

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: P401276

Luminaire Tested: **ENT-SA1C-730-U-SLL**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401276
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: ENT-SA1C-730-U-SLL
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3000K, 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: 3633 lumens
Efficiency: N/A
Efficacy: 109.1 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

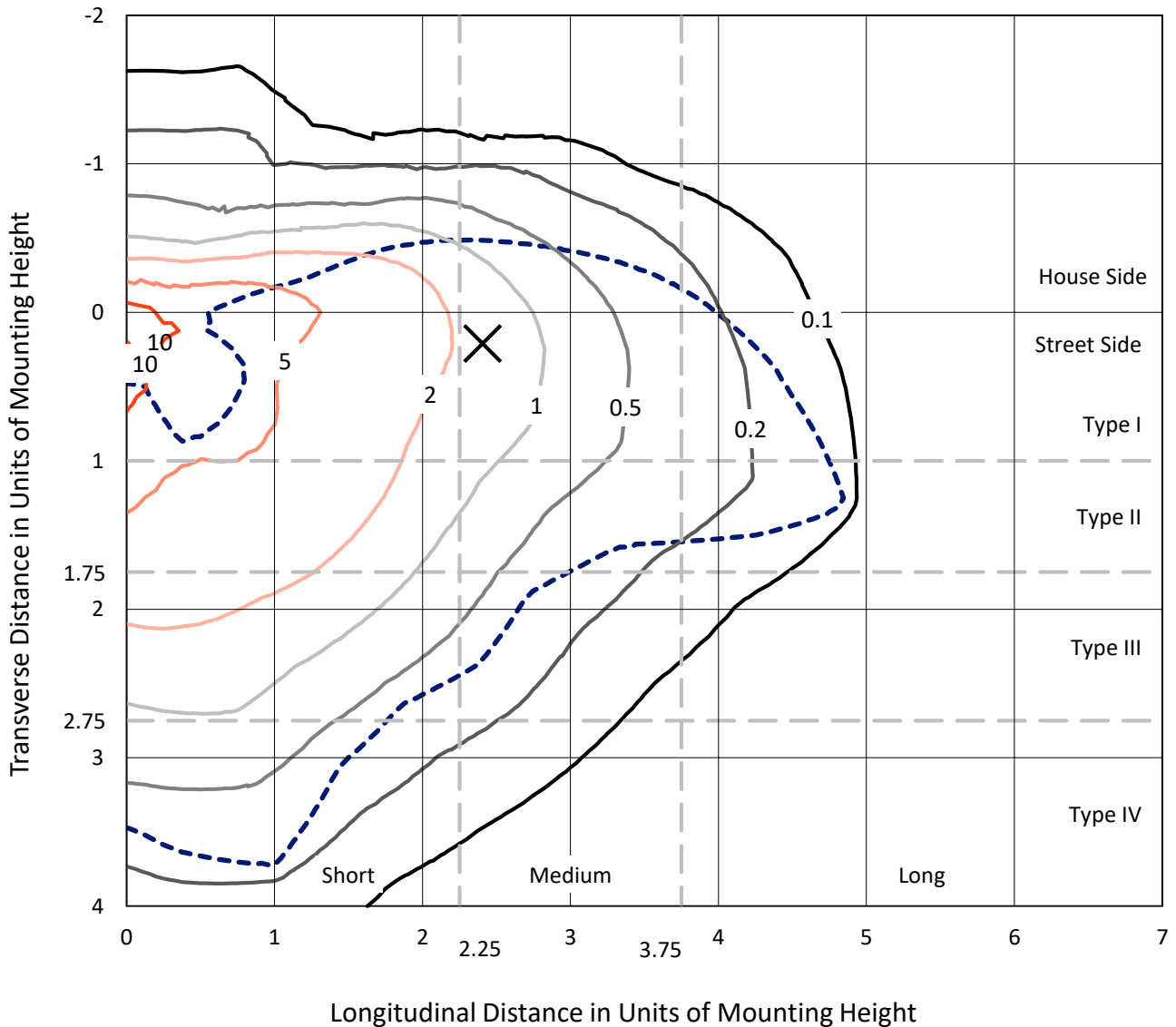
Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

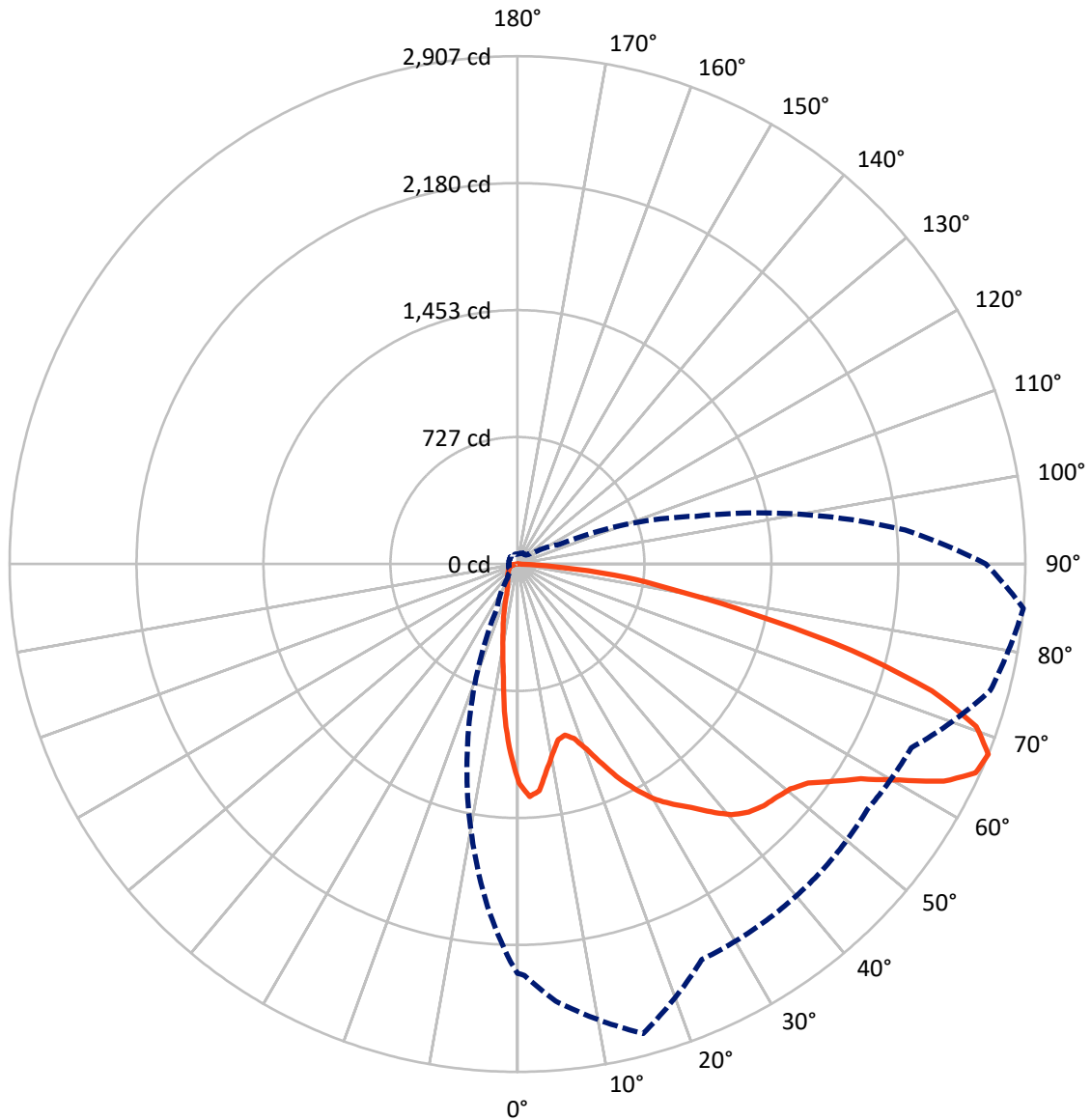
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.4 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	732.0	0.0	732.0
	% Fixture	20.1	0.0	20.1
Street Side	Lumens	2901.0	0.0	2901.0
	% Fixture	79.9	0.0	79.9
Total	Lumens	3633.0	0.0	3633.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	2.6
10°-20°	188.2	5.2
20°-30°	262.9	7.2
30°-40°	370.7	10.2
40°-50°	513.6	14.1
50°-60°	721.8	19.9
60°-70°	882.4	24.3
70°-80°	518.6	14.3
80°-90°	79.4	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°	3633.0	100.0
0°-180°	3633.0	100.0



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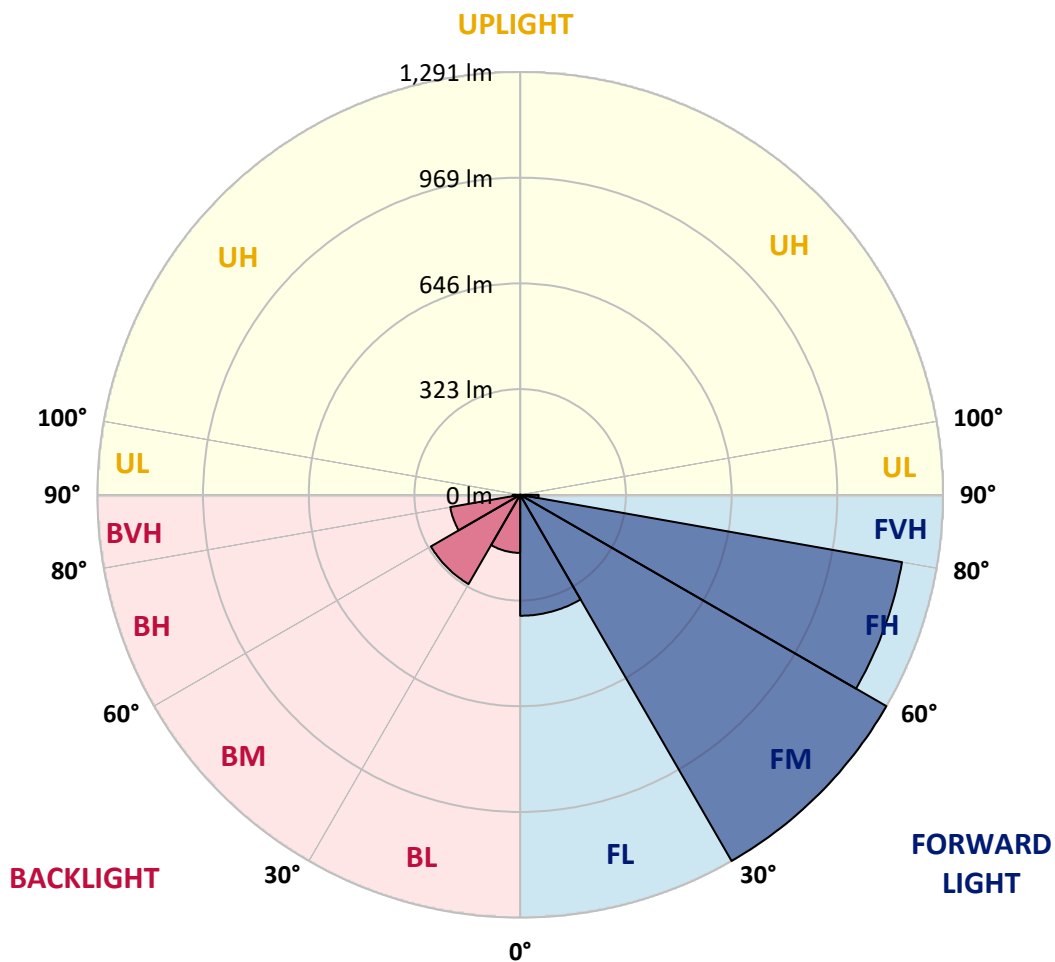
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	369.3	10.2			
FM	(30°-60°)	1291.4	35.5			
FH	(60°-80°)	1184.1	32.6			G1/1800
FVH	(80°-90°)	56.2	1.5			G1/100
BL	(0°-30°)	177.3	4.9	B1/500		
BM	(30°-60°)	314.7	8.7	B1/1000		
BH	(60°-80°)	216.8	6.0	B1/500		G1/500
BVH	(80°-90°)	23.2	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°	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1
2.5°	1289.6	1283.8	1303.6	1332.8	1352.7	1366.7	1371.4	1370.8	1366.7	1355.6	1332.2
5°	1232.4	1227.1	1267.4	1332.2	1388.9	1429.8	1441.4	1425.1	1404.7	1361.4	1304.2
7.5°	1123.7	1131.9	1183.3	1274.4	1365.5	1430.3	1446.1	1420.4	1378.4	1290.2	1193.8
10°	1041.4	1045.5	1103.3	1213.1	1310.0	1376.6	1404.1	1381.3	1326.4	1214.8	1103.3
12.5°	990.6	994.6	1050.7	1152.3	1255.7	1307.7	1315.9	1315.3	1269.7	1161.7	1032.6
15°	997.6	1002.8	1058.9	1143.0	1201.4	1224.2	1224.8	1231.2	1217.8	1135.4	1015.7
17.5°	1065.3	1065.3	1119.0	1169.9	1156.4	1140.1	1152.3	1164.0	1187.4	1151.2	1050.1
20°	1172.2	1176.9	1226.5	1217.8	1136.0	1095.1	1080.5	1100.9	1173.4	1198.5	1131.3
22.5°	1287.8	1300.1	1352.1	1287.8	1132.5	1053.1	1036.7	1058.9	1175.1	1273.2	1242.9
25°	1415.7	1430.9	1466.0	1369.6	1143.0	1029.7	1018.6	1039.6	1179.8	1342.2	1363.2
27.5°	1532.6	1533.7	1568.2	1438.5	1170.4	1032.0	1013.3	1040.8	1192.6	1396.5	1469.5
30°	1615.5	1615.5	1630.7	1473.6	1204.3	1046.6	1018.0	1058.3	1210.7	1426.3	1565.9
32.5°	1691.4	1695.5	1687.9	1510.4	1236.4	1067.7	1029.1	1093.3	1239.4	1450.8	1640.0
35°	1787.8	1787.2	1753.3	1539.6	1266.2	1090.4	1056.6	1137.7	1280.8	1487.0	1710.7
37.5°	1906.9	1901.1	1829.3	1565.9	1302.4	1129.6	1108.5	1198.5	1336.3	1529.6	1800.1
40°	2015.0	2005.6	1898.8	1590.4	1331.1	1205.5	1193.2	1273.8	1406.4	1582.8	1887.1
42.5°	2099.1	2085.1	1957.8	1607.9	1374.3	1324.6	1335.1	1409.3	1477.1	1630.1	1941.4
45°	2169.8	2155.2	2002.1	1616.7	1478.8	1494.6	1515.0	1576.9	1552.4	1642.9	1974.7
47.5°	2220.6	2196.6	2021.4	1642.4	1620.2	1693.2	1756.3	1760.3	1658.7	1642.4	1995.1
50°	2250.4	2224.1	2039.5	1706.0	1784.3	1918.6	1985.8	1954.2	1769.1	1652.9	2024.3
52.5°	2310.5	2283.1	2114.9	1809.4	1952.5	2147.0	2183.2	2132.4	1883.6	1707.2	2082.7
55°	2461.8	2449.5	2260.9	1948.4	2117.8	2331.5	2347.9	2297.1	2003.3	1801.2	2194.3
57.5°	2632.9	2606.1	2458.3	2123.0	2276.1	2475.8	2502.1	2432.0	2128.9	1933.2	2318.7
60°	2680.8	2675.6	2625.3	2326.9	2439.6	2630.0	2631.7	2542.4	2275.5	2090.3	2508.5
62.5°	2610.7	2627.7	2694.8	2515.5	2576.8	2733.4	2718.8	2625.9	2429.1	2340.3	2739.2
65°	2488.7	2512.6	2647.5	2693.7	2608.4	2712.9	2682.0	2623.0	2526.0	2609.6	2882.3
67.5°	2342.1	2354.9	2512.0	2782.4	2498.0	2488.1	2473.5	2446.6	2487.5	2801.1	2906.8
70°	2189.6	2200.7	2345.6	2660.4	2166.8	2053.0	2040.7	2017.3	2176.8	2798.8	2786.5
72.5°	1845.6	1838.6	1972.4	2220.6	1654.6	1499.9	1603.8	1553.0	1760.9	2514.4	2482.2
75°	1146.5	1185.0	1352.7	1557.1	1133.6	1027.4	1171.0	1158.2	1429.8	2165.1	1976.4
77.5°	698.5	706.1	800.7	970.7	682.8	712.0	752.8	832.3	1060.1	1755.1	1377.8
80°	365.6	339.9	409.4	532.7	405.3	477.8	551.9	639.5	672.8	1144.2	921.1
82.5°	105.7	105.1	138.4	223.1	192.2	234.8	278.6	401.8	441.0	680.4	630.8
85°	0.6	0.6	0.6	1.2	1.8	2.9	12.3	103.4	136.7	315.4	259.3
87.5°	0.0	0.0	0.6	1.2	1.2	2.3	3.5	4.7	5.8	7.0	25.7
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°	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1
2.5°	1324.6	1315.9	1297.2	1272.1	1254.5	1224.2	1217.8	1198.5	1179.2	1163.4	1164.0
5°	1276.7	1247.0	1201.4	1148.8	1098.6	1053.6	1044.9	1018.6	1011.0	1003.4	982.4
7.5°	1151.2	1116.1	1052.5	974.8	911.7	869.1	823.5	796.1	771.5	743.5	750.5
10°	1054.8	1004.6	917.0	825.9	747.0	689.8	639.5	613.8	578.2	552.5	549.0
12.5°	980.6	926.3	821.2	714.3	640.1	606.8	574.7	534.4	494.7	460.8	443.3
15°	956.1	894.8	772.7	666.4	608.0	567.7	522.7	476.6	428.1	391.9	377.9
17.5°	984.7	912.3	772.1	646.0	573.0	514.0	457.9	405.9	348.7	312.5	301.4
20°	1063.6	973.0	788.5	626.7	530.3	450.3	371.5	315.4	257.0	231.3	219.6
22.5°	1173.4	1055.4	813.6	603.3	483.0	372.6	283.9	213.2	184.6	171.7	168.8
25°	1286.1	1159.9	849.2	583.5	431.0	296.7	203.8	170.5	157.1	151.3	151.3
27.5°	1409.9	1264.5	887.8	559.5	377.3	220.8	165.9	150.1	143.1	139.6	139.0
30°	1510.4	1349.7	931.6	531.5	328.8	181.1	147.2	136.7	130.2	128.5	128.5
32.5°	1582.8	1413.4	977.7	503.5	284.4	163.5	136.7	127.3	120.3	119.1	119.1
35°	1667.5	1474.2	998.7	487.7	257.6	152.4	129.1	119.7	113.3	110.4	110.4
37.5°	1769.1	1546.6	1010.4	472.5	245.9	141.9	123.8	113.3	106.9	103.4	103.4
40°	1898.2	1628.9	1022.7	457.3	238.9	133.2	118.0	107.5	102.2	98.1	98.1
42.5°	1990.5	1704.9	1032.0	444.5	226.6	129.1	113.3	103.4	97.0	93.4	92.9
45°	2038.9	1775.5	1036.1	436.9	212.6	132.6	109.8	99.9	92.3	88.8	88.2
47.5°	2071.6	1833.9	1041.4	431.0	201.5	126.2	109.2	96.4	88.8	84.1	84.1
50°	2123.6	1911.0	1054.8	419.9	195.1	118.0	118.0	94.6	84.7	80.6	80.0
52.5°	2216.5	2021.4	1091.0	407.7	188.1	109.8	121.5	95.2	81.8	77.1	75.9
55°	2356.7	2197.2	1151.2	390.1	178.1	99.9	113.3	95.8	78.8	74.8	73.0
57.5°	2538.9	2409.8	1221.3	376.1	161.2	91.7	103.4	92.9	75.3	71.8	70.7
60°	2661.5	2551.7	1265.6	358.0	137.3	86.4	88.8	89.9	71.8	67.8	67.2
62.5°	2727.5	2554.1	1266.2	332.9	115.1	81.8	79.4	91.7	68.9	63.7	63.1
65°	2732.2	2429.7	1202.6	300.8	107.5	76.5	73.0	81.2	66.0	60.7	60.2
67.5°	2681.4	2227.0	1057.1	264.0	110.4	72.4	67.8	68.3	62.5	57.8	57.2
70°	2499.2	1964.8	848.0	234.8	111.0	67.2	63.7	61.9	59.0	54.9	53.7
72.5°	2156.3	1641.8	642.5	225.4	112.7	63.1	59.0	57.2	54.9	51.4	50.2
75°	1627.2	1280.8	482.4	210.3	113.9	58.4	53.7	52.6	50.2	46.7	46.1
77.5°	1124.3	949.7	335.2	177.6	101.6	53.1	48.5	47.3	45.6	42.1	41.5
80°	759.3	651.2	205.6	133.2	77.1	46.7	42.1	42.1	40.3	36.8	36.8
82.5°	528.6	486.5	118.6	87.0	56.1	38.5	36.8	36.8	35.0	31.5	31.0
85°	220.8	294.4	53.1	47.3	39.1	30.4	30.4	31.0	29.2	26.3	25.7
87.5°	7.6	31.5	21.0	22.2	23.4	21.0	23.4	23.4	22.8	20.4	19.9
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°	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1
2.5°	1147.1	1139.5	1116.1	1113.2	1095.7	1094.5	1102.1	1089.3	1090.4	1106.2	1103.9
5°	987.1	969.5	968.9	949.7	928.1	922.8	904.1	897.1	894.2	887.8	911.1
7.5°	772.1	763.9	771.0	768.6	748.8	737.7	697.9	667.6	652.4	658.8	660.6
10°	549.0	561.3	580.0	598.1	584.1	547.3	530.3	505.8	502.9	501.1	512.8
12.5°	435.1	421.1	429.9	436.3	422.9	407.1	400.1	389.6	395.4	408.8	416.4
15°	361.5	337.0	325.9	318.3	321.8	312.5	316.0	312.5	316.6	320.6	334.7
17.5°	285.6	276.8	255.8	245.9	246.5	242.4	243.6	243.0	240.6	250.0	261.1
20°	214.9	212.6	207.9	200.9	202.1	199.2	197.4	187.5	183.4	186.3	195.7
22.5°	167.6	170.5	173.5	172.9	175.8	168.2	161.2	152.4	151.3	151.9	154.2
25°	150.1	151.3	153.6	156.5	158.3	151.3	141.3	136.1	135.5	136.7	136.7
27.5°	139.6	138.4	141.3	144.8	147.2	138.4	130.2	125.6	124.4	123.2	122.7
30°	128.5	128.5	130.8	134.3	136.1	128.5	121.5	116.8	113.9	112.1	111.6
32.5°	120.3	120.9	122.1	124.4	127.3	119.7	113.9	109.8	104.5	102.8	101.6
35°	111.0	113.3	115.1	115.6	118.0	112.7	106.9	100.5	95.8	94.0	94.0
37.5°	103.4	105.1	108.1	107.5	109.2	105.7	99.3	92.3	89.9	89.4	88.8
40°	97.5	97.5	99.9	102.2	104.5	98.1	90.5	87.0	85.3	84.1	84.7
42.5°	92.3	91.7	91.7	95.8	99.9	90.5	84.1	81.8	81.2	80.0	80.6
45°	87.6	87.0	85.3	87.0	92.9	82.9	78.8	77.1	76.5	76.5	76.5
47.5°	83.5	82.4	80.0	80.6	84.7	77.1	73.6	73.0	72.4	72.4	73.0
50°	78.8	77.7	75.9	75.3	76.5	73.0	70.1	68.9	68.9	68.9	70.1
52.5°	74.8	74.2	71.8	71.3	71.8	69.5	66.6	66.0	66.0	66.0	67.8
55°	71.8	70.7	69.5	68.3	69.5	66.6	64.2	63.1	63.1	64.2	65.4
57.5°	68.9	67.8	67.2	66.0	67.2	64.2	61.9	60.7	61.3	61.9	61.9
60°	66.0	64.8	64.2	63.1	64.8	61.9	59.6	59.0	59.0	58.4	58.4
62.5°	63.1	62.5	61.3	60.2	62.5	59.0	57.2	56.1	55.5	55.5	55.5
65°	59.6	59.0	58.4	57.8	59.0	56.1	54.3	53.7	52.6	52.0	52.6
67.5°	56.7	56.7	55.5	54.3	56.1	52.6	51.4	50.8	49.1	48.5	49.1
70°	53.1	53.1	52.0	51.4	53.7	49.1	47.9	47.3	46.1	45.6	45.6
72.5°	49.6	49.6	48.5	47.9	50.8	45.6	44.4	43.8	42.1	41.5	41.5
75°	46.1	45.6	45.0	44.4	47.9	42.1	40.3	39.1	37.4	36.8	36.2
77.5°	42.1	41.5	40.3	40.9	43.2	37.4	35.0	34.5	32.7	32.1	31.5
80°	36.8	36.2	35.6	36.8	36.8	32.7	29.8	28.6	26.9	25.7	25.1
82.5°	31.5	31.0	31.0	32.1	30.4	28.6	25.1	22.8	19.9	18.1	17.5
85°	25.7	26.9	25.7	26.9	22.8	22.8	17.5	13.4	9.3	7.6	7.0
87.5°	19.9	20.4	19.9	20.4	15.8	15.2	8.2	4.7	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°	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1
2.5°	1121.4	1122.6	1147.7	1172.8	1188.0	1225.9	1244.6	1265.6	1276.7	1289.6
5°	900.0	922.2	942.7	992.9	1018.6	1078.7	1122.6	1192.6	1214.8	1232.4
7.5°	679.8	713.1	738.2	800.7	849.2	924.0	1000.5	1084.0	1108.0	1123.7
10°	540.3	570.6	617.9	667.0	721.3	811.8	894.8	981.2	1023.3	1041.4
12.5°	453.8	502.3	557.8	603.3	646.5	713.1	818.3	927.5	971.3	990.6
15°	374.4	428.7	485.3	541.4	595.2	670.5	780.9	922.8	978.3	997.6
17.5°	297.3	341.7	398.9	466.7	544.9	640.7	787.9	972.5	1040.2	1065.3
20°	211.4	254.6	313.1	396.6	489.4	609.8	804.2	1047.2	1143.6	1172.2
22.5°	159.4	183.4	237.1	319.5	439.8	585.2	829.9	1149.4	1262.1	1287.8
25°	140.2	148.3	175.8	255.2	390.1	563.0	863.8	1251.0	1387.7	1415.7
27.5°	124.4	129.1	143.1	205.0	353.4	540.3	904.1	1360.8	1495.8	1532.6
30°	112.1	118.0	129.7	171.7	317.7	507.5	940.9	1459.6	1587.5	1615.5
32.5°	102.8	109.2	119.7	155.4	287.4	483.0	961.9	1533.1	1665.7	1691.4
35°	96.4	102.2	112.7	140.8	260.5	466.1	968.4	1606.1	1761.5	1787.8
37.5°	90.5	96.4	105.7	126.2	241.8	443.9	978.3	1693.2	1872.5	1906.9
40°	86.4	91.1	99.9	116.2	216.1	419.9	990.0	1794.8	1980.5	2015.0
42.5°	82.4	87.6	95.2	116.8	190.4	399.5	997.6	1873.1	2066.4	2099.1
45°	78.8	84.7	93.4	114.5	171.1	380.8	994.1	1938.5	2144.6	2169.8
47.5°	75.3	82.4	98.1	109.8	165.3	363.9	997.0	2001.6	2200.7	2220.6
50°	73.0	81.8	105.1	102.8	166.5	356.3	1025.0	2076.9	2242.8	2250.4
52.5°	71.3	83.5	99.3	92.9	166.5	352.8	1078.7	2198.4	2315.8	2310.5
55°	68.3	82.9	92.9	84.1	159.4	354.5	1129.6	2359.0	2491.0	2461.8
57.5°	66.0	79.4	83.5	77.7	143.1	355.1	1204.9	2494.5	2628.8	2632.9
60°	63.1	85.3	72.4	72.4	122.7	352.2	1271.5	2492.2	2653.9	2680.8
62.5°	60.2	83.5	64.8	67.2	108.6	341.1	1311.8	2346.7	2561.1	2610.7
65°	56.7	66.0	59.6	62.5	102.8	313.6	1254.5	2166.3	2435.5	2488.7
67.5°	52.6	54.3	54.3	57.8	100.5	272.2	1110.3	1967.1	2277.8	2342.1
70°	47.9	48.5	49.6	54.9	93.4	234.2	904.1	1755.1	2108.4	2189.6
72.5°	43.2	43.8	43.8	49.6	87.6	202.1	640.1	1390.6	1760.3	1845.6
75°	38.0	38.5	38.0	43.2	76.5	151.3	380.2	879.6	1050.1	1146.5
77.5°	32.1	32.1	31.0	33.9	52.6	95.8	207.9	534.4	639.0	698.5
80°	26.3	23.9	19.9	20.4	28.6	54.9	92.9	306.6	350.4	365.6
82.5°	17.5	13.4	8.2	7.6	9.3	15.2	21.6	121.5	111.6	105.7
85°	3.5	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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