

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: io LED

Report Number: P273478

Luminaire Tested: **0.05-12W-835-90ASYM-STD-UNV-AN-3F0**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273478
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-246-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: 0.05-12W-835-90ASYM-STD-UNV-AN-3F0
Description: iO LIGHTING SERIES 2.0 LINEAR LED LUMINAIRE. 90 DEGREE ASYMMETRIC OPTIC.
V2 HIGH OUTPUT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1893.5 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 0.97 / 1.19
Luminous Opening: Rectangular (W 2.92' x L: 0.21' x H: 0')
CIE Type: Direct

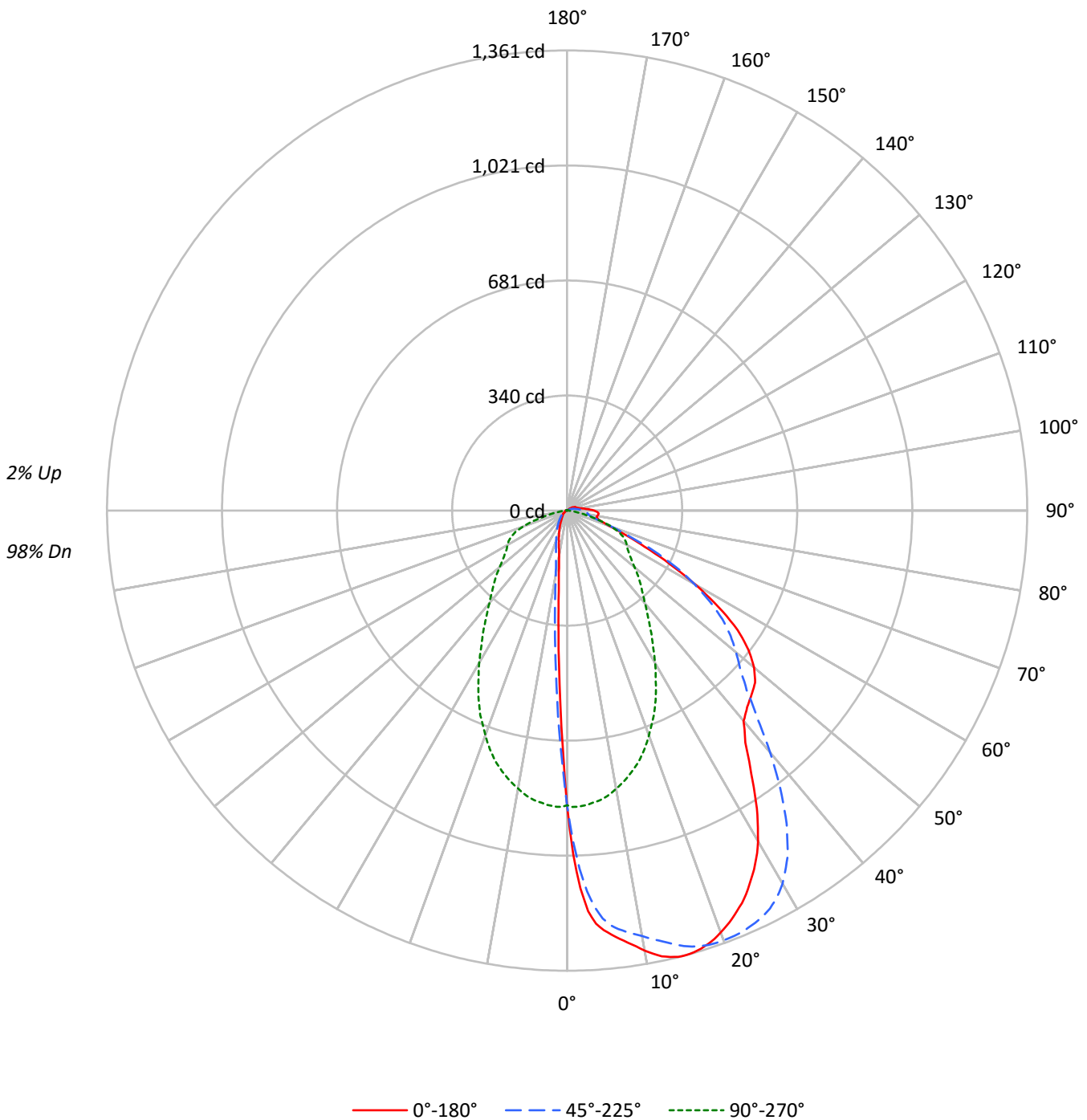
Input Watts (W): 26.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98					98			
1	109	105	101	98	106	103	99	96	98	95	93	94	91	89	90	88	86	84					84			
2	100	93	87	82	98	91	85	80	87	82	78	84	80	76	80	77	74	72					72			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	65	72	68	64	62					62			
4	85	74	66	59	83	72	65	59	70	63	58	67	61	57	65	60	56	54					54			
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	53	49	47					47			
6	73	60	52	45	71	59	51	45	57	50	45	55	49	44	53	48	44	42					42			
7	67	55	46	40	66	54	46	40	52	45	40	50	44	39	49	43	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	46	40	35	45	39	35	33					33			
9	59	46	38	33	57	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29	27					27			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	15438	15438	15438
5°	22155	15424	5233
10°	23776	15021	2450
15°	24967	14361	1717
20°	25036	13332	1314
25°	24475	12095	997
30°	23102	10636	745
35°	20533	9312	584
40°	18782	8274	504
45°	19305	7686	468
50°	19892	7165	430
55°	19015	6937	352
60°	15550	7220	220
65°	10592	7629	260
70°	6785	7220	321
75°	6406	5195	356
80°	9232	3397	530
85°	19024	2317	1057



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.7	4.0
10°-20°	208.6	11.0
20°-30°	315.5	16.7
30°-40°	362.7	19.2
40°-50°	348.4	18.4
50°-60°	291.0	15.4
60°-70°	157.5	8.3
70°-80°	57.8	3.1
80°-90°	34.2	1.8
90°-100°	20.2	1.1
100°-110°	10.6	0.6
110°-120°	6.5	0.3
120°-130°	3.5	0.2
130°-140°	1.2	0.1
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°-30°	599.9	31.7
0°-40°	962.6	50.8
0°-60°	1602.0	84.6
0°-90°	1851.5	97.8
90°-120°	37.4	2.0
90°-150°	42.0	2.2
90°-180°	42.0	2.2
0°-180°	1893.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	872	872	872	872	872	
5°	1246	1212	867	407	294	120
15°	1361	1333	783	127	94	382
25°	1252	1337	619	74	51	573
35°	950	1132	431	45	27	597
45°	771	751	307	27	19	595
55°	616	561	225	15	11	537
65°	253	283	182	7	6	262
75°	94	79	76	5	5	106
85°	94	58	11	4	5	75
90°	80	48	2	3	4	43
95°	56	36	2	3	4	43
105°	31	19	2	2	3	34
115°	25	9	2	2	2	24
125°	12	2	2	2	2	12
135°	2	2	2	2	2	2
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	871.5	871.5	871.5	871.5	871.5	871.5	871.5	871.5	871.5	871.5	871.5
1°	1016.1	1013.0	1016.1	1000.5	1001.5	1006.7	1006.7	997.4	1002.6	980.7	976.6
2°	1118.0	1115.9	1115.9	1102.4	1102.4	1106.6	1104.5	1093.0	1093.0	1070.2	1060.8
3°	1186.6	1183.5	1182.5	1172.1	1172.1	1174.2	1172.1	1162.7	1158.6	1138.8	1127.4
4°	1225.1	1224.1	1221.0	1213.7	1213.7	1215.8	1213.7	1207.4	1204.3	1187.7	1177.3
5°	1245.9	1245.9	1241.8	1236.6	1236.6	1238.6	1235.5	1232.4	1228.2	1218.9	1211.6
6°	1261.5	1259.4	1258.4	1252.2	1252.2	1253.2	1251.1	1248.0	1244.9	1238.6	1233.4
7°	1276.1	1274.0	1271.9	1265.7	1266.7	1265.7	1263.6	1259.4	1257.4	1252.2	1247.0
8°	1290.6	1288.6	1287.5	1280.2	1280.2	1279.2	1277.1	1271.9	1269.8	1263.6	1258.4
9°	1305.2	1303.1	1302.1	1294.8	1294.8	1293.8	1290.6	1286.5	1281.3	1274.0	1267.8
10°	1321.8	1319.8	1318.7	1311.4	1310.4	1308.3	1305.2	1301.0	1293.8	1286.5	1278.2
11°	1335.4	1335.4	1331.2	1326.0	1323.9	1322.9	1319.8	1315.6	1307.3	1297.9	1289.6
12°	1347.8	1347.8	1343.7	1338.5	1336.4	1335.4	1332.2	1328.1	1318.7	1311.4	1300.0
13°	1355.1	1355.1	1352.0	1346.8	1346.8	1345.8	1342.6	1339.5	1330.2	1322.9	1311.4
14°	1360.3	1360.3	1357.2	1352.0	1353.0	1352.0	1349.9	1347.8	1339.5	1333.3	1322.9
15°	1361.4	1362.4	1358.2	1354.1	1356.2	1355.1	1354.1	1352.0	1347.8	1341.6	1333.3
16°	1359.3	1361.4	1357.2	1353.0	1356.2	1355.1	1355.1	1353.0	1352.0	1347.8	1341.6
17°	1355.1	1357.2	1354.1	1349.9	1354.1	1353.0	1353.0	1353.0	1354.1	1351.0	1346.8
18°	1347.8	1351.0	1348.9	1345.8	1349.9	1351.0	1351.0	1349.9	1354.1	1353.0	1351.0
19°	1339.5	1342.6	1341.6	1339.5	1343.7	1345.8	1345.8	1346.8	1352.0	1353.0	1353.0
20°	1328.1	1332.2	1331.2	1330.2	1336.4	1337.4	1339.5	1341.6	1348.9	1351.0	1353.0
21°	1315.6	1320.8	1320.8	1319.8	1326.0	1329.1	1332.2	1335.4	1343.7	1347.8	1352.0
22°	1302.1	1307.3	1307.3	1307.3	1314.6	1318.7	1321.8	1329.1	1338.5	1345.8	1351.0
23°	1286.5	1291.7	1291.7	1292.7	1301.0	1306.2	1310.4	1318.7	1331.2	1341.6	1347.8
24°	1270.9	1275.0	1276.1	1277.1	1286.5	1291.7	1295.8	1306.2	1321.8	1335.4	1342.6
25°	1252.2	1257.4	1257.4	1259.4	1269.8	1275.0	1280.2	1292.7	1310.4	1326.0	1337.4
26°	1230.3	1236.6	1238.6	1240.7	1251.1	1256.3	1262.6	1276.1	1296.9	1313.5	1330.2
27°	1208.5	1214.7	1217.8	1217.8	1231.4	1236.6	1243.8	1258.4	1282.3	1300.0	1320.8
28°	1184.6	1190.8	1190.8	1196.0	1208.5	1214.7	1222.0	1238.6	1263.6	1283.4	1308.3
29°	1158.6	1164.8	1164.8	1171.0	1183.5	1190.8	1198.1	1216.8	1239.7	1264.6	1292.7
30°	1129.4	1135.7	1136.7	1141.9	1155.4	1162.7	1171.0	1191.8	1214.7	1242.8	1274.0
32.5°	1044.2	1051.4	1051.4	1062.9	1073.3	1085.8	1092.0	1114.9	1145.0	1176.2	1213.7
35°	949.5	956.8	955.8	962.0	978.6	985.9	998.4	1022.3	1053.5	1092.0	1131.5
37.5°	865.3	869.4	867.4	872.6	884.0	895.4	904.8	923.5	954.7	995.3	1035.8
40°	812.2	813.3	811.2	810.2	815.4	819.5	824.7	836.2	859.0	893.4	932.9
42.5°	788.3	785.2	782.1	779.0	775.8	775.8	773.8	775.8	784.2	803.9	832.0
45°	770.6	769.6	765.4	761.3	755.0	753.0	748.8	740.5	735.3	739.4	750.9
47.5°	754.0	750.9	746.7	742.6	735.3	732.2	724.9	712.4	703.0	696.8	693.7
50°	721.8	717.6	713.4	710.3	704.1	701.0	693.7	682.2	672.9	661.4	652.1
52.5°	676.0	670.8	668.7	665.6	659.4	655.2	649.0	640.6	632.3	624.0	609.4
55°	615.7	612.6	610.5	611.5	604.2	602.2	598.0	587.6	580.3	572.0	560.6
57.5°	531.4	529.4	530.4	535.6	534.6	535.6	535.6	530.4	524.2	513.8	500.2
60°	438.9	436.8	438.9	444.1	445.1	448.2	451.4	455.5	456.6	448.2	433.7
62.5°	343.2	340.1	341.1	344.2	344.2	348.4	352.6	359.8	367.1	368.2	364.0
65°	252.7	249.6	249.6	250.6	249.6	252.7	254.8	256.9	265.2	276.6	282.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
67.5°	181.0	178.9	178.9	178.9	178.9	179.9	178.9	181.0	185.1	192.4	200.7
70°	131.0	130.0	130.0	130.0	129.0	130.0	131.0	131.0	133.1	136.2	140.4
72.5°	106.1	105.0	105.0	104.0	101.9	101.9	100.9	99.8	98.8	99.8	101.9
75°	93.6	93.6	92.6	91.5	89.4	88.4	86.3	84.2	82.2	80.1	79.0
77.5°	89.4	89.4	88.4	86.3	84.2	82.2	81.1	77.0	73.8	70.7	67.6
80°	90.5	89.4	88.4	86.3	83.2	82.2	80.1	75.9	71.8	66.6	62.4
82.5°	92.6	92.6	91.5	88.4	85.3	83.2	81.1	77.0	71.8	66.6	60.3
85°	93.6	92.6	91.5	88.4	85.3	83.2	80.1	74.9	69.7	64.5	58.2
87.5°	88.4	87.4	86.3	83.2	79.0	78.0	74.9	69.7	65.5	59.3	54.1
90°	80.1	78.0	77.0	73.8	70.7	68.6	66.6	61.4	57.2	53.0	47.8
92.5°	67.6	66.6	65.5	62.4	60.3	58.2	56.2	52.0	48.9	45.8	42.6
95°	56.2	55.1	54.1	52.0	49.9	48.9	46.8	43.7	41.6	38.5	36.4
97.5°	46.8	45.8	44.7	43.7	41.6	40.6	39.5	37.4	35.4	33.3	31.2
100°	39.5	39.5	38.5	37.4	35.4	34.3	33.3	32.2	30.2	28.1	27.0
102.5°	34.3	34.3	33.3	32.2	31.2	30.2	29.1	28.1	26.0	23.9	22.9
105°	31.2	30.2	30.2	29.1	28.1	27.0	26.0	23.9	21.8	20.8	18.7
107.5°	29.1	28.1	28.1	27.0	25.0	25.0	23.9	21.8	19.8	17.7	16.6
110°	27.0	27.0	26.0	25.0	23.9	22.9	21.8	20.8	17.7	15.6	13.5
112.5°	26.0	26.0	25.0	23.9	22.9	21.8	20.8	18.7	16.6	14.6	11.4
115°	25.0	23.9	23.9	22.9	20.8	19.8	18.7	16.6	14.6	11.4	9.4
117.5°	21.8	21.8	21.8	19.8	18.7	17.7	16.6	14.6	12.5	9.4	7.3
120°	19.8	18.7	18.7	17.7	15.6	14.6	14.6	12.5	9.4	7.3	5.2
122.5°	16.6	15.6	15.6	14.6	13.5	12.5	11.4	9.4	7.3	5.2	4.2
125°	12.5	12.5	12.5	11.4	10.4	9.4	8.3	7.3	5.2	4.2	2.1
127.5°	10.4	9.4	9.4	8.3	7.3	7.3	6.2	5.2	3.1	2.1	2.1
130°	7.3	7.3	6.2	6.2	5.2	4.2	3.1	2.1	2.1	2.1	2.1
132.5°	4.2	4.2	4.2	3.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
135°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	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):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
180°	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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	871.5	871.5	871.5	871.5	871.5	871.5	871.5	871.5	871.5	871.5	871.5
1°	970.3	947.4	939.1	932.9	925.6	915.2	909.0	901.7	888.2	876.7	863.2
2°	1047.3	1018.2	1003.6	987.0	976.6	959.9	944.3	924.6	900.6	876.7	849.7
3°	1110.7	1079.5	1057.7	1034.8	1022.3	1001.5	975.5	946.4	911.0	874.6	834.1
4°	1160.6	1129.4	1104.5	1077.4	1062.9	1040.0	1005.7	967.2	919.4	872.6	819.5
5°	1197.0	1169.0	1144.0	1114.9	1099.3	1075.4	1033.8	983.8	927.7	867.4	802.9
6°	1222.0	1197.0	1174.2	1147.1	1131.5	1106.6	1059.8	1002.6	936.0	864.2	785.2
7°	1238.6	1217.8	1198.1	1174.2	1157.5	1134.6	1083.7	1020.2	942.2	859.0	767.5
8°	1251.1	1232.4	1215.8	1195.0	1180.4	1157.5	1105.5	1036.9	948.5	852.8	749.8
9°	1259.4	1241.8	1228.2	1209.5	1197.0	1177.3	1124.2	1049.4	951.6	844.5	729.0
10°	1269.8	1250.1	1237.6	1222.0	1210.6	1193.9	1141.9	1062.9	955.8	835.1	708.2
11°	1280.2	1258.4	1245.9	1231.4	1221.0	1206.4	1156.5	1074.3	958.9	825.8	686.4
12°	1289.6	1266.7	1254.2	1239.7	1230.3	1215.8	1169.0	1085.8	962.0	816.4	665.6
13°	1301.0	1274.0	1261.5	1248.0	1237.6	1224.1	1180.4	1096.2	964.1	806.0	643.8
14°	1310.4	1285.4	1268.8	1254.2	1244.9	1231.4	1189.8	1106.6	965.1	794.6	621.9
15°	1319.8	1294.8	1276.1	1259.4	1250.1	1236.6	1198.1	1113.8	966.2	783.1	599.0
16°	1329.1	1304.2	1283.4	1264.6	1256.3	1242.8	1205.4	1121.1	966.2	770.6	576.2
17°	1338.5	1314.6	1290.6	1270.9	1262.6	1250.1	1211.6	1128.4	965.1	756.1	552.2
18°	1346.8	1322.9	1301.0	1278.2	1269.8	1256.3	1217.8	1134.6	963.0	740.5	530.4
19°	1351.0	1330.2	1308.3	1286.5	1275.0	1262.6	1224.1	1140.9	959.9	724.9	506.5
20°	1353.0	1336.4	1315.6	1292.7	1279.2	1266.7	1229.3	1146.1	955.8	707.2	482.6
21°	1354.1	1341.6	1320.8	1299.0	1285.4	1271.9	1234.5	1150.2	951.6	689.5	460.7
22°	1355.1	1344.7	1328.1	1306.2	1290.6	1277.1	1239.7	1156.5	949.5	672.9	438.9
23°	1353.0	1345.8	1331.2	1310.4	1296.9	1281.3	1244.9	1161.7	945.4	657.3	417.0
24°	1349.9	1346.8	1335.4	1315.6	1303.1	1286.5	1250.1	1165.8	940.2	637.5	396.2
25°	1347.8	1346.8	1336.4	1318.7	1308.3	1292.7	1253.2	1169.0	933.9	618.8	376.5
26°	1343.7	1345.8	1338.5	1323.9	1312.5	1296.9	1257.4	1171.0	925.6	599.0	356.7
27°	1337.4	1342.6	1340.6	1329.1	1317.7	1303.1	1262.6	1173.1	916.2	578.2	339.0
28°	1330.2	1339.5	1341.6	1333.3	1322.9	1308.3	1268.8	1177.3	906.9	557.4	321.4
29°	1320.8	1334.3	1339.5	1336.4	1329.1	1315.6	1274.0	1182.5	896.5	539.8	305.8
30°	1307.3	1327.0	1337.4	1338.5	1333.3	1320.8	1279.2	1184.6	887.1	520.0	292.2
32.5°	1259.4	1297.9	1322.9	1341.6	1342.6	1334.3	1294.8	1191.8	859.0	472.2	260.0
35°	1186.6	1244.9	1292.7	1331.2	1341.6	1346.8	1314.6	1200.2	829.9	430.6	229.8
37.5°	1101.4	1164.8	1237.6	1301.0	1326.0	1341.6	1330.2	1207.4	794.6	391.0	210.1
40°	997.4	1068.1	1154.4	1247.0	1283.4	1320.8	1336.4	1209.5	757.1	357.8	192.4
42.5°	889.2	961.0	1052.5	1161.7	1216.8	1273.0	1327.0	1202.2	712.4	329.7	178.9
45°	789.4	850.7	940.2	1060.8	1126.3	1200.2	1295.8	1179.4	667.7	306.8	168.5
47.5°	707.2	747.8	824.7	945.4	1017.1	1108.6	1251.1	1148.2	619.8	283.9	159.1
50°	649.0	666.6	718.6	821.6	891.3	990.1	1183.5	1114.9	577.2	260.0	147.7
52.5°	601.1	602.2	627.1	698.9	762.3	858.0	1087.8	1068.1	542.9	240.2	136.2
55°	549.1	541.8	550.2	593.8	637.5	715.5	959.9	1010.9	516.9	224.6	123.8
57.5°	491.9	478.4	478.4	500.2	527.3	585.5	798.7	925.6	494.0	212.2	113.4
60°	424.3	408.7	403.5	415.0	430.6	470.1	647.9	809.1	468.0	203.8	105.0
62.5°	351.5	337.0	331.8	335.9	343.2	371.3	500.2	667.7	432.6	194.5	96.7
65°	279.8	267.3	260.0	262.1	265.2	287.0	374.4	513.8	382.7	182.0	89.4



TEST NUMBER: P273478

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
67.5°	208.0	205.9	201.8	202.8	207.0	215.3	275.6	372.3	314.1	165.4	80.1
70°	147.7	152.9	155.0	156.0	157.0	162.2	197.6	259.0	234.0	139.4	69.7
72.5°	105.0	110.2	116.5	119.6	120.6	122.7	142.5	176.8	165.4	108.2	55.1
75°	80.1	82.2	86.3	92.6	92.6	94.6	104.0	119.6	112.3	75.9	41.6
77.5°	65.5	65.5	67.6	71.8	72.8	73.8	78.0	83.2	73.8	51.0	28.1
80°	59.3	57.2	56.2	57.2	58.2	58.2	59.3	57.2	48.9	33.3	17.7
82.5°	55.1	52.0	48.9	47.8	46.8	45.8	44.7	39.5	32.2	19.8	9.4
85°	53.0	47.8	43.7	40.6	39.5	37.4	34.3	28.1	20.8	11.4	5.2
87.5°	48.9	43.7	39.5	35.4	33.3	31.2	26.0	19.8	12.5	6.2	2.1
90°	43.7	39.5	35.4	30.2	28.1	26.0	20.8	13.5	7.3	2.1	2.1
92.5°	38.5	35.4	31.2	27.0	23.9	21.8	15.6	9.4	4.2	2.1	2.1
95°	33.3	31.2	27.0	22.9	20.8	17.7	12.5	6.2	2.1	2.1	2.1
97.5°	29.1	27.0	22.9	18.7	16.6	14.6	8.3	3.1	2.1	2.1	2.1
100°	25.0	22.9	19.8	15.6	13.5	10.4	5.2	2.1	2.1	2.1	2.1
102.5°	20.8	18.7	15.6	11.4	9.4	7.3	3.1	2.1	2.1	2.1	2.1
105°	16.6	14.6	12.5	8.3	6.2	4.2	2.1	2.1	2.1	2.1	2.1
107.5°	14.6	11.4	9.4	6.2	4.2	3.1	2.1	2.1	2.1	2.1	2.1
110°	11.4	9.4	6.2	4.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1
112.5°	9.4	6.2	4.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
115°	7.3	4.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
117.5°	5.2	3.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
120°	3.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
122.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
125°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
127.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
130°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
132.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
135°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P273478

CATALOG NUMBER: 0.05-12W-835-90ASYM-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	871.5	871.5	871.5	871.5	871.5	871.5	871.5	871.5	871.5	871.5	871.5
1°	845.5	828.9	814.3	808.1	799.8	790.4	787.3	765.4	756.1	748.8	740.5
2°	819.5	791.4	765.4	759.2	739.4	718.6	706.2	675.0	656.2	642.7	627.1
3°	793.5	751.9	716.6	704.1	679.1	647.9	626.1	588.6	562.6	543.9	523.1
4°	764.4	712.4	666.6	647.9	619.8	580.3	551.2	509.6	478.4	456.6	433.7
5°	736.3	673.9	617.8	594.9	562.6	516.9	482.6	439.9	406.6	383.8	359.8
6°	707.2	634.4	569.9	542.9	509.6	458.6	422.2	378.6	345.3	322.4	300.6
7°	677.0	594.9	525.2	495.0	460.7	407.7	368.2	327.6	295.4	274.6	251.7
8°	647.9	557.4	482.6	451.4	416.0	361.9	323.4	285.0	252.7	233.0	216.3
9°	617.8	521.0	441.0	408.7	374.4	320.3	283.9	246.5	220.5	203.8	188.2
10°	587.6	485.7	403.5	371.3	338.0	286.0	249.6	218.4	194.5	179.9	167.4
11°	558.5	452.4	369.2	335.9	304.7	253.8	222.6	194.5	173.7	161.2	150.8
12°	529.4	420.2	338.0	305.8	274.6	228.8	199.7	175.8	158.1	147.7	138.3
13°	501.3	390.0	308.9	278.7	248.6	207.0	181.0	160.2	145.6	136.2	127.9
14°	473.2	359.8	283.9	251.7	226.7	189.3	166.4	147.7	135.2	126.9	119.6
15°	447.2	333.8	257.9	230.9	208.0	173.7	153.9	137.3	126.9	118.6	112.3
16°	421.2	308.9	237.1	213.2	191.4	161.2	142.5	129.0	119.6	111.3	106.1
17°	395.2	287.0	219.4	196.6	176.8	149.8	134.2	121.7	112.3	105.0	99.8
18°	372.3	266.2	202.8	182.0	164.3	140.4	125.8	114.4	106.1	99.8	93.6
19°	349.4	246.5	188.2	169.5	153.9	133.1	119.6	109.2	100.9	93.6	88.4
20°	327.6	229.8	175.8	159.1	144.6	125.8	113.4	103.0	94.6	88.4	83.2
21°	307.8	214.2	165.4	149.8	136.2	119.6	108.2	97.8	89.4	83.2	79.0
22°	289.1	200.7	156.0	141.4	130.0	114.4	103.0	92.6	85.3	79.0	74.9
23°	270.4	189.3	147.7	134.2	123.8	108.2	97.8	87.4	81.1	75.9	71.8
24°	252.7	178.9	140.4	127.9	118.6	104.0	92.6	83.2	77.0	71.8	67.6
25°	238.2	169.5	133.1	122.7	112.3	98.8	88.4	80.1	73.8	68.6	64.5
26°	225.7	160.2	126.9	117.5	108.2	93.6	84.2	75.9	70.7	65.5	61.4
27°	213.2	152.9	121.7	112.3	103.0	89.4	80.1	72.8	67.6	62.4	58.2
28°	202.8	145.6	116.5	107.1	98.8	86.3	77.0	69.7	64.5	59.3	55.1
29°	192.4	139.4	112.3	103.0	94.6	82.2	73.8	66.6	61.4	56.2	52.0
30°	183.0	133.1	107.1	98.8	90.5	79.0	70.7	63.4	58.2	53.0	47.8
32.5°	164.3	120.6	97.8	89.4	82.2	71.8	64.5	57.2	51.0	45.8	42.6
35°	148.7	110.2	88.4	81.1	74.9	65.5	57.2	51.0	44.7	40.6	37.4
37.5°	136.2	100.9	81.1	73.8	68.6	59.3	52.0	44.7	39.5	35.4	32.2
40°	124.8	93.6	74.9	68.6	62.4	54.1	45.8	39.5	34.3	31.2	28.1
42.5°	117.5	87.4	68.6	63.4	58.2	48.9	41.6	35.4	30.2	27.0	23.9
45°	111.3	82.2	64.5	58.2	53.0	44.7	37.4	31.2	27.0	23.9	20.8
47.5°	105.0	77.0	60.3	54.1	48.9	40.6	33.3	28.1	23.9	20.8	18.7
50°	98.8	71.8	56.2	49.9	44.7	36.4	30.2	25.0	20.8	17.7	15.6
52.5°	91.5	66.6	51.0	45.8	40.6	33.3	27.0	21.8	17.7	15.6	14.6
55°	84.2	61.4	46.8	41.6	37.4	30.2	23.9	18.7	14.6	13.5	12.5
57.5°	74.9	55.1	41.6	37.4	33.3	27.0	19.8	15.6	12.5	11.4	11.4
60°	67.6	48.9	36.4	33.3	30.2	22.9	16.6	12.5	10.4	9.4	9.4
62.5°	60.3	42.6	32.2	29.1	26.0	19.8	13.5	10.4	9.4	8.3	7.3
65°	53.0	36.4	28.1	25.0	21.8	15.6	10.4	8.3	7.3	6.2	6.2



TEST NUMBER: P273478

CATALOG NUMBER: 0.05-12W-835-90ASYM-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
67.5°	45.8	30.2	22.9	19.8	17.7	11.4	8.3	6.2	5.2	5.2	5.2
70°	37.4	25.0	17.7	15.6	12.5	8.3	6.2	5.2	5.2	5.2	5.2
72.5°	29.1	18.7	13.5	11.4	8.3	6.2	5.2	5.2	5.2	5.2	5.2
75°	20.8	13.5	8.3	7.3	5.2	4.2	4.2	4.2	5.2	5.2	5.2
77.5°	14.6	9.4	5.2	4.2	4.2	4.2	4.2	4.2	5.2	5.2	5.2
80°	9.4	5.2	3.1	4.2	4.2	4.2	4.2	4.2	4.2	5.2	5.2
82.5°	5.2	3.1	3.1	3.1	3.1	4.2	4.2	4.2	4.2	4.2	4.2
85°	2.1	3.1	3.1	3.1	3.1	3.1	4.2	4.2	4.2	4.2	4.2
87.5°	2.1	2.1	3.1	3.1	3.1	3.1	3.1	3.1	4.2	4.2	4.2
90°	2.1	2.1	2.1	3.1	3.1	3.1	3.1	3.1	3.1	4.2	4.2
92.5°	2.1	2.1	2.1	2.1	2.1	3.1	3.1	3.1	3.1	3.1	3.1
95°	2.1	2.1	2.1	2.1	2.1	2.1	3.1	3.1	3.1	3.1	3.1
97.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.1	3.1	3.1	3.1
100°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.1	3.1
102.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
105°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
107.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
110°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
112.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
115°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
117.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
120°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
122.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
125°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
127.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
130°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
132.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
135°	2.1	2.1	2.1	3.1	2.1	3.1	3.1	3.1	2.1	2.1	2.1
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P273478

CATALOG NUMBER: 0.05-12W-835-90ASYM-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P273478

CATALOG NUMBER: 0.05-12W-835-90ASYM-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	871.5	871.5	871.5	871.5	871.5	871.5	871.5	871.5
1°	750.9	735.3	731.1	708.2	709.3	703.0	706.2	706.2
2°	630.2	611.5	604.2	582.4	580.3	572.0	573.0	572.0
3°	521.0	501.3	493.0	472.2	468.0	459.7	459.7	458.6
4°	427.4	407.7	398.3	381.7	376.5	368.2	367.1	364.0
5°	351.5	332.8	323.4	311.0	304.7	297.4	296.4	294.3
6°	290.2	274.6	265.2	253.8	247.5	241.3	241.3	239.2
7°	242.3	228.8	221.5	213.2	208.0	202.8	201.8	200.7
8°	207.0	192.4	189.3	183.0	178.9	174.7	173.7	171.6
9°	181.0	168.5	166.4	161.2	157.0	153.9	152.9	151.8
10°	160.2	150.8	148.7	144.6	141.4	138.3	138.3	136.2
11°	143.5	137.3	135.2	132.1	129.0	126.9	126.9	125.8
12°	132.1	126.9	124.8	122.7	119.6	117.5	117.5	116.5
13°	122.7	117.5	116.5	114.4	111.3	109.2	109.2	108.2
14°	114.4	110.2	108.2	107.1	104.0	103.0	101.9	100.9
15°	108.2	103.0	101.9	99.8	96.7	95.7	94.6	93.6
16°	100.9	96.7	94.6	92.6	90.5	89.4	88.4	88.4
17°	94.6	90.5	89.4	88.4	85.3	84.2	83.2	83.2
18°	89.4	85.3	84.2	83.2	80.1	79.0	79.0	78.0
19°	84.2	81.1	79.0	78.0	75.9	74.9	73.8	73.8
20°	80.1	77.0	74.9	73.8	71.8	70.7	70.7	69.7
21°	75.9	72.8	70.7	69.7	67.6	66.6	66.6	65.5
22°	71.8	68.6	67.6	66.6	64.5	63.4	62.4	62.4
23°	68.6	65.5	63.4	62.4	60.3	59.3	58.2	58.2
24°	64.5	61.4	60.3	59.3	57.2	55.1	55.1	54.1
25°	61.4	58.2	56.2	55.1	53.0	52.0	51.0	51.0
26°	58.2	54.1	53.0	52.0	49.9	48.9	47.8	47.8
27°	54.1	51.0	49.9	48.9	46.8	45.8	44.7	44.7
28°	51.0	47.8	46.8	45.8	43.7	42.6	42.6	41.6
29°	47.8	44.7	43.7	42.6	41.6	40.6	39.5	39.5
30°	44.7	42.6	41.6	40.6	39.5	37.4	37.4	36.4
32.5°	39.5	36.4	35.4	35.4	33.3	32.2	32.2	31.2
35°	34.3	31.2	30.2	30.2	29.1	28.1	28.1	27.0
37.5°	29.1	27.0	27.0	26.0	25.0	25.0	23.9	25.0
40°	26.0	23.9	22.9	22.9	21.8	21.8	21.8	21.8
42.5°	21.8	20.8	20.8	19.8	19.8	19.8	19.8	19.8
45°	19.8	18.7	18.7	18.7	18.7	18.7	18.7	18.7
47.5°	17.7	16.6	16.6	16.6	16.6	16.6	16.6	16.6
50°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
52.5°	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
55°	12.5	12.5	11.4	11.4	11.4	11.4	11.4	11.4
57.5°	10.4	10.4	9.4	9.4	9.4	9.4	8.3	8.3
60°	8.3	7.3	7.3	7.3	6.2	6.2	6.2	6.2
62.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
65°	5.2	5.2	6.2	6.2	6.2	6.2	6.2	6.2



TEST NUMBER: P273478

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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
67.5°	5.2	5.2	5.2	5.2	6.2	6.2	6.2	6.2
70°	5.2	5.2	6.2	6.2	6.2	6.2	6.2	6.2
72.5°	5.2	5.2	5.2	5.2	6.2	6.2	6.2	6.2
75°	5.2	5.2	5.2	5.2	5.2	6.2	5.2	5.2
77.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
80°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
82.5°	4.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
85°	4.2	4.2	4.2	5.2	5.2	5.2	5.2	5.2
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
90°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
92.5°	3.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2
95°	3.1	3.1	3.1	3.1	3.1	4.2	4.2	4.2
97.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
100°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
102.5°	2.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
105°	2.1	2.1	2.1	2.1	3.1	3.1	3.1	3.1
107.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
110°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
112.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
115°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
117.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
120°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
122.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
125°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
127.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
130°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
132.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
135°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P273478

CATALOG NUMBER: 0.05-12W-835-90ASYM-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)