

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: P671670

Luminaire Tested: **CCP-SA-1D-735-U-SLL**

Issue Date: 04/16/2023

Test Information

Test Method: LM-79-08
Report Number: P671670
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1D-735-U-SLL
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ SLL
distribution lens
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4563.9 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

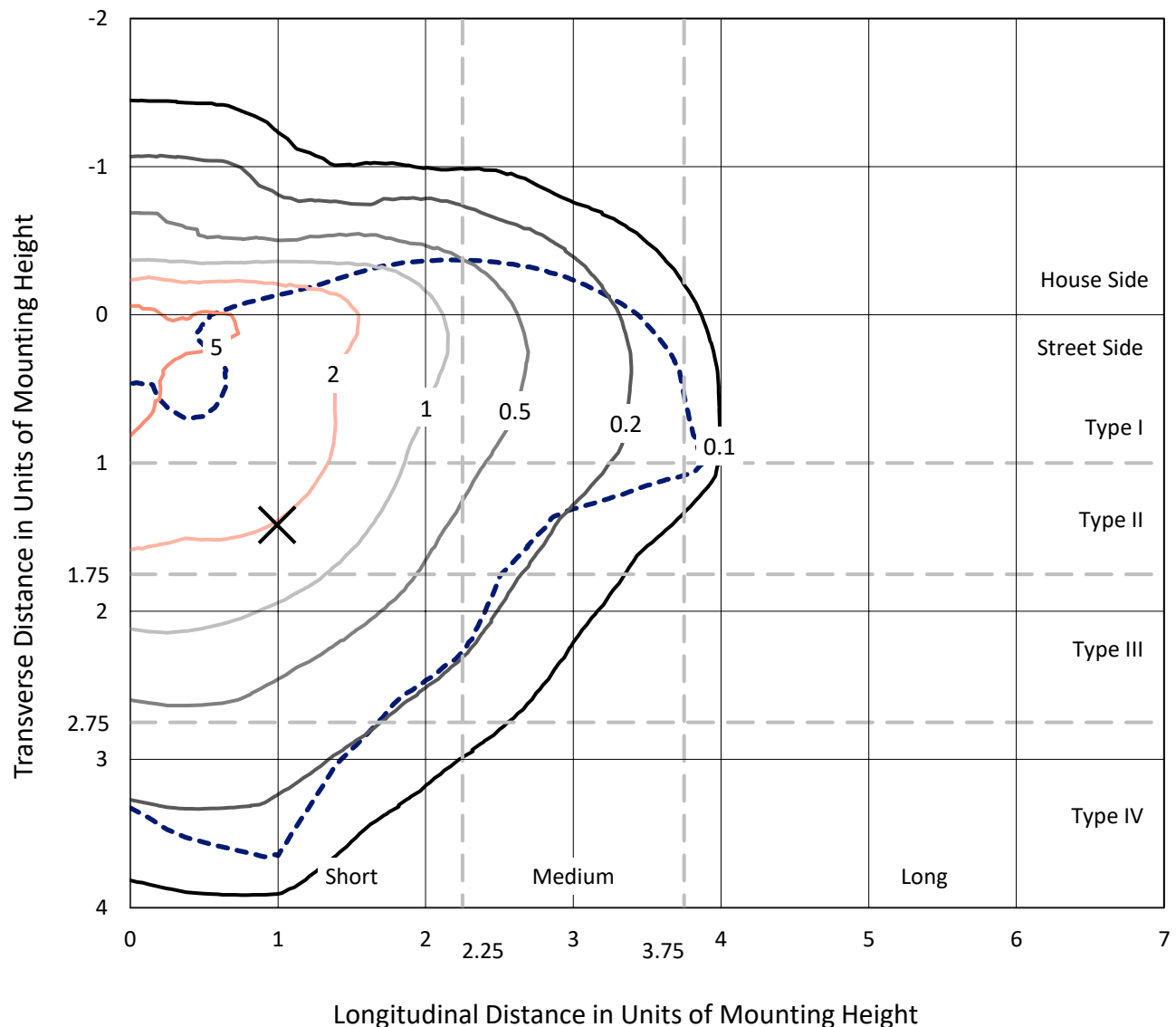
Input Watts (W): 44
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

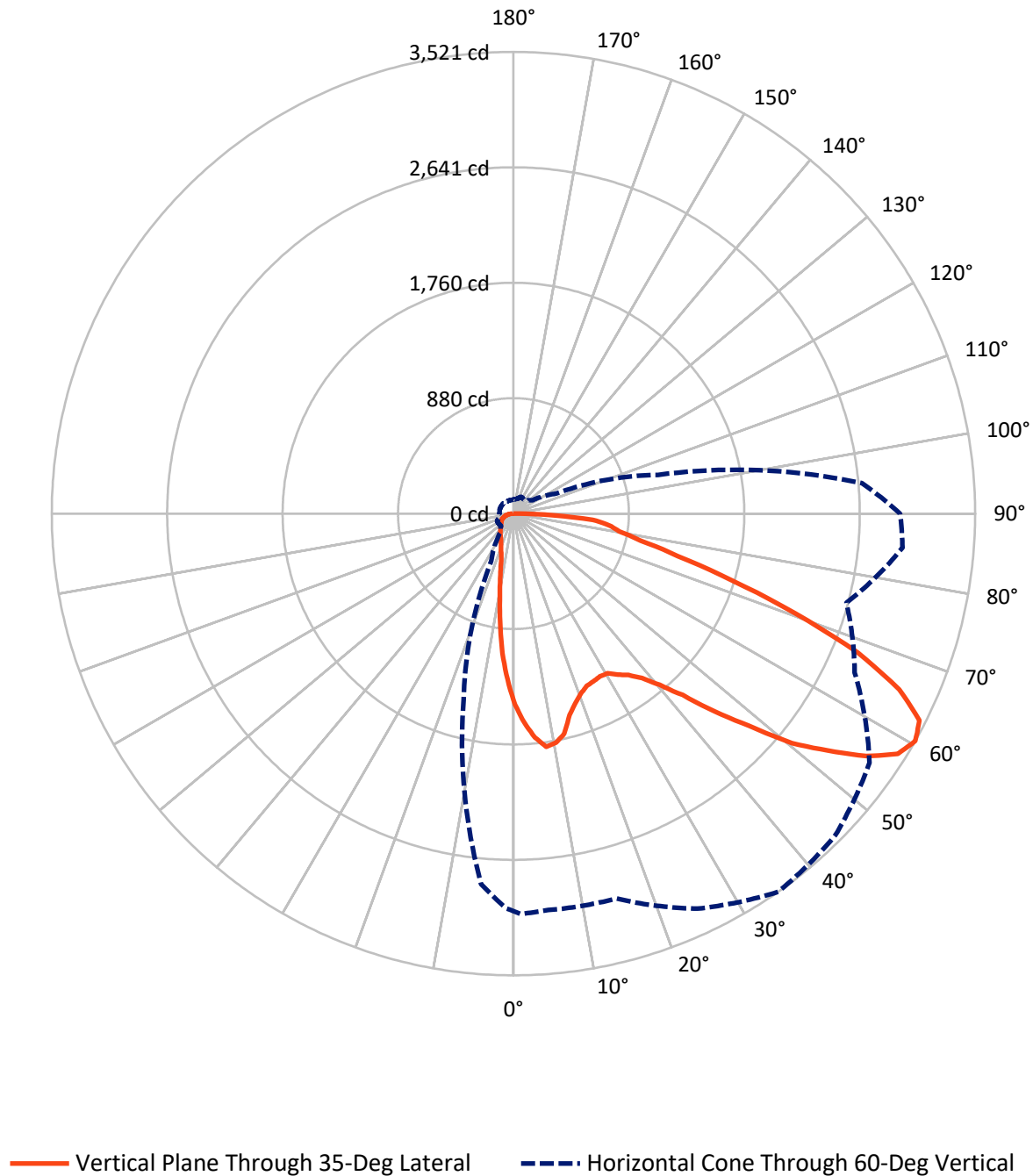
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	868.6	0.0	868.6
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	3695.3	0.0	3695.3
	% Fixture	81.0	0.0	81.0
Total	Lumens	4563.9	0.0	4563.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.2	2.5
10°-20°	239.1	5.2
20°-30°	349.8	7.7
30°-40°	492.9	10.8
40°-50°	677.4	14.8
50°-60°	923.2	20.2
60°-70°	1010.4	22.1
70°-80°	583.3	12.8
80°-90°	174.7	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°	4563.9	100.0
0°-180°	4563.9	100.0

Coefficient of Utilization



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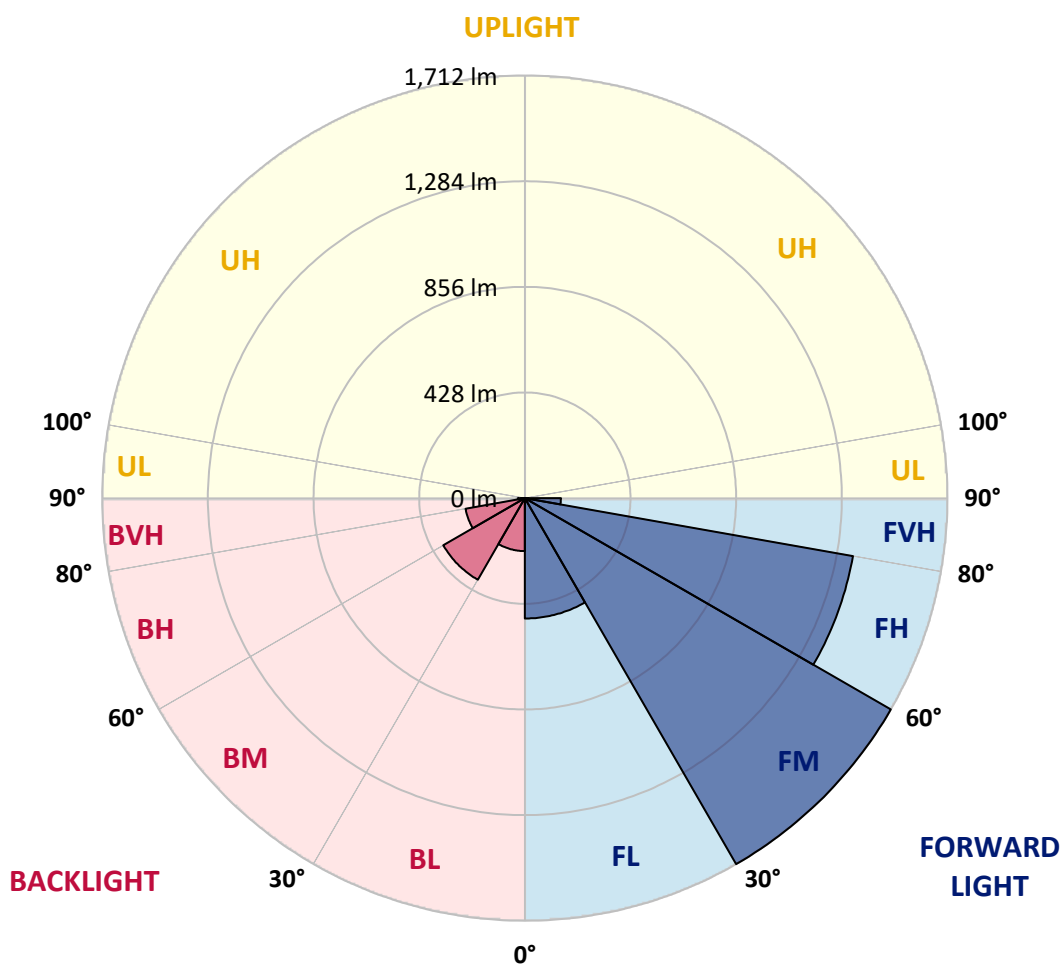
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	487.6	10.7			
FM	(30°-60°)	1711.8	37.5			
FH	(60°-80°)	1349.7	29.6			G1/1800
FVH	(80°-90°)	146.2	3.2			G2/225
BL	(0°-30°)	214.6	4.7	B1/500		
BM	(30°-60°)	381.6	8.4	B1/1000		
BH	(60°-80°)	244.0	5.3	B1/500		G1/500
BVH	(80°-90°)	28.5	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°	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7
2.5°	1560.9	1554.9	1560.9	1583.2	1589.3	1599.4	1599.4	1585.2	1558.9	1546.8	1526.5
5°	1595.4	1585.2	1635.8	1682.4	1718.9	1714.8	1680.4	1652.0	1599.4	1520.4	1445.5
7.5°	1526.5	1536.6	1573.1	1694.6	1779.6	1795.8	1741.1	1684.4	1571.1	1461.7	1360.5
10°	1396.9	1411.1	1490.1	1615.6	1749.2	1775.5	1741.1	1672.3	1536.6	1401.0	1283.6
12.5°	1334.2	1366.6	1413.1	1565.0	1660.1	1722.9	1706.7	1662.2	1510.3	1350.4	1237.0
15°	1334.2	1342.3	1411.1	1538.7	1593.3	1595.4	1601.4	1609.5	1518.4	1372.7	1220.8
17.5°	1376.7	1399.0	1457.7	1536.6	1546.8	1522.5	1522.5	1556.9	1534.6	1435.4	1279.5
20°	1480.0	1471.9	1548.8	1581.2	1526.5	1465.8	1459.7	1518.4	1552.8	1502.2	1386.8
22.5°	1583.2	1619.6	1682.4	1609.5	1508.3	1427.3	1419.2	1492.1	1607.5	1617.6	1510.3
25°	1739.1	1775.5	1807.9	1718.9	1506.3	1417.2	1423.3	1480.0	1674.3	1781.6	1716.8
27.5°	1907.1	1929.4	1976.0	1838.3	1554.9	1405.0	1411.1	1496.2	1737.1	1888.9	1878.8
30°	2002.3	2026.6	2016.5	1860.6	1587.3	1413.1	1396.9	1518.4	1702.7	1888.9	1984.1
32.5°	2095.4	2081.2	2075.2	1897.0	1627.7	1463.8	1423.3	1565.0	1722.9	1919.3	2119.7
35°	2208.8	2188.6	2172.4	1967.9	1694.6	1512.3	1494.1	1625.7	1767.4	1982.0	2229.0
37.5°	2334.3	2334.3	2255.4	2020.5	1773.5	1591.3	1571.1	1712.8	1838.3	2020.5	2378.9
40°	2482.1	2488.2	2348.5	2091.4	1862.6	1716.8	1710.8	1826.2	1907.1	2077.2	2522.6
42.5°	2591.4	2595.5	2429.5	2117.7	1965.8	1890.9	1917.3	2008.4	1986.1	2127.8	2532.7
45°	2666.3	2646.1	2486.2	2192.6	2079.2	2152.1	2160.2	2186.5	2089.3	2158.2	2573.2
47.5°	2702.8	2698.7	2510.5	2279.7	2318.1	2417.3	2463.9	2427.4	2184.5	2125.8	2573.2
50°	2739.2	2704.8	2532.7	2399.1	2550.9	2751.4	2741.3	2674.4	2316.1	2166.3	2534.8
52.5°	2763.5	2733.2	2577.3	2506.4	2773.6	3000.4	3040.9	2917.4	2470.0	2241.2	2553.0
55°	2850.6	2826.3	2710.9	2652.2	3030.8	3263.6	3269.7	3097.6	2631.9	2364.7	2672.4
57.5°	2955.9	2970.0	2895.1	2858.7	3227.2	3455.9	3433.7	3231.2	2769.6	2514.5	2810.1
60°	3030.8	3053.0	3034.8	3038.9	3324.3	3520.7	3470.1	3314.2	2870.8	2627.9	2978.1
62.5°	2990.3	3034.8	3109.7	3093.5	3328.4	3474.1	3403.3	3204.9	2883.0	2775.7	3105.7
65°	2878.9	2883.0	3028.7	3117.8	3146.2	3233.2	3140.1	2976.1	2757.5	2866.8	3087.5
67.5°	2593.5	2625.9	2757.5	2931.6	2812.1	2832.4	2824.3	2587.4	2567.1	2804.0	2947.8
70°	2289.8	2312.0	2455.8	2660.3	2374.8	2279.7	2297.9	2121.7	2204.7	2609.7	2666.3
72.5°	1893.0	1907.1	2071.1	2251.3	1905.1	1735.0	1777.6	1633.8	1751.2	2283.7	2249.3
75°	1429.3	1455.7	1583.2	1795.8	1403.0	1293.7	1336.2	1277.5	1386.8	1880.8	1745.2
77.5°	1016.3	996.1	1154.0	1405.0	1054.8	990.0	994.1	1004.2	1121.6	1585.2	1253.2
80°	692.4	698.5	840.2	1030.5	828.0	817.9	807.8	888.8	941.4	1255.2	911.1
82.5°	411.0	411.0	566.9	732.9	653.9	736.9	690.4	763.3	736.9	923.2	597.2
85°	192.3	192.3	291.5	528.4	506.1	607.4	516.3	577.0	544.6	643.8	269.3
87.5°	32.4	28.3	58.7	259.1	208.5	236.9	93.1	307.7	342.2	449.5	66.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7
2.5°	1504.2	1490.1	1461.7	1425.3	1394.9	1356.5	1344.3	1318.0	1281.5	1277.5	1261.3
5°	1417.2	1368.6	1307.9	1233.0	1182.3	1129.7	1085.2	1058.8	1028.5	1024.4	1016.3
7.5°	1322.0	1261.3	1160.1	1071.0	983.9	900.9	860.4	809.8	775.4	749.1	736.9
10°	1233.0	1176.3	1050.7	929.3	852.3	797.7	749.1	696.4	653.9	621.5	609.4
12.5°	1174.2	1107.4	971.8	856.4	799.7	736.9	682.3	625.6	570.9	528.4	506.1
15°	1147.9	1085.2	947.5	819.9	736.9	649.9	587.1	530.4	463.6	433.3	423.1
17.5°	1210.7	1117.6	939.4	777.4	660.0	560.8	483.9	423.1	374.5	344.2	332.0
20°	1291.7	1176.3	953.6	726.8	587.1	475.8	390.7	326.0	293.6	271.3	269.3
22.5°	1394.9	1263.3	975.8	690.4	506.1	382.6	305.7	267.2	245.0	242.9	238.9
25°	1579.2	1421.2	1012.3	641.8	441.4	315.8	261.2	238.9	228.8	222.7	226.8
27.5°	1737.1	1524.5	1038.6	611.4	415.0	297.6	253.1	228.8	218.7	216.6	218.7
30°	1830.2	1619.6	1030.5	554.7	362.4	283.4	269.3	261.2	240.9	224.7	224.7
32.5°	1915.2	1680.4	1028.5	504.1	309.8	236.9	224.7	218.7	230.8	238.9	232.8
35°	2032.7	1775.5	1022.4	475.8	287.5	218.7	198.4	182.2	174.1	170.1	176.1
37.5°	2158.2	1840.3	1006.2	471.7	275.3	208.5	192.3	176.1	168.0	164.0	162.0
40°	2295.9	1909.2	988.0	451.5	269.3	202.5	186.3	172.1	162.0	155.9	153.9
42.5°	2384.9	1963.8	969.8	441.4	257.1	198.4	180.2	168.0	157.9	149.8	149.8
45°	2435.5	2028.6	951.5	431.2	242.9	200.4	180.2	164.0	151.8	147.8	143.7
47.5°	2457.8	2077.2	945.5	415.0	230.8	192.3	176.1	159.9	147.8	139.7	137.7
50°	2516.5	2180.5	967.7	402.9	216.6	184.2	186.3	157.9	145.8	135.6	133.6
52.5°	2550.9	2263.5	1016.3	384.7	206.5	174.1	182.2	153.9	139.7	129.6	129.6
55°	2676.5	2401.1	1069.0	370.5	194.4	159.9	168.0	145.8	129.6	123.5	123.5
57.5°	2836.4	2546.9	1113.5	364.4	186.3	149.8	149.8	141.7	123.5	115.4	113.4
60°	2947.8	2666.3	1139.8	360.4	178.2	139.7	133.6	141.7	117.4	109.3	107.3
62.5°	2959.9	2597.5	1113.5	358.3	176.1	129.6	121.5	135.6	111.4	103.3	99.2
65°	2883.0	2457.8	1040.6	350.2	174.1	119.4	113.4	117.4	103.3	97.2	93.1
67.5°	2729.1	2231.1	935.3	346.2	172.1	111.4	103.3	101.2	95.2	89.1	85.0
70°	2370.8	1935.5	811.8	328.0	168.0	105.3	93.1	91.1	85.0	81.0	79.0
72.5°	1990.1	1583.2	670.1	303.7	159.9	95.2	85.0	81.0	79.0	72.9	70.9
75°	1524.5	1218.8	536.5	269.3	139.7	85.0	74.9	70.9	68.8	64.8	62.8
77.5°	1071.0	907.0	396.8	218.7	117.4	76.9	66.8	62.8	60.7	54.7	54.7
80°	726.8	635.7	269.3	151.8	91.1	62.8	58.7	54.7	50.6	46.6	46.6
82.5°	451.5	445.4	194.4	99.2	66.8	50.6	46.6	46.6	40.5	36.4	36.4
85°	206.5	273.3	135.6	68.8	50.6	38.5	38.5	36.4	32.4	26.3	26.3
87.5°	64.8	91.1	70.9	30.4	28.3	22.3	22.3	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°	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7
2.5°	1277.5	1275.5	1275.5	1267.4	1287.6	1287.6	1299.8	1289.6	1295.7	1297.7	1313.9
5°	1014.3	1030.5	1042.6	1066.9	1081.1	1087.2	1087.2	1103.4	1097.3	1109.5	1133.8
7.5°	743.0	763.3	799.7	830.1	854.4	862.5	860.4	864.5	870.6	856.4	860.4
10°	601.3	587.1	599.3	627.6	649.9	676.2	656.0	653.9	660.0	653.9	666.1
12.5°	502.1	485.9	475.8	475.8	492.0	504.1	498.0	508.2	530.4	536.5	550.7
15°	406.9	392.8	384.7	374.5	390.7	394.8	400.9	415.0	431.2	439.3	455.5
17.5°	326.0	326.0	326.0	317.9	323.9	330.0	332.0	350.2	352.3	360.4	366.4
20°	267.2	273.3	283.4	287.5	293.6	293.6	289.5	299.6	291.5	297.6	301.7
22.5°	240.9	249.0	253.1	255.1	263.2	265.2	255.1	257.1	259.1	253.1	255.1
25°	226.8	230.8	226.8	228.8	230.8	226.8	228.8	232.8	230.8	234.8	232.8
27.5°	220.7	216.6	214.6	212.6	212.6	208.5	210.6	210.6	214.6	216.6	216.6
30°	220.7	214.6	206.5	200.4	200.4	194.4	198.4	202.5	204.5	208.5	208.5
32.5°	226.8	214.6	200.4	194.4	188.3	184.2	188.3	194.4	202.5	204.5	206.5
35°	180.2	186.3	184.2	176.1	174.1	174.1	172.1	172.1	166.0	166.0	164.0
37.5°	162.0	159.9	164.0	166.0	168.0	162.0	162.0	153.9	151.8	153.9	153.9
40°	151.8	151.8	151.8	157.9	159.9	155.9	149.8	145.8	145.8	145.8	147.8
42.5°	147.8	143.7	141.7	145.8	151.8	147.8	141.7	139.7	139.7	141.7	141.7
45°	141.7	139.7	137.7	135.6	143.7	137.7	135.6	133.6	133.6	133.6	135.6
47.5°	135.6	133.6	129.6	129.6	131.6	129.6	127.5	127.5	127.5	131.6	131.6
50°	131.6	129.6	125.5	125.5	125.5	125.5	123.5	123.5	123.5	125.5	127.5
52.5°	125.5	123.5	121.5	119.4	119.4	119.4	119.4	119.4	119.4	121.5	123.5
55°	119.4	117.4	115.4	115.4	117.4	117.4	115.4	117.4	115.4	117.4	119.4
57.5°	113.4	111.4	109.3	111.4	113.4	111.4	111.4	111.4	111.4	111.4	113.4
60°	105.3	105.3	105.3	105.3	109.3	109.3	109.3	109.3	105.3	107.3	109.3
62.5°	101.2	99.2	99.2	101.2	103.3	103.3	105.3	103.3	101.2	103.3	103.3
65°	93.1	93.1	93.1	95.2	95.2	97.2	97.2	97.2	95.2	97.2	97.2
67.5°	87.1	87.1	87.1	87.1	91.1	91.1	91.1	91.1	89.1	89.1	91.1
70°	76.9	79.0	76.9	81.0	85.0	83.0	85.0	85.0	83.0	81.0	85.0
72.5°	70.9	70.9	70.9	70.9	76.9	76.9	76.9	79.0	76.9	74.9	76.9
75°	62.8	62.8	62.8	64.8	68.8	68.8	68.8	68.8	68.8	66.8	66.8
77.5°	54.7	56.7	54.7	56.7	60.7	58.7	60.7	62.8	60.7	58.7	58.7
80°	46.6	46.6	46.6	48.6	50.6	50.6	50.6	52.6	50.6	48.6	48.6
82.5°	36.4	36.4	38.5	38.5	40.5	40.5	40.5	42.5	40.5	38.5	38.5
85°	28.3	28.3	28.3	30.4	30.4	32.4	32.4	34.4	34.4	32.4	32.4
87.5°	18.2	16.2	18.2	18.2	20.2	20.2	18.2	16.2	18.2	16.2	14.2
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7
2.5°	1330.1	1366.6	1392.9	1411.1	1437.4	1488.1	1508.3	1544.7	1554.9	1560.9
5°	1143.9	1182.3	1239.0	1279.5	1326.1	1421.2	1494.1	1548.8	1573.1	1595.4
7.5°	896.9	947.5	1006.2	1058.8	1135.8	1253.2	1348.4	1461.7	1504.2	1526.5
10°	700.5	747.1	811.8	876.6	983.9	1083.1	1218.8	1322.0	1380.8	1396.9
12.5°	591.2	645.8	722.8	801.7	868.5	981.9	1119.6	1269.4	1324.1	1334.2
15°	502.1	577.0	656.0	736.9	813.9	913.1	1060.9	1243.1	1324.1	1334.2
17.5°	415.0	481.8	575.0	662.0	751.1	886.8	1071.0	1265.4	1346.3	1376.7
20°	330.0	394.8	467.7	577.0	698.5	842.2	1093.3	1340.3	1447.6	1480.0
22.5°	273.3	301.7	372.5	477.8	621.5	811.8	1115.5	1457.7	1571.1	1583.2
25°	238.9	259.1	303.7	402.9	560.8	791.6	1168.2	1593.3	1739.1	1739.1
27.5°	222.7	230.8	261.2	350.2	518.3	773.4	1220.8	1743.1	1878.8	1907.1
30°	218.7	238.9	255.1	311.8	471.7	722.8	1269.4	1860.6	2000.3	2002.3
32.5°	214.6	210.6	222.7	271.3	415.0	670.1	1309.9	1980.0	2089.3	2095.4
35°	168.0	176.1	196.4	238.9	372.5	631.7	1330.1	2044.8	2202.7	2208.8
37.5°	157.9	168.0	184.2	220.7	344.2	599.3	1336.2	2170.3	2322.2	2334.3
40°	153.9	162.0	174.1	204.5	321.9	558.8	1348.4	2299.9	2498.3	2482.1
42.5°	145.8	155.9	168.0	196.4	303.7	528.4	1350.4	2370.8	2591.4	2591.4
45°	143.7	149.8	164.0	196.4	283.4	502.1	1318.0	2441.6	2698.7	2666.3
47.5°	135.6	147.8	159.9	190.3	259.1	475.8	1279.5	2478.1	2712.9	2702.8
50°	133.6	145.8	166.0	180.2	245.0	463.6	1271.4	2569.2	2741.3	2739.2
52.5°	129.6	141.7	172.1	172.1	226.8	447.4	1309.9	2609.7	2747.3	2763.5
55°	123.5	141.7	159.9	157.9	210.6	427.2	1352.4	2714.9	2854.6	2850.6
57.5°	119.4	137.7	151.8	143.7	192.3	413.0	1415.2	2816.2	2984.2	2955.9
60°	113.4	137.7	135.6	133.6	178.2	400.9	1467.8	2836.4	3012.5	3030.8
62.5°	109.3	143.7	119.4	123.5	166.0	394.8	1445.5	2684.6	2974.1	2990.3
65°	105.3	123.5	109.3	113.4	162.0	382.6	1358.5	2502.4	2808.1	2878.9
67.5°	97.2	101.2	101.2	105.3	157.9	354.3	1180.3	2174.4	2555.0	2593.5
70°	89.1	91.1	91.1	97.2	153.9	321.9	973.8	1880.8	2216.9	2289.8
72.5°	81.0	81.0	81.0	89.1	141.7	295.6	801.7	1445.5	1842.4	1893.0
75°	70.9	70.9	70.9	79.0	127.5	269.3	631.7	1075.0	1356.5	1429.3
77.5°	62.8	62.8	60.7	70.9	111.4	218.7	455.5	759.2	955.6	1016.3
80°	52.6	50.6	50.6	56.7	87.1	157.9	293.6	536.5	666.1	692.4
82.5°	42.5	40.5	38.5	42.5	62.8	99.2	182.2	374.5	427.2	411.0
85°	40.5	42.5	34.4	32.4	44.5	64.8	115.4	230.8	192.3	192.3
87.5°	16.2	14.2	14.2	12.1	22.3	24.3	50.6	42.5	32.4	32.4
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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