

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: P675854

Luminaire Tested: **CCW-SA-1B-750-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675854
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-750-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
SLL distribution lens
Light Source: (16) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

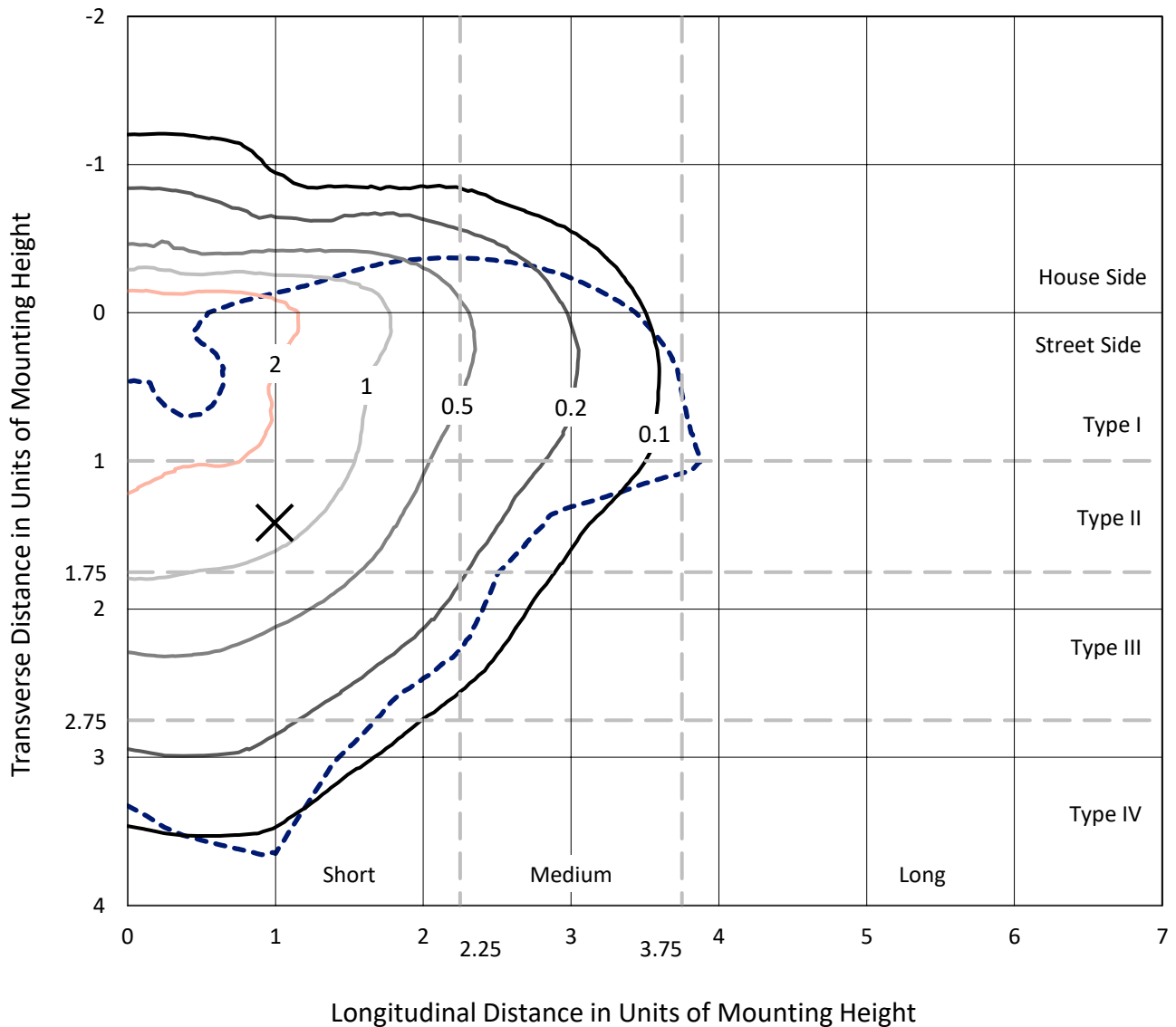
Lumens per Lamp: N/A
Luminaire Lumens: 2931.1 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 24
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

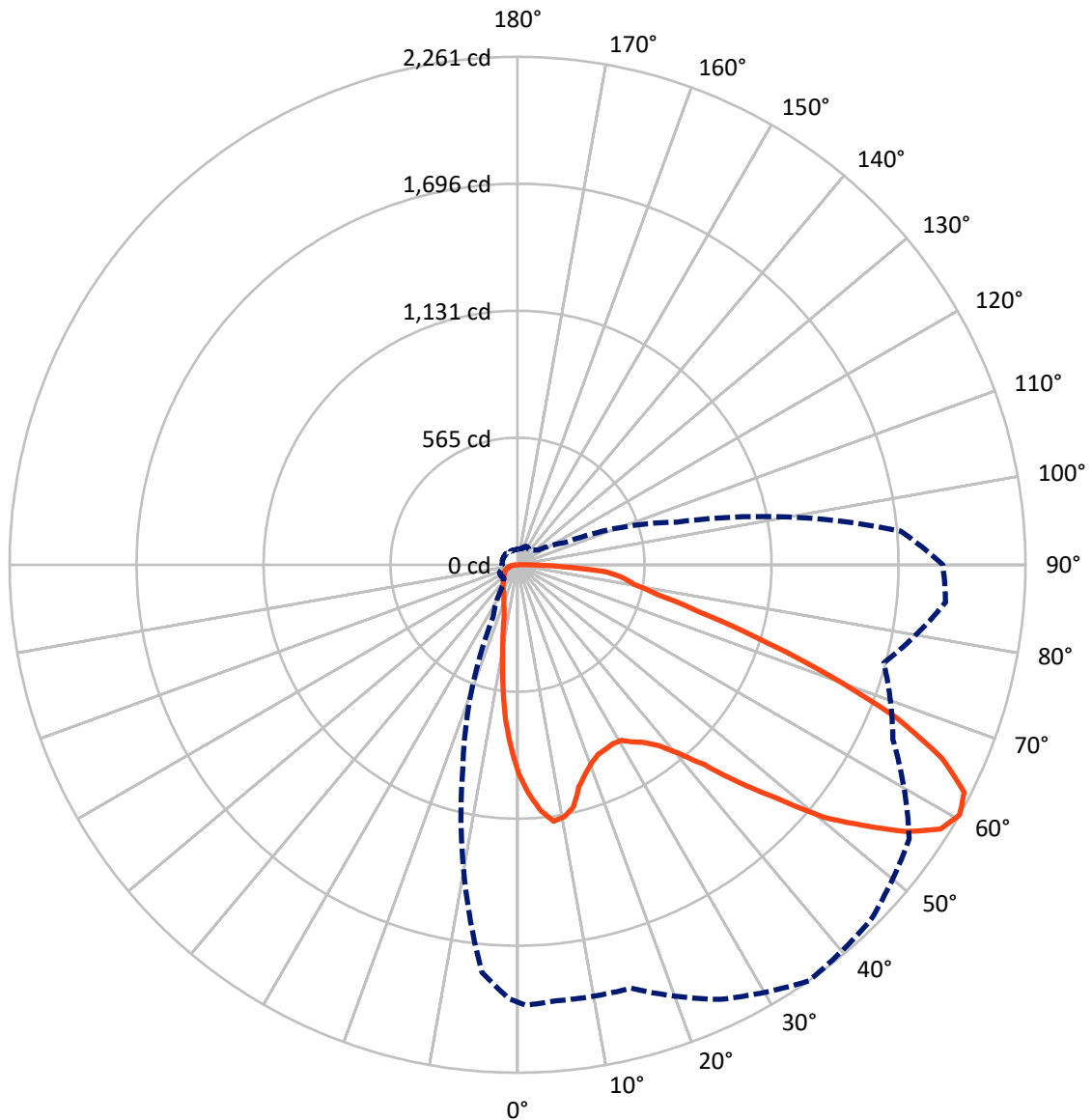
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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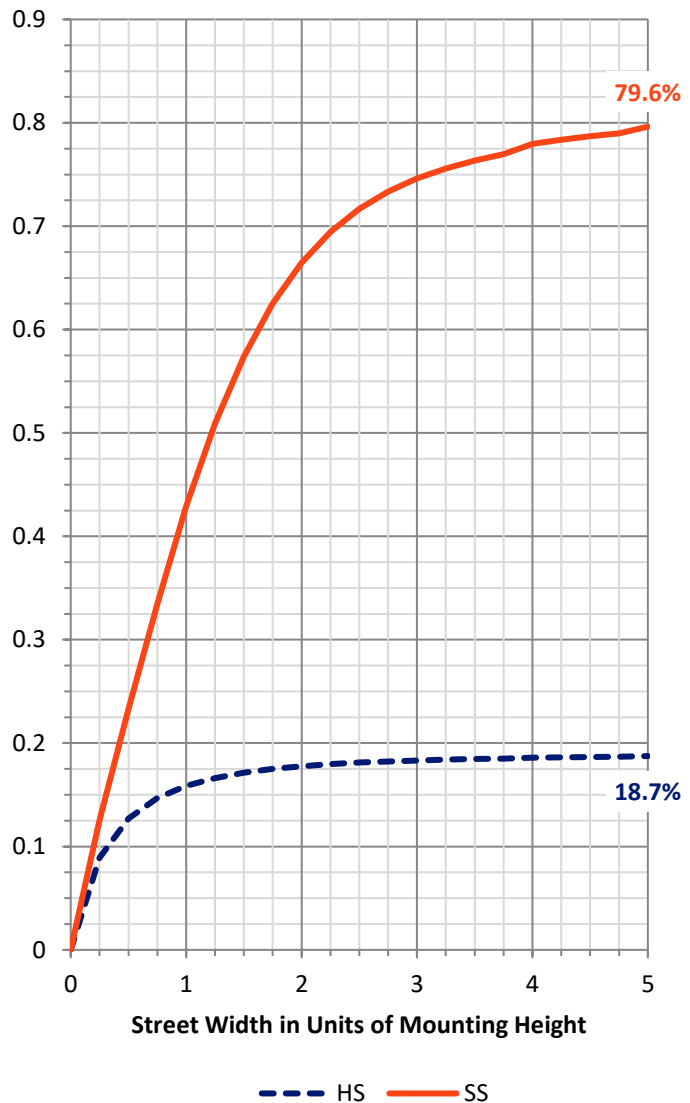
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	557.8	0.0	557.8
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	2373.3	0.0	2373.3
	% Fixture	81.0	0.0	81.0
Total	Lumens	2931.1	0.0	2931.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.7	2.5
10°-20°	153.6	5.2
20°-30°	224.7	7.7
30°-40°	316.5	10.8
40°-50°	435.0	14.8
50°-60°	592.9	20.2
60°-70°	648.9	22.1
70°-80°	374.6	12.8
80°-90°	112.2	3.8
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°	2931.1	100.0
0°-180°	2931.1	100.0

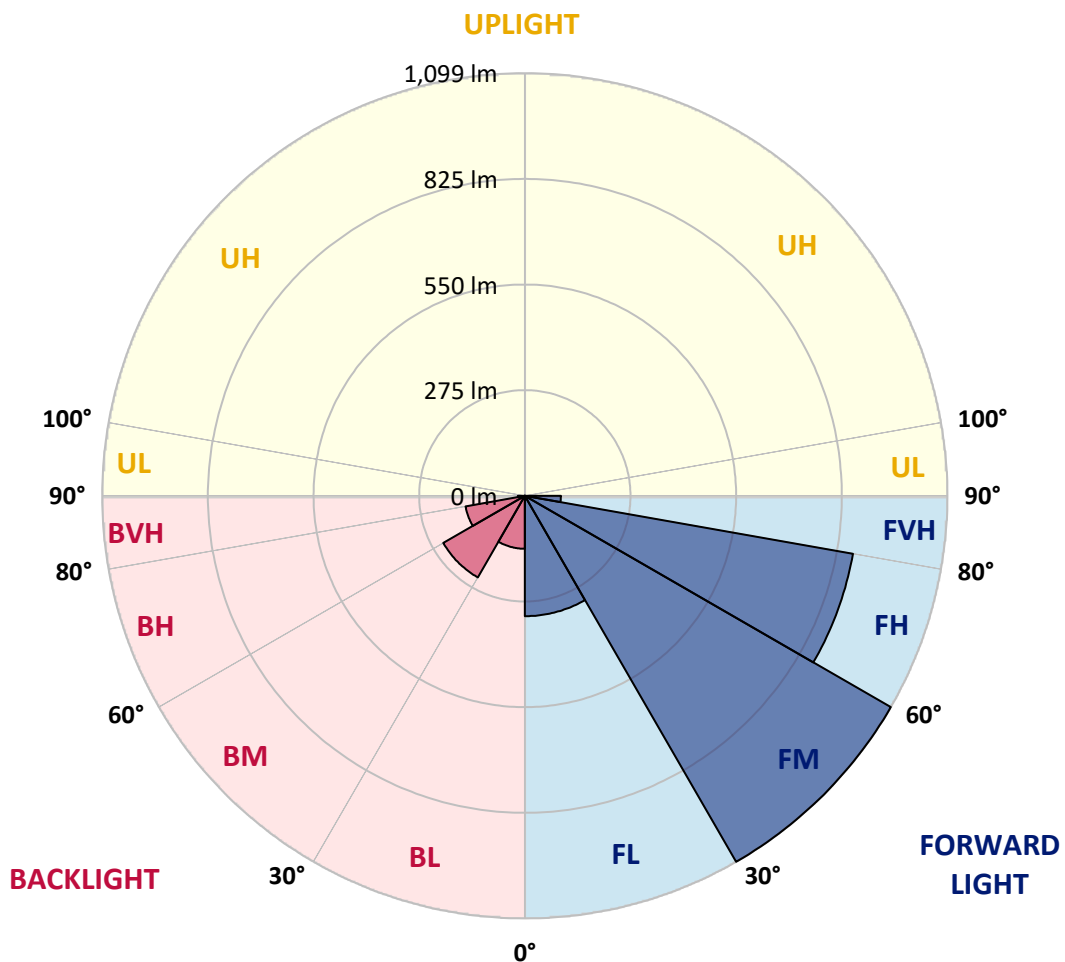


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	313.1	10.7			
FM (30°-60°)	1099.4	37.5			
FH (60°-80°)	866.9	29.6			G1/1800
FVH (80°-90°)	93.9	3.2			G1/100
BL (0°-30°)	137.8	4.7	B1/500		
BM (30°-60°)	245.0	8.4	B1/1000		
BH (60°-80°)	156.7	5.3	B1/500		G1/500
BVH (80°-90°)	18.3	0.6			G1/100
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°	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2
2.5°	1002.5	998.6	1002.5	1016.8	1020.7	1027.2	1027.2	1018.1	1001.2	993.4	980.4
5°	1024.6	1018.1	1050.6	1080.5	1103.9	1101.3	1079.2	1061.0	1027.2	976.5	928.4
7.5°	980.4	986.9	1010.3	1088.3	1142.9	1153.3	1118.2	1081.8	1009.0	938.8	873.8
10°	897.2	906.3	957.0	1037.6	1123.4	1140.3	1118.2	1074.0	986.9	899.8	824.4
12.5°	856.9	877.7	907.6	1005.1	1066.2	1106.5	1096.1	1067.5	970.0	867.3	794.5
15°	856.9	862.1	906.3	988.2	1023.3	1024.6	1028.5	1033.7	975.2	881.6	784.1
17.5°	884.2	898.5	936.2	986.9	993.4	977.8	977.8	999.9	985.6	921.9	821.8
20°	950.5	945.3	994.7	1015.5	980.4	941.4	937.5	975.2	997.3	964.8	890.7
22.5°	1016.8	1040.2	1080.5	1033.7	968.7	916.7	911.5	958.3	1032.4	1038.9	970.0
25°	1116.9	1140.3	1161.1	1103.9	967.4	910.2	914.1	950.5	1075.3	1144.2	1102.6
27.5°	1224.9	1239.2	1269.1	1180.6	998.6	902.4	906.3	960.9	1115.6	1213.2	1206.7
30°	1286.0	1301.6	1295.1	1195.0	1019.4	907.6	897.2	975.2	1093.5	1213.2	1274.3
32.5°	1345.8	1336.7	1332.8	1218.4	1045.4	940.1	914.1	1005.1	1106.5	1232.7	1361.4
35°	1418.6	1405.6	1395.2	1263.9	1088.3	971.3	959.6	1044.1	1135.1	1273.0	1431.6
37.5°	1499.2	1499.2	1448.5	1297.7	1139.0	1022.0	1009.0	1100.0	1180.6	1297.7	1527.8
40°	1594.1	1598.0	1508.3	1343.2	1196.3	1102.6	1098.7	1172.8	1224.9	1334.1	1620.1
42.5°	1664.4	1667.0	1560.3	1360.1	1262.6	1214.5	1231.4	1289.9	1275.6	1366.6	1626.6
45°	1712.5	1699.5	1596.7	1408.2	1335.4	1382.2	1387.4	1404.3	1341.9	1386.1	1652.6
47.5°	1735.9	1733.3	1612.3	1464.1	1488.8	1552.5	1582.4	1559.0	1403.0	1365.3	1652.6
50°	1759.3	1737.2	1626.6	1540.8	1638.3	1767.1	1760.6	1717.7	1487.5	1391.3	1627.9
52.5°	1774.9	1755.4	1655.3	1609.7	1781.4	1927.0	1953.0	1873.7	1586.3	1439.4	1639.6
55°	1830.8	1815.2	1741.1	1703.4	1946.5	2096.0	2099.9	1989.4	1690.4	1518.7	1716.4
57.5°	1898.4	1907.5	1859.4	1836.0	2072.6	2219.6	2205.3	2075.2	1778.8	1614.9	1804.8
60°	1946.5	1960.8	1949.1	1951.7	2135.1	2261.2	2228.7	2128.6	1843.8	1687.8	1912.7
62.5°	1920.5	1949.1	1997.2	1986.8	2137.7	2231.3	2185.8	2058.3	1851.6	1782.7	1994.6
65°	1849.0	1851.6	1945.2	2002.4	2020.6	2076.5	2016.7	1911.4	1771.0	1841.2	1982.9
67.5°	1665.7	1686.5	1771.0	1882.8	1806.1	1819.1	1813.9	1661.8	1648.7	1800.9	1893.2
70°	1470.6	1484.9	1577.2	1708.6	1525.2	1464.1	1475.8	1362.7	1416.0	1676.1	1712.5
72.5°	1215.8	1224.9	1330.2	1445.9	1223.6	1114.3	1141.6	1049.3	1124.7	1466.7	1444.6
75°	918.0	934.9	1016.8	1153.3	901.1	830.9	858.2	820.5	890.7	1208.0	1120.8
77.5°	652.7	639.7	741.2	902.4	677.4	635.8	638.4	644.9	720.4	1018.1	804.9
80°	444.7	448.6	539.6	661.8	531.8	525.3	518.8	570.8	604.6	806.2	585.1
82.5°	264.0	264.0	364.1	470.7	420.0	473.3	443.4	490.2	473.3	592.9	383.6
85°	123.5	123.5	187.2	339.4	325.1	390.1	331.6	370.6	349.8	413.5	172.9
87.5°	20.8	18.2	37.7	166.4	133.9	152.1	59.8	197.6	219.7	288.7	42.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2
2.5°	966.1	957.0	938.8	915.4	895.9	871.2	863.4	846.5	823.1	820.5	810.1
5°	910.2	879.0	840.0	791.9	759.4	725.6	696.9	680.0	660.5	657.9	652.7
7.5°	849.1	810.1	745.1	687.8	631.9	578.6	552.6	520.1	498.0	481.1	473.3
10°	791.9	755.5	674.8	596.8	547.4	512.3	481.1	447.3	420.0	399.2	391.4
12.5°	754.2	711.3	624.1	550.0	513.6	473.3	438.2	401.8	366.7	339.4	325.1
15°	737.3	696.9	608.5	526.6	473.3	417.4	377.1	340.7	297.8	278.3	271.8
17.5°	777.6	717.8	603.3	499.3	423.9	360.2	310.8	271.8	240.6	221.0	213.2
20°	829.6	755.5	612.4	466.8	377.1	305.6	251.0	209.3	188.5	174.2	172.9
22.5°	895.9	811.4	626.7	443.4	325.1	245.8	196.3	171.6	157.3	156.0	153.4
25°	1014.2	912.8	650.1	412.2	283.5	202.8	167.7	153.4	146.9	143.0	145.6
27.5°	1115.6	979.1	667.0	392.7	266.6	191.1	162.5	146.9	140.4	139.1	140.4
30°	1175.4	1040.2	661.8	356.3	232.7	182.0	172.9	167.7	154.7	144.3	144.3
32.5°	1230.1	1079.2	660.5	323.8	198.9	152.1	144.3	140.4	148.2	153.4	149.5
35°	1305.5	1140.3	656.6	305.6	184.6	140.4	127.4	117.0	111.8	109.2	113.1
37.5°	1386.1	1181.9	646.2	303.0	176.8	133.9	123.5	113.1	107.9	105.3	104.0
40°	1474.5	1226.2	634.5	290.0	172.9	130.0	119.6	110.5	104.0	100.1	98.8
42.5°	1531.7	1261.3	622.8	283.5	165.1	127.4	115.7	107.9	101.4	96.2	96.2
45°	1564.2	1302.9	611.1	277.0	156.0	128.7	115.7	105.3	97.5	94.9	92.3
47.5°	1578.5	1334.1	607.2	266.6	148.2	123.5	113.1	102.7	94.9	89.7	88.4
50°	1616.2	1400.4	621.5	258.8	139.1	118.3	119.6	101.4	93.6	87.1	85.8
52.5°	1638.3	1453.7	652.7	247.1	132.6	111.8	117.0	98.8	89.7	83.2	83.2
55°	1719.0	1542.1	686.5	238.0	124.8	102.7	107.9	93.6	83.2	79.3	79.3
57.5°	1821.7	1635.7	715.2	234.0	119.6	96.2	96.2	91.0	79.3	74.1	72.8
60°	1893.2	1712.5	732.1	231.4	114.4	89.7	85.8	91.0	75.4	70.2	68.9
62.5°	1901.0	1668.3	715.2	230.1	113.1	83.2	78.0	87.1	71.5	66.3	63.7
65°	1851.6	1578.5	668.3	224.9	111.8	76.7	72.8	75.4	66.3	62.4	59.8
67.5°	1752.8	1432.9	600.7	222.3	110.5	71.5	66.3	65.0	61.1	57.2	54.6
70°	1522.6	1243.1	521.4	210.6	107.9	67.6	59.8	58.5	54.6	52.0	50.7
72.5°	1278.2	1016.8	430.4	195.0	102.7	61.1	54.6	52.0	50.7	46.8	45.5
75°	979.1	782.8	344.6	172.9	89.7	54.6	48.1	45.5	44.2	41.6	40.3
77.5°	687.8	582.5	254.9	140.4	75.4	49.4	42.9	40.3	39.0	35.1	35.1
80°	466.8	408.3	172.9	97.5	58.5	40.3	37.7	35.1	32.5	29.9	29.9
82.5°	290.0	286.1	124.8	63.7	42.9	32.5	29.9	29.9	26.0	23.4	23.4
85°	132.6	175.5	87.1	44.2	32.5	24.7	24.7	23.4	20.8	16.9	16.9
87.5°	41.6	58.5	45.5	19.5	18.2	14.3	14.3	13.0	13.0	10.4	10.4
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2
2.5°	820.5	819.2	819.2	814.0	827.0	827.0	834.8	828.3	832.2	833.5	843.9
5°	651.4	661.8	669.6	685.2	694.3	698.2	698.2	708.6	704.7	712.6	728.2
7.5°	477.2	490.2	513.6	533.1	548.7	553.9	552.6	555.2	559.1	550.0	552.6
10°	386.2	377.1	384.9	403.1	417.4	434.3	421.3	420.0	423.9	420.0	427.8
12.5°	322.5	312.1	305.6	305.6	316.0	323.8	319.9	326.4	340.7	344.6	353.7
15°	261.4	252.3	247.1	240.6	251.0	253.6	257.5	266.6	277.0	282.2	292.6
17.5°	209.3	209.3	209.3	204.1	208.0	211.9	213.2	224.9	226.2	231.4	235.3
20°	171.6	175.5	182.0	184.6	188.5	188.5	185.9	192.4	187.2	191.1	193.7
22.5°	154.7	159.9	162.5	163.8	169.0	170.3	163.8	165.1	166.4	162.5	163.8
25°	145.6	148.2	145.6	146.9	148.2	145.6	146.9	149.5	148.2	150.8	149.5
27.5°	141.7	139.1	137.8	136.5	136.5	133.9	135.2	135.2	137.8	139.1	139.1
30°	141.7	137.8	132.6	128.7	128.7	124.8	127.4	130.0	131.3	133.9	133.9
32.5°	145.6	137.8	128.7	124.8	120.9	118.3	120.9	124.8	130.0	131.3	132.6
35°	115.7	119.6	118.3	113.1	111.8	111.8	110.5	110.5	106.6	106.6	105.3
37.5°	104.0	102.7	105.3	106.6	107.9	104.0	104.0	98.8	97.5	98.8	98.8
40°	97.5	97.5	97.5	101.4	102.7	100.1	96.2	93.6	93.6	93.6	94.9
42.5°	94.9	92.3	91.0	93.6	97.5	94.9	91.0	89.7	89.7	91.0	91.0
45°	91.0	89.7	88.4	87.1	92.3	88.4	87.1	85.8	85.8	85.8	87.1
47.5°	87.1	85.8	83.2	83.2	84.5	83.2	81.9	81.9	81.9	84.5	84.5
50°	84.5	83.2	80.6	80.6	80.6	80.6	79.3	79.3	79.3	80.6	81.9
52.5°	80.6	79.3	78.0	76.7	76.7	76.7	76.7	76.7	76.7	78.0	79.3
55°	76.7	75.4	74.1	74.1	75.4	75.4	74.1	75.4	74.1	75.4	76.7
57.5°	72.8	71.5	70.2	71.5	72.8	71.5	71.5	71.5	71.5	71.5	72.8
60°	67.6	67.6	67.6	67.6	70.2	70.2	70.2	70.2	67.6	68.9	70.2
62.5°	65.0	63.7	63.7	65.0	66.3	66.3	67.6	66.3	65.0	66.3	66.3
65°	59.8	59.8	59.8	61.1	61.1	62.4	62.4	62.4	61.1	62.4	62.4
67.5°	55.9	55.9	55.9	55.9	58.5	58.5	58.5	58.5	57.2	57.2	58.5
70°	49.4	50.7	49.4	52.0	54.6	53.3	54.6	54.6	53.3	52.0	54.6
72.5°	45.5	45.5	45.5	45.5	49.4	49.4	49.4	50.7	49.4	48.1	49.4
75°	40.3	40.3	40.3	41.6	44.2	44.2	44.2	44.2	44.2	42.9	42.9
77.5°	35.1	36.4	35.1	36.4	39.0	37.7	39.0	40.3	39.0	37.7	37.7
80°	29.9	29.9	29.9	31.2	32.5	32.5	32.5	33.8	32.5	31.2	31.2
82.5°	23.4	23.4	24.7	24.7	26.0	26.0	26.0	27.3	26.0	24.7	24.7
85°	18.2	18.2	18.2	19.5	19.5	20.8	20.8	22.1	22.1	20.8	20.8
87.5°	11.7	10.4	11.7	11.7	13.0	13.0	11.7	10.4	11.7	10.4	9.1
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°	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2
2.5°	854.3	877.7	894.6	906.3	923.2	955.7	968.7	992.1	998.6	1002.5
5°	734.7	759.4	795.8	821.8	851.7	912.8	959.6	994.7	1010.3	1024.6
7.5°	576.0	608.5	646.2	680.0	729.5	804.9	866.0	938.8	966.1	980.4
10°	449.9	479.8	521.4	563.0	631.9	695.6	782.8	849.1	886.8	897.2
12.5°	379.7	414.8	464.2	514.9	557.8	630.6	719.1	815.3	850.4	856.9
15°	322.5	370.6	421.3	473.3	522.7	586.4	681.3	798.4	850.4	856.9
17.5°	266.6	309.5	369.3	425.2	482.4	569.5	687.8	812.7	864.7	884.2
20°	211.9	253.6	300.4	370.6	448.6	540.9	702.1	860.8	929.7	950.5
22.5°	175.5	193.7	239.3	306.9	399.2	521.4	716.5	936.2	1009.0	1016.8
25°	153.4	166.4	195.0	258.8	360.2	508.4	750.3	1023.3	1116.9	1116.9
27.5°	143.0	148.2	167.7	224.9	332.9	496.7	784.1	1119.5	1206.7	1224.9
30°	140.4	153.4	163.8	200.2	303.0	464.2	815.3	1195.0	1284.7	1286.0
32.5°	137.8	135.2	143.0	174.2	266.6	430.4	841.3	1271.7	1341.9	1345.8
35°	107.9	113.1	126.1	153.4	239.3	405.7	854.3	1313.3	1414.7	1418.6
37.5°	101.4	107.9	118.3	141.7	221.0	384.9	858.2	1393.9	1491.4	1499.2
40°	98.8	104.0	111.8	131.3	206.7	358.9	866.0	1477.1	1604.5	1594.1
42.5°	93.6	100.1	107.9	126.1	195.0	339.4	867.3	1522.6	1664.4	1664.4
45°	92.3	96.2	105.3	126.1	182.0	322.5	846.5	1568.1	1733.3	1712.5
47.5°	87.1	94.9	102.7	122.2	166.4	305.6	821.8	1591.5	1742.4	1735.9
50°	85.8	93.6	106.6	115.7	157.3	297.8	816.6	1650.0	1760.6	1759.3
52.5°	83.2	91.0	110.5	110.5	145.6	287.4	841.3	1676.1	1764.5	1774.9
55°	79.3	91.0	102.7	101.4	135.2	274.4	868.6	1743.7	1833.4	1830.8
57.5°	76.7	88.4	97.5	92.3	123.5	265.3	908.9	1808.7	1916.6	1898.4
60°	72.8	88.4	87.1	85.8	114.4	257.5	942.7	1821.7	1934.8	1946.5
62.5°	70.2	92.3	76.7	79.3	106.6	253.6	928.4	1724.2	1910.1	1920.5
65°	67.6	79.3	70.2	72.8	104.0	245.8	872.5	1607.1	1803.5	1849.0
67.5°	62.4	65.0	65.0	67.6	101.4	227.5	758.1	1396.5	1640.9	1665.7
70°	57.2	58.5	58.5	62.4	98.8	206.7	625.4	1208.0	1423.8	1470.6
72.5°	52.0	52.0	52.0	57.2	91.0	189.8	514.9	928.4	1183.3	1215.8
75°	45.5	45.5	45.5	50.7	81.9	172.9	405.7	690.4	871.2	918.0
77.5°	40.3	40.3	39.0	45.5	71.5	140.4	292.6	487.6	613.7	652.7
80°	33.8	32.5	32.5	36.4	55.9	101.4	188.5	344.6	427.8	444.7
82.5°	27.3	26.0	24.7	27.3	40.3	63.7	117.0	240.6	274.4	264.0
85°	26.0	27.3	22.1	20.8	28.6	41.6	74.1	148.2	123.5	123.5
87.5°	10.4	9.1	9.1	7.8	14.3	15.6	32.5	27.3	20.8	20.8
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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