	2562.3	1972.1	797.7	232.1	84.6	38.4	32.5	28.5	24.6	19.7	17.7
72.5°	2064.6	1628.9	655.1	217.4	82.6	33.4	27.5	24.6	20.7	16.7	14.8
75°	1430.2	1040.7	504.6	185.9	80.7	30.5	25.6	21.6	17.7	13.8	12.8
77.5°	857.7	695.4	325.6	139.7	53.1	24.6	21.6	16.7	14.8	11.8	10.8
80°	401.3	328.5	131.8	54.1	25.6	17.7	14.8	12.8	11.8	9.8	8.9
82.5°	157.4	138.7	63.9	31.5	20.7	13.8	11.8	10.8	9.8	7.9	6.9
85°	84.6	74.8	30.5	21.6	14.8	9.8	9.8	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°	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9
2.5°	1215.7	1230.5	1206.9	1221.6	1201.0	1216.7	1218.7	1203.9	1207.9	1227.5	1236.4
5°	1035.7	1025.9	1004.3	997.4	998.4	985.6	990.5	997.4	1008.2	1014.1	1031.8
7.5°	746.6	769.2	768.2	784.9	785.9	783.9	770.2	740.7	750.5	742.6	752.5
10°	534.1	543.9	562.6	573.4	593.1	582.3	550.8	539.0	533.1	532.1	542.0
12.5°	426.9	403.3	401.3	405.2	415.1	402.3	386.6	372.8	379.7	393.4	404.3
15°	330.5	310.8	285.2	281.3	283.3	277.4	260.7	243.0	247.9	261.6	269.5
17.5°	253.8	231.1	213.4	201.6	197.7	177.1	152.5	137.7	133.8	132.8	139.7
20°	171.1	167.2	164.3	149.5	149.5	120.0	99.3	88.5	88.5	90.5	91.5
22.5°	127.9	123.0	123.9	121.0	113.1	89.5	78.7	75.7	75.7	77.7	77.7
25°	111.1	104.3	102.3	101.3	93.4	76.7	68.9	65.9	65.9	67.9	67.9
27.5°	94.4	92.5	89.5	85.6	78.7	65.9	61.0	58.0	59.0	60.0	59.0
30°	86.6	81.6	77.7	77.7	69.8	59.0	55.1	53.1	51.1	53.1	54.1
32.5°	76.7	73.8	71.8	68.9	60.0	52.1	48.2	46.2	45.2	45.2	46.2
35°	65.9	65.9	63.9	60.0	52.1	47.2	42.3	40.3	39.3	40.3	40.3
37.5°	59.0	56.1	57.0	53.1	46.2	41.3	36.4	34.4	34.4	33.4	34.4
40°	55.1	50.2	47.2	45.2	41.3	35.4	31.5	29.5	28.5	28.5	28.5
42.5°	49.2	45.2	39.3	38.4	37.4	30.5	25.6	24.6	23.6	22.6	22.6
45°	46.2	40.3	35.4	30.5	30.5	25.6	21.6	19.7	18.7	17.7	18.7
47.5°	42.3	36.4	30.5	25.6	24.6	20.7	16.7	14.8	13.8	13.8	13.8
50°	40.3	32.5	26.6	21.6	18.7	16.7	12.8	10.8	9.8	9.8	9.8
52.5°	37.4	30.5	23.6	18.7	14.8	12.8	9.8	7.9	6.9	6.9	6.9
55°	33.4	27.5	20.7	15.7	12.8	9.8	6.9	4.9	3.9	3.9	3.9
57.5°	31.5	24.6	17.7	13.8	9.8	6.9	3.9	3.0	3.0	2.0	3.0
60°	28.5	21.6	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	9.8	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°	15.7	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°	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9
2.5°	1249.2	1243.3	1272.8	1321.0	1345.6	1393.8	1405.6	1436.1	1428.2	1439.0
5°	1033.8	1045.6	1088.9	1159.7	1185.3	1255.1	1321.0	1386.9	1429.2	1449.8
7.5°	767.2	806.6	859.7	924.6	990.5	1082.0	1194.1	1270.8	1312.1	1356.4
10°	571.5	613.8	674.8	738.7	845.9	948.2	1060.3	1155.7	1191.2	1232.5
12.5°	449.5	515.4	586.2	655.1	719.0	816.4	955.1	1093.8	1132.1	1163.6
15°	312.8	393.4	494.8	584.3	673.8	758.4	902.0	1070.2	1122.3	1175.4
17.5°	173.1	237.1	353.1	479.0	610.8	740.7	919.7	1113.4	1192.1	1229.5
20°	100.3	125.9	208.5	358.0	532.1	702.3	928.5	1195.1	1299.4	1318.0
22.5°	82.6	91.5	118.0	224.3	435.7	677.7	973.8	1309.2	1415.4	1459.7
25°	70.8	77.7	91.5	134.8	329.5	625.6	1002.3	1451.8	1550.2	1598.4
27.5°	63.0	69.8	80.7	99.3	224.3	553.8	1049.5	1580.7	1679.0	1744.9
30°	55.1	61.0	71.8	84.6	155.4	473.1	1089.8	1675.1	1813.8	1834.4
32.5°	49.2	54.1	62.0	72.8	115.1	359.0	1122.3	1772.5	1889.5	1934.8
35°	42.3	48.2	53.1	62.0	87.5	270.5	1102.6	1848.2	2000.7	2054.8
37.5°	37.4	41.3	46.2	52.1	73.8	211.5	1062.3	1938.7	2096.1	2146.2
40°	31.5	34.4	40.3	46.2	66.9	163.3	1016.1	2047.9	2229.8	2318.4
42.5°	26.6	29.5	33.4	43.3	55.1	121.0	922.6	2132.5	2338.0	2412.8
45°	20.7	24.6	30.5	43.3	44.3	89.5	826.2	2195.4	2399.0	2436.4
47.5°	15.7	19.7	29.5	37.4	35.4	62.0	712.1	2267.2	2462.0	2496.4
50°	11.8	15.7	33.4	32.5	29.5	47.2	640.3	2317.4	2465.9	2484.6
52.5°	7.9	11.8	27.5	24.6	24.6	41.3	620.7	2315.4	2475.8	2435.4
55°	5.9	8.9	15.7	17.7	21.6	36.4	603.0	2389.2	2478.7	2507.2
57.5°	3.9	6.9	10.8	13.8	18.7	31.5	566.6	2477.7	2570.2	2584.9
60°	2.0	4.9	7.9	10.8	15.7	27.5	515.4	2542.6	2681.3	2697.1
62.5°	1.0	3.0	5.9	8.9	12.8	21.6	462.3	2439.4	2633.1	2660.7
65°	0.0	2.0	3.9	5.9	7.9	15.7	375.7	2202.3	2442.3	2543.6
67.5°	0.0	0.0	2.0	3.9	4.9	11.8	283.3	2003.6	2266.2	2403.9
70°	0.0	0.0	1.0	1.0	3.0	8.9	181.0	1659.4	2023.3	2099.0
72.5°	0.0	0.0	0.0	0.0	1.0	5.9	105.2	1232.5	1585.6	1726.2
75°	0.0	0.0	0.0	0.0	0.0	4.9	53.1	792.8	1103.6	1292.5
77.5°	0.0	0.0	0.0	0.0	0.0	3.9	28.5	511.5	813.4	971.8
80°	0.0	0.0	0.0	0.0	0.0	1.0	16.7	297.1	520.3	630.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.9	145.6	310.8	363.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	77.7	155.4	204.6
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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