

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: P676233

Luminaire Tested: **CCW-SA-1D-722-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676233
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-722-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
T2 distribution lens and House Side Shield
Light Source: (16) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

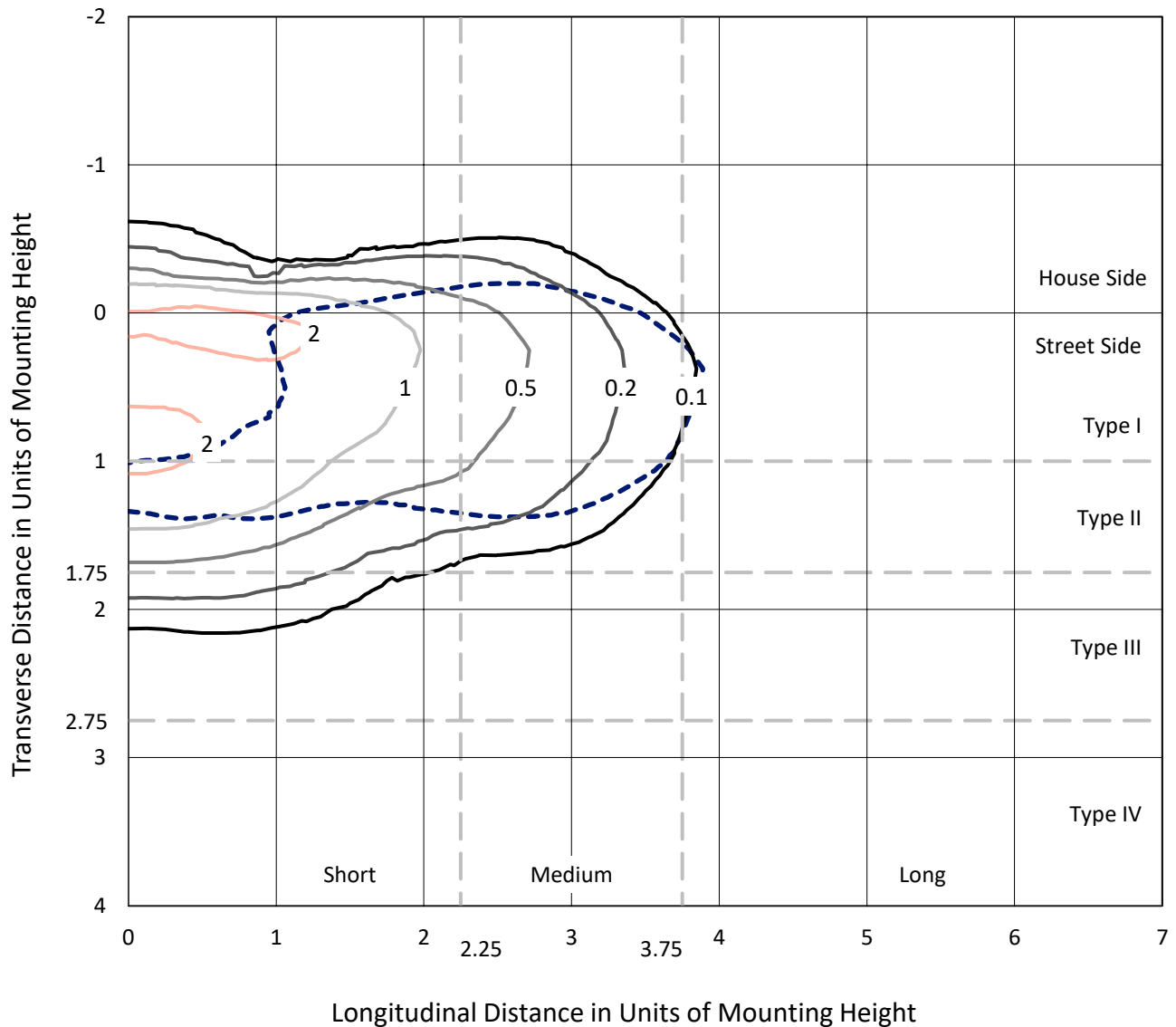
Lumens per Lamp: N/A
Luminaire Lumens: 3171.5 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 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

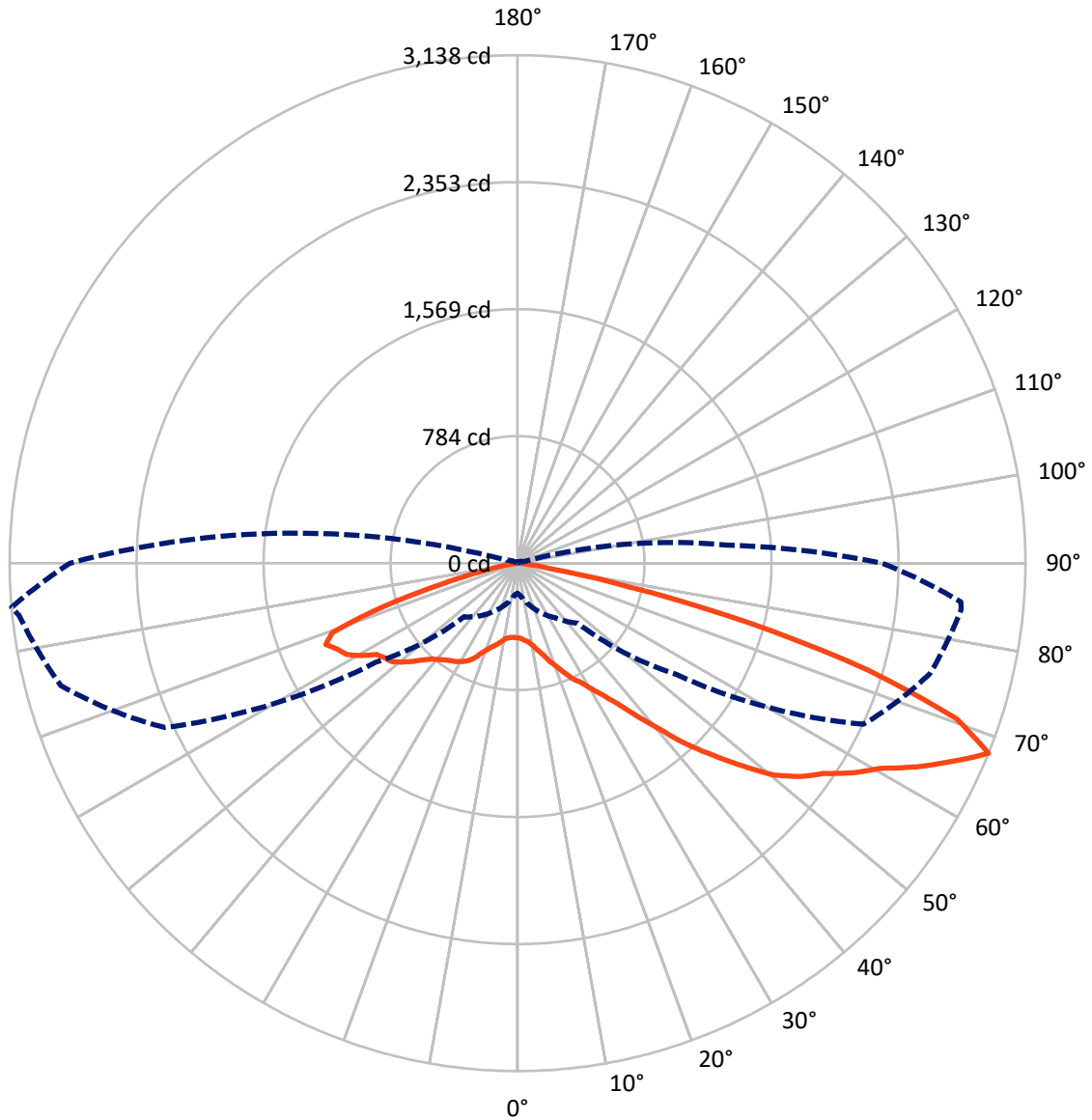
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.4 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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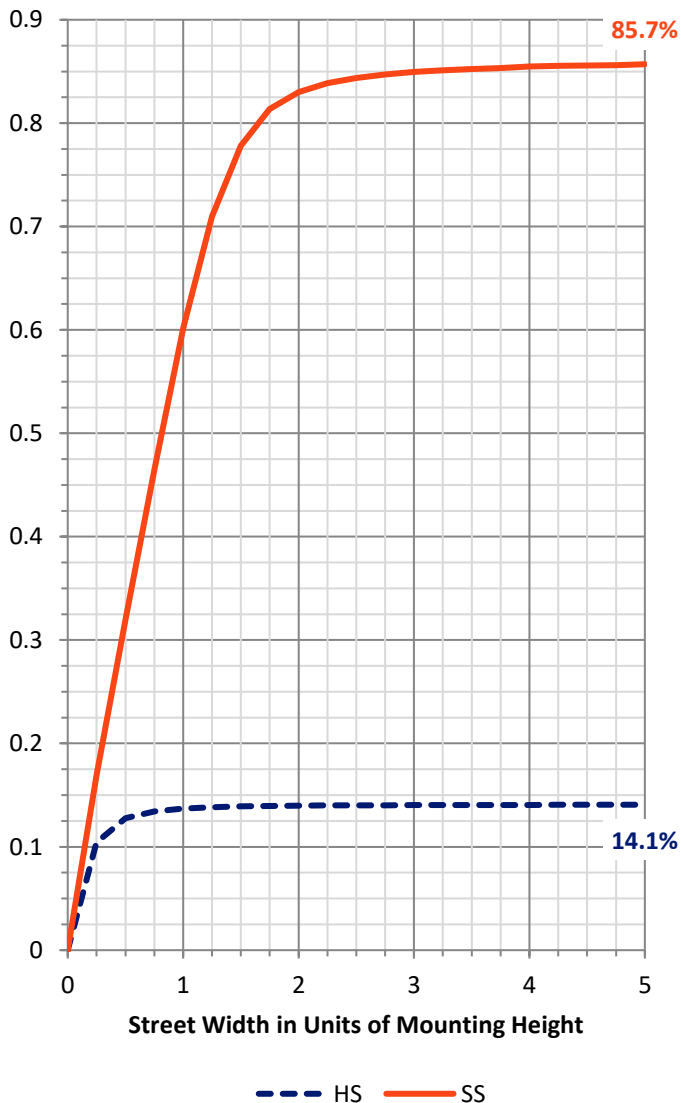
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	450.6	0.0	450.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	2720.9	0.0	2720.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	3171.5	0.0	3171.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.0	1.3
10°-20°	113.1	3.6
20°-30°	187.8	5.9
30°-40°	323.1	10.2
40°-50°	580.6	18.3
50°-60°	826.6	26.1
60°-70°	753.5	23.8
70°-80°	320.9	10.1
80°-90°	23.9	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°	3171.5	100.0
0°-180°	3171.5	100.0



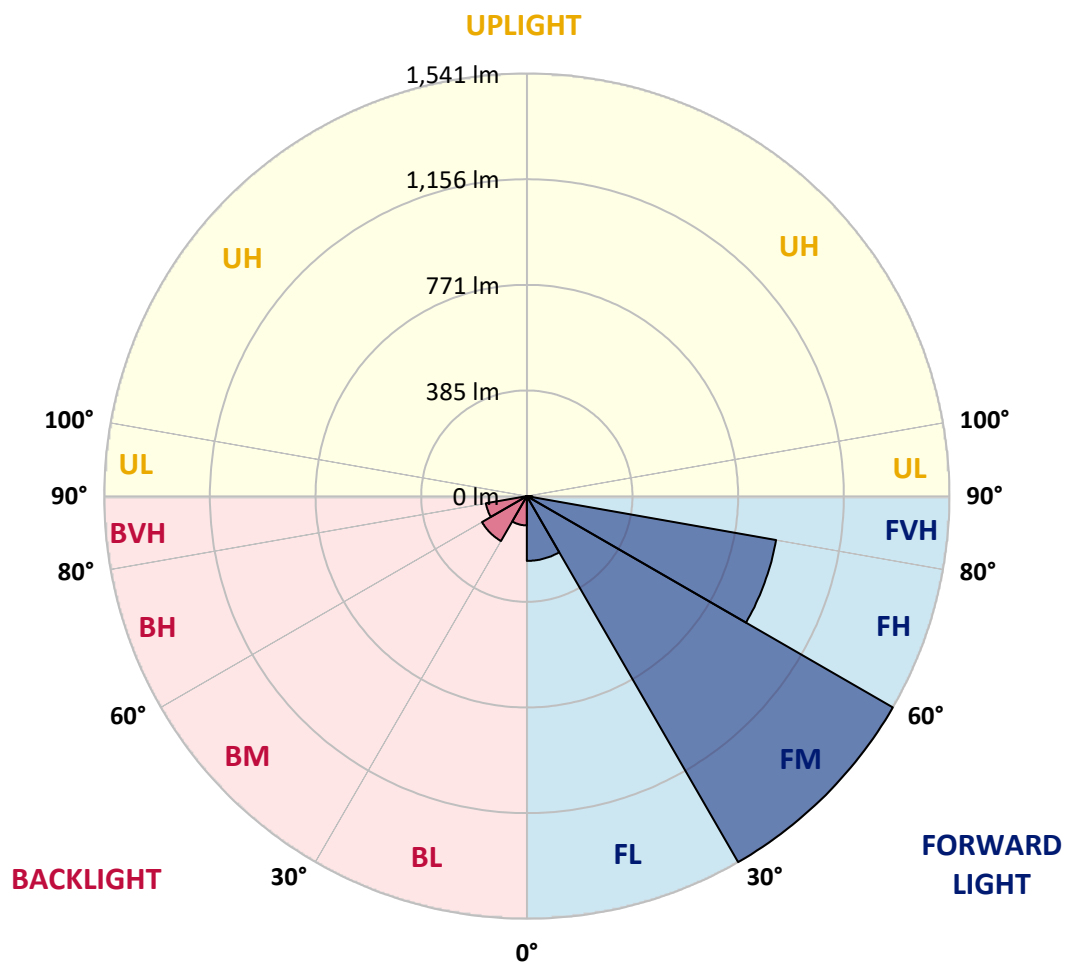
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	236.3	7.4			
FM (30°-60°)	1541.3	48.6			
FH (60°-80°)	923.0	29.1			G1/1800
FVH (80°-90°)	20.3	0.6			G1/100
BL (0°-30°)	106.7	3.4	B0/110		
BM (30°-60°)	188.9	6.0	B0/220		
BH (60°-80°)	151.4	4.8	B1/500		G1/500
BVH (80°-90°)	3.6	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°	461.2	461.2	461.2	461.2	461.2	461.2	461.2	461.2	461.2	461.2	461.2
2.5°	477.8	482.3	482.3	480.8	476.3	473.3	471.8	468.7	465.7	465.7	467.2
5°	482.3	477.8	483.9	476.3	476.3	476.3	482.3	479.3	477.8	470.3	470.3
7.5°	482.3	477.8	477.8	482.3	477.8	480.8	488.4	485.4	491.4	477.8	480.8
10°	468.7	467.2	470.3	476.3	477.8	483.9	491.4	506.5	508.1	499.0	497.5
12.5°	441.5	440.0	450.6	453.6	471.8	486.9	509.6	521.7	535.3	530.7	521.7
15°	421.9	424.9	432.5	444.5	461.2	488.4	514.1	541.3	565.5	559.5	556.4
17.5°	429.4	427.9	429.4	437.0	458.2	485.4	529.2	561.0	595.8	595.8	598.8
20°	452.1	456.6	455.1	450.6	461.2	483.9	529.2	585.2	642.6	638.1	638.1
22.5°	491.4	492.9	483.9	480.8	479.3	492.9	538.3	615.4	681.9	691.0	688.0
25°	532.2	533.8	530.7	521.7	509.6	512.6	554.9	639.6	736.4	751.5	748.5
27.5°	600.3	598.8	591.2	580.6	562.5	548.9	580.6	657.7	778.7	804.4	796.9
30°	668.3	663.8	653.2	639.6	623.0	597.3	612.4	692.5	831.6	855.8	839.2
32.5°	751.5	742.4	745.4	724.3	689.5	648.7	645.7	724.3	874.0	908.8	895.1
35°	857.3	846.8	831.6	812.0	778.7	724.3	707.6	775.7	945.0	970.7	970.7
37.5°	996.5	1007.0	988.9	907.2	871.0	819.5	784.8	828.6	1007.0	1069.0	1053.9
40°	1138.6	1147.7	1114.4	1053.9	975.3	911.8	890.6	914.8	1100.8	1174.9	1146.1
42.5°	1253.5	1265.6	1253.5	1174.9	1112.9	1031.2	993.4	1016.1	1221.8	1311.0	1273.2
45°	1374.5	1386.6	1373.0	1321.5	1261.1	1214.2	1118.9	1147.7	1348.8	1481.8	1439.5
47.5°	1465.2	1480.3	1456.1	1445.5	1397.2	1389.6	1227.8	1259.6	1481.8	1654.2	1601.3
50°	1486.4	1503.0	1524.2	1536.3	1519.6	1537.8	1374.5	1401.7	1620.9	1813.0	1761.6
52.5°	1436.5	1453.1	1500.0	1555.9	1633.0	1687.5	1522.7	1545.3	1766.1	1944.5	1917.3
55°	1289.8	1304.9	1400.2	1475.8	1660.2	1749.5	1664.8	1760.0	1870.4	2082.1	2015.6
57.5°	1043.3	1061.5	1187.0	1303.4	1569.5	1714.7	1749.5	1938.5	2042.8	2183.4	2106.3
60°	740.9	751.5	860.4	1066.0	1318.5	1540.8	1732.8	2071.5	2178.9	2319.5	2278.7
62.5°	426.4	435.5	548.9	742.4	994.9	1286.8	1658.7	2197.0	2325.6	2469.2	2446.5
65°	282.8	285.8	362.9	468.7	647.2	948.1	1471.2	2308.9	2470.7	2588.7	2563.0
67.5°	186.0	202.6	263.1	335.7	414.3	524.7	1199.1	2355.8	2637.0	2755.0	2748.9
70°	133.1	139.1	189.0	258.6	311.5	294.9	701.6	2024.7	2629.5	2800.3	2750.5
72.5°	78.6	84.7	125.5	193.5	245.0	187.5	328.1	1431.9	2178.9	2234.8	2221.2
75°	57.5	57.5	77.1	139.1	178.4	134.6	154.2	905.7	1447.0	1571.0	1569.5
77.5°	40.8	42.3	52.9	83.2	137.6	98.3	84.7	503.5	790.8	864.9	824.1
80°	24.2	25.7	36.3	49.9	99.8	71.1	55.9	229.8	303.9	306.9	291.8
82.5°	18.1	18.1	24.2	34.8	69.6	48.4	34.8	87.7	98.3	89.2	75.6
85°	10.6	9.1	18.1	25.7	40.8	27.2	24.2	40.8	45.4	33.3	30.2
87.5°	3.0	3.0	7.6	9.1	18.1	15.1	10.6	15.1	21.2	12.1	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	461.2	461.2	461.2	461.2	461.2	461.2	461.2	461.2	461.2	461.2	461.2
2.5°	464.2	459.7	452.1	449.1	438.5	434.0	430.9	423.4	424.9	420.4	420.4
5°	459.7	459.7	444.5	427.9	411.3	400.7	388.6	373.5	373.5	367.4	368.9
7.5°	476.3	464.2	444.5	414.3	387.1	362.9	352.3	337.2	328.1	323.6	323.6
10°	486.9	474.8	441.5	405.2	370.5	340.2	317.5	296.4	284.3	284.3	282.8
12.5°	515.6	497.5	453.6	403.7	352.3	306.9	272.2	248.0	231.3	219.2	222.3
15°	539.8	520.2	459.7	391.6	320.6	257.1	214.7	169.4	146.7	134.6	130.0
17.5°	577.6	541.3	473.3	370.5	272.2	201.1	139.1	101.3	92.2	90.7	90.7
20°	609.4	567.0	474.8	329.6	223.8	128.5	89.2	83.2	78.6	77.1	75.6
22.5°	653.2	600.3	468.7	282.8	160.3	86.2	75.6	69.6	66.5	62.0	62.0
25°	698.6	644.1	456.6	238.9	98.3	74.1	66.5	60.5	54.4	51.4	52.9
27.5°	747.0	677.4	421.9	186.0	75.6	65.0	54.4	49.9	46.9	45.4	45.4
30°	786.3	698.6	370.5	124.0	68.0	57.5	48.4	43.8	40.8	39.3	39.3
32.5°	815.0	716.7	313.0	83.2	62.0	51.4	43.8	39.3	36.3	34.8	34.8
35°	863.4	730.3	260.1	71.1	55.9	45.4	37.8	34.8	31.8	31.8	31.8
37.5°	937.5	748.5	207.2	65.0	51.4	40.8	36.3	31.8	30.2	28.7	28.7
40°	1002.5	771.2	148.2	59.0	46.9	37.8	31.8	28.7	27.2	25.7	25.7
42.5°	1096.2	796.9	96.8	52.9	42.3	34.8	28.7	25.7	24.2	22.7	22.7
45°	1215.7	839.2	75.6	46.9	37.8	31.8	27.2	24.2	21.2	21.2	19.7
47.5°	1342.7	890.6	68.0	43.8	34.8	28.7	24.2	21.2	19.7	18.1	18.1
50°	1460.7	940.5	63.5	40.8	31.8	27.2	22.7	19.7	16.6	15.1	15.1
52.5°	1566.5	987.4	60.5	37.8	30.2	24.2	19.7	16.6	15.1	13.6	13.6
55°	1622.4	1008.5	59.0	36.3	27.2	22.7	18.1	15.1	13.6	12.1	12.1
57.5°	1710.1	1035.8	57.5	34.8	25.7	19.7	16.6	13.6	12.1	10.6	10.6
60°	1852.3	1125.0	55.9	33.3	24.2	19.7	15.1	12.1	9.1	7.6	7.6
62.5°	1970.2	1199.1	49.9	28.7	21.2	16.6	12.1	9.1	6.0	4.5	4.5
65°	2104.8	1233.8	43.8	25.7	18.1	13.6	9.1	6.0	4.5	1.5	1.5
67.5°	2251.5	1286.8	36.3	22.7	16.6	10.6	7.6	4.5	1.5	0.0	0.0
70°	2174.4	1220.2	30.2	19.7	15.1	9.1	6.0	3.0	0.0	0.0	0.0
72.5°	1704.1	874.0	24.2	18.1	13.6	9.1	6.0	1.5	0.0	0.0	0.0
75°	1138.6	494.4	21.2	15.1	10.6	7.6	4.5	1.5	0.0	0.0	0.0
77.5°	618.4	222.3	18.1	13.6	9.1	6.0	4.5	1.5	0.0	0.0	0.0
80°	201.1	87.7	15.1	12.1	9.1	6.0	4.5	1.5	0.0	0.0	0.0
82.5°	54.4	27.2	15.1	12.1	9.1	6.0	4.5	1.5	0.0	0.0	0.0
85°	22.7	18.1	15.1	12.1	9.1	6.0	4.5	1.5	0.0	0.0	0.0
87.5°	9.1	6.0	6.0	7.6	6.0	4.5	3.0	1.5	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°	461.2	461.2	461.2	461.2	461.2	461.2	461.2	461.2	461.2	461.2	461.2
2.5°	421.9	424.9	426.4	426.4	434.0	441.5	450.6	458.2	458.2	462.7	467.2
5°	370.5	373.5	378.0	391.6	406.7	423.4	440.0	452.1	468.7	476.3	480.8
7.5°	328.1	331.1	343.2	356.8	378.0	406.7	435.5	462.7	479.3	486.9	492.9
10°	284.3	288.8	302.4	326.6	353.8	388.6	421.9	468.7	496.0	511.1	517.1
12.5°	220.8	232.9	251.0	276.7	311.5	364.4	426.4	474.8	521.7	539.8	551.9
15°	139.1	149.7	178.4	219.2	266.1	328.1	414.3	483.9	548.9	567.0	586.7
17.5°	89.2	90.7	99.8	143.6	204.1	282.8	396.2	497.5	579.1	604.8	635.1
20°	75.6	78.6	80.1	86.2	136.1	232.9	358.4	514.1	615.4	650.2	678.9
22.5°	63.5	65.0	68.0	72.6	81.7	169.4	306.9	514.1	647.2	698.6	731.8
25°	51.4	54.4	57.5	62.0	71.1	105.8	254.0	505.0	685.0	748.5	790.8
27.5°	45.4	45.4	48.4	52.9	60.5	74.1	201.1	477.8	713.7	778.7	834.7
30°	39.3	40.8	42.3	46.9	54.4	65.0	139.1	434.0	743.9	837.7	901.2
32.5°	34.8	34.8	37.8	40.8	48.4	59.0	89.2	367.4	783.3	883.0	972.3
35°	31.8	31.8	33.3	36.3	43.8	52.9	69.6	311.5	830.1	969.2	1067.5
37.5°	28.7	28.7	30.2	33.3	39.3	46.9	63.5	267.6	878.5	1055.4	1199.1
40°	25.7	25.7	27.2	30.2	34.8	42.3	57.5	216.2	939.0	1182.4	1342.7
42.5°	22.7	22.7	24.2	27.2	31.8	37.8	49.9	161.8	1019.1	1320.0	1528.7
45°	19.7	19.7	21.2	24.2	27.2	34.8	45.4	124.0	1106.8	1472.8	1692.0
47.5°	16.6	18.1	19.7	22.7	25.7	31.8	40.8	108.9	1193.0	1634.5	1873.5
50°	15.1	15.1	16.6	19.7	24.2	28.7	37.8	107.4	1280.7	1758.5	2059.4
52.5°	13.6	13.6	15.1	18.1	22.7	27.2	36.3	110.4	1353.3	1873.5	2189.5
55°	12.1	12.1	13.6	15.1	19.7	25.7	33.3	113.4	1404.7	1989.9	2293.8
57.5°	10.6	10.6	12.1	15.1	18.1	22.7	30.2	116.4	1487.9	2104.8	2445.0
60°	7.6	7.6	10.6	13.6	16.6	19.7	28.7	119.5	1620.9	2263.6	2573.5
62.5°	4.5	4.5	6.0	10.6	13.6	18.1	25.7	113.4	1744.9	2467.7	2770.1
65°	1.5	3.0	4.5	6.0	10.6	15.1	21.2	102.8	1849.3	2671.8	2951.6
67.5°	0.0	0.0	1.5	4.5	9.1	12.1	18.1	75.6	1865.9	2764.1	3137.5
70°	0.0	0.0	1.5	4.5	7.6	12.1	16.6	42.3	1589.2	2469.2	2876.0
72.5°	0.0	0.0	0.0	3.0	7.6	10.6	15.1	31.8	1171.9	1861.4	2272.6
75°	0.0	0.0	0.0	1.5	6.0	9.1	13.6	24.2	712.2	1241.4	1483.3
77.5°	0.0	0.0	0.0	1.5	4.5	9.1	13.6	21.2	251.0	591.2	697.1
80°	0.0	0.0	0.0	3.0	6.0	9.1	12.1	18.1	60.5	148.2	199.6
82.5°	0.0	0.0	0.0	1.5	4.5	7.6	10.6	15.1	24.2	43.8	69.6
85°	0.0	0.0	0.0	1.5	3.0	7.6	10.6	13.6	16.6	21.2	30.2
87.5°	0.0	0.0	0.0	0.0	1.5	3.0	4.5	6.0	6.0	6.0	10.6
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):

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	461.2	461.2	461.2	461.2	461.2	461.2	461.2	461.2	461.2	461.2
2.5°	465.7	471.8	474.8	480.8	483.9	482.3	480.8	485.4	482.3	477.8
5°	482.3	482.3	486.9	488.4	488.4	483.9	486.9	485.4	482.3	482.3
7.5°	500.5	508.1	508.1	499.0	497.5	494.4	494.4	482.3	477.8	482.3
10°	518.6	524.7	526.2	515.6	502.0	496.0	488.4	473.3	465.7	468.7
12.5°	556.4	556.4	539.8	527.7	509.6	488.4	470.3	449.1	438.5	441.5
15°	583.7	589.7	567.0	539.8	508.1	468.7	449.1	432.5	426.4	421.9
17.5°	636.6	624.5	588.2	548.9	503.5	462.7	449.1	434.0	429.4	429.4
20°	681.9	675.9	621.5	550.4	502.0	474.8	465.7	458.2	456.6	452.1
22.5°	743.9	716.7	647.2	567.0	518.6	494.4	491.4	499.0	494.4	491.4
25°	790.8	768.1	666.8	591.2	544.3	536.8	541.3	548.9	536.8	532.2
27.5°	854.3	812.0	704.6	623.0	579.1	586.7	601.8	603.3	595.8	600.3
30°	913.3	867.9	733.4	659.3	638.1	645.7	668.3	685.0	674.4	668.3
32.5°	998.0	928.4	790.8	719.7	712.2	731.8	757.5	768.1	754.5	751.5
35°	1087.2	998.0	849.8	787.8	801.4	828.6	851.3	869.4	848.3	857.3
37.5°	1226.3	1109.9	949.6	895.1	901.2	911.8	954.1	1004.0	1014.6	996.5
40°	1371.4	1230.8	1041.8	999.5	1013.1	1041.8	1091.7	1138.6	1162.8	1138.6
42.5°	1539.3	1347.3	1183.9	1134.1	1147.7	1188.5	1255.0	1292.8	1289.8	1253.5
45°	1746.4	1509.0	1317.0	1255.0	1304.9	1341.2	1407.7	1412.3	1383.5	1374.5
47.5°	1905.2	1645.1	1460.7	1421.3	1489.4	1490.9	1506.0	1507.5	1475.8	1465.2
50°	2080.6	1802.4	1620.9	1563.5	1678.4	1625.5	1584.6	1557.4	1509.0	1486.4
52.5°	2253.0	1914.3	1769.1	1710.1	1829.6	1689.0	1614.9	1531.7	1460.7	1436.5
55°	2345.2	2098.7	1985.3	1847.7	1862.9	1707.1	1521.1	1416.8	1295.8	1289.8
57.5°	2454.1	2222.7	2168.3	1941.5	1806.9	1580.1	1326.1	1188.5	1058.4	1043.3
60°	2582.6	2419.3	2361.8	1926.4	1608.8	1327.6	1050.9	874.0	751.5	740.9
62.5°	2726.3	2652.2	2481.3	1778.2	1277.7	934.5	694.0	545.9	432.5	426.4
65°	2953.1	2847.2	2544.8	1496.9	845.2	598.8	461.2	353.8	285.8	282.8
67.5°	3095.2	2921.3	2402.7	1067.5	468.7	396.2	323.6	257.1	198.1	186.0
70°	2894.1	2680.9	1900.7	610.9	272.2	300.9	249.5	172.4	136.1	133.1
72.5°	2312.0	1989.9	1279.2	287.3	169.4	235.9	181.4	116.4	81.7	78.6
75°	1577.1	1252.0	802.9	133.1	119.5	172.4	133.1	68.0	57.5	57.5
77.5°	704.6	638.1	411.3	81.7	89.2	131.5	77.1	46.9	42.3	40.8
80°	214.7	225.3	167.8	55.9	66.5	99.8	46.9	31.8	25.7	24.2
82.5°	72.6	84.7	75.6	33.3	45.4	71.1	31.8	21.2	18.1	18.1
85°	34.8	42.3	37.8	21.2	24.2	34.8	25.7	16.6	10.6	10.6
87.5°	13.6	19.7	13.6	9.1	13.6	18.1	10.6	7.6	3.0	3.0
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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