

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: LUMARK

Report Number: P132883

Luminaire Tested: **XTOR3A-XTORFLD+VISOR+IMPACT SHIELD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P132883
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: XTOR3A-XTORFLD+VISOR+IMPACT SHIELD
Description: LUMARK CROSSTOUR LED BRONZE 30W XTORFLD WITH VISOR AND IMPACT SHIELD
Light Source: (1) 5000K LED
Ballast/Driver: (1) ELECTRONIC DRIVER

Summary

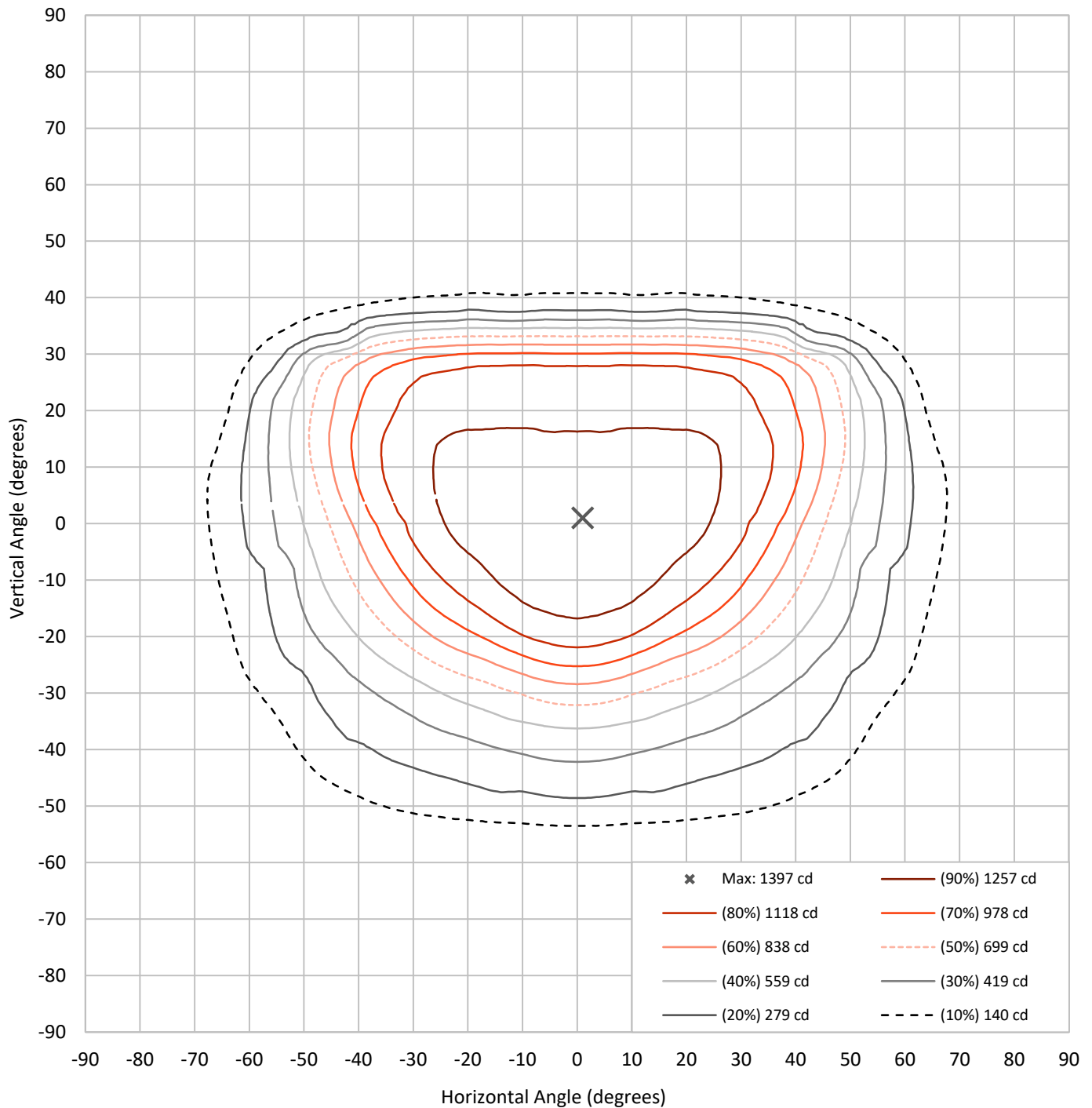
Lumens per Lamp:	N/A	NEMA Type:	7H x 5V
Luminaire Lumens:	2168.2 lumens	Max Intensity:	1397 candela
Efficiency:	N/A	Max Intensity Angle:	1°H x 1°V
Efficacy:	83.4 lumens/watt		
Luminous Opening:	(L: 0.5 ' x W: 0 ' x H: 0.17 ')		
Beam Angle (50%):	91.3°H x 65.2°V	Field Angle (10%):	135°H x 94.3°V
Beam Lumens:	1592.3 lumens	Field Lumens:	2095.9 lumens
Beam Efficiency:	73.4%	Field Efficiency:	96.7%
Input Watts (W):	26		
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-Candela Plot

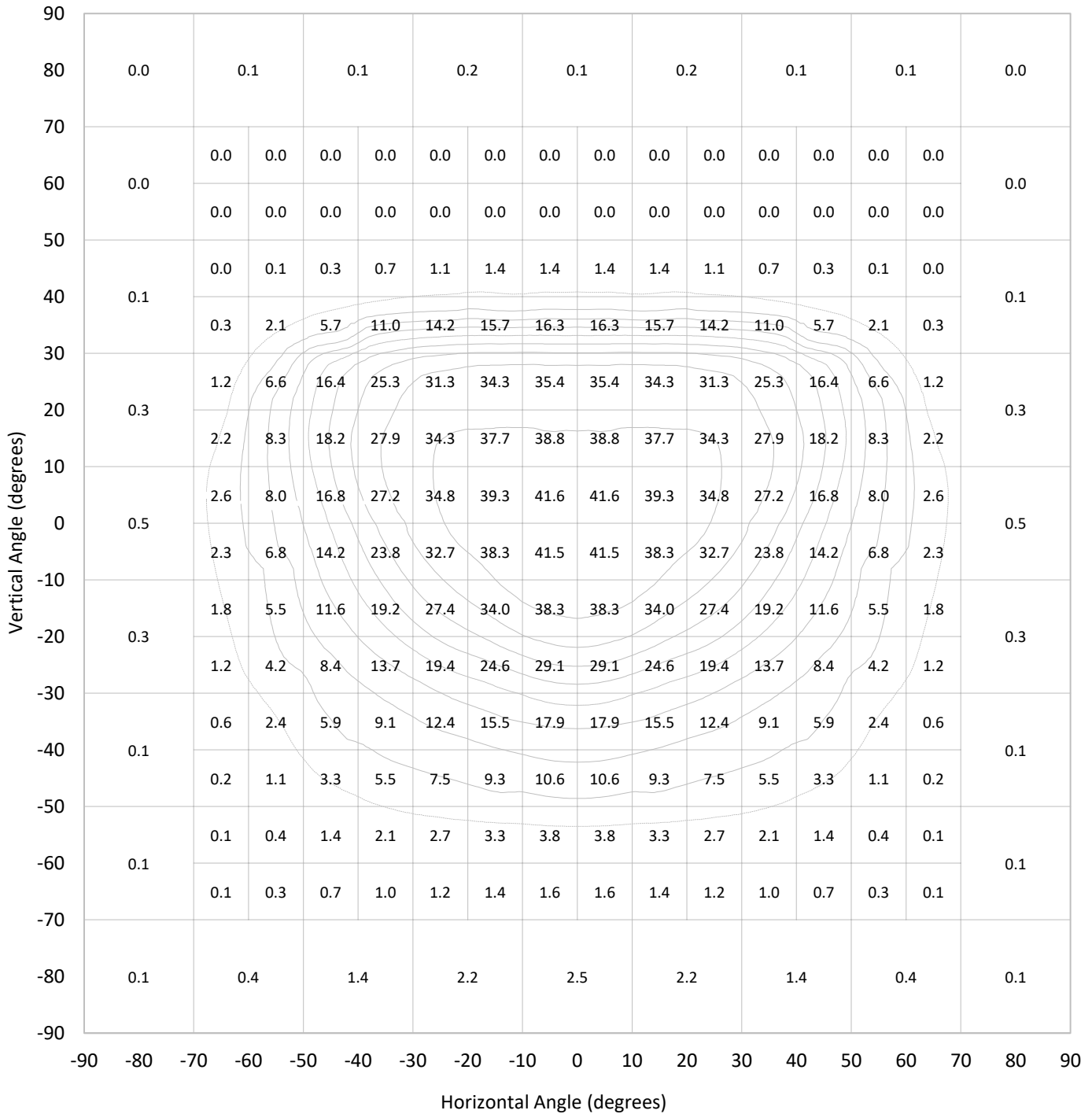




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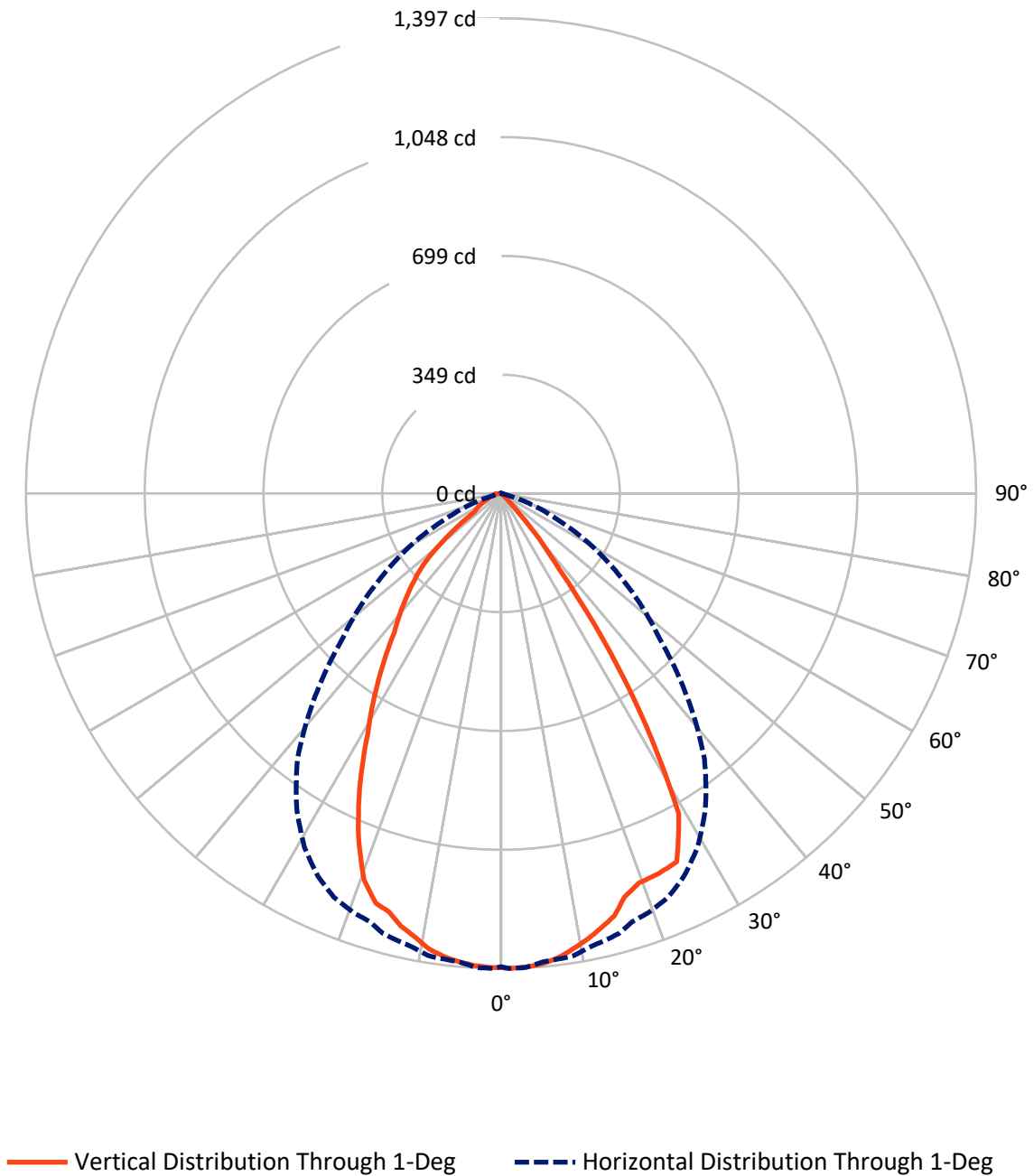
Lumen Table



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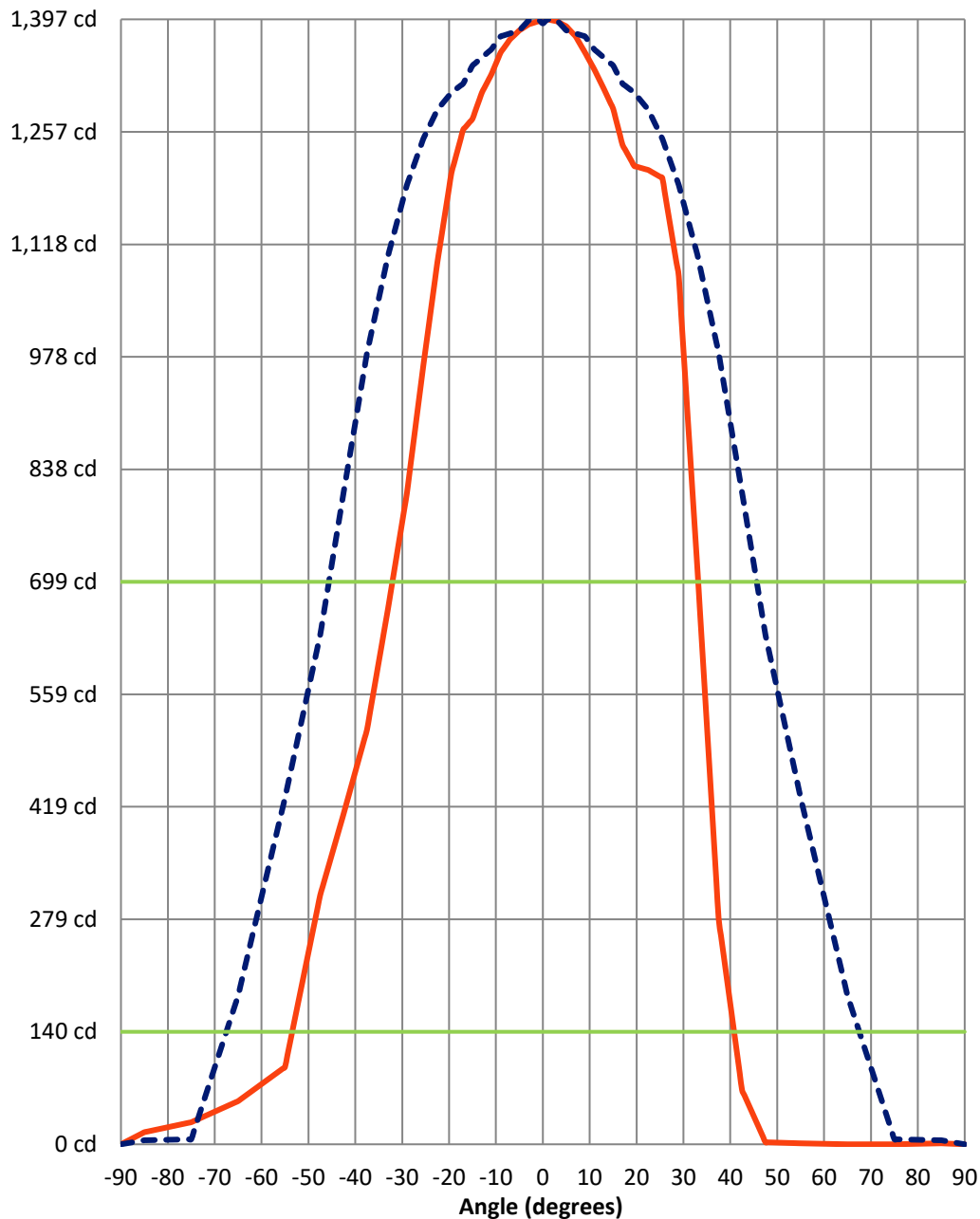
Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 91.3°
 V Angle: 65.2°
 Lumens: 1592.3
 Efficiency: 73.4%

Field:
 H Angle: 135°
 V Angle: 94.3°
 Lumens: 2095.9
 Efficiency: 96.7%

Spill:
 Lumens: 72.3
 Efficiency: 3.3%

— Vertical Distribution through 1-Deg
 - - - Horizontal Distribution through 1-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	0°	1°	3°	5°	7°	9°	11°	13°	15°	17°	19.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5	2.5
75°	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
65°	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
55°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
47.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
42.5°	69.9	67.4	62.4	66.1	64.9	62.4	58.6	66.1	69.9	71.1	61.1
37.5°	280.6	280.6	278.2	288.1	284.4	259.4	254.5	253.2	261.9	279.4	299.4
33°	717.2	712.2	716.0	717.2	721.0	722.2	723.5	714.7	719.7	718.5	712.2
29°	1080.2	1077.7	1082.7	1076.4	1085.2	1086.4	1082.7	1085.2	1080.2	1090.2	1080.2
25.5°	1198.7	1199.9	1201.2	1193.7	1203.7	1211.2	1203.7	1201.2	1190.0	1187.5	1185.0
22.5°	1209.9	1209.9	1212.4	1203.7	1207.4	1218.6	1213.7	1214.9	1208.7	1206.2	1206.2
19.5°	1213.7	1214.9	1216.1	1206.2	1212.4	1217.4	1213.7	1217.4	1216.1	1214.9	1218.6
17°	1239.8	1241.1	1241.1	1233.6	1244.8	1252.3	1248.6	1252.3	1251.1	1247.3	1251.1
15°	1284.7	1286.0	1287.2	1281.0	1292.2	1301.0	1298.5	1298.5	1294.7	1286.0	1284.7
13°	1309.7	1310.9	1314.7	1309.7	1318.4	1324.7	1322.2	1324.7	1318.4	1303.5	1298.5
11°	1333.4	1334.6	1337.1	1329.7	1337.1	1342.1	1339.6	1335.9	1332.1	1328.4	1308.4
9°	1354.6	1355.8	1357.1	1345.9	1349.6	1353.4	1344.6	1343.4	1338.4	1322.2	1314.7
7°	1373.3	1375.8	1375.8	1363.3	1363.3	1363.3	1353.4	1347.1	1337.1	1325.9	1318.4
5°	1385.8	1388.3	1387.0	1374.6	1372.1	1369.6	1357.1	1353.4	1344.6	1324.7	1315.9
3°	1390.8	1394.5	1393.3	1379.5	1377.1	1373.3	1358.3	1353.4	1343.4	1324.7	1312.2
1°	1392.0	1397.0	1395.8	1383.3	1379.5	1375.8	1359.6	1349.6	1339.6	1317.2	1306.0
0°	1390.8	1394.5	1393.3	1380.8	1378.3	1374.6	1355.8	1347.1	1333.4	1312.2	1323.4
-1°	1390.8	1394.5	1394.5	1383.3	1379.5	1374.6	1355.8	1344.6	1330.9	1309.7	1306.0
-3°	1387.0	1390.8	1392.0	1382.0	1378.3	1372.1	1352.1	1339.6	1325.9	1303.5	1289.7
-5°	1378.3	1383.3	1382.0	1370.8	1365.8	1360.8	1342.1	1329.7	1313.4	1288.5	1266.0
-7°	1367.1	1372.1	1362.1	1357.1	1352.1	1349.6	1330.9	1315.9	1294.7	1266.0	1238.6
-9°	1349.6	1355.8	1353.4	1343.4	1339.6	1334.6	1313.4	1296.0	1272.3	1241.1	1211.2
-11°	1328.4	1328.4	1333.4	1327.2	1320.9	1314.7	1289.7	1269.8	1243.6	1209.9	1177.5
-13°	1303.5	1306.0	1309.7	1303.5	1296.0	1286.0	1259.8	1237.4	1211.2	1175.0	1140.1
-15°	1284.7	1273.5	1283.5	1273.5	1262.3	1252.3	1223.6	1198.7	1166.3	1132.6	1095.2
-17°	1257.3	1259.8	1249.8	1236.1	1223.6	1211.2	1181.2	1152.5	1118.9	1082.7	1042.8
-19.5°	1204.9	1206.2	1196.2	1178.7	1162.5	1143.8	1112.6	1082.7	1044.0	1006.6	965.4
-22.5°	1095.2	1095.2	1090.2	1075.2	1052.7	1030.3	995.4	967.9	930.5	893.1	860.7
-25.5°	967.9	966.7	962.9	950.5	929.3	904.3	866.9	844.4	808.3	782.1	757.1
-29°	809.5	808.3	803.3	793.3	772.1	748.4	721.0	709.7	684.8	662.3	639.9
-33°	666.1	666.1	664.8	656.1	641.1	624.9	616.2	601.2	575.0	556.3	536.4
-37.5°	516.4	515.1	513.9	508.9	502.7	491.4	484.0	471.5	459.0	447.8	431.6
-42.5°	411.6	410.4	411.6	405.4	399.1	389.2	377.9	370.5	364.2	354.2	343.0
-47.5°	309.3	309.3	308.1	298.1	294.4	279.4	278.2	283.1	284.4	269.4	256.9
-55°	97.3	96.0	97.3	97.3	94.8	92.3	89.8	84.8	82.3	83.6	79.8
-65°	52.4	53.6	53.6	52.4	51.1	49.9	48.6	48.6	46.2	46.2	44.9
-75°	27.4	27.4	27.4	27.4	26.2	26.2	26.2	26.2	26.2	26.2	24.9
-85°	15.0	15.0	15.0	15.0	15.0	16.2	16.2	16.2	16.2	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):

	22.5°	25.5°	29°	33°	37.5°	42.5°	47.5°	55°	65°	75°	85°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
75°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5
65°	1.2	1.2	1.2	1.2	1.2	0.0	1.2	1.2	1.2	2.5	2.5
55°	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	1.2	2.5	2.5
47.5°	2.5	2.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.7	2.5
42.5°	57.4	52.4	44.9	33.7	23.7	18.7	10.0	3.7	2.5	3.7	2.5
37.5°	256.9	255.7	244.5	224.5	193.3	157.2	119.7	43.7	5.0	3.7	3.7
33°	712.2	696.0	676.1	644.9	583.8	316.8	278.2	150.9	11.2	5.0	3.7
29°	1059.0	1041.5	1029.0	956.7	894.3	754.6	616.2	248.2	26.2	5.0	3.7
25.5°	1175.0	1161.3	1130.1	1072.7	990.4	863.2	692.3	351.7	49.9	5.0	5.0
22.5°	1198.7	1183.7	1156.3	1107.6	1022.8	894.3	718.5	436.6	73.6	5.0	5.0
19.5°	1214.9	1202.4	1176.2	1127.6	1047.8	916.8	740.9	459.0	101.0	6.2	5.0
17°	1244.8	1229.9	1201.2	1148.8	1067.7	936.7	758.4	465.3	123.5	6.2	5.0
15°	1273.5	1256.1	1224.9	1168.7	1086.4	948.0	762.1	466.5	139.7	6.2	5.0
13°	1286.0	1262.3	1228.6	1172.5	1086.4	943.0	754.6	466.5	154.7	6.2	5.0
11°	1292.2	1266.0	1229.9	1172.5	1085.2	935.5	740.9	465.3	169.6	6.2	5.0
9°	1296.0	1266.0	1229.9	1168.7	1077.7	923.0	724.7	459.0	179.6	6.2	5.0
7°	1297.2	1266.0	1227.4	1162.5	1065.2	903.1	703.5	451.5	187.1	6.2	5.0
5°	1296.0	1263.5	1219.9	1140.1	1044.0	875.6	682.3	447.8	189.6	6.2	5.0
3°	1292.2	1258.6	1208.7	1128.8	1016.6	844.4	657.3	440.3	188.3	6.2	5.0
1°	1284.7	1248.6	1191.2	1103.9	982.9	809.5	632.4	430.3	184.6	6.2	5.0
0°	1278.5	1242.3	1180.0	1075.2	965.4	792.1	629.9	426.6	182.1	6.2	5.0
-1°	1274.8	1236.1	1171.2	1077.7	950.5	777.1	613.7	422.8	179.6	6.2	5.0
-3°	1257.3	1216.1	1148.8	1050.3	919.3	749.6	600.0	415.4	173.4	6.2	5.0
-5°	1232.4	1186.2	1117.6	1015.3	884.4	725.9	583.8	405.4	167.1	6.2	5.0
-7°	1201.2	1153.8	1083.9	981.6	853.2	699.8	567.5	316.8	159.7	6.2	5.0
-9°	1170.0	1118.9	1047.8	944.2	819.5	676.1	551.3	315.6	152.2	6.2	5.0
-11°	1133.8	1081.4	1009.1	901.8	784.6	648.6	531.4	313.1	144.7	6.2	5.0
-13°	1092.7	1040.3	966.7	865.6	747.2	621.2	510.2	309.3	136.0	6.2	5.0
-15°	1045.3	992.9	918.0	822.0	711.0	591.2	487.7	304.3	127.2	6.2	5.0
-17°	990.4	940.5	868.1	774.6	667.3	560.1	464.0	296.9	118.5	6.2	5.0
-19.5°	918.0	871.9	800.8	712.2	619.9	521.4	430.3	285.6	106.0	6.2	3.7
-22.5°	825.7	779.6	711.0	634.9	558.8	475.2	390.4	266.9	92.3	5.0	3.7
-25.5°	723.5	679.8	621.2	561.3	496.4	424.1	311.8	243.2	77.3	5.0	3.7
-29°	608.7	572.5	527.6	484.0	427.8	369.2	294.4	189.6	61.1	5.0	3.7
-33°	511.4	486.5	447.8	407.9	366.7	318.1	268.2	145.9	43.7	5.0	2.5
-37.5°	414.1	396.7	373.0	344.3	305.6	286.9	223.3	104.8	24.9	5.0	2.5
-42.5°	324.3	316.8	296.9	276.9	252.0	204.6	159.7	68.6	16.2	3.7	2.5
-47.5°	244.5	227.0	210.8	187.1	162.2	133.5	104.8	31.2	12.5	3.7	2.5
-55°	79.8	76.1	76.1	73.6	69.9	64.9	52.4	18.7	10.0	3.7	2.5
-65°	43.7	42.4	42.4	41.2	38.7	34.9	24.9	13.7	7.5	3.7	2.5
-75°	24.9	23.7	22.5	21.2	20.0	17.5	13.7	10.0	6.2	3.7	2.5
-85°	16.2	16.2	15.0	15.0	13.7	12.5	11.2	8.7	6.2	3.7	2.5
-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°
90°	0.0
85°	0.0
75°	0.0
65°	0.0
55°	0.0
47.5°	0.0
42.5°	0.0
37.5°	0.0
33°	0.0
29°	0.0
25.5°	0.0
22.5°	0.0
19.5°	0.0
17°	0.0
15°	0.0
13°	0.0
11°	0.0
9°	0.0
7°	0.0
5°	0.0
3°	0.0
1°	0.0
0°	0.0
-1°	0.0
-3°	0.0
-5°	0.0
-7°	0.0
-9°	0.0
-11°	0.0
-13°	0.0
-15°	0.0
-17°	0.0
-19.5°	0.0
-22.5°	0.0
-25.5°	0.0
-29°	0.0
-33°	0.0
-37.5°	0.0
-42.5°	0.0
-47.5°	0.0
-55°	0.0
-65°	0.0
-75°	0.0
-85°	0.0
-90°	0.0

(END OF REPORT)