

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: P676342

Luminaire Tested: **CCW-SA-1C-840-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676342
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-840-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
T2 distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

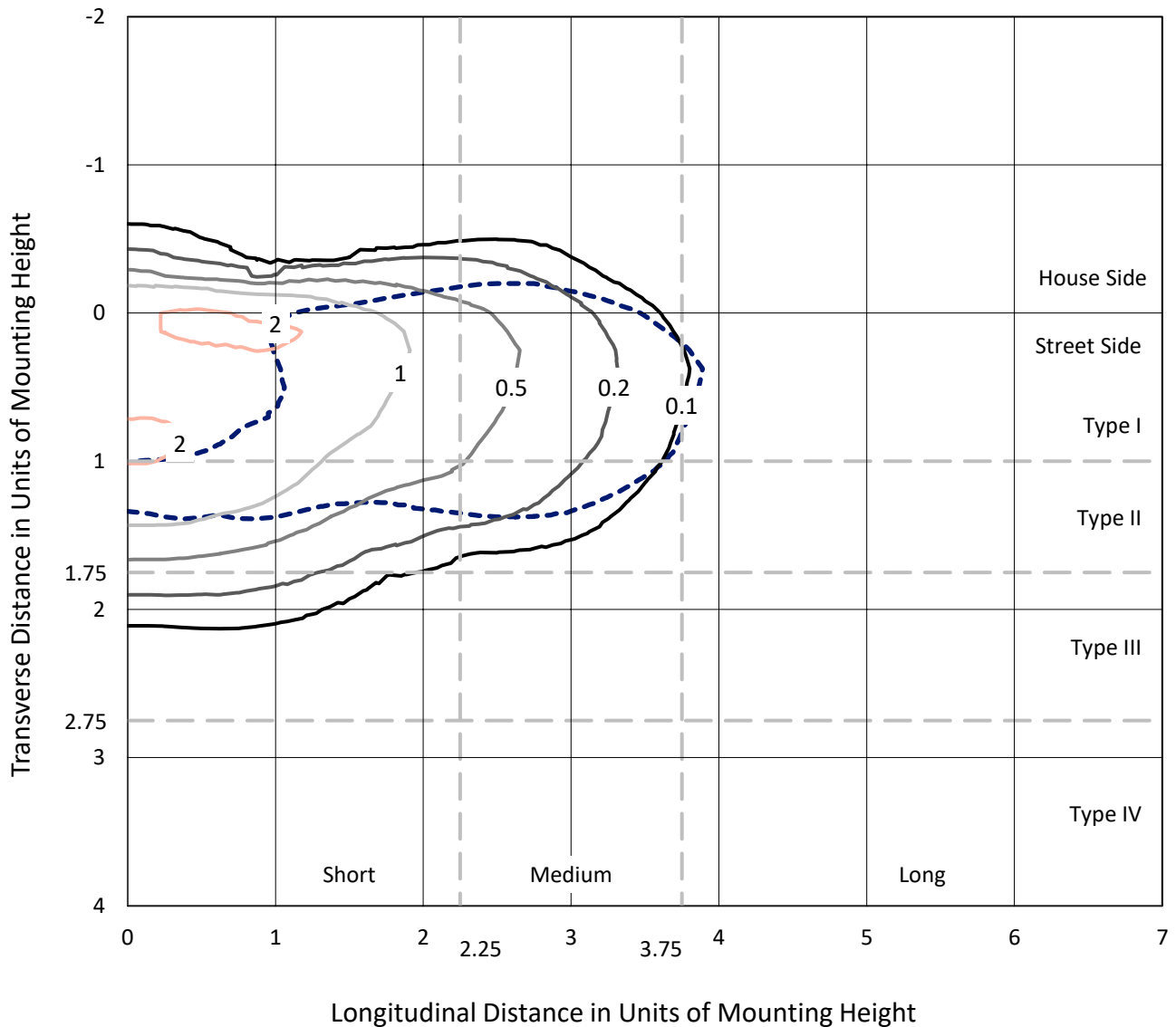
Lumens per Lamp: N/A
Luminaire Lumens: 2976.1 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 32
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

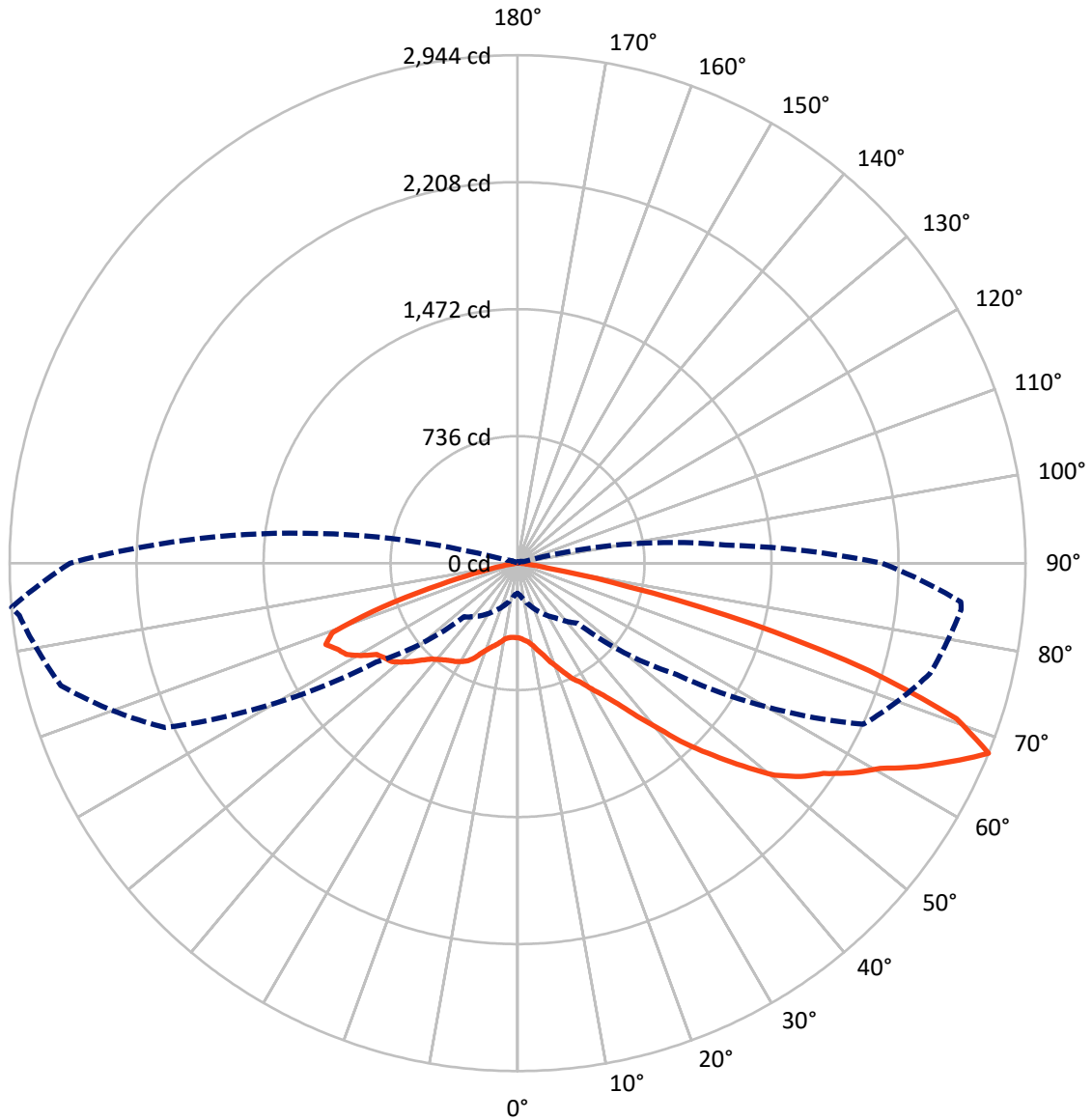
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 275-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	422.8	0.0	422.8
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	2553.3	0.0	2553.3
	% Fixture	85.8	0.0	85.8
Total	Lumens	2976.1	0.0	2976.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.5	1.3
10°-20°	106.1	3.6
20°-30°	176.2	5.9
30°-40°	303.2	10.2
40°-50°	544.8	18.3
50°-60°	775.6	26.1
60°-70°	707.1	23.8
70°-80°	301.1	10.1
80°-90°	22.4	0.8
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°	2976.1	100.0
0°-180°	2976.1	100.0



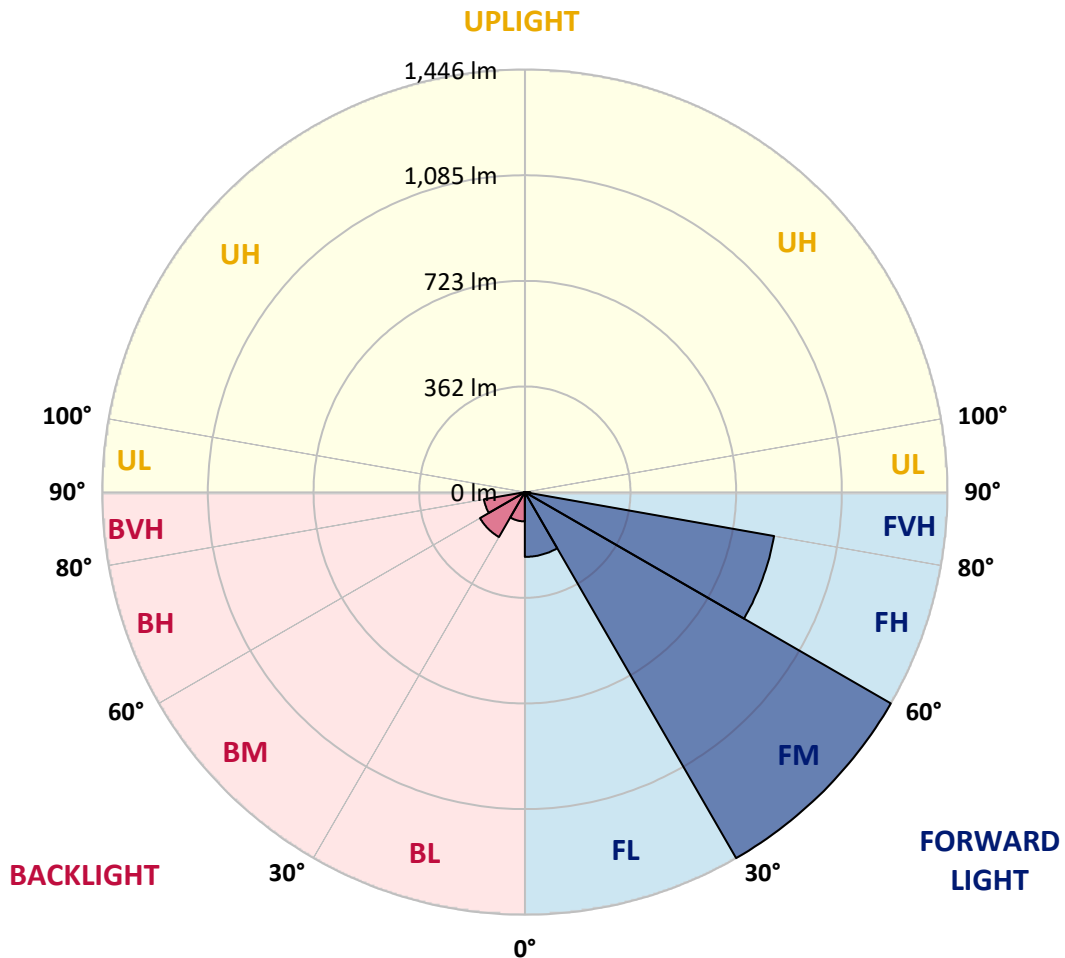
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	221.7	7.4			
FM (30°-60°)	1446.4	48.6			
FH (60°-80°)	866.2	29.1			G1/1800
FVH (80°-90°)	19.0	0.6			G1/100
BL (0°-30°)	100.1	3.4	B0/110		
BM (30°-60°)	177.3	6.0	B0/220		
BH (60°-80°)	142.1	4.8	B1/500		G1/500
BVH (80°-90°)	3.4	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	432.8	432.8	432.8	432.8	432.8	432.8	432.8	432.8	432.8	432.8	432.8
2.5°	448.4	452.6	452.6	451.2	447.0	444.1	442.7	439.9	437.0	437.0	438.4
5°	452.6	448.4	454.0	447.0	447.0	447.0	452.6	449.8	448.4	441.3	441.3
7.5°	452.6	448.4	448.4	452.6	448.4	451.2	458.3	455.5	461.1	448.4	451.2
10°	439.9	438.4	441.3	447.0	448.4	454.0	461.1	475.3	476.8	468.2	466.8
12.5°	414.3	412.9	422.8	425.7	442.7	456.9	478.2	489.5	502.3	498.0	489.5
15°	395.9	398.7	405.8	417.2	432.8	458.3	482.4	508.0	530.7	525.0	522.2
17.5°	403.0	401.5	403.0	410.1	429.9	455.5	496.6	526.4	559.0	559.0	561.9
20°	424.3	428.5	427.1	422.8	432.8	454.0	496.6	549.1	603.0	598.8	598.8
22.5°	461.1	462.6	454.0	451.2	449.8	462.6	505.1	577.5	639.9	648.4	645.6
25°	499.5	500.9	498.0	489.5	478.2	481.0	520.7	600.2	691.0	705.2	702.4
27.5°	563.3	561.9	554.8	544.9	527.8	515.1	544.9	617.2	730.7	754.9	747.8
30°	627.2	622.9	613.0	600.2	584.6	560.5	574.7	649.9	780.4	803.1	787.5
32.5°	705.2	696.7	699.5	679.7	647.0	608.7	605.9	679.7	820.1	852.8	840.0
35°	804.5	794.6	780.4	761.9	730.7	679.7	664.0	727.9	886.8	910.9	910.9
37.5°	935.1	945.0	928.0	851.3	817.3	769.0	736.4	777.6	945.0	1003.2	989.0
40°	1068.4	1076.9	1045.7	989.0	915.2	855.6	835.7	858.4	1033.0	1102.5	1075.5
42.5°	1176.3	1187.6	1176.3	1102.5	1044.3	967.7	932.2	953.5	1146.5	1230.2	1194.7
45°	1289.8	1301.1	1288.4	1240.1	1183.4	1139.4	1050.0	1076.9	1265.7	1390.5	1350.8
47.5°	1374.9	1389.1	1366.4	1356.5	1311.1	1304.0	1152.1	1181.9	1390.5	1552.3	1502.6
50°	1394.8	1410.4	1430.3	1441.6	1426.0	1443.0	1289.8	1315.3	1521.1	1701.3	1653.0
52.5°	1348.0	1363.6	1407.6	1460.0	1532.4	1583.5	1428.8	1450.1	1657.3	1824.7	1799.2
55°	1210.3	1224.5	1313.9	1384.8	1558.0	1641.7	1562.2	1651.6	1755.2	1953.8	1891.4
57.5°	979.0	996.1	1113.8	1223.1	1472.8	1609.0	1641.7	1819.0	1916.9	2048.9	1976.5
60°	695.3	705.2	807.4	1000.3	1237.3	1445.9	1626.1	1943.9	2044.6	2176.6	2138.3
62.5°	400.1	408.6	515.1	696.7	933.6	1207.5	1556.5	2061.7	2182.3	2317.1	2295.8
65°	265.3	268.2	340.5	439.9	607.3	889.7	1380.6	2166.7	2318.5	2429.2	2405.0
67.5°	174.5	190.1	246.9	315.0	388.8	492.4	1125.2	2210.6	2474.6	2585.2	2579.6
70°	124.9	130.5	177.4	242.6	292.3	276.7	658.4	1899.9	2467.5	2627.8	2581.0
72.5°	73.8	79.5	117.8	181.6	229.9	175.9	307.9	1343.7	2044.6	2097.1	2084.4
75°	53.9	53.9	72.4	130.5	167.4	126.3	144.7	849.9	1357.9	1474.2	1472.8
77.5°	38.3	39.7	49.7	78.0	129.1	92.2	79.5	472.5	742.1	811.6	773.3
80°	22.7	24.1	34.1	46.8	93.6	66.7	52.5	215.7	285.2	288.0	273.8
82.5°	17.0	17.0	22.7	32.6	65.3	45.4	32.6	82.3	92.2	83.7	70.9
85°	9.9	8.5	17.0	24.1	38.3	25.5	22.7	38.3	42.6	31.2	28.4
87.5°	2.8	2.8	7.1	8.5	17.0	14.2	9.9	14.2	19.9	11.4	8.5
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°	432.8	432.8	432.8	432.8	432.8	432.8	432.8	432.8	432.8	432.8	432.8
2.5°	435.6	431.3	424.3	421.4	411.5	407.2	404.4	397.3	398.7	394.5	394.5
5°	431.3	431.3	417.2	401.5	385.9	376.0	364.7	350.5	350.5	344.8	346.2
7.5°	447.0	435.6	417.2	388.8	363.2	340.5	330.6	316.4	307.9	303.6	303.6
10°	456.9	445.5	414.3	380.3	347.6	319.3	298.0	278.1	266.8	266.8	265.3
12.5°	483.8	466.8	425.7	378.8	330.6	288.0	255.4	232.7	217.1	205.7	208.6
15°	506.5	488.1	431.3	367.5	300.8	241.2	201.5	158.9	137.6	126.3	122.0
17.5°	542.0	508.0	444.1	347.6	255.4	188.7	130.5	95.1	86.6	85.1	85.1
20°	571.8	532.1	445.5	309.3	210.0	120.6	83.7	78.0	73.8	72.4	70.9
22.5°	613.0	563.3	439.9	265.3	150.4	80.9	70.9	65.3	62.4	58.2	58.2
25°	655.5	604.5	428.5	224.2	92.2	69.5	62.4	56.8	51.1	48.2	49.7
27.5°	700.9	635.7	395.9	174.5	70.9	61.0	51.1	46.8	44.0	42.6	42.6
30°	737.8	655.5	347.6	116.3	63.9	53.9	45.4	41.1	38.3	36.9	36.9
32.5°	764.8	672.6	293.7	78.0	58.2	48.2	41.1	36.9	34.1	32.6	32.6
35°	810.2	685.3	244.1	66.7	52.5	42.6	35.5	32.6	29.8	29.8	29.8
37.5°	879.7	702.4	194.4	61.0	48.2	38.3	34.1	29.8	28.4	27.0	27.0
40°	940.7	723.6	139.1	55.3	44.0	35.5	29.8	27.0	25.5	24.1	24.1
42.5°	1028.7	747.8	90.8	49.7	39.7	32.6	27.0	24.1	22.7	21.3	21.3
45°	1140.8	787.5	70.9	44.0	35.5	29.8	25.5	22.7	19.9	19.9	18.4
47.5°	1260.0	835.7	63.9	41.1	32.6	27.0	22.7	19.9	18.4	17.0	17.0
50°	1370.7	882.6	59.6	38.3	29.8	25.5	21.3	18.4	15.6	14.2	14.2
52.5°	1470.0	926.5	56.8	35.5	28.4	22.7	18.4	15.6	14.2	12.8	12.8
55°	1522.5	946.4	55.3	34.1	25.5	21.3	17.0	14.2	12.8	11.4	11.4
57.5°	1604.8	971.9	53.9	32.6	24.1	18.4	15.6	12.8	11.4	9.9	9.9
60°	1738.2	1055.7	52.5	31.2	22.7	18.4	14.2	11.4	8.5	7.1	7.1
62.5°	1848.8	1125.2	46.8	27.0	19.9	15.6	11.4	8.5	5.7	4.3	4.3
65°	1975.1	1157.8	41.1	24.1	17.0	12.8	8.5	5.7	4.3	1.4	1.4
67.5°	2112.7	1207.5	34.1	21.3	15.6	9.9	7.1	4.3	1.4	0.0	0.0
70°	2040.4	1145.1	28.4	18.4	14.2	8.5	5.7	2.8	0.0	0.0	0.0
72.5°	1599.1	820.1	22.7	17.0	12.8	8.5	5.7	1.4	0.0	0.0	0.0
75°	1068.4	464.0	19.9	14.2	9.9	7.1	4.3	1.4	0.0	0.0	0.0
77.5°	580.3	208.6	17.0	12.8	8.5	5.7	4.3	1.4	0.0	0.0	0.0
80°	188.7	82.3	14.2	11.4	8.5	5.7	4.3	1.4	0.0	0.0	0.0
82.5°	51.1	25.5	14.2	11.4	8.5	5.7	4.3	1.4	0.0	0.0	0.0
85°	21.3	17.0	14.2	11.4	8.5	5.7	4.3	1.4	0.0	0.0	0.0
87.5°	8.5	5.7	5.7	7.1	5.7	4.3	2.8	1.4	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°	432.8	432.8	432.8	432.8	432.8	432.8	432.8	432.8	432.8	432.8	432.8
2.5°	395.9	398.7	400.1	400.1	407.2	414.3	422.8	429.9	429.9	434.2	438.4
5°	347.6	350.5	354.7	367.5	381.7	397.3	412.9	424.3	439.9	447.0	451.2
7.5°	307.9	310.7	322.1	334.9	354.7	381.7	408.6	434.2	449.8	456.9	462.6
10°	266.8	271.0	283.8	306.5	332.0	364.7	395.9	439.9	465.4	479.6	485.3
12.5°	207.2	218.5	235.5	259.7	292.3	342.0	400.1	445.5	489.5	506.5	517.9
15°	130.5	140.5	167.4	205.7	249.7	307.9	388.8	454.0	515.1	532.1	550.5
17.5°	83.7	85.1	93.6	134.8	191.6	265.3	371.8	466.8	543.4	567.6	595.9
20°	70.9	73.8	75.2	80.9	127.7	218.5	336.3	482.4	577.5	610.1	637.1
22.5°	59.6	61.0	63.9	68.1	76.6	158.9	288.0	482.4	607.3	655.5	686.7
25°	48.2	51.1	53.9	58.2	66.7	99.3	238.4	473.9	642.8	702.4	742.1
27.5°	42.6	42.6	45.4	49.7	56.8	69.5	188.7	448.4	669.7	730.7	783.2
30°	36.9	38.3	39.7	44.0	51.1	61.0	130.5	407.2	698.1	786.1	845.7
32.5°	32.6	32.6	35.5	38.3	45.4	55.3	83.7	344.8	735.0	828.6	912.4
35°	29.8	29.8	31.2	34.1	41.1	49.7	65.3	292.3	779.0	909.5	1001.7
37.5°	27.0	27.0	28.4	31.2	36.9	44.0	59.6	251.1	824.4	990.4	1125.2
40°	24.1	24.1	25.5	28.4	32.6	39.7	53.9	202.9	881.1	1109.6	1260.0
42.5°	21.3	21.3	22.7	25.5	29.8	35.5	46.8	151.8	956.3	1238.7	1434.5
45°	18.4	18.4	19.9	22.7	25.5	32.6	42.6	116.3	1038.6	1382.0	1587.8
47.5°	15.6	17.0	18.4	21.3	24.1	29.8	38.3	102.2	1119.5	1533.8	1758.0
50°	14.2	14.2	15.6	18.4	22.7	27.0	35.5	100.7	1201.8	1650.2	1932.5
52.5°	12.8	12.8	14.2	17.0	21.3	25.5	34.1	103.6	1269.9	1758.0	2054.6
55°	11.4	11.4	12.8	14.2	18.4	24.1	31.2	106.4	1318.2	1867.3	2152.5
57.5°	9.9	9.9	11.4	14.2	17.0	21.3	28.4	109.3	1396.2	1975.1	2294.4
60°	7.1	7.1	9.9	12.8	15.6	18.4	27.0	112.1	1521.1	2124.1	2415.0
62.5°	4.3	4.3	5.7	9.9	12.8	17.0	24.1	106.4	1637.4	2315.6	2599.4
65°	1.4	2.8	4.3	5.7	9.9	14.2	19.9	96.5	1735.3	2507.2	2769.7
67.5°	0.0	0.0	1.4	4.3	8.5	11.4	17.0	70.9	1750.9	2593.8	2944.2
70°	0.0	0.0	1.4	4.3	7.1	11.4	15.6	39.7	1491.3	2317.1	2698.8
72.5°	0.0	0.0	0.0	2.8	7.1	9.9	14.2	29.8	1099.6	1746.7	2132.6
75°	0.0	0.0	0.0	1.4	5.7	8.5	12.8	22.7	668.3	1164.9	1391.9
77.5°	0.0	0.0	0.0	1.4	4.3	8.5	12.8	19.9	235.5	554.8	654.1
80°	0.0	0.0	0.0	2.8	5.7	8.5	11.4	17.0	56.8	139.1	187.3
82.5°	0.0	0.0	0.0	1.4	4.3	7.1	9.9	14.2	22.7	41.1	65.3
85°	0.0	0.0	0.0	1.4	2.8	7.1	9.9	12.8	15.6	19.9	28.4
87.5°	0.0	0.0	0.0	0.0	1.4	2.8	4.3	5.7	5.7	5.7	9.9
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):

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	432.8	432.8	432.8	432.8	432.8	432.8	432.8	432.8	432.8	432.8
2.5°	437.0	442.7	445.5	451.2	454.0	452.6	451.2	455.5	452.6	448.4
5°	452.6	452.6	456.9	458.3	458.3	454.0	456.9	455.5	452.6	452.6
7.5°	469.7	476.8	476.8	468.2	466.8	464.0	464.0	452.6	448.4	452.6
10°	486.7	492.4	493.8	483.8	471.1	465.4	458.3	444.1	437.0	439.9
12.5°	522.2	522.2	506.5	495.2	478.2	458.3	441.3	421.4	411.5	414.3
15°	547.7	553.4	532.1	506.5	476.8	439.9	421.4	405.8	400.1	395.9
17.5°	597.4	586.0	552.0	515.1	472.5	434.2	421.4	407.2	403.0	403.0
20°	639.9	634.2	583.2	516.5	471.1	445.5	437.0	429.9	428.5	424.3
22.5°	698.1	672.6	607.3	532.1	486.7	464.0	461.1	468.2	464.0	461.1
25°	742.1	720.8	625.7	554.8	510.8	503.7	508.0	515.1	503.7	499.5
27.5°	801.7	761.9	661.2	584.6	543.4	550.5	564.7	566.1	559.0	563.3
30°	857.0	814.4	688.2	618.6	598.8	605.9	627.2	642.8	632.8	627.2
32.5°	936.5	871.2	742.1	675.4	668.3	686.7	710.9	720.8	708.0	705.2
35°	1020.2	936.5	797.4	739.2	752.0	777.6	798.8	815.9	796.0	804.5
37.5°	1150.7	1041.5	891.1	840.0	845.7	855.6	895.3	942.2	952.1	935.1
40°	1286.9	1155.0	977.6	937.9	950.7	977.6	1024.4	1068.4	1091.1	1068.4
42.5°	1444.4	1264.2	1111.0	1064.2	1076.9	1115.3	1177.7	1213.2	1210.3	1176.3
45°	1638.8	1416.1	1235.9	1177.7	1224.5	1258.6	1321.0	1325.3	1298.3	1289.8
47.5°	1787.8	1543.8	1370.7	1333.8	1397.6	1399.0	1413.2	1414.6	1384.8	1374.9
50°	1952.4	1691.3	1521.1	1467.1	1575.0	1525.3	1487.0	1461.5	1416.1	1394.8
52.5°	2114.2	1796.3	1660.1	1604.8	1716.9	1584.9	1515.4	1437.3	1370.7	1348.0
55°	2200.7	1969.4	1863.0	1733.9	1748.1	1601.9	1427.4	1329.5	1216.0	1210.3
57.5°	2302.9	2085.8	2034.7	1821.9	1695.6	1482.8	1244.4	1115.3	993.2	979.0
60°	2423.5	2270.2	2216.3	1807.7	1509.7	1245.8	986.1	820.1	705.2	695.3
62.5°	2558.3	2488.8	2328.4	1668.6	1199.0	876.9	651.3	512.2	405.8	400.1
65°	2771.1	2671.8	2388.0	1404.7	793.2	561.9	432.8	332.0	268.2	265.3
67.5°	2904.5	2741.3	2254.6	1001.7	439.9	371.8	303.6	241.2	185.9	174.5
70°	2715.8	2515.7	1783.6	573.2	255.4	282.4	234.1	161.8	127.7	124.9
72.5°	2169.5	1867.3	1200.4	269.6	158.9	221.3	170.3	109.3	76.6	73.8
75°	1479.9	1174.9	753.4	124.9	112.1	161.8	124.9	63.9	53.9	53.9
77.5°	661.2	598.8	385.9	76.6	83.7	123.4	72.4	44.0	39.7	38.3
80°	201.5	211.4	157.5	52.5	62.4	93.6	44.0	29.8	24.1	22.7
82.5°	68.1	79.5	70.9	31.2	42.6	66.7	29.8	19.9	17.0	17.0
85°	32.6	39.7	35.5	19.9	22.7	32.6	24.1	15.6	9.9	9.9
87.5°	12.8	18.4	12.8	8.5	12.8	17.0	9.9	7.1	2.8	2.8
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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