

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: P132884

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P132884
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: XTOR3A-WT-XTORFLD+VISOR+IMPACT SHIELD
Description: LUMARK CROSSTOUR LED WHITE 30W XTORFLD WITH VISOR AND IMPACT SHIELD
Light Source: (1) 5000K LED
Ballast/Driver: (1) ELECTRONIC DRIVER

Summary

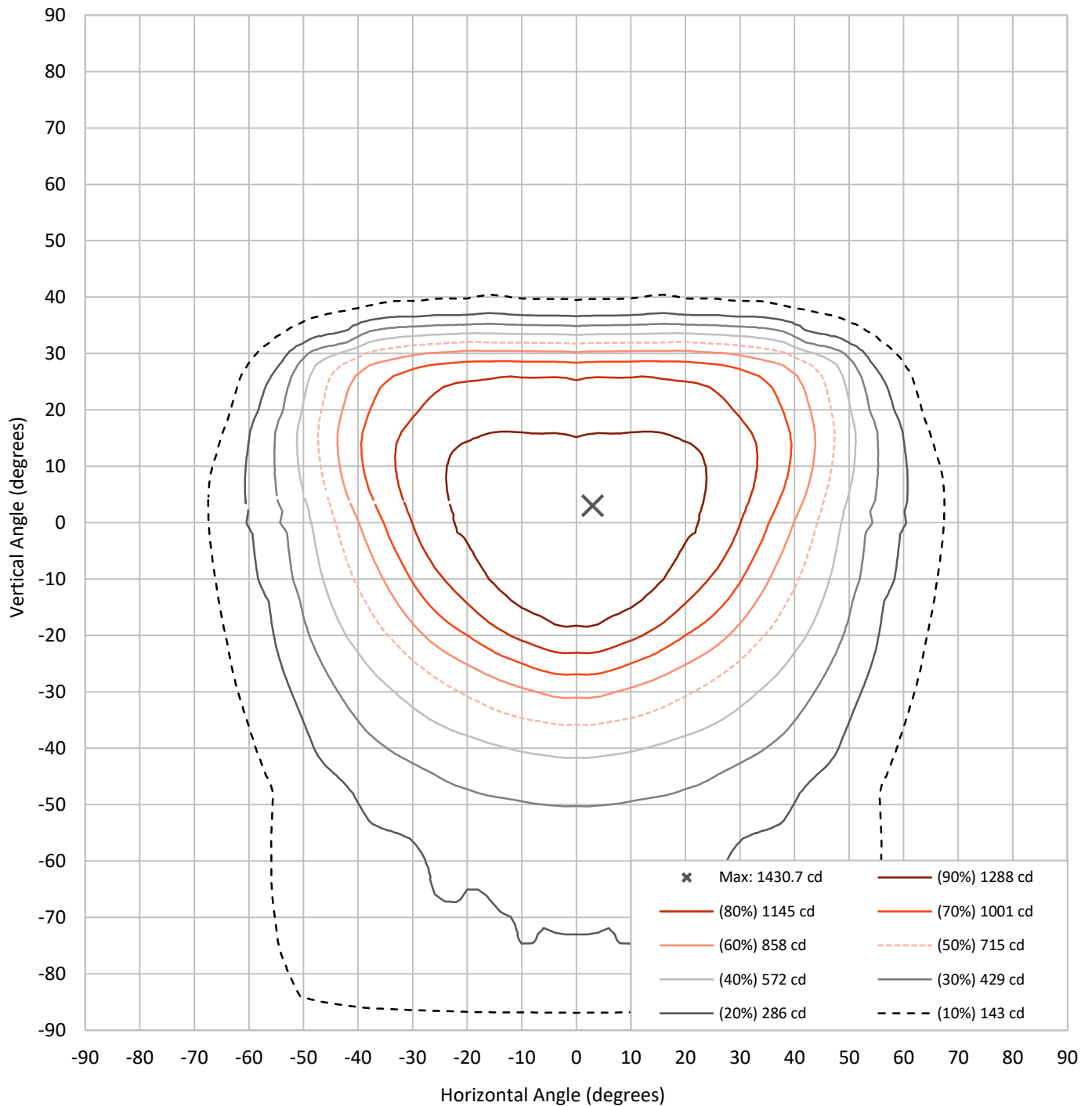
Lumens per Lamp:	N/A	NEMA Type:	7H x 6V
Luminaire Lumens:	2507.4 lumens	Max Intensity:	1430.7 candela
Efficiency:	N/A	Max Intensity Angle:	3°H x 3°V
Efficacy:	96.4 lumens/watt		
Luminous Opening:	(L: 0.46 ' x W: 0 ' x H: 0.15 ')		
Beam Angle (50%):	90.2°H x 67.7°V	Field Angle (10%):	135°H x 126.5°V
Beam Lumens:	1635.1 lumens	Field Lumens:	2429.3 lumens
Beam Efficiency:	65.2%	Field Efficiency:	96.9%
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

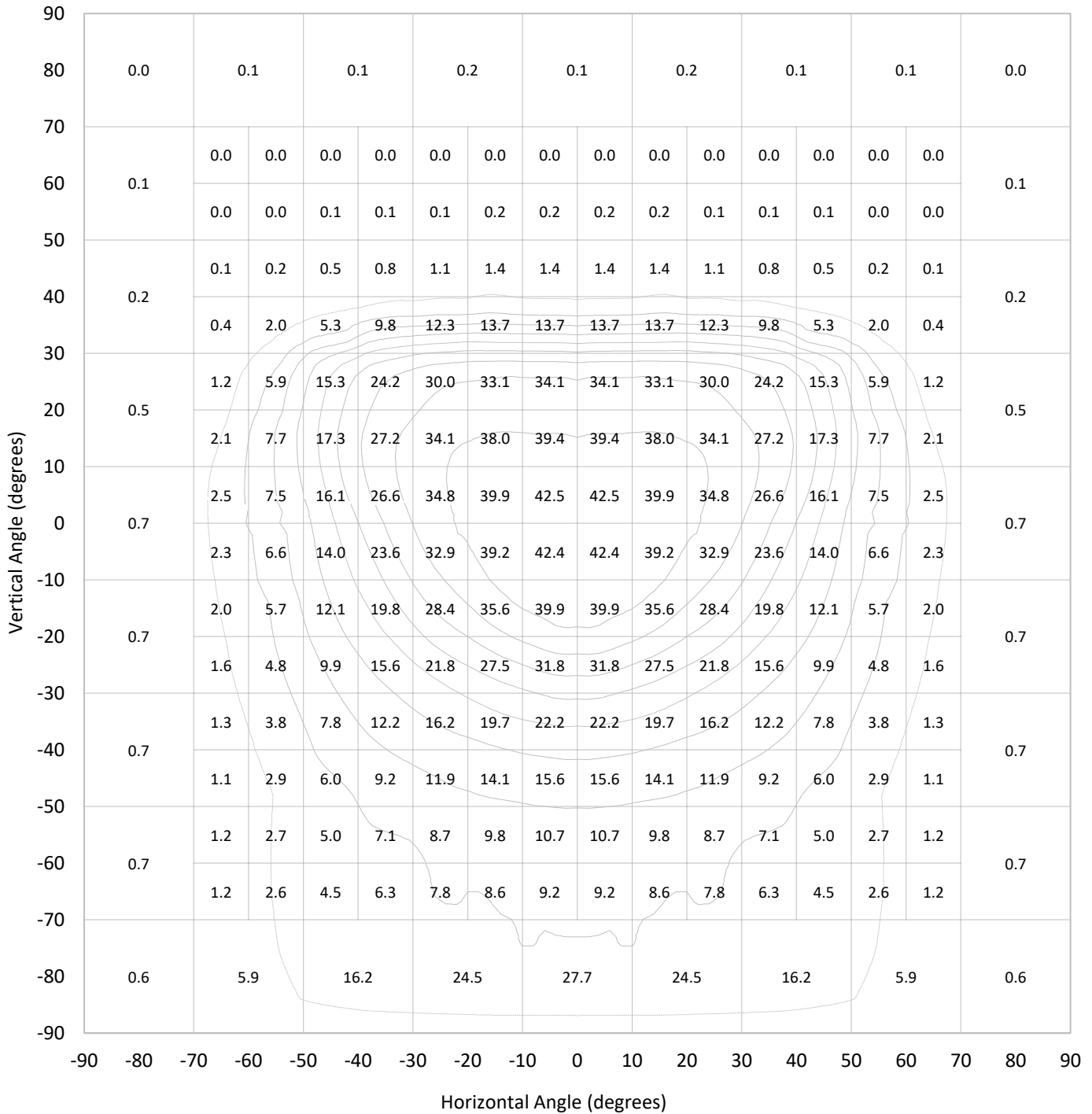




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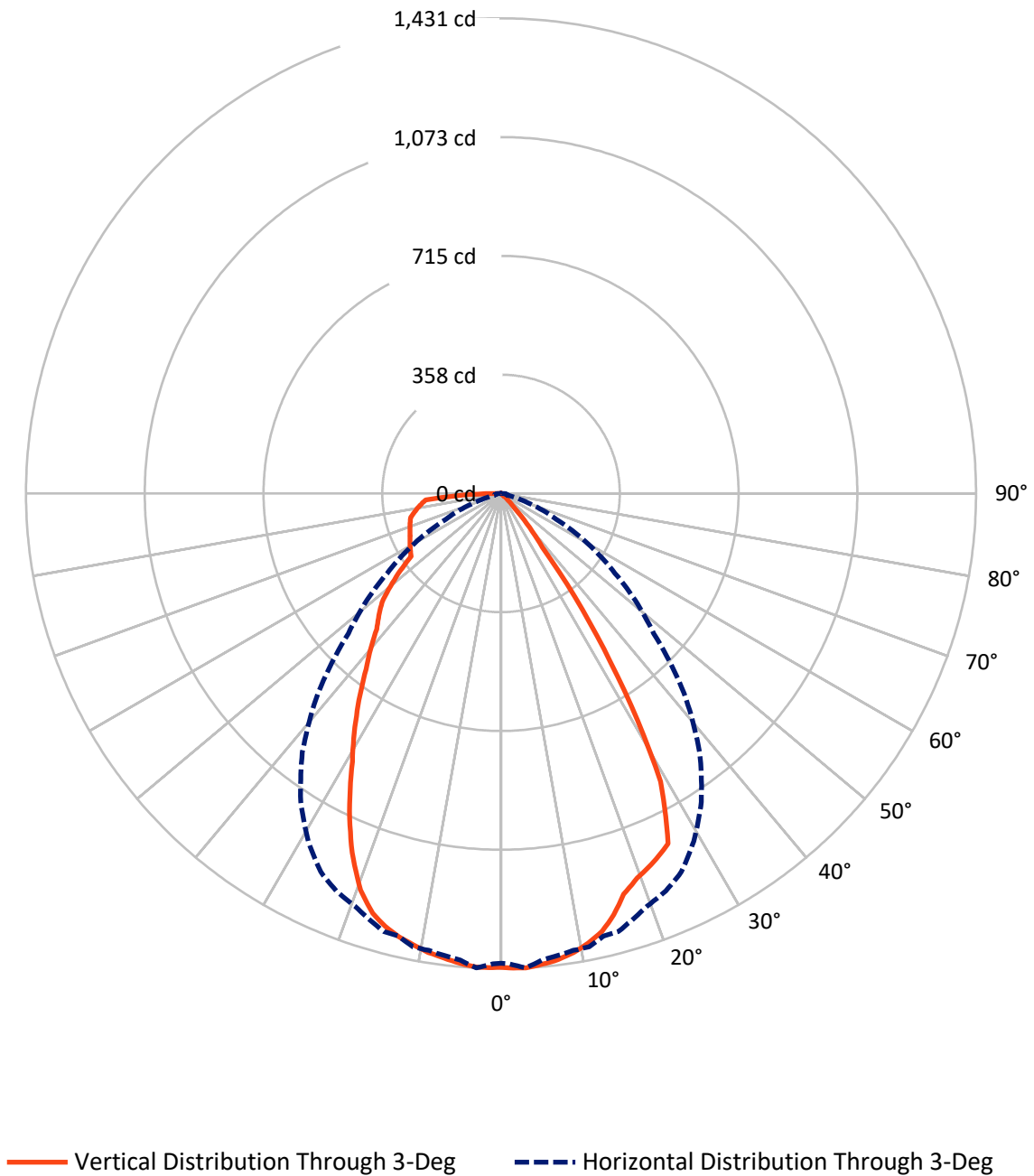
Lumen Table



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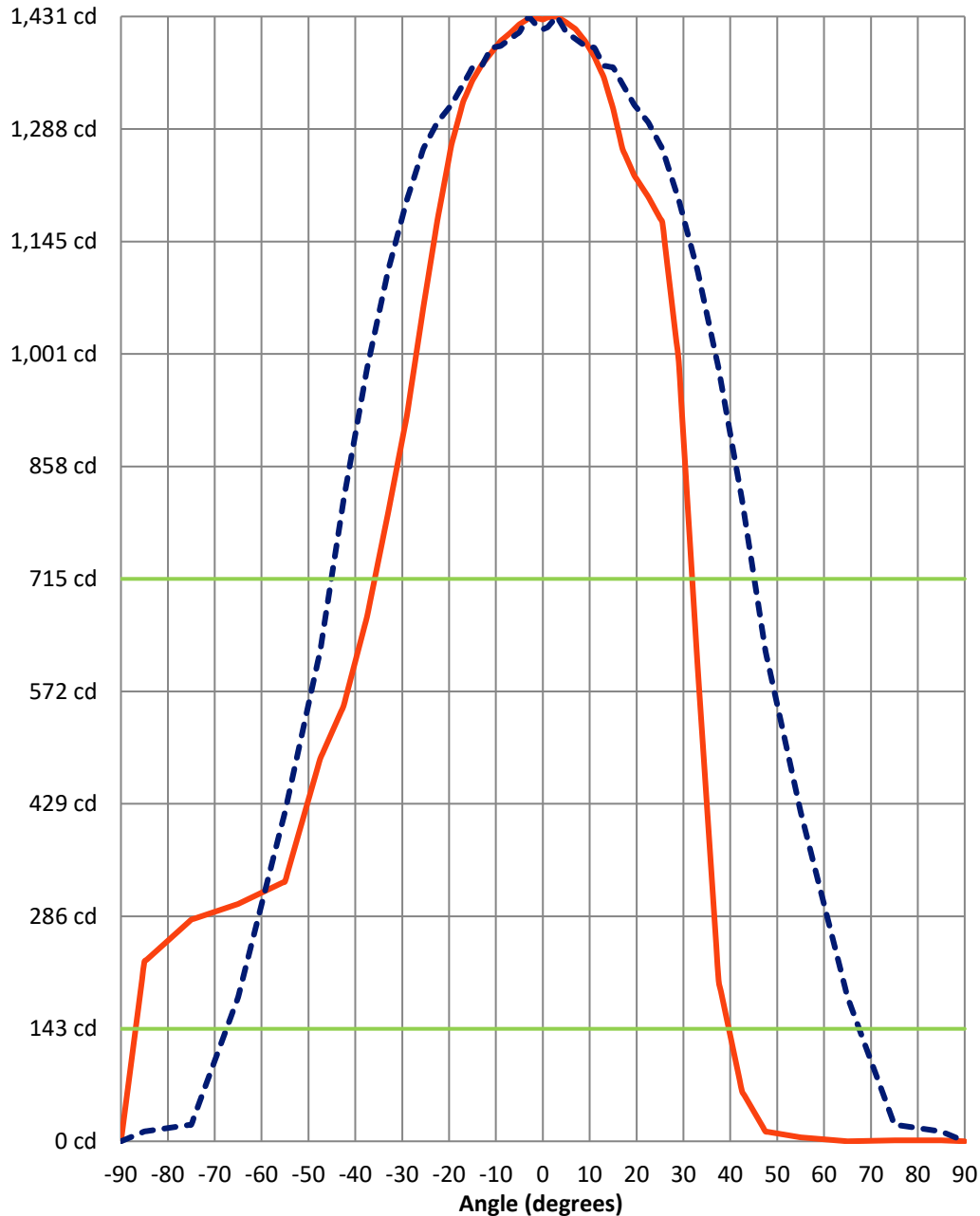
Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 90.2°
 V Angle: 67.7°
 Lumens: 1635.1
 Efficiency: 65.2%

Field:
 H Angle: 135°
 V Angle: 126.5°
 Lumens: 2429.3
 Efficiency: 96.9%

Spill:
 Lumens: 78.1
 Efficiency: 3.1%

— Vertical Distribution through 3-Deg
 - - - Horizontal Distribution through 3-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	2.5	1.2	2.5	2.5	2.5	2.5	2.5	2.5
75°	0.0	0.0	1.2	1.2	1.2	1.2	1.2	2.5	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°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	3.7	5.0	5.0	3.7
47.5°	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	11.2
42.5°	59.9	64.9	63.6	61.1	59.9	58.6	58.6	64.9	69.9	71.1	57.4
37.5°	198.3	203.3	204.6	205.8	208.3	208.3	217.0	229.5	248.2	242.0	213.3
33°	595.0	602.5	606.2	611.2	608.7	612.4	613.7	613.7	611.2	621.2	628.7
29°	977.9	984.1	991.6	990.4	992.9	991.6	994.1	1006.6	995.4	1000.4	997.9
25.5°	1153.8	1157.5	1168.7	1162.5	1165.0	1161.3	1166.3	1167.5	1160.0	1152.5	1148.8
22.5°	1190.0	1192.4	1201.2	1196.2	1198.7	1193.7	1198.7	1199.9	1198.7	1190.0	1183.7
19.5°	1216.1	1218.6	1228.6	1222.4	1223.6	1217.4	1224.9	1222.4	1226.1	1216.1	1209.9
17°	1243.6	1247.3	1262.3	1257.3	1258.6	1259.8	1268.5	1266.0	1269.8	1258.6	1248.6
15°	1293.5	1297.2	1313.4	1308.4	1309.7	1307.2	1315.9	1310.9	1314.7	1299.7	1284.7
13°	1335.9	1339.6	1353.4	1343.4	1344.6	1342.1	1348.4	1338.4	1343.4	1327.2	1307.2
11°	1362.1	1365.8	1379.5	1367.1	1363.3	1358.3	1364.6	1352.1	1354.6	1338.4	1318.4
9°	1384.5	1387.0	1399.5	1384.5	1379.5	1370.8	1374.6	1359.6	1360.8	1343.4	1323.4
7°	1399.5	1400.8	1414.5	1398.3	1390.8	1382.0	1382.0	1363.3	1364.6	1345.9	1323.4
5°	1407.0	1409.5	1423.2	1405.7	1397.0	1388.3	1387.0	1367.1	1365.8	1347.1	1320.9
3°	1414.5	1417.0	1430.7	1410.7	1402.0	1393.3	1390.8	1368.3	1365.8	1344.6	1318.4
1°	1412.0	1415.7	1429.4	1412.0	1403.2	1392.0	1389.5	1364.6	1359.6	1338.4	1317.2
0°	1409.5	1413.2	1426.9	1409.5	1400.8	1389.5	1385.8	1360.8	1355.8	1334.6	1355.8
-1°	1412.0	1414.5	1428.2	1412.0	1402.0	1390.8	1387.0	1363.3	1357.1	1335.9	1310.9
-3°	1412.0	1415.7	1428.2	1408.2	1399.5	1388.3	1384.5	1362.1	1355.8	1332.1	1297.2
-5°	1405.7	1408.2	1420.7	1399.5	1392.0	1383.3	1379.5	1357.1	1347.1	1320.9	1282.3
-7°	1394.5	1397.0	1409.5	1392.0	1383.3	1374.6	1369.6	1344.6	1332.1	1304.7	1262.3
-9°	1379.5	1383.3	1399.5	1384.5	1377.1	1364.6	1357.1	1329.7	1314.7	1283.5	1238.6
-11°	1367.1	1369.6	1384.5	1369.6	1362.1	1348.4	1338.4	1309.7	1293.5	1259.8	1213.7
-13°	1355.8	1359.6	1369.6	1352.1	1340.9	1325.9	1314.7	1283.5	1263.5	1228.6	1180.0
-15°	1339.6	1343.4	1349.6	1325.9	1312.2	1298.5	1284.7	1252.3	1228.6	1190.0	1140.1
-17°	1315.9	1318.4	1322.2	1298.5	1279.8	1262.3	1246.1	1212.4	1186.2	1145.0	1091.4
-19.5°	1261.1	1263.5	1267.3	1242.3	1221.1	1198.7	1180.0	1146.3	1116.4	1072.7	1021.6
-22.5°	1166.3	1168.7	1171.2	1152.5	1130.1	1105.1	1081.4	1049.0	1016.6	979.2	940.5
-25.5°	1055.2	1057.7	1060.2	1042.8	1021.6	996.6	964.2	941.7	920.5	891.8	855.7
-29°	918.0	920.5	923.0	908.1	889.3	870.6	851.9	839.5	817.0	788.3	757.1
-33°	798.3	800.8	799.5	788.3	774.6	767.1	752.1	737.2	717.2	697.3	674.8
-37.5°	664.8	668.6	667.3	658.6	649.9	646.1	633.6	622.4	611.2	597.5	580.0
-42.5°	553.8	555.1	553.8	546.3	541.3	536.4	526.4	517.6	507.7	497.7	485.2
-47.5°	486.5	489.0	486.5	480.2	476.5	469.0	460.3	454.0	449.0	441.6	429.1
-55°	330.5	331.8	330.5	330.5	330.5	328.0	323.1	318.1	315.6	314.3	309.3
-65°	303.1	304.3	301.9	303.1	301.9	298.1	295.6	294.4	290.6	286.9	284.4
-75°	281.9	281.9	281.9	280.6	276.9	296.9	278.2	275.7	276.9	269.4	264.4
-85°	230.8	230.8	228.3	229.5	227.0	227.0	227.0	225.8	224.5	223.3	219.5
-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):

	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	1.2	1.2	1.2	1.2	2.5	3.7
55°	3.7	3.7	3.7	3.7	2.5	2.5	2.5	2.5	1.2	3.7	3.7
47.5°	11.2	11.2	11.2	10.0	10.0	8.7	7.5	6.2	5.0	5.0	5.0
42.5°	54.9	49.9	46.2	37.4	29.9	24.9	18.7	12.5	8.7	7.5	6.2
37.5°	213.3	220.8	195.8	208.3	174.6	139.7	108.5	44.9	12.5	8.7	6.2
33°	613.7	601.2	585.0	558.8	512.7	315.6	269.4	133.5	21.2	11.2	7.5
29°	979.2	962.9	941.7	885.6	828.2	693.5	562.5	228.3	34.9	12.5	8.7
25.5°	1141.3	1120.1	1085.2	1030.3	960.4	820.7	639.9	323.1	54.9	13.7	8.7
22.5°	1176.2	1155.0	1118.9	1067.7	989.1	849.4	666.1	358.0	76.1	15.0	10.0
19.5°	1202.4	1185.0	1147.5	1095.2	1015.3	880.6	689.8	381.7	101.0	16.2	10.0
17°	1237.4	1217.4	1176.2	1121.3	1037.8	903.1	706.0	430.3	121.0	17.5	11.2
15°	1269.8	1252.3	1201.2	1142.6	1056.5	915.5	708.5	434.1	137.2	18.7	11.2
13°	1288.5	1261.1	1212.4	1150.0	1057.7	910.6	702.2	435.3	150.9	18.7	11.2
11°	1298.5	1268.5	1217.4	1151.3	1055.2	903.1	693.5	436.6	163.4	18.7	11.2
9°	1302.2	1271.0	1217.4	1148.8	1045.3	889.3	679.8	434.1	173.4	20.0	12.5
7°	1302.2	1271.0	1214.9	1141.3	1030.3	869.4	661.1	430.3	179.6	20.0	12.5
5°	1299.7	1267.3	1208.7	1126.3	1007.8	844.4	642.4	424.1	182.1	21.2	12.5
3°	1296.0	1262.3	1197.4	1107.6	982.9	815.8	623.7	419.1	183.4	21.2	12.5
1°	1288.5	1252.3	1182.5	1083.9	951.7	784.6	607.4	373.0	182.1	21.2	12.5
0°	1279.8	1243.6	1172.5	1070.2	936.7	770.8	601.2	411.6	180.9	22.5	12.5
-1°	1289.7	1237.4	1165.0	1061.5	924.3	759.6	596.2	370.5	179.6	22.5	12.5
-3°	1264.8	1221.1	1145.0	1036.5	895.6	738.4	587.5	368.0	175.9	22.5	12.5
-5°	1244.8	1197.4	1117.6	1006.6	868.1	719.7	575.0	364.2	170.9	23.7	12.5
-7°	1221.1	1171.2	1088.9	975.4	840.7	699.8	563.8	359.2	165.9	23.7	13.7
-9°	1193.7	1140.1	1057.7	943.0	812.0	681.0	552.6	353.0	160.9	24.9	13.7
-11°	1161.3	1106.4	1022.8	911.8	784.6	662.3	537.6	346.8	155.9	24.9	13.7
-13°	1126.3	1067.7	985.4	875.6	754.6	642.4	522.6	310.6	150.9	26.2	12.5
-15°	1083.9	1025.3	945.5	838.2	725.9	621.2	506.4	305.6	145.9	27.4	13.7
-17°	1036.5	980.4	904.3	800.8	701.0	601.2	490.2	301.9	139.7	28.7	13.7
-19.5°	974.2	928.0	844.4	750.9	666.1	572.5	466.5	293.1	132.2	28.7	12.5
-22.5°	898.1	845.7	772.1	696.0	622.4	536.4	436.6	281.9	123.5	29.9	12.5
-25.5°	812.0	764.6	708.5	646.1	581.3	500.2	407.9	266.9	116.0	31.2	12.5
-29°	723.5	686.0	638.6	590.0	535.1	459.0	375.4	245.7	104.8	32.4	12.5
-33°	644.9	616.2	578.8	535.1	486.5	416.6	344.3	218.3	93.5	33.7	12.5
-37.5°	561.3	540.1	511.4	477.7	434.1	375.4	310.6	192.1	83.6	36.2	12.5
-42.5°	472.7	455.3	435.3	411.6	373.0	315.6	279.4	165.9	82.3	37.4	12.5
-47.5°	419.1	401.6	382.9	356.7	319.3	274.4	240.7	144.7	86.1	38.7	12.5
-55°	304.3	300.6	293.1	281.9	278.2	242.0	212.0	148.4	89.8	39.9	12.5
-65°	295.6	293.1	265.7	255.7	242.0	224.5	194.6	148.4	87.3	38.7	11.2
-75°	259.4	254.5	247.0	237.0	224.5	207.1	183.4	140.9	81.1	37.4	11.2
-85°	213.3	208.3	202.1	193.3	183.4	168.4	153.4	122.2	71.1	33.7	10.0
-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):

	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)