

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: P675904

Luminaire Tested: **CCW-SA-2B-835-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675904
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-835-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
SLL distribution lens
Light Source: (32) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

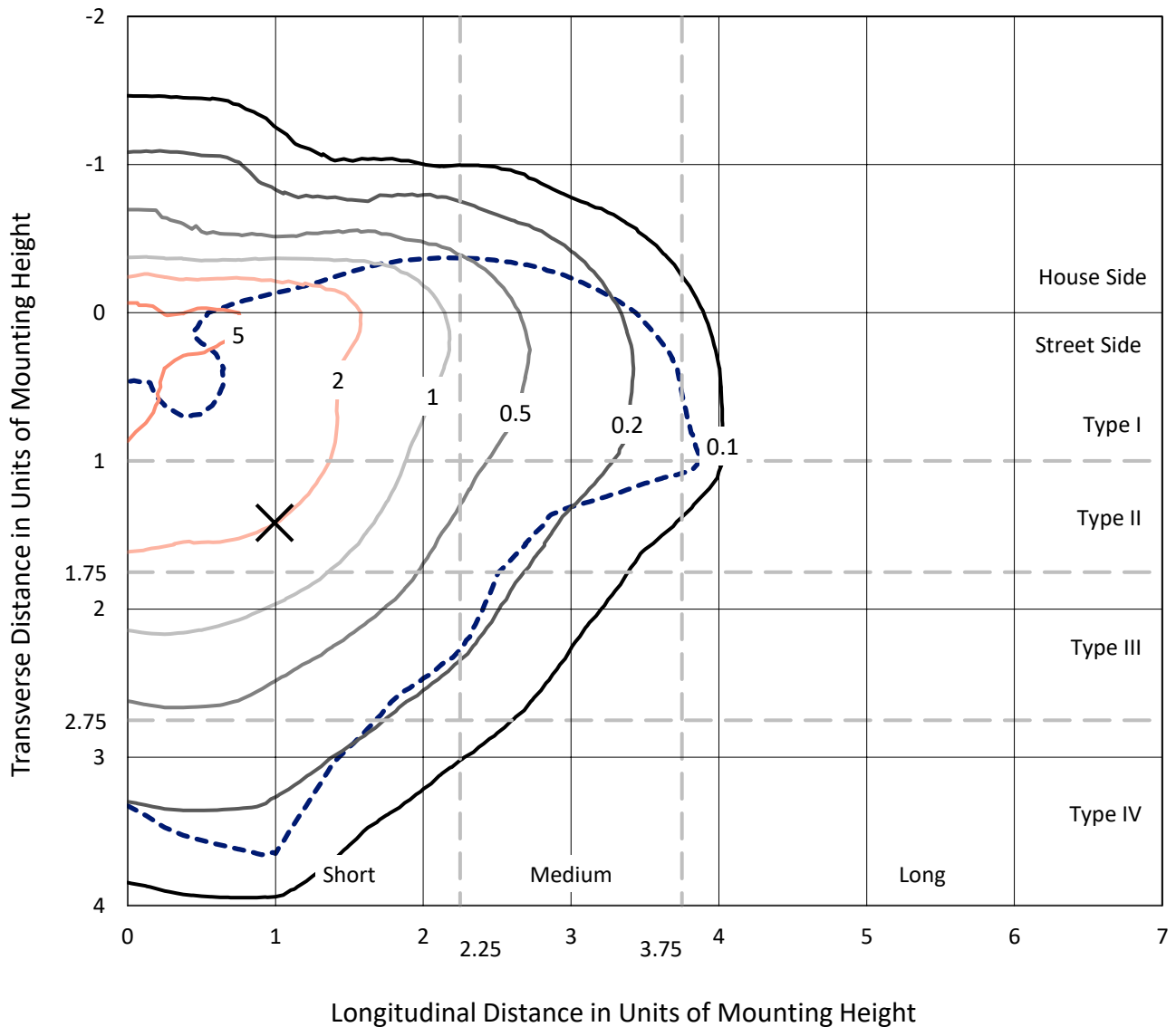
Lumens per Lamp: N/A
Luminaire Lumens: 4721.7 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

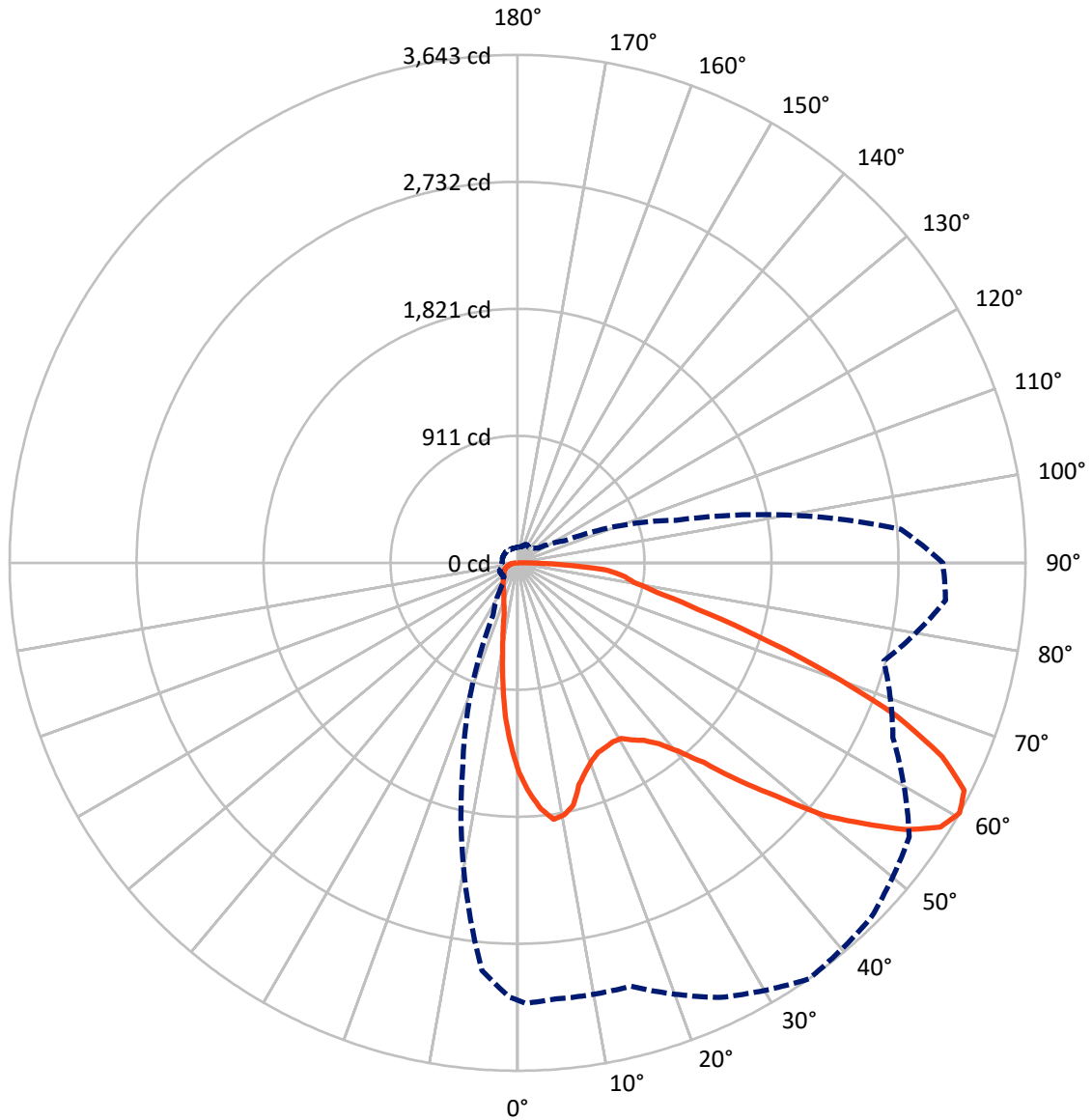
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.6 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	898.6	0.0	898.6
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	3823.1	0.0	3823.1
	% Fixture	81.0	0.0	81.0
Total	Lumens	4721.7	0.0	4721.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.2	2.5
10°-20°	247.4	5.2
20°-30°	361.9	7.7
30°-40°	509.9	10.8
40°-50°	700.8	14.8
50°-60°	955.1	20.2
60°-70°	1045.3	22.1
70°-80°	603.5	12.8
80°-90°	180.7	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°	4721.7	100.0
0°-180°	4721.7	100.0



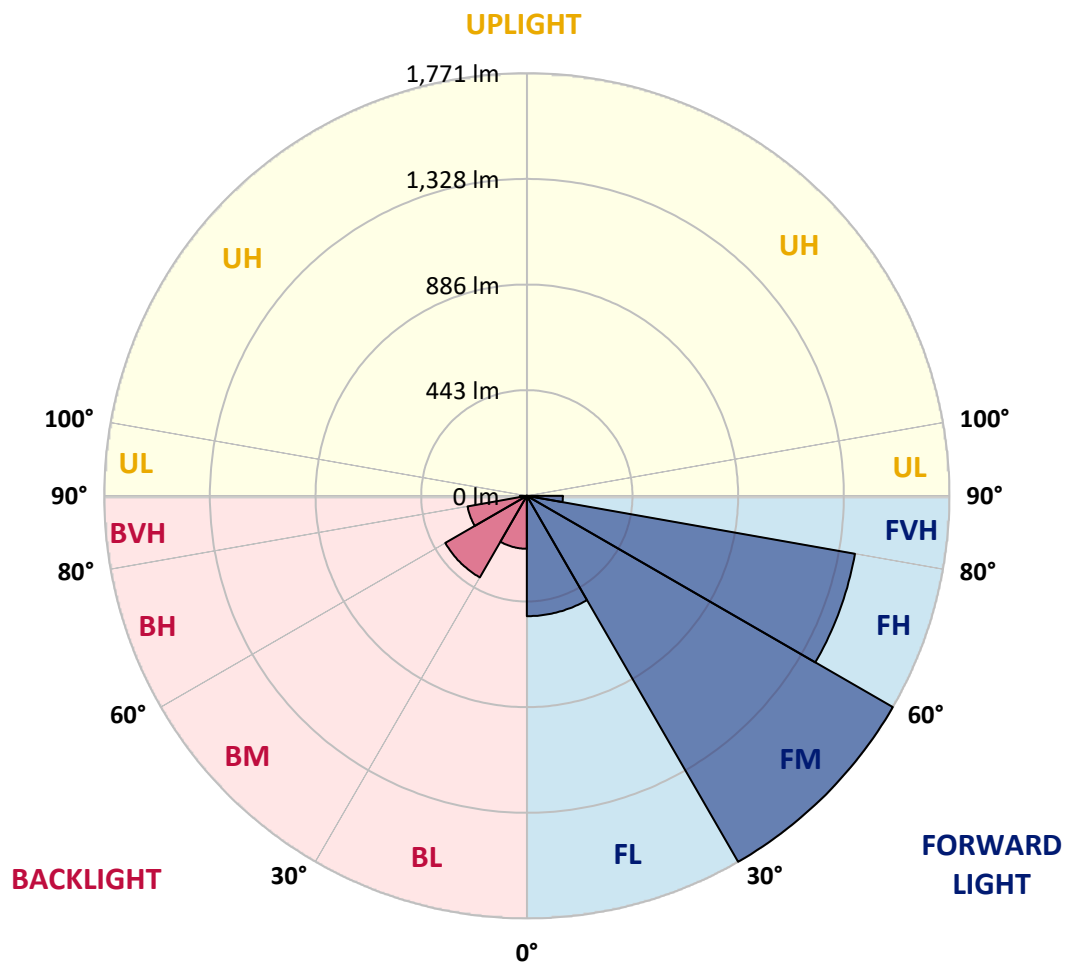
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	504.4	10.7			
FM (30°-60°)	1771.0	37.5			
FH (60°-80°)	1396.4	29.6			G1/1800
FVH (80°-90°)	151.3	3.2			G2/225
BL (0°-30°)	222.0	4.7	B1/500		
BM (30°-60°)	394.8	8.4	B1/1000		
BH (60°-80°)	252.4	5.3	B1/500		G1/500
BVH (80°-90°)	29.5	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°	1508.1	1508.1	1508.1	1508.1	1508.1	1508.1	1508.1	1508.1	1508.1	1508.1	1508.1
2.5°	1614.9	1608.6	1614.9	1638.0	1644.2	1654.7	1654.7	1640.1	1612.8	1600.3	1579.3
5°	1650.5	1640.1	1692.4	1740.6	1778.3	1774.1	1738.5	1709.2	1654.7	1573.0	1495.5
7.5°	1579.3	1589.8	1627.5	1753.2	1841.1	1857.9	1801.3	1742.7	1625.4	1512.3	1407.6
10°	1445.3	1459.9	1541.6	1671.5	1809.7	1836.9	1801.3	1730.1	1589.8	1449.4	1328.0
12.5°	1380.3	1413.8	1462.0	1619.1	1717.6	1782.5	1765.7	1719.6	1562.6	1397.1	1279.8
15°	1380.3	1388.7	1459.9	1591.9	1648.4	1650.5	1656.8	1665.2	1570.9	1420.1	1263.0
17.5°	1424.3	1447.4	1508.1	1589.8	1600.3	1575.1	1575.1	1610.7	1587.7	1485.1	1323.8
20°	1531.1	1522.8	1602.4	1635.9	1579.3	1516.5	1510.2	1570.9	1606.5	1554.2	1434.8
22.5°	1638.0	1675.7	1740.6	1665.2	1560.5	1476.7	1468.3	1543.7	1663.1	1673.6	1562.6
25°	1799.2	1836.9	1870.5	1778.3	1558.4	1466.2	1472.5	1531.1	1732.2	1843.2	1776.2
27.5°	1973.1	1996.1	2044.3	1901.9	1608.6	1453.6	1459.9	1547.9	1797.1	1954.2	1943.8
30°	2071.5	2096.7	2086.2	1924.9	1642.1	1462.0	1445.3	1570.9	1761.5	1954.2	2052.7
32.5°	2167.9	2153.2	2146.9	1962.6	1684.0	1514.4	1472.5	1619.1	1782.5	1985.7	2193.0
35°	2285.2	2264.2	2247.5	2035.9	1753.2	1564.6	1545.8	1681.9	1828.6	2050.6	2306.1
37.5°	2415.0	2415.0	2333.4	2090.4	1834.8	1646.3	1625.4	1772.0	1901.9	2090.4	2461.1
40°	2568.0	2574.2	2429.7	2163.7	1927.0	1776.2	1769.9	1889.3	1973.1	2149.0	2609.8
42.5°	2681.1	2685.2	2513.5	2190.9	2033.8	1956.3	1983.6	2077.8	2054.8	2201.4	2620.3
45°	2758.6	2737.6	2572.1	2268.4	2151.1	2226.5	2234.9	2262.1	2161.6	2232.8	2662.2
47.5°	2796.3	2792.1	2597.3	2358.5	2398.3	2500.9	2549.1	2511.4	2260.0	2199.3	2662.2
50°	2834.0	2798.4	2620.3	2482.1	2639.2	2846.5	2836.1	2766.9	2396.2	2241.2	2622.4
52.5°	2859.1	2827.7	2666.4	2593.1	2869.6	3104.2	3146.1	3018.3	2555.4	2318.7	2641.3
55°	2949.2	2924.0	2804.6	2743.9	3135.6	3376.5	3382.7	3204.7	2722.9	2446.5	2764.8
57.5°	3058.1	3072.7	2995.2	2957.5	3338.8	3575.4	3552.4	3342.9	2865.4	2601.5	2907.3
60°	3135.6	3158.6	3139.8	3144.0	3439.3	3642.5	3590.1	3428.8	2970.1	2718.8	3081.1
62.5°	3093.7	3139.8	3217.3	3200.5	3443.5	3594.3	3521.0	3315.7	2982.7	2871.7	3213.1
65°	2978.5	2982.7	3133.5	3225.6	3255.0	3345.0	3248.7	3079.0	2852.8	2965.9	3194.2
67.5°	2683.2	2716.7	2852.8	3032.9	2909.4	2930.3	2921.9	2676.9	2655.9	2901.0	3049.7
70°	2369.0	2392.0	2540.7	2752.3	2456.9	2358.5	2377.3	2195.1	2281.0	2699.9	2758.6
72.5°	1958.4	1973.1	2142.8	2329.2	1971.0	1795.1	1839.0	1690.3	1811.8	2362.7	2327.1
75°	1478.8	1506.0	1638.0	1857.9	1451.5	1338.4	1382.4	1321.7	1434.8	1945.9	1805.5
77.5°	1051.5	1030.5	1193.9	1453.6	1091.3	1024.2	1028.4	1038.9	1160.4	1640.1	1296.5
80°	716.3	722.6	869.2	1066.1	856.7	846.2	835.7	919.5	974.0	1298.6	942.6
82.5°	425.2	425.2	586.5	758.2	676.5	762.4	714.3	789.7	762.4	955.1	617.9
85°	199.0	199.0	301.6	546.7	523.6	628.4	534.1	597.0	563.4	666.1	278.6
87.5°	33.5	29.3	60.7	268.1	215.7	245.1	96.4	318.4	354.0	465.0	69.1
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°	1508.1	1508.1	1508.1	1508.1	1508.1	1508.1	1508.1	1508.1	1508.1	1508.1	1508.1
2.5°	1556.3	1541.6	1512.3	1474.6	1443.2	1403.4	1390.8	1363.6	1325.9	1321.7	1304.9
5°	1466.2	1415.9	1353.1	1275.6	1223.2	1168.8	1122.7	1095.5	1064.0	1059.9	1051.5
7.5°	1367.8	1304.9	1200.2	1108.0	1018.0	932.1	890.2	837.8	802.2	775.0	762.4
10°	1275.6	1216.9	1087.1	961.4	881.8	825.3	775.0	720.5	676.5	643.0	630.5
12.5°	1214.9	1145.7	1005.4	886.0	827.4	762.4	705.9	647.2	590.7	546.7	523.6
15°	1187.6	1122.7	980.3	848.3	762.4	672.4	607.4	548.8	479.7	448.2	437.8
17.5°	1252.6	1156.2	971.9	804.3	682.8	580.2	500.6	437.8	387.5	356.1	343.5
20°	1336.3	1216.9	986.5	752.0	607.4	492.2	404.3	337.2	303.7	280.7	278.6
22.5°	1443.2	1307.0	1009.6	714.3	523.6	395.9	316.3	276.5	253.4	251.3	247.2
25°	1633.8	1470.4	1047.3	664.0	456.6	326.8	270.2	247.2	236.7	230.4	234.6
27.5°	1797.1	1577.2	1074.5	632.6	429.4	307.9	261.8	236.7	226.2	224.1	226.2
30°	1893.5	1675.7	1066.1	573.9	374.9	293.2	278.6	270.2	249.3	232.5	232.5
32.5°	1981.5	1738.5	1064.0	521.5	320.5	245.1	232.5	226.2	238.8	247.2	240.9
35°	2103.0	1836.9	1057.8	492.2	297.4	226.2	205.3	188.5	180.1	175.9	182.2
37.5°	2232.8	1904.0	1041.0	488.0	284.9	215.7	199.0	182.2	173.8	169.7	167.6
40°	2375.2	1975.2	1022.2	467.1	278.6	209.5	192.7	178.0	167.6	161.3	159.2
42.5°	2467.4	2031.7	1003.3	456.6	266.0	205.3	186.4	173.8	163.4	155.0	155.0
45°	2519.8	2098.8	984.5	446.1	251.3	207.4	186.4	169.7	157.1	152.9	148.7
47.5°	2542.8	2149.0	978.2	429.4	238.8	199.0	182.2	165.5	152.9	144.5	142.4
50°	2603.6	2255.9	1001.2	416.8	224.1	190.6	192.7	163.4	150.8	140.3	138.2
52.5°	2639.2	2341.7	1051.5	398.0	213.6	180.1	188.5	159.2	144.5	134.1	134.1
55°	2769.0	2484.2	1105.9	383.3	201.1	165.5	173.8	150.8	134.1	127.8	127.8
57.5°	2934.5	2635.0	1152.0	377.0	192.7	155.0	155.0	146.6	127.8	119.4	117.3
60°	3049.7	2758.6	1179.2	372.8	184.3	144.5	138.2	146.6	121.5	113.1	111.0
62.5°	3062.3	2687.3	1152.0	370.7	182.2	134.1	125.7	140.3	115.2	106.8	102.6
65°	2982.7	2542.8	1076.6	362.4	180.1	123.6	117.3	121.5	106.8	100.5	96.4
67.5°	2823.5	2308.2	967.7	358.2	178.0	115.2	106.8	104.7	98.4	92.2	88.0
70°	2452.7	2002.4	839.9	339.3	173.8	108.9	96.4	94.3	88.0	83.8	81.7
72.5°	2059.0	1638.0	693.3	314.2	165.5	98.4	88.0	83.8	81.7	75.4	73.3
75°	1577.2	1260.9	555.1	278.6	144.5	88.0	77.5	73.3	71.2	67.0	64.9
77.5°	1108.0	938.4	410.5	226.2	121.5	79.6	69.1	64.9	62.8	56.6	56.6
80°	752.0	657.7	278.6	157.1	94.3	64.9	60.7	56.6	52.4	48.2	48.2
82.5°	467.1	460.8	201.1	102.6	69.1	52.4	48.2	48.2	41.9	37.7	37.7
85°	213.6	282.8	140.3	71.2	52.4	39.8	39.8	37.7	33.5	27.2	27.2
87.5°	67.0	94.3	73.3	31.4	29.3	23.0	23.0	20.9	20.9	16.8	16.8
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1508.1	1508.1	1508.1	1508.1	1508.1	1508.1	1508.1	1508.1	1508.1	1508.1	1508.1
2.5°	1321.7	1319.6	1319.6	1311.2	1332.2	1332.2	1344.7	1334.2	1340.5	1342.6	1359.4
5°	1049.4	1066.1	1078.7	1103.8	1118.5	1124.8	1124.8	1141.5	1135.3	1147.8	1173.0
7.5°	768.7	789.7	827.4	858.8	883.9	892.3	890.2	894.4	900.7	886.0	890.2
10°	622.1	607.4	620.0	649.3	672.4	699.6	678.6	676.5	682.8	676.5	689.1
12.5°	519.5	502.7	492.2	492.2	509.0	521.5	515.3	525.7	548.8	555.1	569.7
15°	421.0	406.3	398.0	387.5	404.3	408.4	414.7	429.4	446.1	454.5	471.3
17.5°	337.2	337.2	337.2	328.8	335.1	341.4	343.5	362.4	364.5	372.8	379.1
20°	276.5	282.8	293.2	297.4	303.7	303.7	299.5	310.0	301.6	307.9	312.1
22.5°	249.3	257.6	261.8	263.9	272.3	274.4	263.9	266.0	268.1	261.8	263.9
25°	234.6	238.8	234.6	236.7	238.8	234.6	236.7	240.9	238.8	243.0	240.9
27.5°	228.3	224.1	222.0	219.9	219.9	215.7	217.8	217.8	222.0	224.1	224.1
30°	228.3	222.0	213.6	207.4	207.4	201.1	205.3	209.5	211.6	215.7	215.7
32.5°	234.6	222.0	207.4	201.1	194.8	190.6	194.8	201.1	209.5	211.6	213.6
35°	186.4	192.7	190.6	182.2	180.1	180.1	178.0	178.0	171.8	171.8	169.7
37.5°	167.6	165.5	169.7	171.8	173.8	167.6	167.6	159.2	157.1	159.2	159.2
40°	157.1	157.1	157.1	163.4	165.5	161.3	155.0	150.8	150.8	150.8	152.9
42.5°	152.9	148.7	146.6	150.8	157.1	152.9	146.6	144.5	144.5	146.6	146.6
45°	146.6	144.5	142.4	140.3	148.7	142.4	140.3	138.2	138.2	138.2	140.3
47.5°	140.3	138.2	134.1	134.1	136.1	134.1	132.0	132.0	132.0	136.1	136.1
50°	136.1	134.1	129.9	129.9	129.9	129.9	127.8	127.8	127.8	129.9	132.0
52.5°	129.9	127.8	125.7	123.6	123.6	123.6	123.6	123.6	123.6	125.7	127.8
55°	123.6	121.5	119.4	119.4	121.5	121.5	119.4	121.5	119.4	121.5	123.6
57.5°	117.3	115.2	113.1	115.2	117.3	115.2	115.2	115.2	115.2	115.2	117.3
60°	108.9	108.9	108.9	108.9	113.1	113.1	113.1	113.1	108.9	111.0	113.1
62.5°	104.7	102.6	102.6	104.7	106.8	106.8	108.9	106.8	104.7	106.8	106.8
65°	96.4	96.4	96.4	98.4	98.4	100.5	100.5	100.5	98.4	100.5	100.5
67.5°	90.1	90.1	90.1	90.1	94.3	94.3	94.3	94.3	92.2	92.2	94.3
70°	79.6	81.7	79.6	83.8	88.0	85.9	88.0	88.0	85.9	83.8	88.0
72.5°	73.3	73.3	73.3	73.3	79.6	79.6	79.6	81.7	79.6	77.5	79.6
75°	64.9	64.9	64.9	67.0	71.2	71.2	71.2	71.2	71.2	69.1	69.1
77.5°	56.6	58.6	56.6	58.6	62.8	60.7	62.8	64.9	62.8	60.7	60.7
80°	48.2	48.2	48.2	50.3	52.4	52.4	52.4	54.5	52.4	50.3	50.3
82.5°	37.7	37.7	39.8	39.8	41.9	41.9	41.9	44.0	41.9	39.8	39.8
85°	29.3	29.3	29.3	31.4	31.4	33.5	33.5	35.6	35.6	33.5	33.5
87.5°	18.9	16.8	18.9	18.9	20.9	20.9	18.9	16.8	18.9	16.8	14.7
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1508.1	1508.1	1508.1	1508.1	1508.1	1508.1	1508.1	1508.1	1508.1	1508.1
2.5°	1376.1	1413.8	1441.1	1459.9	1487.1	1539.5	1560.5	1598.2	1608.6	1614.9
5°	1183.4	1223.2	1281.9	1323.8	1371.9	1470.4	1545.8	1602.4	1627.5	1650.5
7.5°	927.9	980.3	1041.0	1095.5	1175.1	1296.5	1395.0	1512.3	1556.3	1579.3
10°	724.7	772.9	839.9	907.0	1018.0	1120.6	1260.9	1367.8	1428.5	1445.3
12.5°	611.6	668.2	747.8	829.5	898.6	1015.9	1158.3	1313.3	1369.9	1380.3
15°	519.5	597.0	678.6	762.4	842.0	944.7	1097.6	1286.1	1369.9	1380.3
17.5°	429.4	498.5	594.9	684.9	777.1	917.4	1108.0	1309.1	1392.9	1424.3
20°	341.4	408.4	483.8	597.0	722.6	871.3	1131.1	1386.6	1497.6	1531.1
22.5°	282.8	312.1	385.4	494.3	643.0	839.9	1154.1	1508.1	1625.4	1638.0
25°	247.2	268.1	314.2	416.8	580.2	819.0	1208.6	1648.4	1799.2	1799.2
27.5°	230.4	238.8	270.2	362.4	536.2	800.1	1263.0	1803.4	1943.8	1973.1
30°	226.2	247.2	263.9	322.6	488.0	747.8	1313.3	1924.9	2069.4	2071.5
32.5°	222.0	217.8	230.4	280.7	429.4	693.3	1355.2	2048.5	2161.6	2167.9
35°	173.8	182.2	203.2	247.2	385.4	653.5	1376.1	2115.5	2278.9	2285.2
37.5°	163.4	173.8	190.6	228.3	356.1	620.0	1382.4	2245.4	2402.5	2415.0
40°	159.2	167.6	180.1	211.6	333.0	578.1	1395.0	2379.4	2584.7	2568.0
42.5°	150.8	161.3	173.8	203.2	314.2	546.7	1397.1	2452.7	2681.1	2681.1
45°	148.7	155.0	169.7	203.2	293.2	519.5	1363.6	2526.1	2792.1	2758.6
47.5°	140.3	152.9	165.5	196.9	268.1	492.2	1323.8	2563.8	2806.7	2796.3
50°	138.2	150.8	171.8	186.4	253.4	479.7	1315.4	2658.0	2836.1	2834.0
52.5°	134.1	146.6	178.0	178.0	234.6	462.9	1355.2	2699.9	2842.3	2859.1
55°	127.8	146.6	165.5	163.4	217.8	442.0	1399.2	2808.8	2953.4	2949.2
57.5°	123.6	142.4	157.1	148.7	199.0	427.3	1464.1	2913.6	3087.4	3058.1
60°	117.3	142.4	140.3	138.2	184.3	414.7	1518.6	2934.5	3116.7	3135.6
62.5°	113.1	148.7	123.6	127.8	171.8	408.4	1495.5	2777.4	3076.9	3093.7
65°	108.9	127.8	113.1	117.3	167.6	395.9	1405.5	2588.9	2905.2	2978.5
67.5°	100.5	104.7	104.7	108.9	163.4	366.6	1221.1	2249.6	2643.4	2683.2
70°	92.2	94.3	94.3	100.5	159.2	333.0	1007.5	1945.9	2293.6	2369.0
72.5°	83.8	83.8	83.8	92.2	146.6	305.8	829.5	1495.5	1906.1	1958.4
75°	73.3	73.3	73.3	81.7	132.0	278.6	653.5	1112.2	1403.4	1478.8
77.5°	64.9	64.9	62.8	73.3	115.2	226.2	471.3	785.5	988.6	1051.5
80°	54.5	52.4	52.4	58.6	90.1	163.4	303.7	555.1	689.1	716.3
82.5°	44.0	41.9	39.8	44.0	64.9	102.6	188.5	387.5	442.0	425.2
85°	41.9	44.0	35.6	33.5	46.1	67.0	119.4	238.8	199.0	199.0
87.5°	16.8	14.7	14.7	12.6	23.0	25.1	52.4	44.0	33.5	33.5
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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