

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: P675893

Luminaire Tested: **CCW-SA-2B-830-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675893
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-830-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
SLL distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

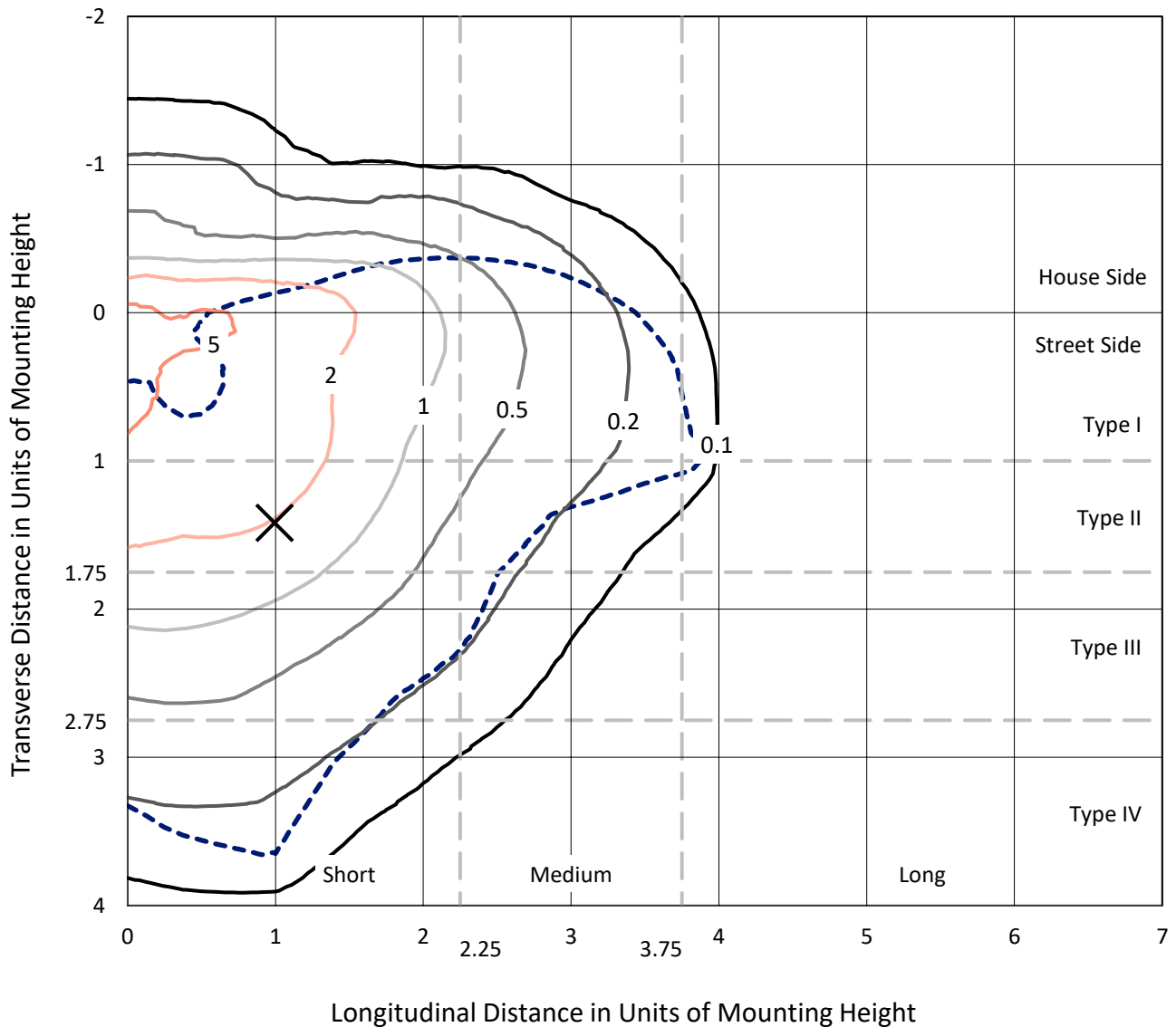
Lumens per Lamp: N/A
Luminaire Lumens: 4553.3 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

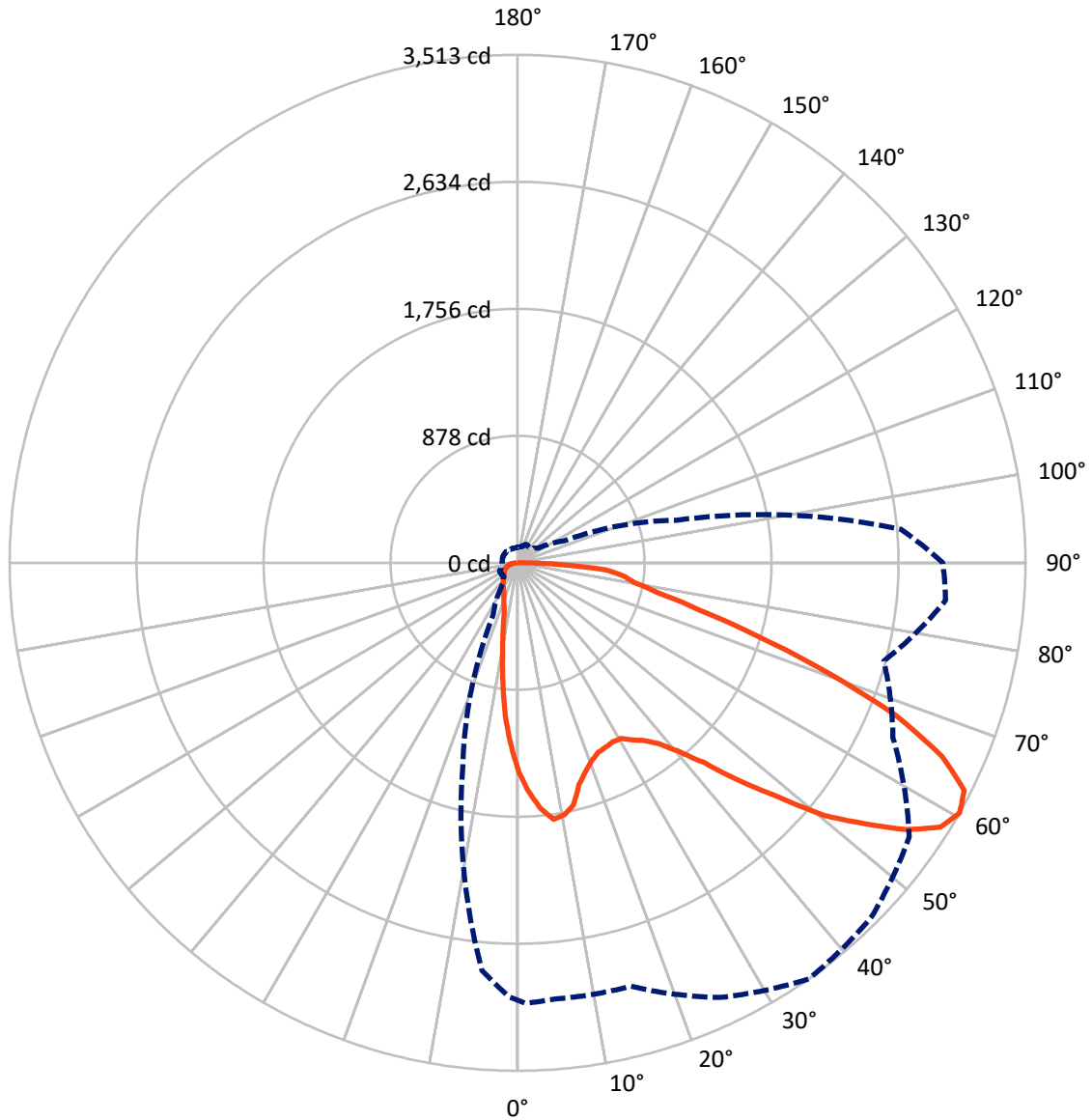
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.4 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	866.6	0.0	866.6
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	3686.7	0.0	3686.7
	% Fixture	81.0	0.0	81.0
Total	Lumens	4553.3	0.0	4553.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.0	2.5
10°-20°	238.5	5.2
20°-30°	349.0	7.7
30°-40°	491.7	10.8
40°-50°	675.8	14.8
50°-60°	921.0	20.2
60°-70°	1008.0	22.1
70°-80°	582.0	12.8
80°-90°	174.3	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°	4553.3	100.0
0°-180°	4553.3	100.0

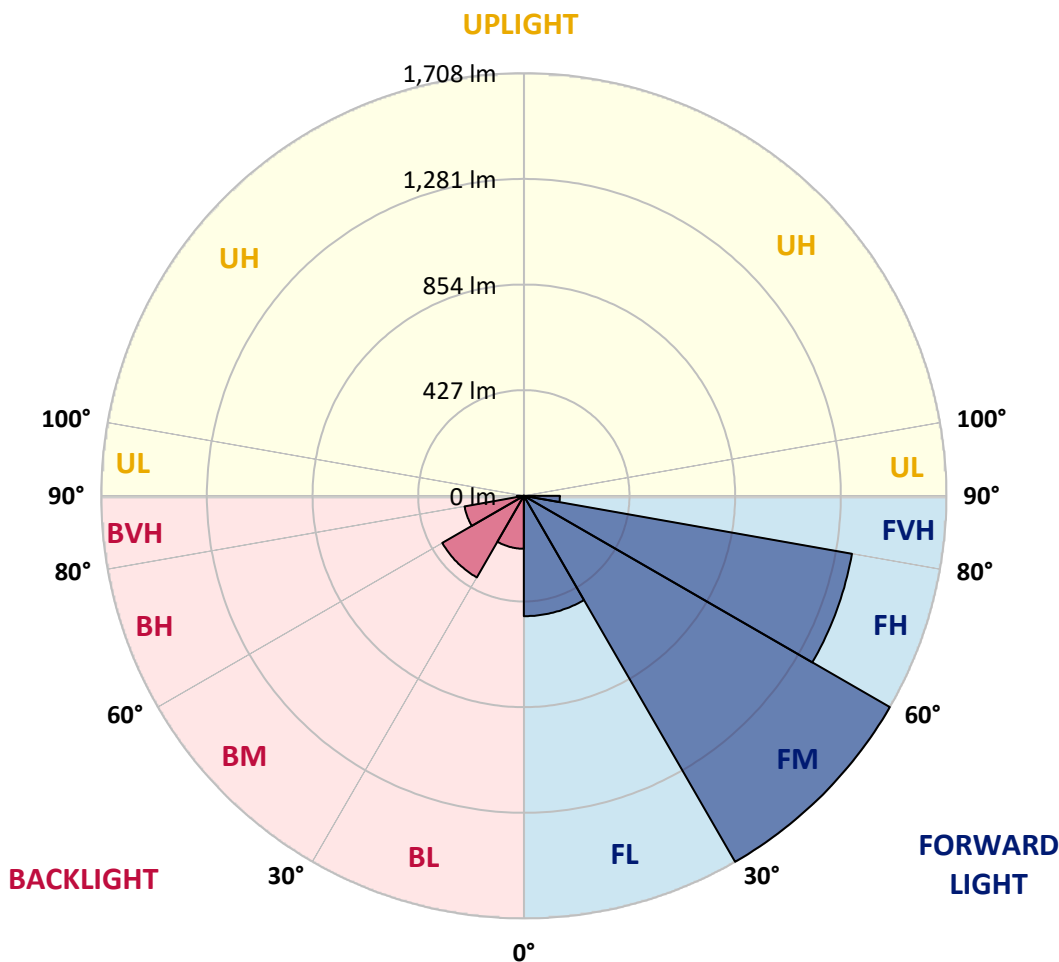


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	486.4	10.7			
FM (30°-60°)	1707.8	37.5			
FH (60°-80°)	1346.6	29.6			G1/1800
FVH (80°-90°)	145.9	3.2			G2/225
BL (0°-30°)	214.1	4.7	B1/500		
BM (30°-60°)	380.7	8.4	B1/1000		
BH (60°-80°)	243.4	5.3	B1/500		G1/500
BVH (80°-90°)	28.4	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-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1454.3	1454.3	1454.3	1454.3	1454.3	1454.3	1454.3	1454.3	1454.3	1454.3	1454.3
2.5°	1557.3	1551.2	1557.3	1579.5	1585.6	1595.7	1595.7	1581.5	1555.3	1543.2	1523.0
5°	1591.6	1581.5	1632.0	1678.5	1714.8	1710.8	1676.5	1648.2	1595.7	1516.9	1442.2
7.5°	1523.0	1533.1	1569.4	1690.6	1775.4	1791.6	1737.1	1680.5	1567.4	1458.3	1357.3
10°	1393.7	1407.8	1486.6	1611.8	1745.1	1771.4	1737.1	1668.4	1533.1	1397.7	1280.6
12.5°	1331.1	1363.4	1409.9	1561.3	1656.3	1718.9	1702.7	1658.3	1506.8	1347.2	1234.1
15°	1331.1	1339.2	1407.8	1535.1	1589.6	1591.6	1597.7	1605.8	1514.9	1369.5	1218.0
17.5°	1373.5	1395.7	1454.3	1533.1	1543.2	1518.9	1518.9	1553.3	1531.0	1432.1	1276.5
20°	1476.5	1468.4	1545.2	1577.5	1523.0	1462.4	1456.3	1514.9	1549.2	1498.7	1383.6
22.5°	1579.5	1615.9	1678.5	1605.8	1504.8	1424.0	1415.9	1488.6	1603.8	1613.9	1506.8
25°	1735.0	1771.4	1803.7	1714.8	1502.8	1413.9	1419.9	1476.5	1670.4	1777.5	1712.8
27.5°	1902.7	1924.9	1971.4	1834.0	1551.2	1401.8	1407.8	1492.7	1733.0	1884.5	1874.4
30°	1997.6	2021.9	2011.8	1856.2	1583.6	1409.9	1393.7	1514.9	1698.7	1884.5	1979.4
32.5°	2090.5	2076.4	2070.3	1892.6	1624.0	1460.3	1419.9	1561.3	1718.9	1914.8	2114.8
35°	2203.6	2183.4	2167.3	1963.3	1690.6	1508.8	1490.6	1621.9	1763.3	1977.4	2223.8
37.5°	2328.9	2328.9	2250.1	2015.8	1769.4	1587.6	1567.4	1708.8	1834.0	2015.8	2373.3
40°	2476.3	2482.4	2343.0	2086.5	1858.3	1712.8	1706.8	1821.9	1902.7	2072.4	2516.7
42.5°	2585.4	2589.4	2423.8	2112.8	1961.3	1886.5	1912.8	2003.7	1981.5	2122.9	2526.8
45°	2660.1	2639.9	2480.4	2187.5	2074.4	2147.1	2155.2	2181.4	2084.5	2153.2	2567.2
47.5°	2696.5	2692.5	2504.6	2274.3	2312.7	2411.7	2458.1	2421.8	2179.4	2120.8	2567.2
50°	2732.8	2698.5	2526.8	2393.5	2545.0	2745.0	2734.9	2668.2	2310.7	2161.2	2528.8
52.5°	2757.1	2726.8	2571.3	2500.6	2767.2	2993.4	3033.8	2910.6	2464.2	2236.0	2547.0
55°	2843.9	2819.7	2704.6	2646.0	3023.7	3256.0	3262.0	3090.4	2625.8	2359.2	2666.2
57.5°	2949.0	2963.1	2888.4	2852.0	3219.6	3447.9	3425.7	3223.7	2763.1	2508.6	2803.5
60°	3023.7	3045.9	3027.7	3031.8	3316.6	3512.5	3462.0	3306.5	2864.1	2621.8	2971.2
62.5°	2983.3	3027.7	3102.5	3086.3	3320.6	3466.0	3395.4	3197.4	2876.3	2769.2	3098.4
65°	2872.2	2876.3	3021.7	3110.6	3138.8	3225.7	3132.8	2969.2	2751.0	2860.1	3080.3
67.5°	2587.4	2619.7	2751.0	2924.7	2805.6	2825.8	2817.7	2581.4	2561.2	2797.5	2940.9
70°	2284.4	2306.7	2450.1	2654.1	2369.3	2274.3	2292.5	2116.8	2199.6	2603.6	2660.1
72.5°	1888.6	1902.7	2066.3	2246.1	1900.7	1731.0	1773.4	1630.0	1747.2	2278.4	2244.0
75°	1426.0	1452.3	1579.5	1791.6	1399.8	1290.7	1333.1	1274.5	1383.6	1876.4	1741.1
77.5°	1014.0	993.8	1151.3	1401.8	1052.3	987.7	991.7	1001.8	1119.0	1581.5	1250.3
80°	690.8	696.8	838.2	1028.1	826.1	816.0	805.9	886.7	939.2	1252.3	908.9
82.5°	410.0	410.0	565.6	731.2	652.4	735.2	688.8	761.5	735.2	921.0	595.9
85°	191.9	191.9	290.9	527.2	505.0	606.0	515.1	575.7	543.3	642.3	268.6
87.5°	32.3	28.3	58.6	258.5	208.0	236.3	92.9	307.0	341.4	448.4	66.7
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°	1454.3	1454.3	1454.3	1454.3	1454.3	1454.3	1454.3	1454.3	1454.3	1454.3	1454.3
2.5°	1500.7	1486.6	1458.3	1422.0	1391.7	1353.3	1341.2	1314.9	1278.6	1274.5	1258.4
5°	1413.9	1365.4	1304.8	1230.1	1179.6	1127.1	1082.6	1056.4	1026.1	1022.0	1014.0
7.5°	1319.0	1258.4	1157.4	1068.5	981.6	898.8	858.4	807.9	773.6	747.3	735.2
10°	1230.1	1173.5	1048.3	927.1	850.4	795.8	747.3	694.8	652.4	620.1	608.0
12.5°	1171.5	1104.9	969.5	854.4	797.8	735.2	680.7	624.1	569.6	527.2	505.0
15°	1145.3	1082.6	945.3	818.0	735.2	648.4	585.8	529.2	462.5	432.2	422.1
17.5°	1207.9	1115.0	937.2	775.6	658.5	559.5	482.7	422.1	373.7	343.4	331.3
20°	1288.7	1173.5	951.3	725.1	585.8	474.7	389.8	325.2	292.9	270.7	268.6
22.5°	1391.7	1260.4	973.6	688.8	505.0	381.8	305.0	266.6	244.4	242.4	238.3
25°	1575.5	1417.9	1009.9	640.3	440.3	315.1	260.6	238.3	228.2	222.2	226.2
27.5°	1733.0	1520.9	1036.2	610.0	414.1	296.9	252.5	228.2	218.1	216.1	218.1
30°	1825.9	1615.9	1028.1	553.4	361.6	282.8	268.6	260.6	240.4	224.2	224.2
32.5°	1910.8	1676.5	1026.1	502.9	309.0	236.3	224.2	218.1	230.3	238.3	232.3
35°	2027.9	1771.4	1020.0	474.7	286.8	218.1	197.9	181.8	173.7	169.7	175.7
37.5°	2153.2	1836.0	1003.9	470.6	274.7	208.0	191.9	175.7	167.6	163.6	161.6
40°	2290.5	1904.7	985.7	450.4	268.6	202.0	185.8	171.7	161.6	155.5	153.5
42.5°	2379.4	1959.2	967.5	440.3	256.5	197.9	179.8	167.6	157.5	149.5	149.5
45°	2429.9	2023.9	949.3	430.2	242.4	200.0	179.8	163.6	151.5	147.4	143.4
47.5°	2452.1	2072.4	943.3	414.1	230.3	191.9	175.7	159.6	147.4	139.4	137.3
50°	2510.7	2175.4	965.5	401.9	216.1	183.8	185.8	157.5	145.4	135.3	133.3
52.5°	2545.0	2258.2	1014.0	383.8	206.0	173.7	181.8	153.5	139.4	129.3	129.3
55°	2670.2	2395.5	1066.5	369.6	193.9	159.6	167.6	145.4	129.3	123.2	123.2
57.5°	2829.8	2541.0	1110.9	363.6	185.8	149.5	149.5	141.4	123.2	115.1	113.1
60°	2940.9	2660.1	1137.2	359.5	177.7	139.4	133.3	141.4	117.2	109.1	107.1
62.5°	2953.0	2591.5	1110.9	357.5	175.7	129.3	121.2	135.3	111.1	103.0	99.0
65°	2876.3	2452.1	1038.2	349.4	173.7	119.2	113.1	117.2	103.0	97.0	92.9
67.5°	2722.7	2225.9	933.2	345.4	171.7	111.1	103.0	101.0	94.9	88.9	84.8
70°	2365.2	1931.0	810.0	327.2	167.6	105.0	92.9	90.9	84.8	80.8	78.8
72.5°	1985.5	1579.5	668.6	303.0	159.6	94.9	84.8	80.8	78.8	72.7	70.7
75°	1520.9	1215.9	535.3	268.6	139.4	84.8	74.7	70.7	68.7	64.6	62.6
77.5°	1068.5	904.9	395.9	218.1	117.2	76.8	66.7	62.6	60.6	54.5	54.5
80°	725.1	634.2	268.6	151.5	90.9	62.6	58.6	54.5	50.5	46.5	46.5
82.5°	450.4	444.4	193.9	99.0	66.7	50.5	46.5	46.5	40.4	36.4	36.4
85°	206.0	272.7	135.3	68.7	50.5	38.4	38.4	36.4	32.3	26.3	26.3
87.5°	64.6	90.9	70.7	30.3	28.3	22.2	22.2	20.2	20.2	16.2	16.2
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°	1454.3	1454.3	1454.3	1454.3	1454.3	1454.3	1454.3	1454.3	1454.3	1454.3	1454.3
2.5°	1274.5	1272.5	1272.5	1264.4	1284.6	1284.6	1296.7	1286.6	1292.7	1294.7	1310.9
5°	1011.9	1028.1	1040.2	1064.5	1078.6	1084.7	1084.7	1100.8	1094.8	1106.9	1131.1
7.5°	741.3	761.5	797.8	828.1	852.4	860.5	858.4	862.5	868.5	854.4	858.4
10°	599.9	585.8	597.9	626.2	648.4	674.6	654.4	652.4	658.5	652.4	664.5
12.5°	500.9	484.8	474.7	474.7	490.8	502.9	496.9	507.0	529.2	535.3	549.4
15°	406.0	391.8	383.8	373.7	389.8	393.9	399.9	414.1	430.2	438.3	454.5
17.5°	325.2	325.2	325.2	317.1	323.2	329.2	331.3	349.4	351.5	359.5	365.6
20°	266.6	272.7	282.8	286.8	292.9	292.9	288.8	298.9	290.9	296.9	301.0
22.5°	240.4	248.4	252.5	254.5	262.6	264.6	254.5	256.5	258.5	252.5	254.5
25°	226.2	230.3	226.2	228.2	230.3	226.2	228.2	232.3	230.3	234.3	232.3
27.5°	220.2	216.1	214.1	212.1	212.1	208.0	210.1	210.1	214.1	216.1	216.1
30°	220.2	214.1	206.0	200.0	200.0	193.9	197.9	202.0	204.0	208.0	208.0
32.5°	226.2	214.1	200.0	193.9	187.8	183.8	187.8	193.9	202.0	204.0	206.0
35°	179.8	185.8	183.8	175.7	173.7	173.7	171.7	171.7	165.6	165.6	163.6
37.5°	161.6	159.6	163.6	165.6	167.6	161.6	161.6	153.5	151.5	153.5	153.5
40°	151.5	151.5	151.5	157.5	159.6	155.5	149.5	145.4	145.4	145.4	147.4
42.5°	147.4	143.4	141.4	145.4	151.5	147.4	141.4	139.4	139.4	141.4	141.4
45°	141.4	139.4	137.3	135.3	143.4	137.3	135.3	133.3	133.3	133.3	135.3
47.5°	135.3	133.3	129.3	129.3	131.3	129.3	127.3	127.3	127.3	131.3	131.3
50°	131.3	129.3	125.2	125.2	125.2	125.2	123.2	123.2	123.2	125.2	127.3
52.5°	125.2	123.2	121.2	119.2	119.2	119.2	119.2	119.2	119.2	121.2	123.2
55°	119.2	117.2	115.1	115.1	117.2	117.2	115.1	117.2	115.1	117.2	119.2
57.5°	113.1	111.1	109.1	111.1	113.1	111.1	111.1	111.1	111.1	111.1	113.1
60°	105.0	105.0	105.0	105.0	109.1	109.1	109.1	109.1	105.0	107.1	109.1
62.5°	101.0	99.0	99.0	101.0	103.0	103.0	105.0	103.0	101.0	103.0	103.0
65°	92.9	92.9	92.9	94.9	94.9	97.0	97.0	97.0	94.9	97.0	97.0
67.5°	86.9	86.9	86.9	86.9	90.9	90.9	90.9	90.9	88.9	88.9	90.9
70°	76.8	78.8	76.8	80.8	84.8	82.8	84.8	84.8	82.8	80.8	84.8
72.5°	70.7	70.7	70.7	70.7	76.8	76.8	76.8	78.8	76.8	74.7	76.8
75°	62.6	62.6	62.6	64.6	68.7	68.7	68.7	68.7	68.7	66.7	66.7
77.5°	54.5	56.6	54.5	56.6	60.6	58.6	60.6	62.6	60.6	58.6	58.6
80°	46.5	46.5	46.5	48.5	50.5	50.5	50.5	52.5	50.5	48.5	48.5
82.5°	36.4	36.4	38.4	38.4	40.4	40.4	40.4	42.4	40.4	38.4	38.4
85°	28.3	28.3	28.3	30.3	30.3	32.3	32.3	34.3	34.3	32.3	32.3
87.5°	18.2	16.2	18.2	18.2	20.2	20.2	18.2	16.2	18.2	16.2	14.1
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°	1454.3	1454.3	1454.3	1454.3	1454.3	1454.3	1454.3	1454.3	1454.3	1454.3
2.5°	1327.0	1363.4	1389.7	1407.8	1434.1	1484.6	1504.8	1541.1	1551.2	1557.3
5°	1141.2	1179.6	1236.1	1276.5	1323.0	1417.9	1490.6	1545.2	1569.4	1591.6
7.5°	894.8	945.3	1003.9	1056.4	1133.1	1250.3	1345.2	1458.3	1500.7	1523.0
10°	698.9	745.3	810.0	874.6	981.6	1080.6	1215.9	1319.0	1377.5	1393.7
12.5°	589.8	644.3	721.1	799.9	866.5	979.6	1117.0	1266.4	1321.0	1331.1
15°	500.9	575.7	654.4	735.2	812.0	910.9	1058.4	1240.2	1321.0	1331.1
17.5°	414.1	480.7	573.6	660.5	749.4	884.7	1068.5	1262.4	1343.2	1373.5
20°	329.2	393.9	466.6	575.7	696.8	840.3	1090.7	1337.1	1444.2	1476.5
22.5°	272.7	301.0	371.7	476.7	620.1	810.0	1112.9	1454.3	1567.4	1579.5
25°	238.3	258.5	303.0	401.9	559.5	789.8	1165.4	1589.6	1735.0	1735.0
27.5°	222.2	230.3	260.6	349.4	517.1	771.6	1218.0	1739.1	1874.4	1902.7
30°	218.1	238.3	254.5	311.1	470.6	721.1	1266.4	1856.2	1995.6	1997.6
32.5°	214.1	210.1	222.2	270.7	414.1	668.6	1306.8	1975.4	2084.5	2090.5
35°	167.6	175.7	195.9	238.3	371.7	630.2	1327.0	2040.0	2197.6	2203.6
37.5°	157.5	167.6	183.8	220.2	343.4	597.9	1333.1	2165.3	2316.8	2328.9
40°	153.5	161.6	173.7	204.0	321.2	557.5	1345.2	2294.5	2492.5	2476.3
42.5°	145.4	155.5	167.6	195.9	303.0	527.2	1347.2	2365.2	2585.4	2585.4
45°	143.4	149.5	163.6	195.9	282.8	500.9	1314.9	2435.9	2692.5	2660.1
47.5°	135.3	147.4	159.6	189.9	258.5	474.7	1276.5	2472.3	2706.6	2696.5
50°	133.3	145.4	165.6	179.8	244.4	462.5	1268.5	2563.2	2734.9	2732.8
52.5°	129.3	141.4	171.7	171.7	226.2	446.4	1306.8	2603.6	2740.9	2757.1
55°	123.2	141.4	159.6	157.5	210.1	426.2	1349.3	2708.6	2848.0	2843.9
57.5°	119.2	137.3	151.5	143.4	191.9	412.0	1411.9	2809.6	2977.2	2949.0
60°	113.1	137.3	135.3	133.3	177.7	399.9	1464.4	2829.8	3005.5	3023.7
62.5°	109.1	143.4	119.2	123.2	165.6	393.9	1442.2	2678.3	2967.1	2983.3
65°	105.0	123.2	109.1	113.1	161.6	381.8	1355.3	2496.5	2801.5	2872.2
67.5°	97.0	101.0	101.0	105.0	157.5	353.5	1177.6	2169.3	2549.0	2587.4
70°	88.9	90.9	90.9	97.0	153.5	321.2	971.5	1876.4	2211.7	2284.4
72.5°	80.8	80.8	80.8	88.9	141.4	294.9	799.9	1442.2	1838.1	1888.6
75°	70.7	70.7	70.7	78.8	127.3	268.6	630.2	1072.5	1353.3	1426.0
77.5°	62.6	62.6	60.6	70.7	111.1	218.1	454.5	757.4	953.4	1014.0
80°	52.5	50.5	50.5	56.6	86.9	157.5	292.9	535.3	664.5	690.8
82.5°	42.4	40.4	38.4	42.4	62.6	99.0	181.8	373.7	426.2	410.0
85°	40.4	42.4	34.3	32.3	44.4	64.6	115.1	230.3	191.9	191.9
87.5°	16.2	14.1	14.1	12.1	22.2	24.2	50.5	42.4	32.3	32.3
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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