

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: P676357

Luminaire Tested: **CCW-SA-2A-850-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676357
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-850-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
T2 distribution lens and House Side Shield
Light Source: (32) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3686.1 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

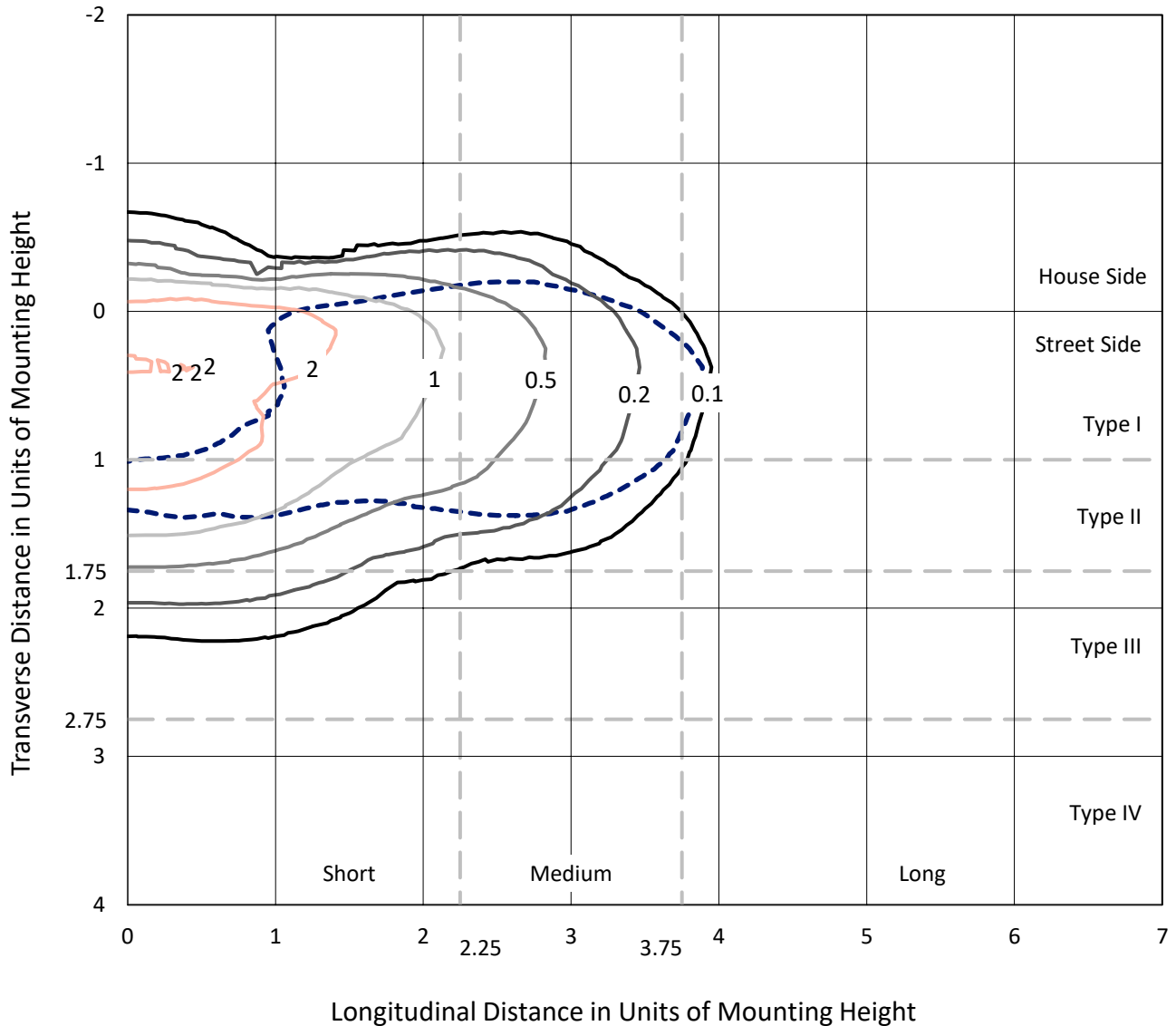
Input Watts (W): 36.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

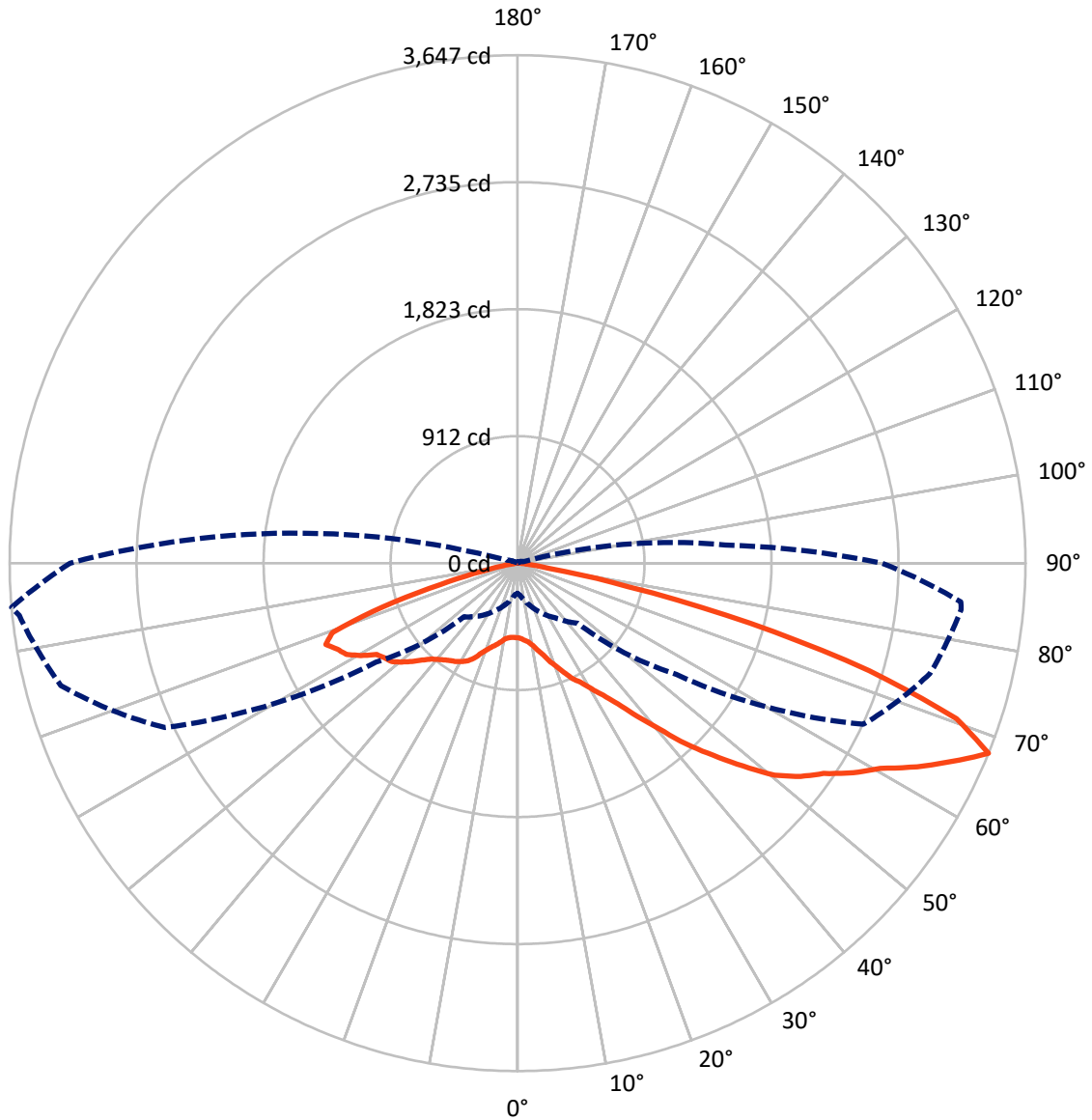
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.8 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	523.7	0.0	523.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	3162.5	0.0	3162.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	3686.1	0.0	3686.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	1.3
10°-20°	131.4	3.6
20°-30°	218.3	5.9
30°-40°	375.5	10.2
40°-50°	674.8	18.3
50°-60°	960.7	26.1
60°-70°	875.8	23.8
70°-80°	372.9	10.1
80°-90°	27.8	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°	3686.1	100.0
0°-180°	3686.1	100.0



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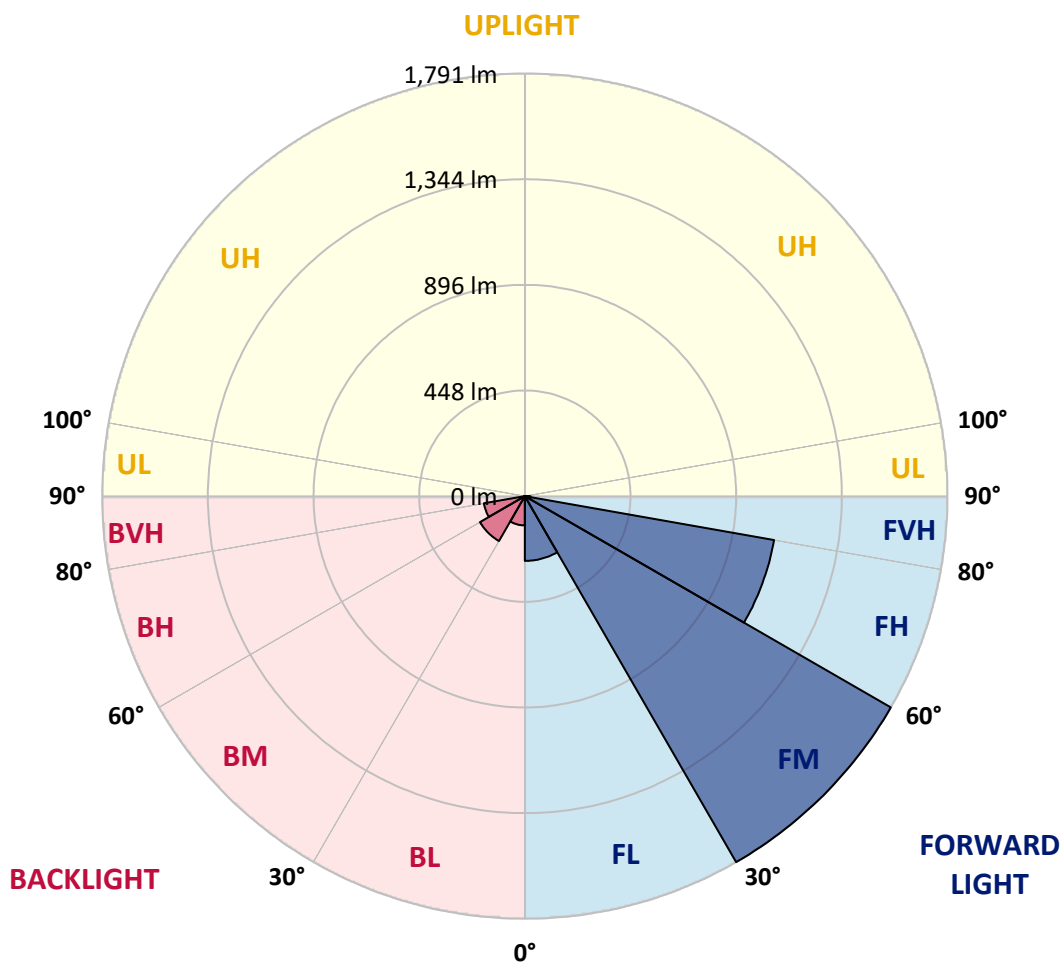
CATALOG NUMBER: CCW-SA-2A-850-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	274.6	7.4			
FM (30°-60°)	1791.5	48.6			
FH (60°-80°)	1072.8	29.1			G1/1800
FVH (80°-90°)	23.6	0.6			G1/100
BL (0°-30°)	124.0	3.4	B1/500		
BM (30°-60°)	219.6	6.0	B0/220		
BH (60°-80°)	176.0	4.8	B1/500		G1/500
BVH (80°-90°)	4.2	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°	536.0	536.0	536.0	536.0	536.0	536.0	536.0	536.0	536.0	536.0	536.0
2.5°	555.3	560.6	560.6	558.9	553.6	550.1	548.3	544.8	541.3	541.3	543.0
5°	560.6	555.3	562.4	553.6	553.6	553.6	560.6	557.1	555.3	546.6	546.6
7.5°	560.6	555.3	555.3	560.6	555.3	558.9	567.7	564.1	571.2	555.3	558.9
10°	544.8	543.0	546.6	553.6	555.3	562.4	571.2	588.7	590.5	580.0	578.2
12.5°	513.2	511.4	523.7	527.2	548.3	565.9	592.3	606.3	622.1	616.9	606.3
15°	490.3	493.8	502.6	516.7	536.0	567.7	597.5	629.2	657.3	650.3	646.7
17.5°	499.1	497.4	499.1	507.9	532.5	564.1	615.1	652.0	692.4	692.4	695.9
20°	525.5	530.7	529.0	523.7	536.0	562.4	615.1	680.1	746.9	741.6	741.6
22.5°	571.2	572.9	562.4	558.9	557.1	572.9	625.6	715.3	792.6	803.1	799.6
25°	618.6	620.4	616.9	606.3	592.3	595.8	645.0	743.4	855.9	873.4	869.9
27.5°	697.7	695.9	687.2	674.9	653.8	637.9	674.9	764.5	905.1	935.0	926.2
30°	776.8	771.5	759.2	743.4	724.1	694.2	711.8	804.9	966.6	994.7	975.4
32.5°	873.4	862.9	866.4	841.8	801.4	753.9	750.4	841.8	1015.8	1056.2	1040.4
35°	996.5	984.2	966.6	943.7	905.1	841.8	822.5	901.6	1098.4	1128.3	1128.3
37.5°	1158.1	1170.5	1149.4	1054.5	1012.3	952.5	912.1	963.1	1170.5	1242.5	1224.9
40°	1323.3	1333.9	1295.2	1224.9	1133.5	1059.7	1035.1	1063.2	1279.4	1365.5	1332.1
42.5°	1456.9	1471.0	1456.9	1365.5	1293.5	1198.6	1154.6	1181.0	1420.0	1523.7	1479.8
45°	1597.5	1611.6	1595.8	1536.0	1465.7	1411.2	1300.5	1333.9	1567.6	1722.3	1673.1
47.5°	1703.0	1720.5	1692.4	1680.1	1623.9	1615.1	1427.0	1463.9	1722.3	1922.6	1861.1
50°	1727.6	1746.9	1771.5	1785.6	1766.2	1787.3	1597.5	1629.1	1884.0	2107.2	2047.4
52.5°	1669.6	1688.9	1743.4	1808.4	1898.0	1961.3	1769.7	1796.1	2052.7	2260.1	2228.4
55°	1499.1	1516.7	1627.4	1715.3	1929.7	2033.4	1934.9	2045.7	2173.9	2420.0	2342.7
57.5°	1212.6	1233.7	1379.6	1514.9	1824.2	1992.9	2033.4	2253.0	2374.3	2537.7	2448.1
60°	861.1	873.4	1000.0	1239.0	1532.5	1790.8	2014.0	2407.7	2532.5	2695.9	2648.5
62.5°	495.6	506.1	637.9	862.9	1156.4	1495.6	1927.9	2553.6	2702.9	2869.9	2843.5
65°	328.6	332.2	421.8	544.8	752.2	1101.9	1710.0	2683.6	2871.6	3008.7	2978.9
67.5°	216.2	235.5	305.8	390.2	481.5	609.8	1393.6	2738.1	3065.0	3202.0	3195.0
70°	154.7	161.7	219.7	300.5	362.0	342.7	815.4	2353.2	3056.2	3254.8	3196.8
72.5°	91.4	98.4	145.9	225.0	284.7	217.9	381.4	1664.3	2532.5	2597.5	2581.7
75°	66.8	66.8	89.6	161.7	207.4	156.4	179.3	1052.7	1681.9	1826.0	1824.2
77.5°	47.5	49.2	61.5	96.7	159.9	114.2	98.4	585.2	919.1	1005.3	957.8
80°	28.1	29.9	42.2	58.0	116.0	82.6	65.0	267.1	353.2	356.8	339.2
82.5°	21.1	21.1	28.1	40.4	80.8	56.2	40.4	101.9	114.2	103.7	87.9
85°	12.3	10.5	21.1	29.9	47.5	31.6	28.1	47.5	52.7	38.7	35.1
87.5°	3.5	3.5	8.8	10.5	21.1	17.6	12.3	17.6	24.6	14.1	10.5
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°	536.0	536.0	536.0	536.0	536.0	536.0	536.0	536.0	536.0	536.0	536.0
2.5°	539.5	534.3	525.5	522.0	509.7	504.4	500.9	492.1	493.8	488.6	488.6
5°	534.3	534.3	516.7	497.4	478.0	465.7	451.7	434.1	434.1	427.1	428.8
7.5°	553.6	539.5	516.7	481.5	449.9	421.8	409.5	391.9	381.4	376.1	376.1
10°	565.9	551.8	513.2	471.0	430.6	395.4	369.1	344.5	330.4	330.4	328.6
12.5°	599.3	578.2	527.2	469.2	409.5	356.8	316.3	288.2	268.9	254.8	258.3
15°	627.4	604.6	534.3	455.2	372.6	298.8	249.6	196.8	170.5	156.4	151.1
17.5°	671.3	629.2	550.1	430.6	316.3	233.7	161.7	117.7	107.2	105.4	105.4
20°	708.2	659.0	551.8	383.1	260.1	149.4	103.7	96.7	91.4	89.6	87.9
22.5°	759.2	697.7	544.8	328.6	186.3	100.2	87.9	80.8	77.3	72.1	72.1
25°	811.9	748.7	530.7	277.7	114.2	86.1	77.3	70.3	63.3	59.8	61.5
27.5°	868.2	787.3	490.3	216.2	87.9	75.6	63.3	58.0	54.5	52.7	52.7
30°	913.9	811.9	430.6	144.1	79.1	66.8	56.2	51.0	47.5	45.7	45.7
32.5°	947.3	833.0	363.8	96.7	72.1	59.8	51.0	45.7	42.2	40.4	40.4
35°	1003.5	848.8	302.3	82.6	65.0	52.7	43.9	40.4	36.9	36.9	36.9
37.5°	1089.6	869.9	240.8	75.6	59.8	47.5	42.2	36.9	35.1	33.4	33.4
40°	1165.2	896.3	172.2	68.5	54.5	43.9	36.9	33.4	31.6	29.9	29.9
42.5°	1274.1	926.2	112.5	61.5	49.2	40.4	33.4	29.9	28.1	26.4	26.4
45°	1413.0	975.4	87.9	54.5	43.9	36.9	31.6	28.1	24.6	24.6	22.8
47.5°	1560.6	1035.1	79.1	51.0	40.4	33.4	28.1	24.6	22.8	21.1	21.1
50°	1697.7	1093.1	73.8	47.5	36.9	31.6	26.4	22.8	19.3	17.6	17.6
52.5°	1820.7	1147.6	70.3	43.9	35.1	28.1	22.8	19.3	17.6	15.8	15.8
55°	1885.7	1172.2	68.5	42.2	31.6	26.4	21.1	17.6	15.8	14.1	14.1
57.5°	1987.7	1203.8	66.8	40.4	29.9	22.8	19.3	15.8	14.1	12.3	12.3
60°	2152.9	1307.5	65.0	38.7	28.1	22.8	17.6	14.1	10.5	8.8	8.8
62.5°	2289.9	1393.6	58.0	33.4	24.6	19.3	14.1	10.5	7.0	5.3	5.3
65°	2446.3	1434.1	51.0	29.9	21.1	15.8	10.5	7.0	5.3	1.8	1.8
67.5°	2616.8	1495.6	42.2	26.4	19.3	12.3	8.8	5.3	1.8	0.0	0.0
70°	2527.2	1418.2	35.1	22.8	17.6	10.5	7.0	3.5	0.0	0.0	0.0
72.5°	1980.6	1015.8	28.1	21.1	15.8	10.5	7.0	1.8	0.0	0.0	0.0
75°	1323.3	574.7	24.6	17.6	12.3	8.8	5.3	1.8	0.0	0.0	0.0
77.5°	718.8	258.3	21.1	15.8	10.5	7.0	5.3	1.8	0.0	0.0	0.0
80°	233.7	101.9	17.6	14.1	10.5	7.0	5.3	1.8	0.0	0.0	0.0
82.5°	63.3	31.6	17.6	14.1	10.5	7.0	5.3	1.8	0.0	0.0	0.0
85°	26.4	21.1	17.6	14.1	10.5	7.0	5.3	1.8	0.0	0.0	0.0
87.5°	10.5	7.0	7.0	8.8	7.0	5.3	3.5	1.8	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°	536.0	536.0	536.0	536.0	536.0	536.0	536.0	536.0	536.0	536.0	536.0
2.5°	490.3	493.8	495.6	495.6	504.4	513.2	523.7	532.5	532.5	537.8	543.0
5°	430.6	434.1	439.4	455.2	472.7	492.1	511.4	525.5	544.8	553.6	558.9
7.5°	381.4	384.9	398.9	414.8	439.4	472.7	506.1	537.8	557.1	565.9	572.9
10°	330.4	335.7	351.5	379.6	411.2	451.7	490.3	544.8	576.4	594.0	601.0
12.5°	256.6	270.6	291.7	321.6	362.0	423.5	495.6	551.8	606.3	627.4	641.5
15°	161.7	174.0	207.4	254.8	309.3	381.4	481.5	562.4	637.9	659.0	681.9
17.5°	103.7	105.4	116.0	167.0	237.3	328.6	460.4	578.2	673.1	703.0	738.1
20°	87.9	91.4	93.1	100.2	158.2	270.6	416.5	597.5	715.3	755.7	789.1
22.5°	73.8	75.6	79.1	84.4	94.9	196.8	356.8	597.5	752.2	811.9	850.6
25°	59.8	63.3	66.8	72.1	82.6	123.0	295.2	587.0	796.1	869.9	919.1
27.5°	52.7	52.7	56.2	61.5	70.3	86.1	233.7	555.3	829.5	905.1	970.1
30°	45.7	47.5	49.2	54.5	63.3	75.6	161.7	504.4	864.7	973.6	1047.4
32.5°	40.4	40.4	43.9	47.5	56.2	68.5	103.7	427.1	910.4	1026.3	1130.0
35°	36.9	36.9	38.7	42.2	51.0	61.5	80.8	362.0	964.8	1126.5	1240.7
37.5°	33.4	33.4	35.1	38.7	45.7	54.5	73.8	311.1	1021.1	1226.7	1393.6
40°	29.9	29.9	31.6	35.1	40.4	49.2	66.8	251.3	1091.4	1374.3	1560.6
42.5°	26.4	26.4	28.1	31.6	36.9	43.9	58.0	188.0	1184.5	1534.2	1776.8
45°	22.8	22.8	24.6	28.1	31.6	40.4	52.7	144.1	1286.4	1711.7	1966.6
47.5°	19.3	21.1	22.8	26.4	29.9	36.9	47.5	126.5	1386.6	1899.8	2177.5
50°	17.6	17.6	19.3	22.8	28.1	33.4	43.9	124.8	1488.5	2043.9	2393.6
52.5°	15.8	15.8	17.6	21.1	26.4	31.6	42.2	128.3	1572.9	2177.5	2544.8
55°	14.1	14.1	15.8	17.6	22.8	29.9	38.7	131.8	1632.7	2312.8	2666.0
57.5°	12.3	12.3	14.1	17.6	21.1	26.4	35.1	135.3	1729.3	2446.3	2841.8
60°	8.8	8.8	12.3	15.8	19.3	22.8	33.4	138.8	1884.0	2630.9	2991.2
62.5°	5.3	5.3	7.0	12.3	15.8	21.1	29.9	131.8	2028.1	2868.1	3219.6
65°	1.8	3.5	5.3	7.0	12.3	17.6	24.6	119.5	2149.3	3105.4	3430.5
67.5°	0.0	0.0	1.8	5.3	10.5	14.1	21.1	87.9	2168.7	3212.6	3646.7
70°	0.0	0.0	1.8	5.3	8.8	14.1	19.3	49.2	1847.1	2869.9	3342.6
72.5°	0.0	0.0	0.0	3.5	8.8	12.3	17.6	36.9	1362.0	2163.4	2641.4
75°	0.0	0.0	0.0	1.8	7.0	10.5	15.8	28.1	827.8	1442.9	1724.0
77.5°	0.0	0.0	0.0	1.8	5.3	10.5	15.8	24.6	291.7	687.2	810.2
80°	0.0	0.0	0.0	3.5	7.0	10.5	14.1	21.1	70.3	172.2	232.0
82.5°	0.0	0.0	0.0	1.8	5.3	8.8	12.3	17.6	28.1	51.0	80.8
85°	0.0	0.0	0.0	1.8	3.5	8.8	12.3	15.8	19.3	24.6	35.1
87.5°	0.0	0.0	0.0	0.0	1.8	3.5	5.3	7.0	7.0	7.0	12.3
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°	536.0	536.0	536.0	536.0	536.0	536.0	536.0	536.0	536.0	536.0
2.5°	541.3	548.3	551.8	558.9	562.4	560.6	558.9	564.1	560.6	555.3
5°	560.6	560.6	565.9	567.7	567.7	562.4	565.9	564.1	560.6	560.6
7.5°	581.7	590.5	590.5	580.0	578.2	574.7	574.7	560.6	555.3	560.6
10°	602.8	609.8	611.6	599.3	583.5	576.4	567.7	550.1	541.3	544.8
12.5°	646.7	646.7	627.4	613.3	592.3	567.7	546.6	522.0	509.7	513.2
15°	678.4	685.4	659.0	627.4	590.5	544.8	522.0	502.6	495.6	490.3
17.5°	739.9	725.8	683.6	637.9	585.2	537.8	522.0	504.4	499.1	499.1
20°	792.6	785.6	722.3	639.7	583.5	551.8	541.3	532.5	530.7	525.5
22.5°	864.7	833.0	752.2	659.0	602.8	574.7	571.2	580.0	574.7	571.2
25°	919.1	892.8	775.0	687.2	632.7	623.9	629.2	637.9	623.9	618.6
27.5°	993.0	943.7	819.0	724.1	673.1	681.9	699.5	701.2	692.4	697.7
30°	1061.5	1008.8	852.4	766.2	741.6	750.4	776.8	796.1	783.8	776.8
32.5°	1159.9	1079.1	919.1	836.5	827.8	850.6	880.5	892.8	877.0	873.4
35°	1263.6	1159.9	987.7	915.6	931.4	963.1	989.4	1010.5	985.9	996.5
37.5°	1425.3	1290.0	1103.7	1040.4	1047.4	1059.7	1108.9	1166.9	1179.2	1158.1
40°	1594.0	1430.6	1210.9	1161.7	1177.5	1210.9	1268.9	1323.3	1351.5	1323.3
42.5°	1789.1	1565.9	1376.1	1318.1	1333.9	1381.3	1458.7	1502.6	1499.1	1456.9
45°	2029.8	1753.9	1530.7	1458.7	1516.7	1558.8	1636.2	1641.4	1608.1	1597.5
47.5°	2214.4	1912.1	1697.7	1652.0	1731.1	1732.8	1750.4	1752.2	1715.3	1703.0
50°	2418.2	2094.9	1884.0	1817.2	1950.8	1889.2	1841.8	1810.2	1753.9	1727.6
52.5°	2618.6	2224.9	2056.2	1987.7	2126.5	1963.1	1876.9	1780.3	1697.7	1669.6
55°	2725.8	2439.3	2307.5	2147.6	2165.2	1984.1	1768.0	1646.7	1506.1	1499.1
57.5°	2852.3	2583.4	2520.2	2256.5	2100.1	1836.5	1541.3	1381.3	1230.2	1212.6
60°	3001.7	2811.9	2745.1	2239.0	1869.9	1543.0	1221.4	1015.8	873.4	861.1
62.5°	3168.7	3082.5	2883.9	2066.7	1485.0	1086.1	806.7	634.4	502.6	495.6
65°	3432.3	3309.2	2957.8	1739.9	982.4	695.9	536.0	411.2	332.2	328.6
67.5°	3597.5	3395.4	2792.6	1240.7	544.8	460.4	376.1	298.8	230.2	216.2
70°	3363.7	3115.9	2209.1	710.0	316.3	349.7	290.0	200.3	158.2	154.7
72.5°	2687.1	2312.8	1486.8	333.9	196.8	274.2	210.9	135.3	94.9	91.4
75°	1833.0	1455.2	933.2	154.7	138.8	200.3	154.7	79.1	66.8	66.8
77.5°	819.0	741.6	478.0	94.9	103.7	152.9	89.6	54.5	49.2	47.5
80°	249.6	261.9	195.1	65.0	77.3	116.0	54.5	36.9	29.9	28.1
82.5°	84.4	98.4	87.9	38.7	52.7	82.6	36.9	24.6	21.1	21.1
85°	40.4	49.2	43.9	24.6	28.1	40.4	29.9	19.3	12.3	12.3
87.5°	15.8	22.8	15.8	10.5	15.8	21.1	12.3	8.8	3.5	3.5
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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