

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: P401294

Luminaire Tested: **ENV-SA1C-735-U-SLL**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401294
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1C-735-U-SLL
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3747 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G1

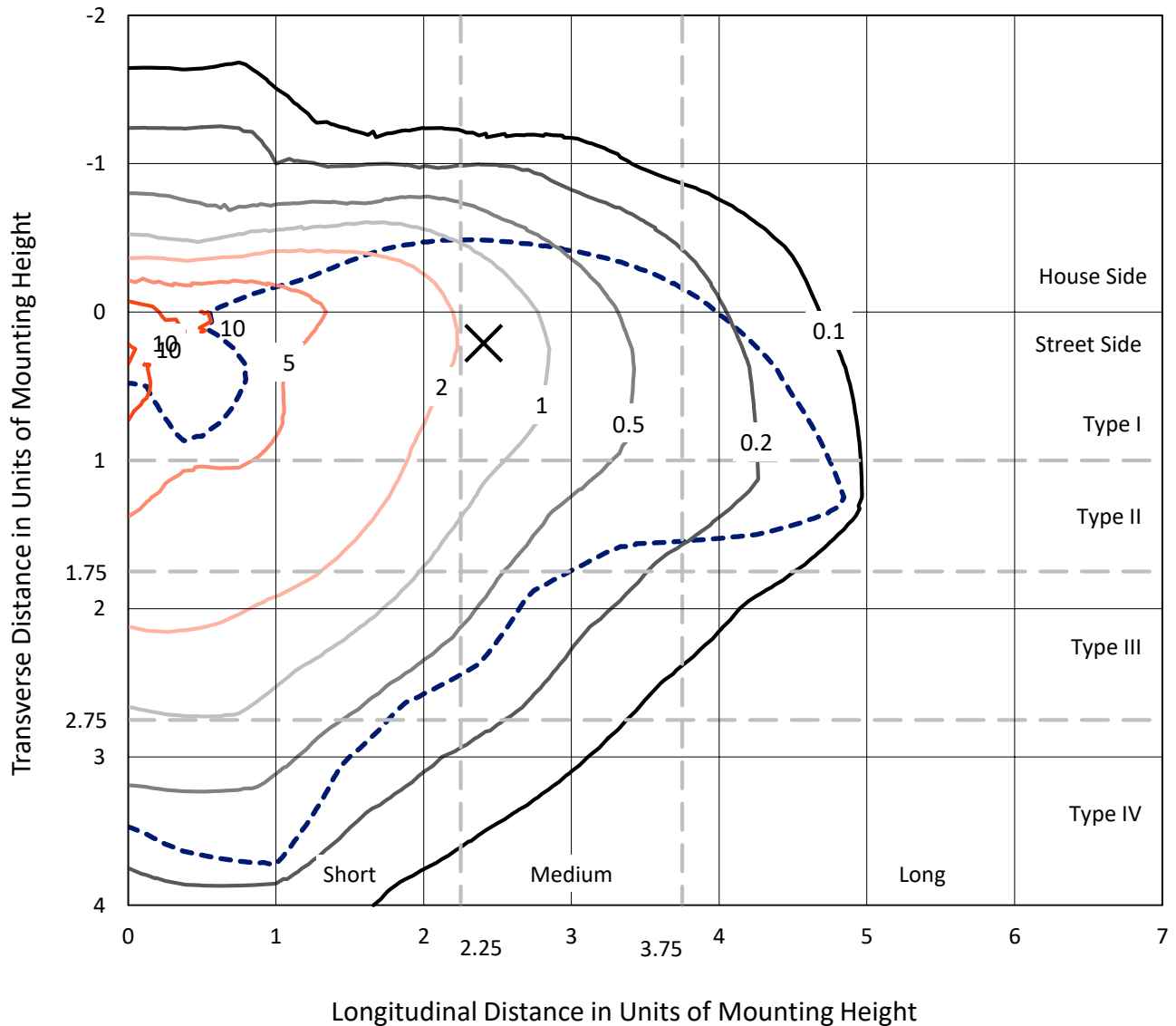
Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

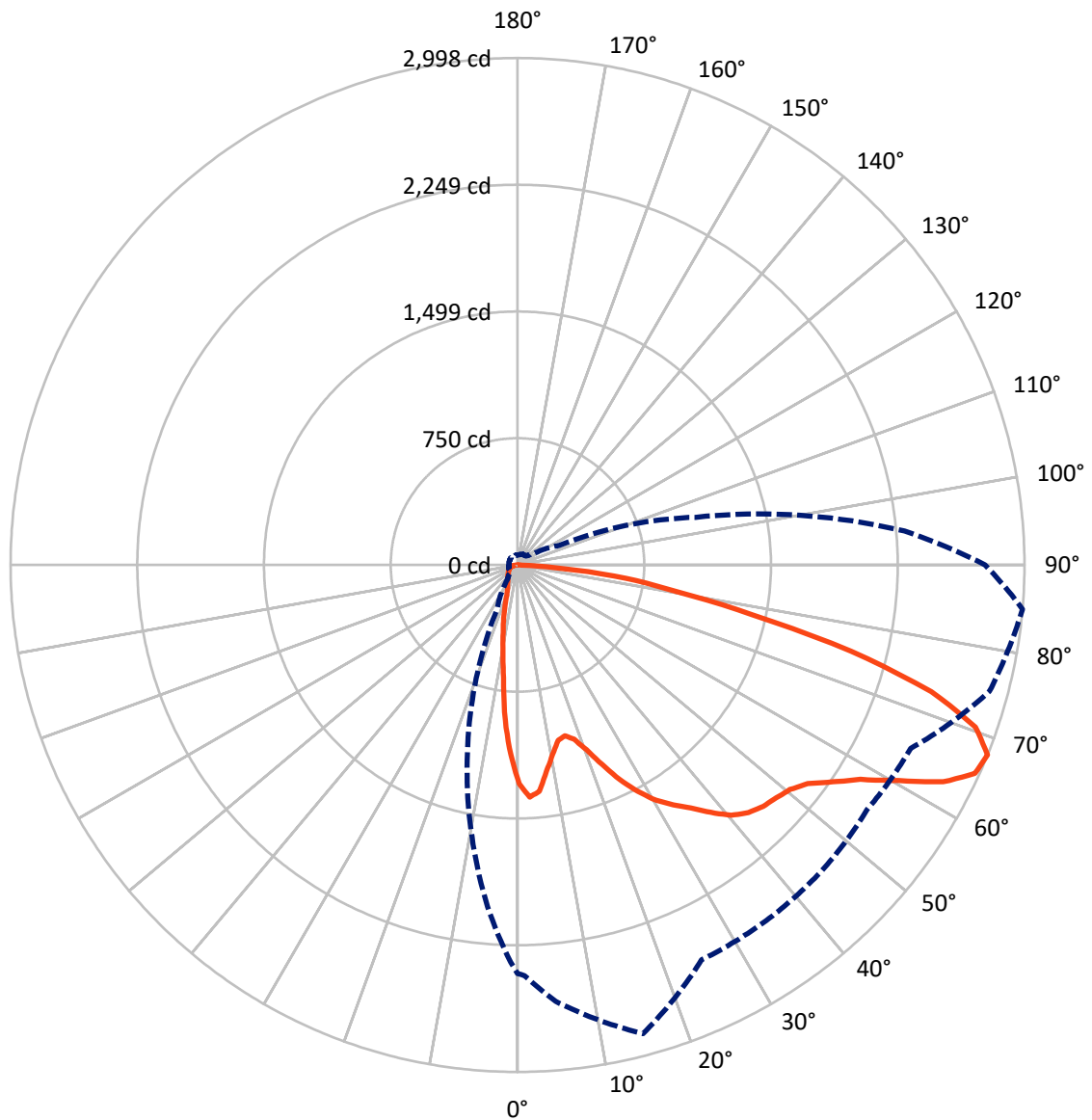


Based on 10 foot mounting height. Maximum calculated value = 13.8 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	755.0	0.0	755.0
	% Fixture	20.1	0.0	20.1
Street Side	Lumens	2992.0	0.0	2992.0
	% Fixture	79.9	0.0	79.9
Total	Lumens	3747.0	0.0	3747.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.4	2.6
10°-20°	194.1	5.2
20°-30°	271.2	7.2
30°-40°	382.3	10.2
40°-50°	529.8	14.1
50°-60°	744.4	19.9
60°-70°	910.0	24.3
70°-80°	534.8	14.3
80°-90°	81.9	2.2
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°	3747.0	100.0
0°-180°	3747.0	100.0



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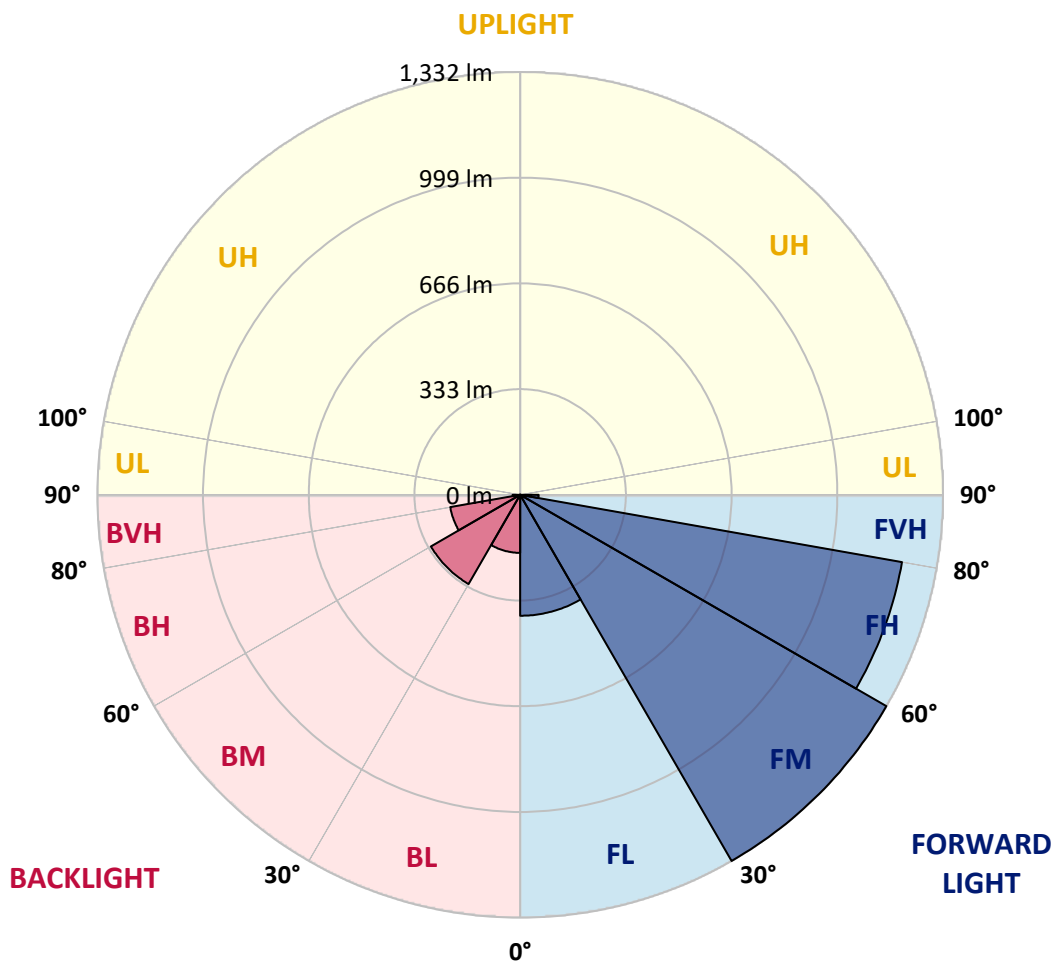
CATALOG NUMBER: ENV-SA1C-735-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	380.9	10.2			
FM	(30°-60°)	1331.9	35.5			
FH	(60°-80°)	1221.3	32.6			G1/1800
FVH	(80°-90°)	58.0	1.5			G1/100
BL	(0°-30°)	182.8	4.9	B1/500		
BM	(30°-60°)	324.6	8.7	B1/1000		
BH	(60°-80°)	223.6	6.0	B1/500		G1/500
BVH	(80°-90°)	23.9	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-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1294.5	1294.5	1294.5	1294.5	1294.5	1294.5	1294.5	1294.5	1294.5	1294.5	1294.5
2.5°	1330.1	1324.0	1344.5	1374.6	1395.1	1409.6	1414.4	1413.8	1409.6	1398.1	1374.0
5°	1271.0	1265.6	1307.2	1374.0	1432.5	1474.6	1486.7	1469.8	1448.7	1404.2	1345.1
7.5°	1159.0	1167.4	1220.4	1314.4	1408.4	1475.2	1491.5	1465.0	1421.6	1330.7	1231.3
10°	1074.0	1078.3	1137.9	1251.1	1351.1	1419.8	1448.1	1424.6	1368.0	1253.0	1137.9
12.5°	1021.6	1025.9	1083.7	1188.5	1295.1	1348.7	1357.2	1356.6	1309.6	1198.1	1065.0
15°	1028.9	1034.3	1092.1	1178.9	1239.1	1262.6	1263.2	1269.8	1256.0	1171.0	1047.5
17.5°	1098.7	1098.7	1154.2	1206.6	1192.7	1175.8	1188.5	1200.5	1224.6	1187.3	1083.1
20°	1209.0	1213.8	1265.0	1256.0	1171.6	1129.5	1114.4	1135.5	1210.2	1236.1	1166.8
22.5°	1328.3	1340.9	1394.5	1328.3	1168.0	1086.1	1069.2	1092.1	1212.0	1313.2	1281.9
25°	1460.2	1475.8	1512.0	1412.6	1178.9	1062.0	1050.6	1072.2	1216.8	1384.3	1406.0
27.5°	1580.6	1581.9	1617.4	1483.7	1207.2	1064.4	1045.1	1073.4	1230.1	1440.3	1515.6
30°	1666.2	1666.2	1681.8	1519.8	1242.1	1079.5	1050.0	1091.5	1248.7	1471.0	1615.0
32.5°	1744.5	1748.7	1740.9	1557.8	1275.2	1101.2	1061.4	1127.7	1278.3	1496.3	1691.5
35°	1843.9	1843.3	1808.3	1587.9	1306.0	1124.6	1089.7	1173.4	1321.0	1533.7	1764.4
37.5°	1966.8	1960.8	1886.7	1615.0	1343.3	1165.0	1143.3	1236.1	1378.2	1577.6	1856.5
40°	2078.2	2068.6	1958.3	1640.3	1372.8	1243.3	1230.7	1313.8	1450.5	1632.5	1946.3
42.5°	2165.0	2150.5	2019.2	1658.4	1417.4	1366.2	1377.0	1453.5	1523.4	1681.2	2002.3
45°	2237.8	2222.8	2065.0	1667.4	1525.2	1541.5	1562.6	1626.4	1601.1	1694.5	2036.7
47.5°	2290.3	2265.6	2084.8	1693.9	1671.0	1746.3	1811.4	1815.6	1710.8	1693.9	2057.7
50°	2321.0	2293.9	2103.5	1759.6	1840.3	1978.8	2048.1	2015.6	1824.6	1704.7	2087.9
52.5°	2383.0	2354.7	2181.2	1866.2	2013.8	2214.4	2251.7	2199.3	1942.7	1760.8	2148.1
55°	2539.0	2526.4	2331.8	2009.5	2184.2	2404.7	2421.6	2369.2	2066.2	1857.7	2263.1
57.5°	2715.5	2687.8	2535.4	2189.7	2347.5	2553.5	2580.6	2508.3	2195.7	1993.9	2391.5
60°	2764.9	2759.5	2707.7	2399.9	2516.1	2712.5	2714.3	2622.2	2346.9	2155.9	2587.2
62.5°	2692.6	2710.1	2779.4	2594.5	2657.7	2819.1	2804.1	2708.3	2505.3	2413.7	2825.2
65°	2566.7	2591.4	2730.6	2778.2	2690.2	2798.1	2766.1	2705.3	2605.3	2691.4	2972.8
67.5°	2415.5	2428.8	2590.8	2869.7	2576.4	2566.1	2551.1	2523.4	2565.5	2889.0	2998.1
70°	2258.3	2269.8	2419.2	2743.8	2234.8	2117.4	2104.7	2080.6	2245.1	2886.6	2874.0
72.5°	1903.5	1896.3	2034.2	2290.3	1706.5	1546.9	1654.1	1601.7	1816.2	2593.3	2560.1
75°	1182.5	1222.2	1395.1	1605.9	1169.2	1059.6	1207.8	1194.5	1474.6	2233.0	2038.5
77.5°	720.4	728.3	825.9	1001.2	704.2	734.3	776.5	858.4	1093.3	1810.2	1421.0
80°	377.1	350.6	422.3	549.4	418.1	492.7	569.3	659.6	693.9	1180.1	950.0
82.5°	109.0	108.4	142.8	230.1	198.2	242.2	287.3	414.4	454.8	701.8	650.6
85°	0.6	0.6	0.6	1.2	1.8	3.0	12.7	106.6	141.0	325.3	267.5
87.5°	0.0	0.0	0.6	1.2	1.2	2.4	3.6	4.8	6.0	7.2	26.5
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°	1294.5	1294.5	1294.5	1294.5	1294.5	1294.5	1294.5	1294.5	1294.5	1294.5	1294.5
2.5°	1366.2	1357.2	1337.9	1312.0	1293.9	1262.6	1256.0	1236.1	1216.2	1199.9	1200.5
5°	1316.8	1286.1	1239.1	1184.9	1133.1	1086.7	1077.7	1050.6	1042.7	1034.9	1013.2
7.5°	1187.3	1151.2	1085.5	1005.4	940.3	896.3	849.4	821.0	795.7	766.8	774.1
10°	1087.9	1036.1	945.7	851.8	770.4	711.4	659.6	633.1	596.4	569.9	566.2
12.5°	1011.4	955.4	846.9	736.7	660.2	625.9	592.7	551.2	510.2	475.3	457.2
15°	986.1	922.8	797.0	687.3	627.1	585.5	539.1	491.5	441.5	404.2	389.7
17.5°	1015.6	940.9	796.3	666.2	590.9	530.1	472.3	418.7	359.6	322.3	310.8
20°	1096.9	1003.6	813.2	646.4	547.0	464.4	383.1	325.3	265.0	238.5	226.5
22.5°	1210.2	1088.5	839.1	622.3	498.2	384.3	292.8	219.9	190.4	177.1	174.1
25°	1326.4	1196.3	875.9	601.8	444.6	306.0	210.2	175.9	162.0	156.0	156.0
27.5°	1454.1	1304.2	915.6	577.1	389.1	227.7	171.1	154.8	147.6	144.0	143.4
30°	1557.8	1392.1	960.8	548.2	339.1	186.7	151.8	141.0	134.3	132.5	132.5
32.5°	1632.5	1457.8	1008.4	519.3	293.4	168.7	141.0	131.3	124.1	122.9	122.9
35°	1719.8	1520.4	1030.1	503.0	265.7	157.2	133.1	123.5	116.9	113.9	113.9
37.5°	1824.6	1595.1	1042.1	487.3	253.6	146.4	127.7	116.9	110.2	106.6	106.6
40°	1957.7	1680.0	1054.8	471.7	246.4	137.3	121.7	110.8	105.4	101.2	101.2
42.5°	2052.9	1758.4	1064.4	458.4	233.7	133.1	116.9	106.6	100.0	96.4	95.8
45°	2102.9	1831.2	1068.6	450.6	219.3	136.7	113.2	103.0	95.2	91.6	91.0
47.5°	2136.6	1891.5	1074.0	444.6	207.8	130.1	112.6	99.4	91.6	86.7	86.7
50°	2190.3	1971.0	1087.9	433.1	201.2	121.7	121.7	97.6	87.3	83.1	82.5
52.5°	2286.0	2084.8	1125.2	420.5	194.0	113.2	125.3	98.2	84.3	79.5	78.3
55°	2430.6	2266.2	1187.3	402.4	183.7	103.0	116.9	98.8	81.3	77.1	75.3
57.5°	2618.6	2485.4	1259.6	387.9	166.3	94.6	106.6	95.8	77.7	74.1	72.9
60°	2745.1	2631.8	1305.4	369.3	141.6	89.2	91.6	92.8	74.1	69.9	69.3
62.5°	2813.1	2634.2	1306.0	343.4	118.7	84.3	81.9	94.6	71.1	65.7	65.1
65°	2817.9	2505.9	1240.3	310.2	110.8	78.9	75.3	83.7	68.1	62.6	62.0
67.5°	2765.5	2296.9	1090.3	272.3	113.9	74.7	69.9	70.5	64.5	59.6	59.0
70°	2577.6	2026.4	874.7	242.2	114.5	69.3	65.7	63.9	60.8	56.6	55.4
72.5°	2224.0	1693.3	662.6	232.5	116.3	65.1	60.8	59.0	56.6	53.0	51.8
75°	1678.2	1321.0	497.6	216.9	117.5	60.2	55.4	54.2	51.8	48.2	47.6
77.5°	1159.6	979.5	345.8	183.1	104.8	54.8	50.0	48.8	47.0	43.4	42.8
80°	783.1	671.7	212.0	137.3	79.5	48.2	43.4	43.4	41.6	38.0	38.0
82.5°	545.2	501.8	122.3	89.8	57.8	39.8	38.0	38.0	36.1	32.5	31.9
85°	227.7	303.6	54.8	48.8	40.4	31.3	31.3	31.9	30.1	27.1	26.5
87.5°	7.8	32.5	21.7	22.9	24.1	21.7	24.1	24.1	23.5	21.1	20.5
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1294.5	1294.5	1294.5	1294.5	1294.5	1294.5	1294.5	1294.5	1294.5	1294.5	1294.5
2.5°	1183.1	1175.2	1151.2	1148.1	1130.1	1128.9	1136.7	1123.4	1124.6	1140.9	1138.5
5°	1018.0	1000.0	999.4	979.5	957.2	951.8	932.5	925.3	922.2	915.6	939.7
7.5°	796.3	787.9	795.1	792.7	772.3	760.8	719.8	688.5	672.9	679.5	681.3
10°	566.2	578.9	598.2	616.8	602.4	564.4	547.0	521.7	518.7	516.8	528.9
12.5°	448.8	434.3	443.4	450.0	436.1	419.9	412.6	401.8	407.8	421.7	429.5
15°	372.9	347.6	336.1	328.3	331.9	322.3	325.9	322.3	326.5	330.7	345.2
17.5°	294.6	285.5	263.8	253.6	254.2	250.0	251.2	250.6	248.2	257.8	269.3
20°	221.7	219.3	214.4	207.2	208.4	205.4	203.6	193.4	189.1	192.2	201.8
22.5°	172.9	175.9	178.9	178.3	181.3	173.5	166.3	157.2	156.0	156.6	159.0
25°	154.8	156.0	158.4	161.4	163.2	156.0	145.8	140.4	139.8	141.0	141.0
27.5°	144.0	142.8	145.8	149.4	151.8	142.8	134.3	129.5	128.3	127.1	126.5
30°	132.5	132.5	134.9	138.5	140.4	132.5	125.3	120.5	117.5	115.7	115.1
32.5°	124.1	124.7	125.9	128.3	131.3	123.5	117.5	113.2	107.8	106.0	104.8
35°	114.5	116.9	118.7	119.3	121.7	116.3	110.2	103.6	98.8	97.0	97.0
37.5°	106.6	108.4	111.4	110.8	112.6	109.0	102.4	95.2	92.8	92.2	91.6
40°	100.6	100.6	103.0	105.4	107.8	101.2	93.4	89.8	87.9	86.7	87.3
42.5°	95.2	94.6	94.6	98.8	103.0	93.4	86.7	84.3	83.7	82.5	83.1
45°	90.4	89.8	87.9	89.8	95.8	85.5	81.3	79.5	78.9	78.9	78.9
47.5°	86.1	84.9	82.5	83.1	87.3	79.5	75.9	75.3	74.7	74.7	75.3
50°	81.3	80.1	78.3	77.7	78.9	75.3	72.3	71.1	71.1	71.1	72.3
52.5°	77.1	76.5	74.1	73.5	74.1	71.7	68.7	68.1	68.1	68.1	69.9
55°	74.1	72.9	71.7	70.5	71.7	68.7	66.3	65.1	65.1	66.3	67.5
57.5°	71.1	69.9	69.3	68.1	69.3	66.3	63.9	62.6	63.3	63.9	63.9
60°	68.1	66.9	66.3	65.1	66.9	63.9	61.4	60.8	60.8	60.2	60.2
62.5°	65.1	64.5	63.3	62.0	64.5	60.8	59.0	57.8	57.2	57.2	57.2
65°	61.4	60.8	60.2	59.6	60.8	57.8	56.0	55.4	54.2	53.6	54.2
67.5°	58.4	58.4	57.2	56.0	57.8	54.2	53.0	52.4	50.6	50.0	50.6
70°	54.8	54.8	53.6	53.0	55.4	50.6	49.4	48.8	47.6	47.0	47.0
72.5°	51.2	51.2	50.0	49.4	52.4	47.0	45.8	45.2	43.4	42.8	42.8
75°	47.6	47.0	46.4	45.8	49.4	43.4	41.6	40.4	38.6	38.0	37.3
77.5°	43.4	42.8	41.6	42.2	44.6	38.6	36.1	35.5	33.7	33.1	32.5
80°	38.0	37.3	36.7	38.0	38.0	33.7	30.7	29.5	27.7	26.5	25.9
82.5°	32.5	31.9	31.9	33.1	31.3	29.5	25.9	23.5	20.5	18.7	18.1
85°	26.5	27.7	26.5	27.7	23.5	23.5	18.1	13.9	9.6	7.8	7.2
87.5°	20.5	21.1	20.5	21.1	16.3	15.7	8.4	4.8	0.6	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1294.5	1294.5	1294.5	1294.5	1294.5	1294.5	1294.5	1294.5	1294.5	1294.5
2.5°	1156.6	1157.8	1183.7	1209.6	1225.2	1264.4	1283.7	1305.4	1316.8	1330.1
5°	928.3	951.2	972.2	1024.0	1050.6	1112.6	1157.8	1230.1	1253.0	1271.0
7.5°	701.2	735.5	761.4	825.9	875.9	953.0	1031.9	1118.0	1142.7	1159.0
10°	557.2	588.5	637.3	687.9	743.9	837.3	922.8	1012.0	1055.4	1074.0
12.5°	468.1	518.0	575.3	622.3	666.8	735.5	843.9	956.6	1001.8	1021.6
15°	386.1	442.1	500.6	558.4	613.8	691.5	805.4	951.8	1009.0	1028.9
17.5°	306.6	352.4	411.4	481.3	562.0	660.8	812.6	1003.0	1072.8	1098.7
20°	218.1	262.6	322.9	409.0	504.8	628.9	829.5	1080.1	1179.5	1209.0
22.5°	164.5	189.1	244.6	329.5	453.6	603.6	856.0	1185.5	1301.7	1328.3
25°	144.6	153.0	181.3	263.2	402.4	580.7	890.9	1290.3	1431.3	1460.2
27.5°	128.3	133.1	147.6	211.4	364.4	557.2	932.5	1403.5	1542.7	1580.6
30°	115.7	121.7	133.7	177.1	327.7	523.5	970.4	1505.4	1637.3	1666.2
32.5°	106.0	112.6	123.5	160.2	296.4	498.2	992.1	1581.3	1718.0	1744.5
35°	99.4	105.4	116.3	145.2	268.7	480.7	998.7	1656.5	1816.8	1843.9
37.5°	93.4	99.4	109.0	130.1	249.4	457.8	1009.0	1746.3	1931.2	1966.8
40°	89.2	94.0	103.0	119.9	222.9	433.1	1021.0	1851.1	2042.7	2078.2
42.5°	84.9	90.4	98.2	120.5	196.4	412.0	1028.9	1931.8	2131.2	2165.0
45°	81.3	87.3	96.4	118.1	176.5	392.8	1025.3	1999.3	2211.9	2237.8
47.5°	77.7	84.9	101.2	113.2	170.5	375.3	1028.3	2064.4	2269.8	2290.3
50°	75.3	84.3	108.4	106.0	171.7	367.5	1057.2	2142.1	2313.1	2321.0
52.5°	73.5	86.1	102.4	95.8	171.7	363.8	1112.6	2267.4	2388.4	2383.0
55°	70.5	85.5	95.8	86.7	164.5	365.6	1165.0	2433.0	2569.2	2539.0
57.5°	68.1	81.9	86.1	80.1	147.6	366.2	1242.7	2572.8	2711.3	2715.5
60°	65.1	87.9	74.7	74.7	126.5	363.2	1311.4	2570.4	2737.2	2764.9
62.5°	62.0	86.1	66.9	69.3	112.0	351.8	1352.9	2420.4	2641.4	2692.6
65°	58.4	68.1	61.4	64.5	106.0	323.5	1293.9	2234.2	2511.9	2566.7
67.5°	54.2	56.0	56.0	59.6	103.6	280.7	1145.1	2028.8	2349.3	2415.5
70°	49.4	50.0	51.2	56.6	96.4	241.6	932.5	1810.2	2174.6	2258.3
72.5°	44.6	45.2	45.2	51.2	90.4	208.4	660.2	1434.3	1815.6	1903.5
75°	39.2	39.8	39.2	44.6	78.9	156.0	392.2	907.2	1083.1	1182.5
77.5°	33.1	33.1	31.9	34.9	54.2	98.8	214.4	551.2	659.0	720.4
80°	27.1	24.7	20.5	21.1	29.5	56.6	95.8	316.3	361.4	377.1
82.5°	18.1	13.9	8.4	7.8	9.6	15.7	22.3	125.3	115.1	109.0
85°	3.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

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