

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: P676281

Luminaire Tested: **CCW-SA-2B-740-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676281
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-740-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
T2 distribution lens and House Side Shield
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

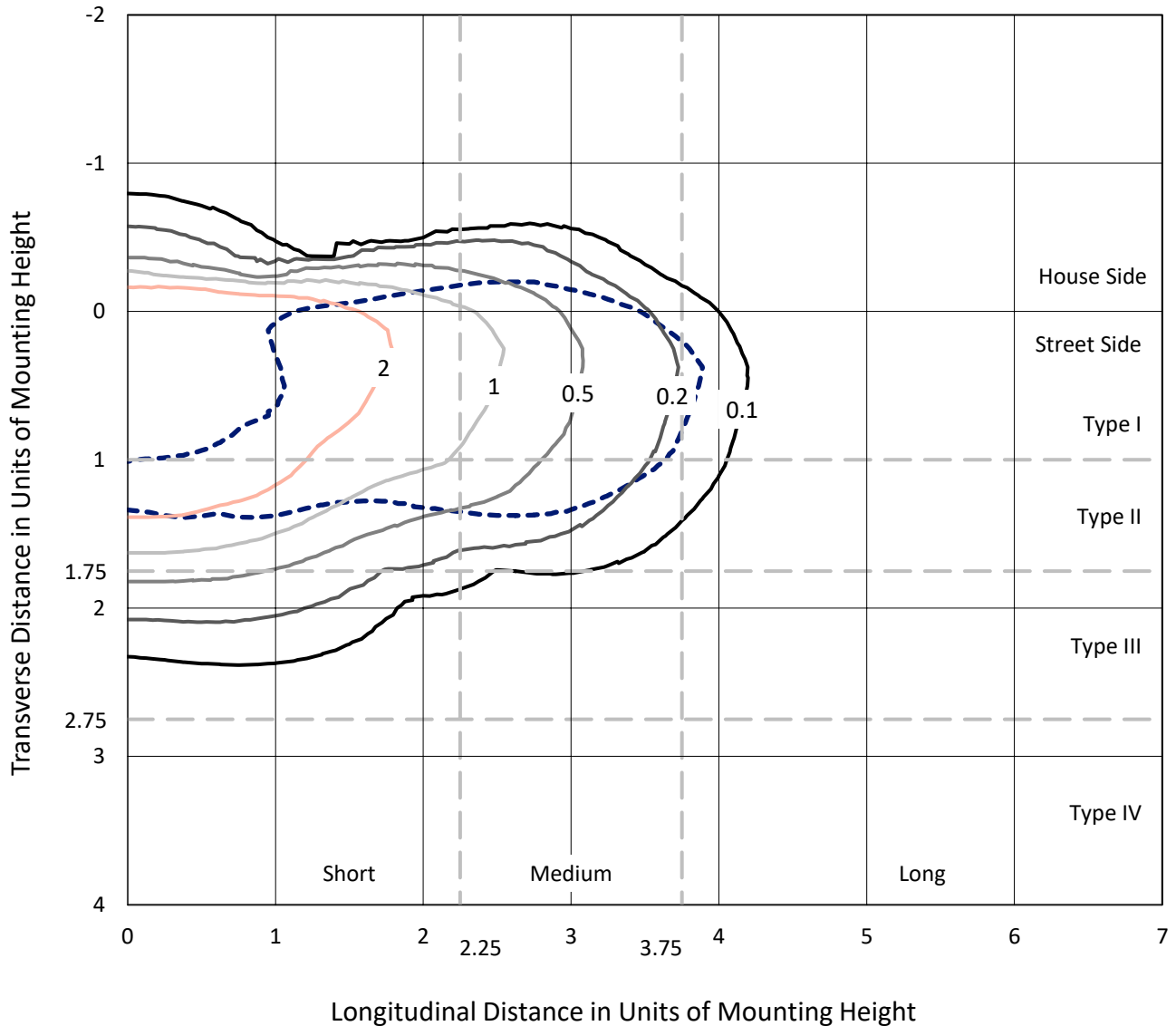
Lumens per Lamp: N/A
Luminaire Lumens: 5331.9 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 46
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

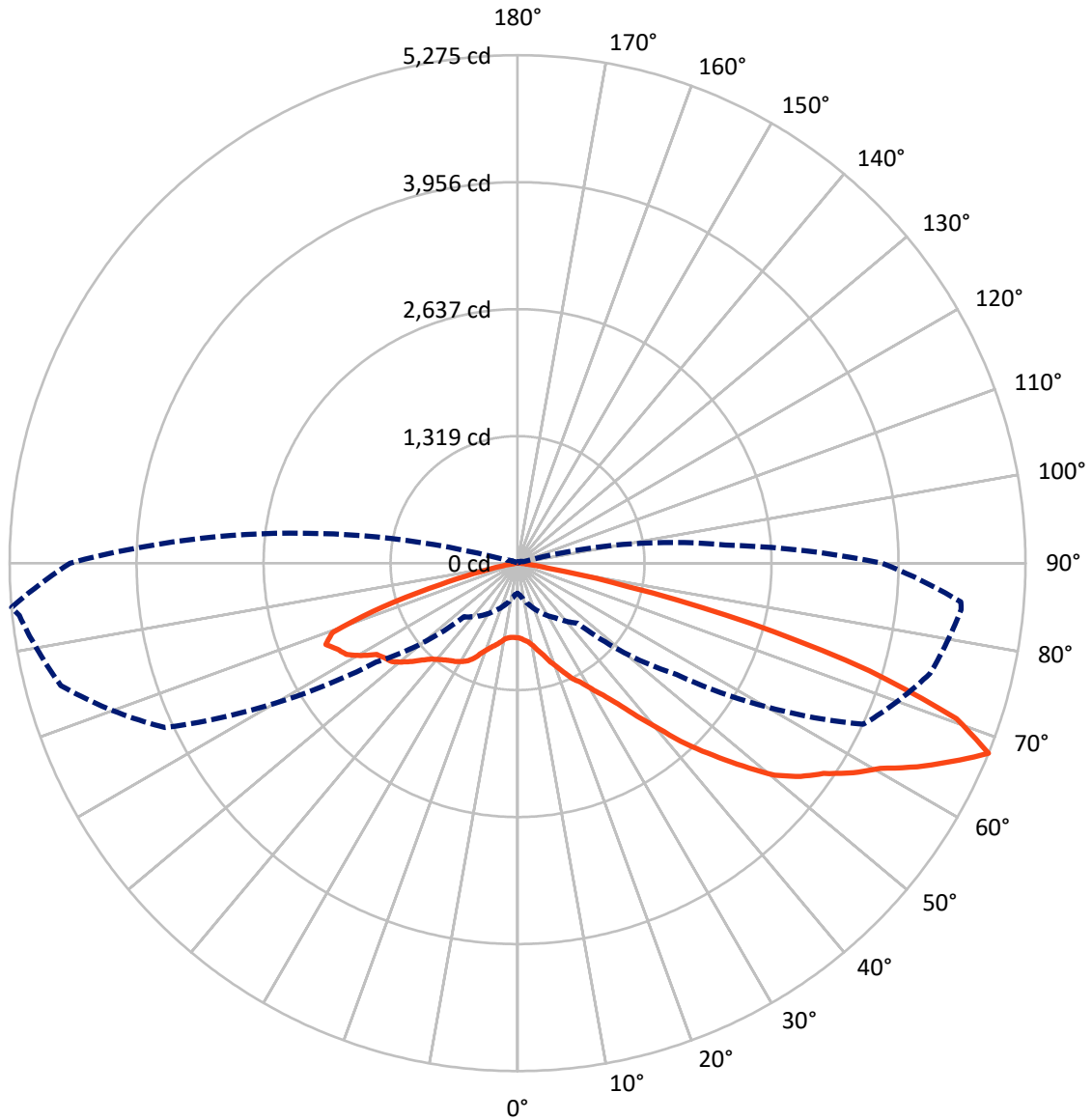
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.1 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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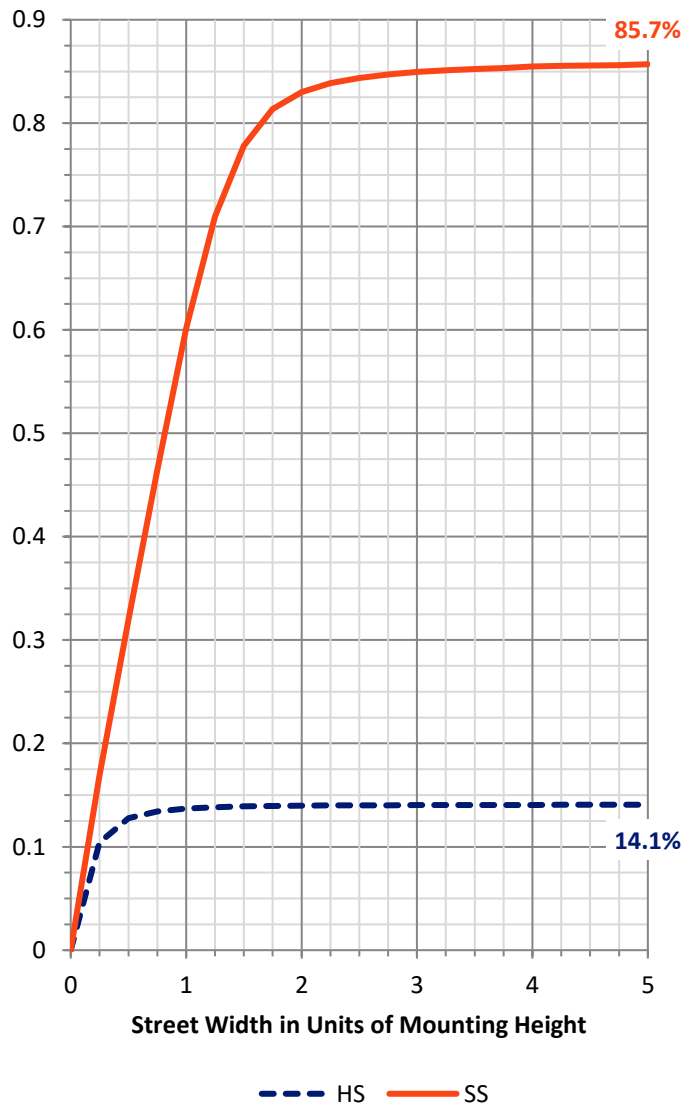
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	757.5	0.0	757.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	4574.4	0.0	4574.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	5331.9	0.0	5331.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	1.3
10°-20°	190.1	3.6
20°-30°	315.7	5.9
30°-40°	543.2	10.2
40°-50°	976.1	18.3
50°-60°	1389.6	26.1
60°-70°	1266.9	23.8
70°-80°	539.5	10.1
80°-90°	40.2	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°	5331.9	100.0
0°-180°	5331.9	100.0



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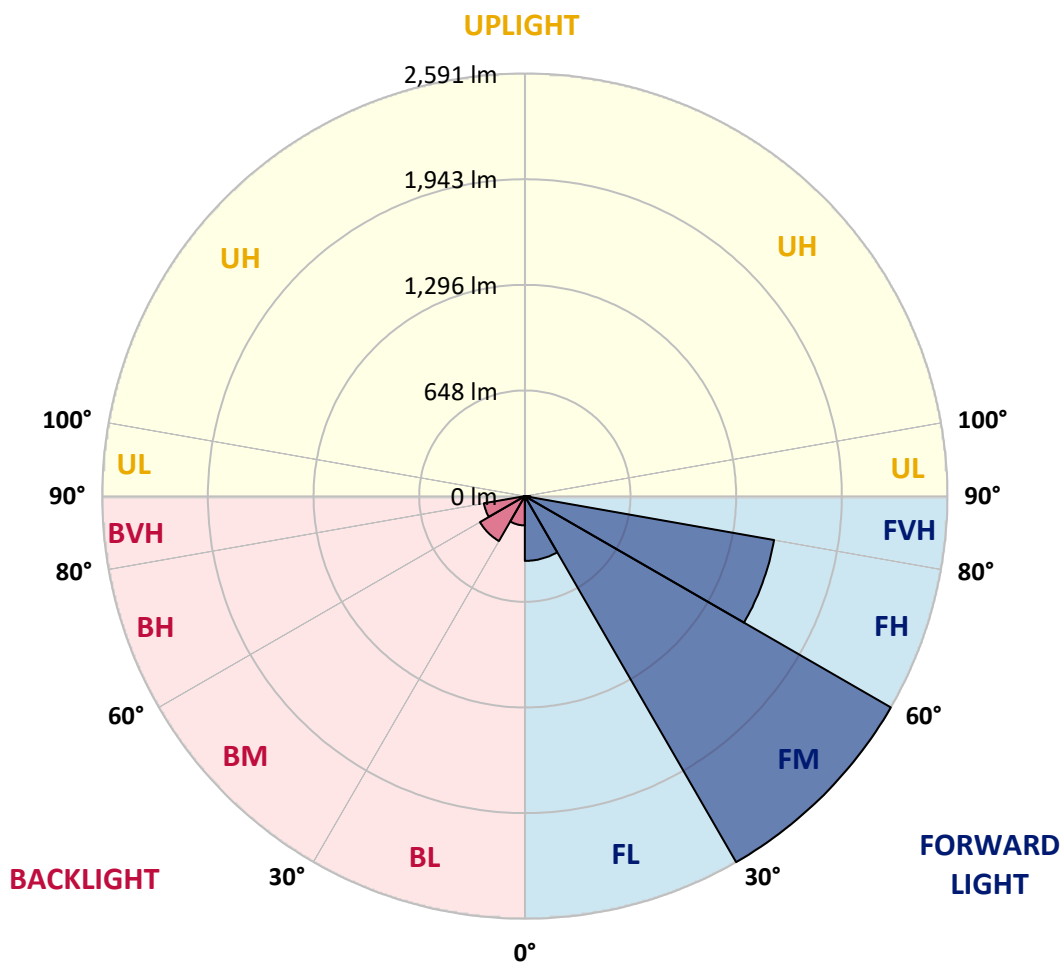
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	397.2	7.4			
FM (30°-60°)	2591.3	48.6			
FH (60°-80°)	1551.8	29.1			G1/1800
FVH (80°-90°)	34.1	0.6			G1/100
BL (0°-30°)	179.3	3.4	B1/500		
BM (30°-60°)	317.6	6.0	B1/1000		
BH (60°-80°)	254.5	4.8	B1/500		G1/500
BVH (80°-90°)	6.1	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°	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3
2.5°	803.3	810.9	810.9	808.4	800.8	795.7	793.1	788.0	783.0	783.0	785.5
5°	810.9	803.3	813.5	800.8	800.8	800.8	810.9	805.8	803.3	790.6	790.6
7.5°	810.9	803.3	803.3	810.9	803.3	808.4	821.1	816.0	826.2	803.3	808.4
10°	788.0	785.5	790.6	800.8	803.3	813.5	826.2	851.6	854.1	838.9	836.3
12.5°	742.3	739.7	757.5	762.6	793.1	818.5	856.7	877.0	899.9	892.3	877.0
15°	709.2	714.3	727.0	747.4	775.3	821.1	864.3	910.1	950.7	940.6	935.5
17.5°	721.9	719.4	721.9	734.7	770.2	816.0	889.7	943.1	1001.6	1001.6	1006.7
20°	760.1	767.7	765.2	757.5	775.3	813.5	889.7	983.8	1080.4	1072.8	1072.8
22.5°	826.2	828.7	813.5	808.4	805.8	828.7	905.0	1034.6	1146.5	1161.7	1156.6
25°	894.8	897.3	892.3	877.0	856.7	861.8	932.9	1075.3	1238.0	1263.4	1258.3
27.5°	1009.2	1006.7	993.9	976.2	945.6	922.8	976.2	1105.8	1309.2	1352.4	1339.7
30°	1123.6	1116.0	1098.2	1075.3	1047.3	1004.1	1029.5	1164.3	1398.1	1438.8	1410.8
32.5°	1263.4	1248.2	1253.2	1217.6	1159.2	1090.5	1085.5	1217.6	1469.3	1527.8	1504.9
35°	1441.4	1423.6	1398.1	1365.1	1309.2	1217.6	1189.7	1304.1	1588.8	1632.0	1632.0
37.5°	1675.2	1693.0	1662.5	1525.2	1464.2	1377.8	1319.3	1393.1	1693.0	1797.2	1771.8
40°	1914.2	1929.4	1873.5	1771.8	1639.6	1532.9	1497.3	1537.9	1850.6	1975.2	1926.9
42.5°	2107.4	2127.7	2107.4	1975.2	1871.0	1733.7	1670.1	1708.3	2054.0	2204.0	2140.4
45°	2310.7	2331.1	2308.2	2221.8	2120.1	2041.3	1881.1	1929.4	2267.5	2491.2	2420.0
47.5°	2463.3	2488.7	2448.0	2430.2	2348.9	2336.2	2064.2	2117.5	2491.2	2781.0	2692.0
50°	2498.8	2526.8	2562.4	2582.7	2554.8	2585.3	2310.7	2356.5	2725.1	3047.9	2961.5
52.5°	2415.0	2442.9	2521.7	2615.8	2745.4	2836.9	2559.9	2598.0	2969.1	3269.1	3223.3
55°	2168.4	2193.8	2354.0	2481.1	2791.2	2941.2	2798.8	2959.0	3144.5	3500.4	3388.6
57.5°	1754.0	1784.5	1995.5	2191.3	2638.7	2882.7	2941.2	3258.9	3434.3	3670.7	3541.1
60°	1245.6	1263.4	1446.4	1792.2	2216.7	2590.4	2913.2	3482.6	3663.1	3899.5	3830.9
62.5°	716.9	732.1	922.8	1248.2	1672.7	2163.3	2788.6	3693.6	3909.7	4151.2	4113.1
65°	475.4	480.5	610.1	788.0	1088.0	1593.9	2473.4	3881.7	4153.7	4352.0	4308.8
67.5°	312.7	340.6	442.3	564.3	696.5	882.1	2015.9	3960.5	4433.4	4631.6	4621.5
70°	223.7	233.9	317.8	434.7	523.7	495.7	1179.5	3403.8	4420.6	4707.9	4624.0
72.5°	132.2	142.4	211.0	325.4	411.8	315.2	551.6	2407.3	3663.1	3757.2	3734.3
75°	96.6	96.6	129.6	233.9	300.0	226.2	259.3	1522.7	2432.8	2641.2	2638.7
77.5°	68.6	71.2	89.0	139.8	231.3	165.2	142.4	846.5	1329.5	1454.1	1385.4
80°	40.7	43.2	61.0	83.9	167.8	119.5	94.1	386.4	511.0	516.0	490.6
82.5°	30.5	30.5	40.7	58.5	116.9	81.3	58.5	147.4	165.2	150.0	127.1
85°	17.8	15.3	30.5	43.2	68.6	45.8	40.7	68.6	76.3	55.9	50.8
87.5°	5.1	5.1	12.7	15.3	30.5	25.4	17.8	25.4	35.6	20.3	15.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3
2.5°	780.4	772.8	760.1	755.0	737.2	729.6	724.5	711.8	714.3	706.7	706.7
5°	772.8	772.8	747.4	719.4	691.4	673.6	653.3	627.9	627.9	617.7	620.3
7.5°	800.8	780.4	747.4	696.5	650.8	610.1	592.3	566.9	551.6	544.0	544.0
10°	818.5	798.2	742.3	681.3	622.8	572.0	533.8	498.2	477.9	477.9	475.4
12.5°	866.8	836.3	762.6	678.7	592.3	516.0	457.6	416.9	388.9	368.6	373.7
15°	907.5	874.5	772.8	658.4	538.9	432.2	361.0	284.7	246.6	226.2	218.6
17.5°	971.1	910.1	795.7	622.8	457.6	338.1	233.9	170.3	155.1	152.5	152.5
20°	1024.5	953.3	798.2	554.2	376.2	216.1	150.0	139.8	132.2	129.6	127.1
22.5°	1098.2	1009.2	788.0	475.4	269.5	144.9	127.1	116.9	111.9	104.2	104.2
25°	1174.4	1082.9	767.7	401.6	165.2	124.6	111.9	101.7	91.5	86.4	89.0
27.5°	1255.8	1138.8	709.2	312.7	127.1	109.3	91.5	83.9	78.8	76.3	76.3
30°	1321.9	1174.4	622.8	208.4	114.4	96.6	81.3	73.7	68.6	66.1	66.1
32.5°	1370.2	1204.9	526.2	139.8	104.2	86.4	73.7	66.1	61.0	58.5	58.5
35°	1451.5	1227.8	437.2	119.5	94.1	76.3	63.6	58.5	53.4	53.4	53.4
37.5°	1576.1	1258.3	348.3	109.3	86.4	68.6	61.0	53.4	50.8	48.3	48.3
40°	1685.4	1296.5	249.1	99.1	78.8	63.6	53.4	48.3	45.8	43.2	43.2
42.5°	1843.0	1339.7	162.7	89.0	71.2	58.5	48.3	43.2	40.7	38.1	38.1
45°	2043.8	1410.8	127.1	78.8	63.6	53.4	45.8	40.7	35.6	35.6	33.0
47.5°	2257.4	1497.3	114.4	73.7	58.5	48.3	40.7	35.6	33.0	30.5	30.5
50°	2455.6	1581.2	106.8	68.6	53.4	45.8	38.1	33.0	28.0	25.4	25.4
52.5°	2633.6	1660.0	101.7	63.6	50.8	40.7	33.0	28.0	25.4	22.9	22.9
55°	2727.6	1695.6	99.1	61.0	45.8	38.1	30.5	25.4	22.9	20.3	20.3
57.5°	2875.1	1741.3	96.6	58.5	43.2	33.0	28.0	22.9	20.3	17.8	17.8
60°	3114.0	1891.3	94.1	55.9	40.7	33.0	25.4	20.3	15.3	12.7	12.7
62.5°	3312.3	2015.9	83.9	48.3	35.6	28.0	20.3	15.3	10.2	7.6	7.6
65°	3538.6	2074.3	73.7	43.2	30.5	22.9	15.3	10.2	7.6	2.5	2.5
67.5°	3785.1	2163.3	61.0	38.1	28.0	17.8	12.7	7.6	2.5	0.0	0.0
70°	3655.5	2051.4	50.8	33.0	25.4	15.3	10.2	5.1	0.0	0.0	0.0
72.5°	2864.9	1469.3	40.7	30.5	22.9	15.3	10.2	2.5	0.0	0.0	0.0
75°	1914.2	831.3	35.6	25.4	17.8	12.7	7.6	2.5	0.0	0.0	0.0
77.5°	1039.7	373.7	30.5	22.9	15.3	10.2	7.6	2.5	0.0	0.0	0.0
80°	338.1	147.4	25.4	20.3	15.3	10.2	7.6	2.5	0.0	0.0	0.0
82.5°	91.5	45.8	25.4	20.3	15.3	10.2	7.6	2.5	0.0	0.0	0.0
85°	38.1	30.5	25.4	20.3	15.3	10.2	7.6	2.5	0.0	0.0	0.0
87.5°	15.3	10.2	10.2	12.7	10.2	7.6	5.1	2.5	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°	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3
2.5°	709.2	714.3	716.9	716.9	729.6	742.3	757.5	770.2	770.2	777.9	785.5
5°	622.8	627.9	635.5	658.4	683.8	711.8	739.7	760.1	788.0	800.8	808.4
7.5°	551.6	556.7	577.0	599.9	635.5	683.8	732.1	777.9	805.8	818.5	828.7
10°	477.9	485.5	508.4	549.1	594.8	653.3	709.2	788.0	833.8	859.2	869.4
12.5°	371.1	391.5	422.0	465.2	523.7	612.6	716.9	798.2	877.0	907.5	927.9
15°	233.9	251.7	300.0	368.6	447.4	551.6	696.5	813.5	922.8	953.3	986.3
17.5°	150.0	152.5	167.8	241.5	343.2	475.4	666.0	836.3	973.6	1016.8	1067.7
20°	127.1	132.2	134.7	144.9	228.8	391.5	602.5	864.3	1034.6	1093.1	1141.4
22.5°	106.8	109.3	114.4	122.0	137.3	284.7	516.0	864.3	1088.0	1174.4	1230.4
25°	86.4	91.5	96.6	104.2	119.5	177.9	427.1	849.0	1151.6	1258.3	1329.5
27.5°	76.3	76.3	81.3	89.0	101.7	124.6	338.1	803.3	1199.9	1309.2	1403.2
30°	66.1	68.6	71.2	78.8	91.5	109.3	233.9	729.6	1250.7	1408.3	1515.1
32.5°	58.5	58.5	63.6	68.6	81.3	99.1	150.0	617.7	1316.8	1484.6	1634.5
35°	53.4	53.4	55.9	61.0	73.7	89.0	116.9	523.7	1395.6	1629.5	1794.7
37.5°	48.3	48.3	50.8	55.9	66.1	78.8	106.8	449.9	1476.9	1774.4	2015.9
40°	43.2	43.2	45.8	50.8	58.5	71.2	96.6	363.5	1578.6	1987.9	2257.4
42.5°	38.1	38.1	40.7	45.8	53.4	63.6	83.9	272.0	1713.4	2219.2	2570.0
45°	33.0	33.0	35.6	40.7	45.8	58.5	76.3	208.4	1860.8	2476.0	2844.6
47.5°	28.0	30.5	33.0	38.1	43.2	53.4	68.6	183.0	2005.7	2748.0	3149.6
50°	25.4	25.4	28.0	33.0	40.7	48.3	63.6	180.5	2153.1	2956.4	3462.3
52.5°	22.9	22.9	25.4	30.5	38.1	45.8	61.0	185.6	2275.1	3149.6	3680.9
55°	20.3	20.3	22.9	25.4	33.0	43.2	55.9	190.7	2361.6	3345.4	3856.3
57.5°	17.8	17.8	20.3	25.4	30.5	38.1	50.8	195.7	2501.4	3538.6	4110.5
60°	12.7	12.7	17.8	22.9	28.0	33.0	48.3	200.8	2725.1	3805.5	4326.6
62.5°	7.6	7.6	10.2	17.8	22.9	30.5	43.2	190.7	2933.5	4148.6	4657.1
65°	2.5	5.1	7.6	10.2	17.8	25.4	35.6	172.9	3108.9	4491.8	4962.1
67.5°	0.0	0.0	2.5	7.6	15.3	20.3	30.5	127.1	3136.9	4646.9	5274.8
70°	0.0	0.0	2.5	7.6	12.7	20.3	28.0	71.2	2671.7	4151.2	4835.0
72.5°	0.0	0.0	0.0	5.1	12.7	17.8	25.4	53.4	1970.1	3129.3	3820.7
75°	0.0	0.0	0.0	2.5	10.2	15.3	22.9	40.7	1197.3	2087.0	2493.8
77.5°	0.0	0.0	0.0	2.5	7.6	15.3	22.9	35.6	422.0	993.9	1171.9
80°	0.0	0.0	0.0	5.1	10.2	15.3	20.3	30.5	101.7	249.1	335.6
82.5°	0.0	0.0	0.0	2.5	7.6	12.7	17.8	25.4	40.7	73.7	116.9
85°	0.0	0.0	0.0	2.5	5.1	12.7	17.8	22.9	28.0	35.6	50.8
87.5°	0.0	0.0	0.0	0.0	2.5	5.1	7.6	10.2	10.2	10.2	17.8
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°	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3
2.5°	783.0	793.1	798.2	808.4	813.5	810.9	808.4	816.0	810.9	803.3
5°	810.9	810.9	818.5	821.1	821.1	813.5	818.5	816.0	810.9	810.9
7.5°	841.4	854.1	854.1	838.9	836.3	831.3	831.3	810.9	803.3	810.9
10°	871.9	882.1	884.6	866.8	844.0	833.8	821.1	795.7	783.0	788.0
12.5°	935.5	935.5	907.5	887.2	856.7	821.1	790.6	755.0	737.2	742.3
15°	981.2	991.4	953.3	907.5	854.1	788.0	755.0	727.0	716.9	709.2
17.5°	1070.2	1049.9	988.9	922.8	846.5	777.9	755.0	729.6	721.9	721.9
20°	1146.5	1136.3	1044.8	925.3	844.0	798.2	783.0	770.2	767.7	760.1
22.5°	1250.7	1204.9	1088.0	953.3	871.9	831.3	826.2	838.9	831.3	826.2
25°	1329.5	1291.4	1121.1	993.9	915.1	902.4	910.1	922.8	902.4	894.8
27.5°	1436.3	1365.1	1184.6	1047.3	973.6	986.3	1011.7	1014.3	1001.6	1009.2
30°	1535.4	1459.1	1232.9	1108.3	1072.8	1085.5	1123.6	1151.6	1133.8	1123.6
32.5°	1677.8	1560.8	1329.5	1210.0	1197.3	1230.4	1273.6	1291.4	1268.5	1263.4
35°	1827.7	1677.8	1428.6	1324.4	1347.3	1393.1	1431.2	1461.7	1426.1	1441.4
37.5°	2061.6	1865.9	1596.4	1504.9	1515.1	1532.9	1604.0	1687.9	1705.7	1675.2
40°	2305.7	2069.2	1751.5	1680.3	1703.2	1751.5	1835.4	1914.2	1954.8	1914.2
42.5°	2587.8	2265.0	1990.4	1906.5	1929.4	1998.1	2109.9	2173.5	2168.4	2107.4
45°	2936.1	2537.0	2214.1	2109.9	2193.8	2254.8	2366.7	2374.3	2326.0	2310.7
47.5°	3203.0	2765.8	2455.6	2389.5	2503.9	2506.5	2531.9	2534.4	2481.1	2463.3
50°	3497.9	3030.1	2725.1	2628.5	2821.7	2732.7	2664.1	2618.3	2537.0	2498.8
52.5°	3787.7	3218.3	2974.2	2875.1	3075.9	2839.5	2714.9	2575.1	2455.6	2415.0
55°	3942.7	3528.4	3337.7	3106.4	3131.8	2870.0	2557.3	2381.9	2178.5	2168.4
57.5°	4125.8	3736.8	3645.3	3264.0	3037.8	2656.5	2229.4	1998.1	1779.4	1754.0
60°	4341.8	4067.3	3970.7	3238.6	2704.8	2231.9	1766.7	1469.3	1263.4	1245.6
62.5°	4583.3	4458.8	4171.5	2989.5	2148.0	1571.0	1166.8	917.7	727.0	716.9
65°	4964.7	4786.7	4278.3	2516.6	1421.0	1006.7	775.3	594.8	480.5	475.4
67.5°	5203.6	4911.3	4039.3	1794.7	788.0	666.0	544.0	432.2	333.0	312.7
70°	4865.5	4507.1	3195.4	1027.0	457.6	505.9	419.4	289.8	228.8	223.7
72.5°	3886.8	3345.4	2150.6	483.0	284.7	396.6	305.0	195.7	137.3	132.2
75°	2651.4	2104.8	1349.8	223.7	200.8	289.8	223.7	114.4	96.6	96.6
77.5°	1184.6	1072.8	691.4	137.3	150.0	221.2	129.6	78.8	71.2	68.6
80°	361.0	378.8	282.2	94.1	111.9	167.8	78.8	53.4	43.2	40.7
82.5°	122.0	142.4	127.1	55.9	76.3	119.5	53.4	35.6	30.5	30.5
85°	58.5	71.2	63.6	35.6	40.7	58.5	43.2	28.0	17.8	17.8
87.5°	22.9	33.0	22.9	15.3	22.9	30.5	17.8	12.7	5.1	5.1
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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