

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: P677263

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677263
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-SLL-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
SLL 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: 3684.5 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

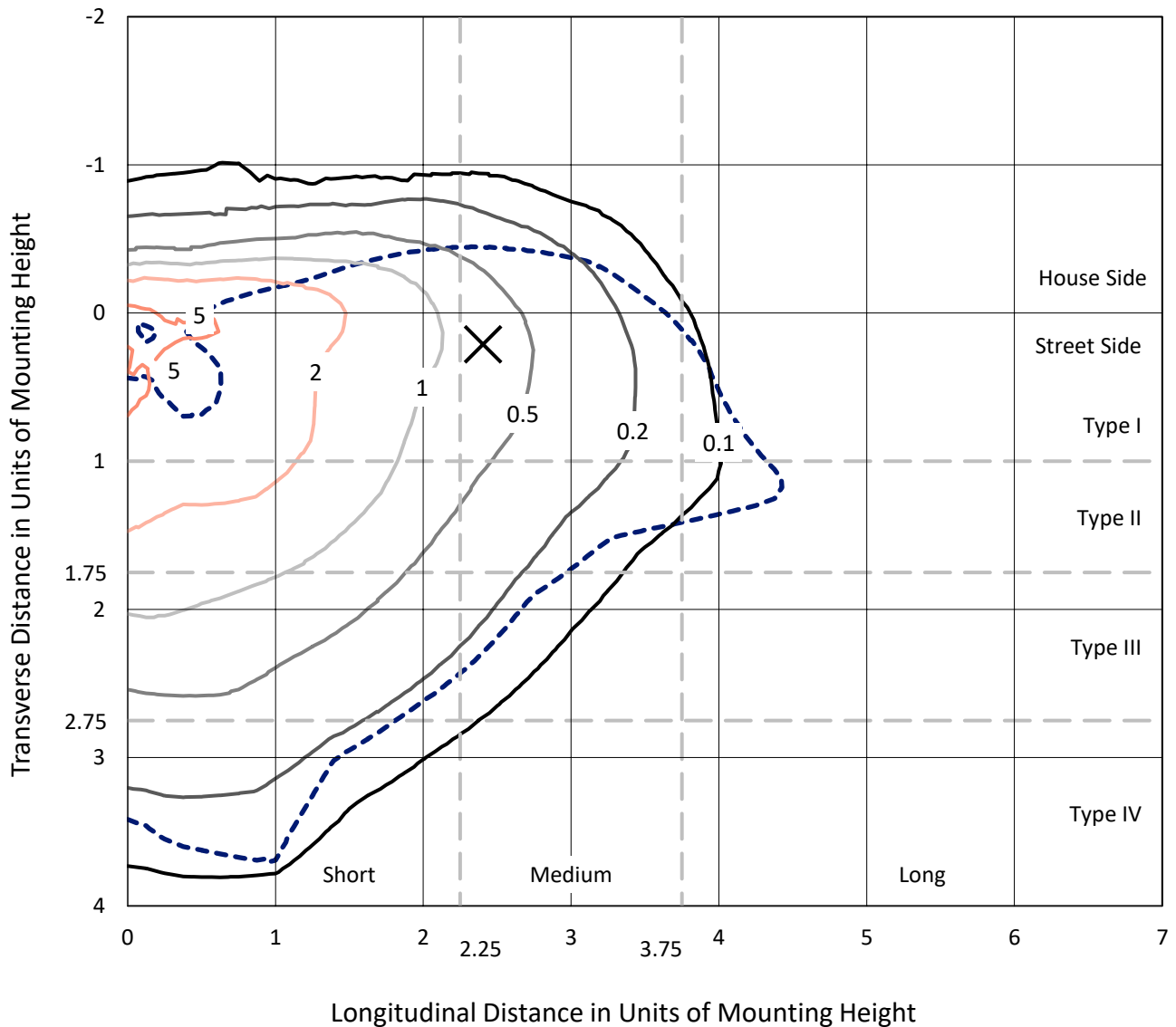
Input Watts (W): 44
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

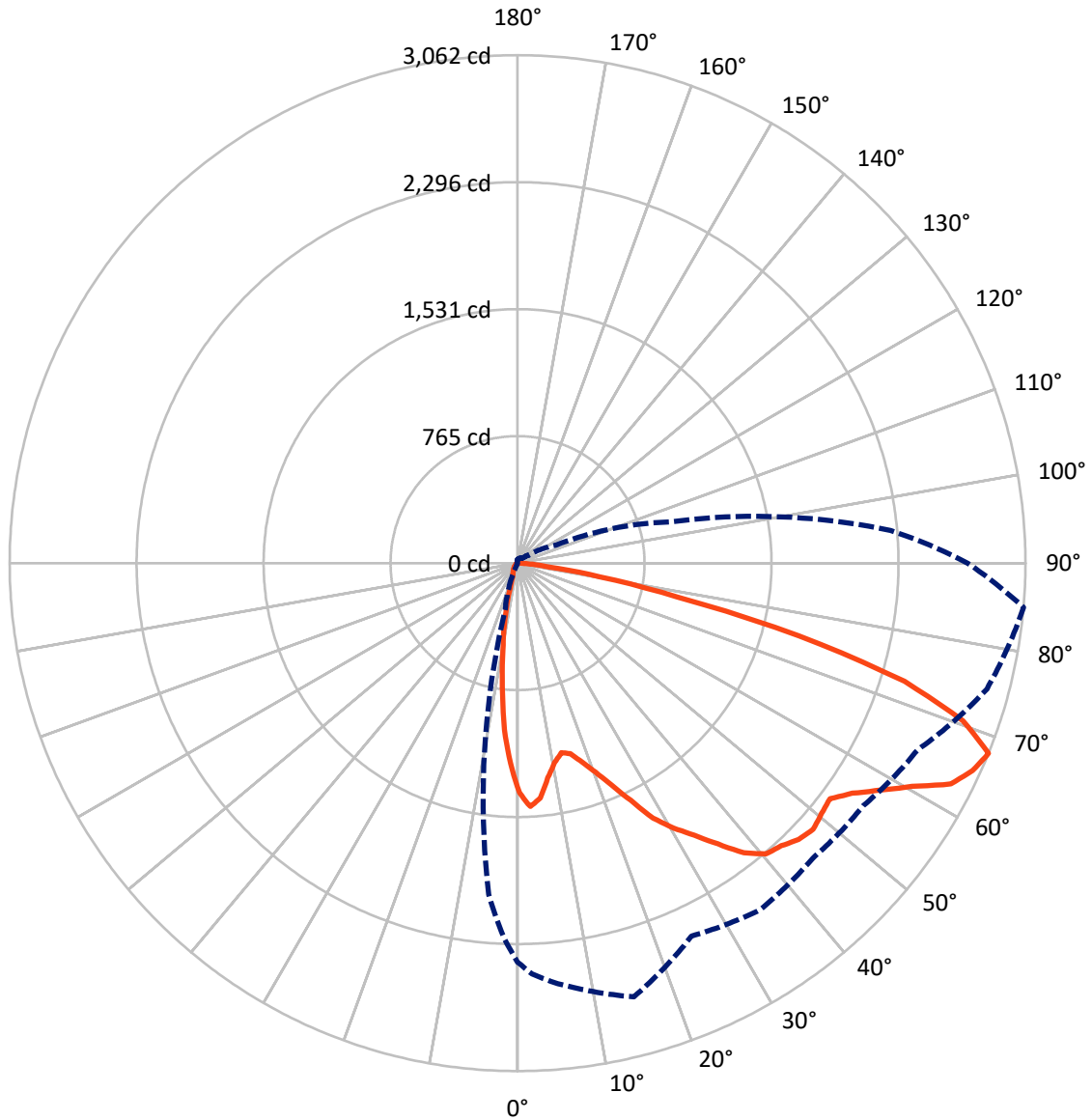
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.9 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	639.8	0.0	639.8
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	3044.8	0.0	3044.8
	% Fixture	82.6	0.0	82.6
Total	Lumens	3684.5	0.0	3684.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.2	2.9
10°-20°	206.4	5.6
20°-30°	285.6	7.8
30°-40°	403.6	11.0
40°-50°	549.5	14.9
50°-60°	727.8	19.8
60°-70°	845.1	22.9
70°-80°	478.6	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°	3684.5	100.0
0°-180°	3684.5	100.0



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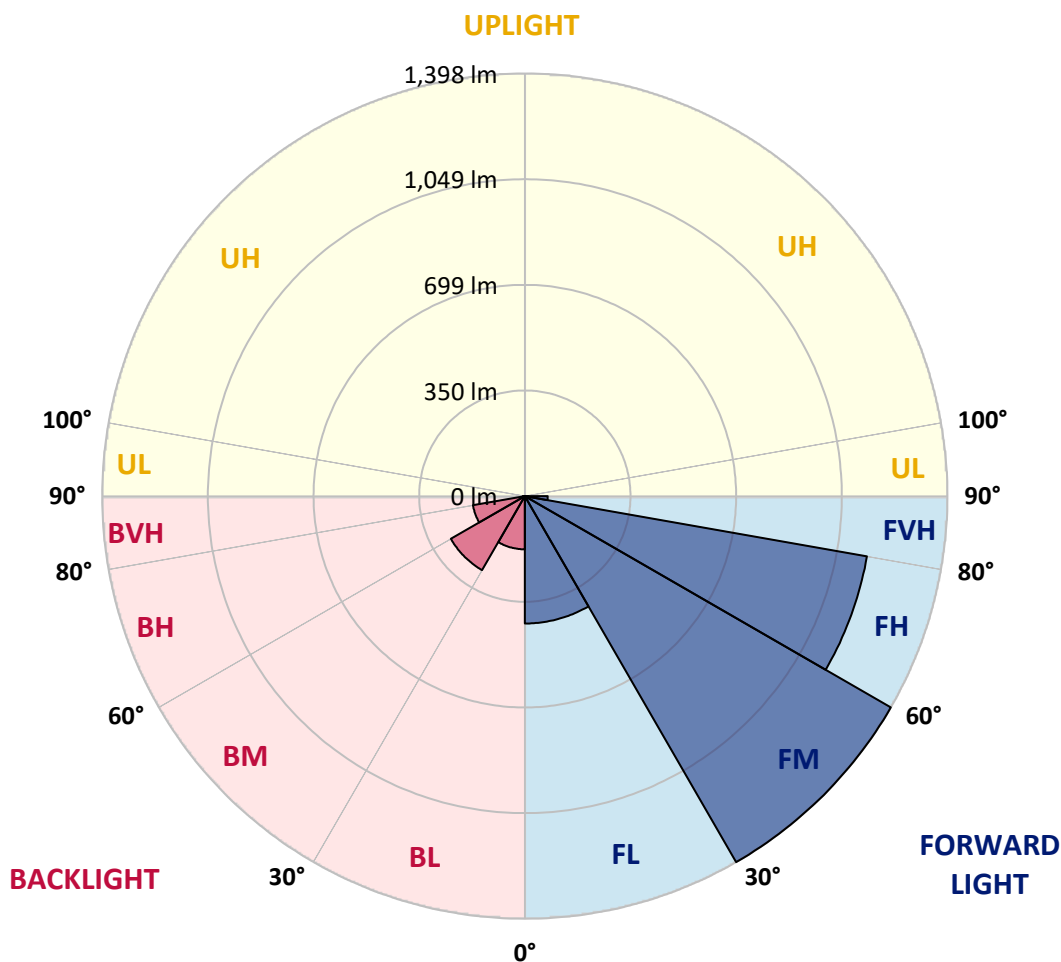
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	421.3	11.4			
FM (30°-60°)	1398.3	38.0			
FH (60°-80°)	1149.4	31.2			G1/1800
FVH (80°-90°)	75.7	2.1			G1/100
BL (0°-30°)	175.9	4.8	B1/500		
BM (30°-60°)	282.7	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°	1385.4	1385.4	1385.4	1385.4	1385.4	1385.4	1385.4	1385.4	1385.4	1385.4	1385.4
2.5°	1439.5	1470.0	1471.0	1484.7	1498.5	1498.5	1531.0	1523.1	1494.6	1489.6	1469.0
5°	1450.3	1461.1	1469.0	1538.8	1597.9	1592.0	1609.7	1597.9	1542.8	1471.9	1423.7
7.5°	1356.8	1368.6	1400.1	1519.2	1598.9	1625.4	1658.9	1585.1	1527.0	1399.1	1306.6
10°	1232.8	1255.5	1313.5	1449.3	1547.7	1632.3	1632.3	1573.3	1461.1	1336.2	1223.0
12.5°	1164.0	1209.2	1240.7	1378.5	1506.4	1564.4	1562.5	1531.0	1458.2	1300.7	1172.8
15°	1175.8	1188.6	1255.5	1362.7	1447.3	1444.4	1479.8	1470.0	1418.8	1332.2	1191.5
17.5°	1229.9	1249.6	1307.6	1362.7	1403.1	1391.3	1390.3	1437.5	1440.5	1385.4	1261.4
20°	1318.4	1376.5	1404.0	1420.8	1371.6	1321.4	1315.5	1381.4	1432.6	1453.2	1345.0
22.5°	1460.1	1498.5	1554.6	1469.0	1341.1	1278.1	1266.3	1339.1	1442.4	1533.9	1453.2
25°	1598.9	1628.4	1682.5	1572.3	1375.5	1269.3	1248.6	1311.6	1479.8	1646.1	1584.1
27.5°	1745.5	1771.0	1777.0	1648.1	1394.2	1251.5	1226.9	1311.6	1511.3	1705.1	1740.5
30°	1835.0	1865.5	1871.4	1715.0	1424.7	1266.3	1254.5	1317.5	1532.9	1755.3	1852.7
32.5°	1935.4	1943.2	1938.3	1726.8	1458.2	1309.6	1260.4	1356.8	1557.5	1815.3	1955.0
35°	2055.4	2069.2	2019.0	1780.9	1532.9	1337.1	1319.4	1405.0	1599.8	1842.9	2079.0
37.5°	2146.9	2190.2	2077.0	1801.6	1547.7	1395.2	1398.1	1505.4	1629.4	1876.3	2215.8
40°	2319.1	2246.3	2175.4	1872.4	1603.8	1493.6	1477.8	1608.7	1728.7	1898.0	2305.3
42.5°	2413.5	2375.2	2213.8	1879.3	1690.4	1629.4	1633.3	1725.8	1780.9	1959.0	2329.9
45°	2437.2	2396.8	2266.0	1884.2	1776.0	1789.7	1857.6	1875.3	1857.6	1999.3	2376.2
47.5°	2497.2	2409.6	2260.1	1950.1	1914.7	1967.8	2054.4	2092.8	1961.9	1984.6	2397.8
50°	2485.4	2435.2	2247.3	1977.7	2083.9	2224.6	2282.7	2266.9	2078.0	1954.1	2374.2
52.5°	2436.2	2382.1	2286.6	2052.4	2242.3	2412.6	2493.2	2453.9	2181.3	2022.9	2358.4
55°	2508.0	2466.7	2337.8	2153.8	2361.4	2577.9	2634.9	2605.4	2308.3	2086.9	2448.0
57.5°	2585.7	2576.9	2476.5	2272.8	2502.1	2748.1	2748.1	2711.7	2418.5	2179.4	2580.8
60°	2697.9	2717.6	2578.8	2351.6	2550.3	2738.2	2880.9	2838.6	2529.6	2341.7	2731.4
62.5°	2661.5	2724.5	2710.7	2520.8	2605.4	2786.5	2864.2	2895.7	2667.4	2539.5	2932.1
65°	2544.4	2611.3	2709.7	2632.0	2564.1	2669.4	2708.7	2804.2	2736.3	2725.4	3014.7
67.5°	2404.7	2477.5	2538.5	2706.8	2480.5	2550.3	2515.9	2546.4	2661.5	2929.1	3061.9
70°	2099.7	2169.5	2266.0	2540.5	2259.1	2196.1	2187.2	2172.5	2351.6	2856.3	2847.5
72.5°	1726.8	1759.2	1918.6	2065.2	1671.7	1659.9	1673.6	1656.9	1864.5	2585.7	2439.1
75°	1292.9	1325.3	1415.9	1586.1	1138.4	1070.5	1149.2	1226.9	1423.7	2007.2	1752.4
77.5°	972.1	1013.4	1070.5	1186.6	835.3	729.1	739.9	813.7	1029.2	1607.7	981.9
80°	630.7	625.8	736.0	816.7	628.7	648.4	620.9	675.0	745.8	859.9	501.8
82.5°	364.0	369.0	415.2	468.3	437.8	500.8	361.1	603.1	532.3	350.3	186.9
85°	204.7	213.5	255.8	324.7	274.5	184.0	150.5	299.1	334.5	143.7	90.5
87.5°	20.7	17.7	34.4	123.0	74.8	30.5	45.3	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°	1385.4	1385.4	1385.4	1385.4	1385.4	1385.4	1385.4	1385.4	1385.4	1385.4	1385.4
2.5°	1439.5	1439.5	1414.9	1373.5	1356.8	1327.3	1287.0	1299.8	1286.0	1235.8	1223.0
5°	1380.4	1333.2	1282.0	1219.1	1182.7	1107.9	1084.3	1042.0	1048.9	1006.5	1008.5
7.5°	1257.4	1220.1	1133.5	1050.8	979.0	914.1	822.6	788.1	754.7	737.9	757.6
10°	1185.6	1115.8	997.7	889.5	794.0	736.0	675.0	627.7	584.4	552.0	545.1
12.5°	1133.5	1071.5	928.8	797.0	722.2	675.0	618.9	553.9	511.6	455.6	438.8
15°	1117.7	1042.0	891.4	760.6	687.8	610.0	546.1	482.1	427.0	368.0	347.3
17.5°	1171.8	1084.3	890.4	731.0	628.7	545.1	456.5	384.7	328.6	274.5	261.7
20°	1263.3	1129.5	919.0	713.3	572.6	460.5	360.1	288.3	225.3	189.9	181.0
22.5°	1367.6	1206.3	921.9	666.1	516.6	375.9	262.7	189.9	154.5	137.7	132.8
25°	1495.6	1329.3	957.4	627.7	450.6	285.3	186.9	145.6	125.0	115.1	113.2
27.5°	1600.8	1414.9	995.7	587.4	385.7	211.5	146.6	119.1	108.2	98.4	97.4
30°	1710.0	1513.3	1006.5	562.8	329.6	174.2	125.9	105.3	93.5	88.6	87.6
32.5°	1805.5	1620.5	1041.0	522.5	276.5	153.5	114.1	94.5	86.6	78.7	77.7
35°	1928.5	1682.5	1057.7	500.8	256.8	138.7	104.3	86.6	74.8	69.9	67.9
37.5°	2060.3	1742.5	1068.5	484.1	240.1	129.9	98.4	81.7	70.8	64.0	62.0
40°	2183.3	1827.1	1052.8	463.4	227.3	119.1	94.5	75.8	65.9	59.0	56.1
42.5°	2277.8	1909.8	1047.9	443.7	213.5	115.1	89.5	72.8	62.0	54.1	53.1
45°	2330.9	1965.9	1013.4	428.0	202.7	117.1	87.6	68.9	59.0	52.1	48.2
47.5°	2318.1	2009.2	1022.3	423.1	187.9	109.2	86.6	65.9	54.1	48.2	45.3
50°	2388.9	2096.7	1007.5	407.3	177.1	98.4	94.5	65.9	53.1	46.2	43.3
52.5°	2400.8	2176.4	1039.0	378.8	160.4	90.5	93.5	64.9	51.2	44.3	40.3
55°	2499.1	2268.9	1100.0	363.1	146.6	78.7	85.6	63.0	46.2	40.3	38.4
57.5°	2633.0	2460.8	1139.4	348.3	127.9	68.9	71.8	62.0	42.3	37.4	34.4
60°	2761.9	2537.5	1142.3	321.7	110.2	62.0	56.1	62.0	39.4	33.5	30.5
62.5°	2858.3	2537.5	1122.6	299.1	96.4	55.1	49.2	59.0	35.4	29.5	27.5
65°	2806.1	2469.6	1071.5	280.4	87.6	48.2	42.3	45.3	31.5	25.6	23.6
67.5°	2712.7	2258.1	958.3	257.8	86.6	42.3	36.4	33.5	27.5	22.6	20.7
70°	2563.1	1972.8	798.0	232.2	84.6	38.4	32.5	28.5	24.6	19.7	17.7
72.5°	2065.2	1629.4	655.3	217.4	82.6	33.5	27.5	24.6	20.7	16.7	14.8
75°	1430.6	1041.0	504.7	186.0	80.7	30.5	25.6	21.6	17.7	13.8	12.8
77.5°	858.0	695.6	325.7	139.7	53.1	24.6	21.6	16.7	14.8	11.8	10.8
80°	401.4	328.6	131.8	54.1	25.6	17.7	14.8	12.8	11.8	9.8	8.9
82.5°	157.4	138.7	64.0	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°	1385.4	1385.4	1385.4	1385.4	1385.4	1385.4	1385.4	1385.4	1385.4	1385.4	1385.4
2.5°	1216.1	1230.9	1207.3	1222.0	1201.4	1217.1	1219.1	1204.3	1208.2	1227.9	1236.8
5°	1036.1	1026.2	1004.6	997.7	998.7	985.9	990.8	997.7	1008.5	1014.4	1032.1
7.5°	746.8	769.4	768.4	785.2	786.1	784.2	770.4	740.9	750.7	742.9	752.7
10°	534.3	544.1	562.8	573.6	593.3	582.5	551.0	539.2	533.3	532.3	542.1
12.5°	427.0	403.4	401.4	405.4	415.2	402.4	386.7	372.9	379.8	393.6	404.4
15°	330.6	310.9	285.3	281.4	283.4	277.5	260.7	243.0	247.9	261.7	269.6
17.5°	253.9	231.2	213.5	201.7	197.8	177.1	152.5	137.7	133.8	132.8	139.7
20°	171.2	167.3	164.3	149.6	149.6	120.0	99.4	88.6	88.6	90.5	91.5
22.5°	127.9	123.0	124.0	121.0	113.2	89.5	78.7	75.8	75.8	77.7	77.7
25°	111.2	104.3	102.3	101.3	93.5	76.7	68.9	65.9	65.9	67.9	67.9
27.5°	94.5	92.5	89.5	85.6	78.7	65.9	61.0	58.1	59.0	60.0	59.0
30°	86.6	81.7	77.7	77.7	69.9	59.0	55.1	53.1	51.2	53.1	54.1
32.5°	76.7	73.8	71.8	68.9	60.0	52.1	48.2	46.2	45.3	45.3	46.2
35°	65.9	65.9	64.0	60.0	52.1	47.2	42.3	40.3	39.4	40.3	40.3
37.5°	59.0	56.1	57.1	53.1	46.2	41.3	36.4	34.4	34.4	33.5	34.4
40°	55.1	50.2	47.2	45.3	41.3	35.4	31.5	29.5	28.5	28.5	28.5
42.5°	49.2	45.3	39.4	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°	33.5	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°	1385.4	1385.4	1385.4	1385.4	1385.4	1385.4	1385.4	1385.4	1385.4	1385.4
2.5°	1249.6	1243.7	1273.2	1321.4	1346.0	1394.2	1406.0	1436.5	1428.6	1439.5
5°	1034.1	1045.9	1089.2	1160.0	1185.6	1255.5	1321.4	1387.3	1429.6	1450.3
7.5°	767.5	806.8	859.9	924.9	990.8	1082.3	1194.5	1271.2	1312.5	1356.8
10°	571.7	614.0	675.0	738.9	846.2	948.5	1060.7	1156.1	1191.5	1232.8
12.5°	449.6	515.6	586.4	655.3	719.2	816.7	955.4	1094.1	1132.5	1164.0
15°	312.9	393.6	494.9	584.4	674.0	758.6	902.3	1070.5	1122.6	1175.8
17.5°	173.2	237.1	353.2	479.2	611.0	740.9	920.0	1113.8	1192.5	1229.9
20°	100.4	125.9	208.6	358.1	532.3	702.5	928.8	1195.5	1299.8	1318.4
22.5°	82.6	91.5	118.1	224.3	435.9	677.9	974.1	1309.6	1415.9	1460.1
25°	70.8	77.7	91.5	134.8	329.6	625.8	1002.6	1452.3	1550.7	1598.9
27.5°	63.0	69.9	80.7	99.4	224.3	553.9	1049.8	1581.2	1679.5	1745.5
30°	55.1	61.0	71.8	84.6	155.5	473.3	1090.2	1675.6	1814.3	1835.0
32.5°	49.2	54.1	62.0	72.8	115.1	359.1	1122.6	1773.0	1890.1	1935.4
35°	42.3	48.2	53.1	62.0	87.6	270.6	1103.0	1848.8	2001.3	2055.4
37.5°	37.4	41.3	46.2	52.1	73.8	211.5	1062.6	1939.3	2096.7	2146.9
40°	31.5	34.4	40.3	46.2	66.9	163.3	1016.4	2048.5	2230.5	2319.1
42.5°	26.6	29.5	33.5	43.3	55.1	121.0	922.9	2133.1	2338.8	2413.5
45°	20.7	24.6	30.5	43.3	44.3	89.5	826.5	2196.1	2399.8	2437.2
47.5°	15.7	19.7	29.5	37.4	35.4	62.0	712.4	2267.9	2462.7	2497.2
50°	11.8	15.7	33.5	32.5	29.5	47.2	640.5	2318.1	2466.7	2485.4
52.5°	7.9	11.8	27.5	24.6	24.6	41.3	620.9	2316.1	2476.5	2436.2
55°	5.9	8.9	15.7	17.7	21.6	36.4	603.1	2389.9	2479.5	2508.0
57.5°	3.9	6.9	10.8	13.8	18.7	31.5	566.7	2478.5	2571.0	2585.7
60°	2.0	4.9	7.9	10.8	15.7	27.5	515.6	2543.4	2682.2	2697.9
62.5°	1.0	3.0	5.9	8.9	12.8	21.6	462.4	2440.1	2633.9	2661.5
65°	0.0	2.0	3.9	5.9	7.9	15.7	375.9	2203.0	2443.1	2544.4
67.5°	0.0	0.0	2.0	3.9	4.9	11.8	283.4	2004.2	2266.9	2404.7
70°	0.0	0.0	1.0	1.0	3.0	8.9	181.0	1659.9	2023.9	2099.7
72.5°	0.0	0.0	0.0	0.0	1.0	5.9	105.3	1232.8	1586.1	1726.8
75°	0.0	0.0	0.0	0.0	0.0	4.9	53.1	793.0	1104.0	1292.9
77.5°	0.0	0.0	0.0	0.0	0.0	3.9	28.5	511.6	813.7	972.1
80°	0.0	0.0	0.0	0.0	0.0	1.0	16.7	297.1	520.5	630.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.9	145.6	310.9	364.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	77.7	155.5	204.7
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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