

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: P273484

Luminaire Tested: **0.05-12W-840-90ASYM-STD-UNV-AN-3F0**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P273484  
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-840-90ASYM-STD-UNV-AN-3F0  
Description: iO LIGHTING SERIES 2.0 LINEAR LED LUMINAIRE. 90 DEGREE ASYMMETRIC OPTIC.  
V2 HIGH OUTPUT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1929.8 lumens  
Efficiency: N/A  
Efficacy: 71.7 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

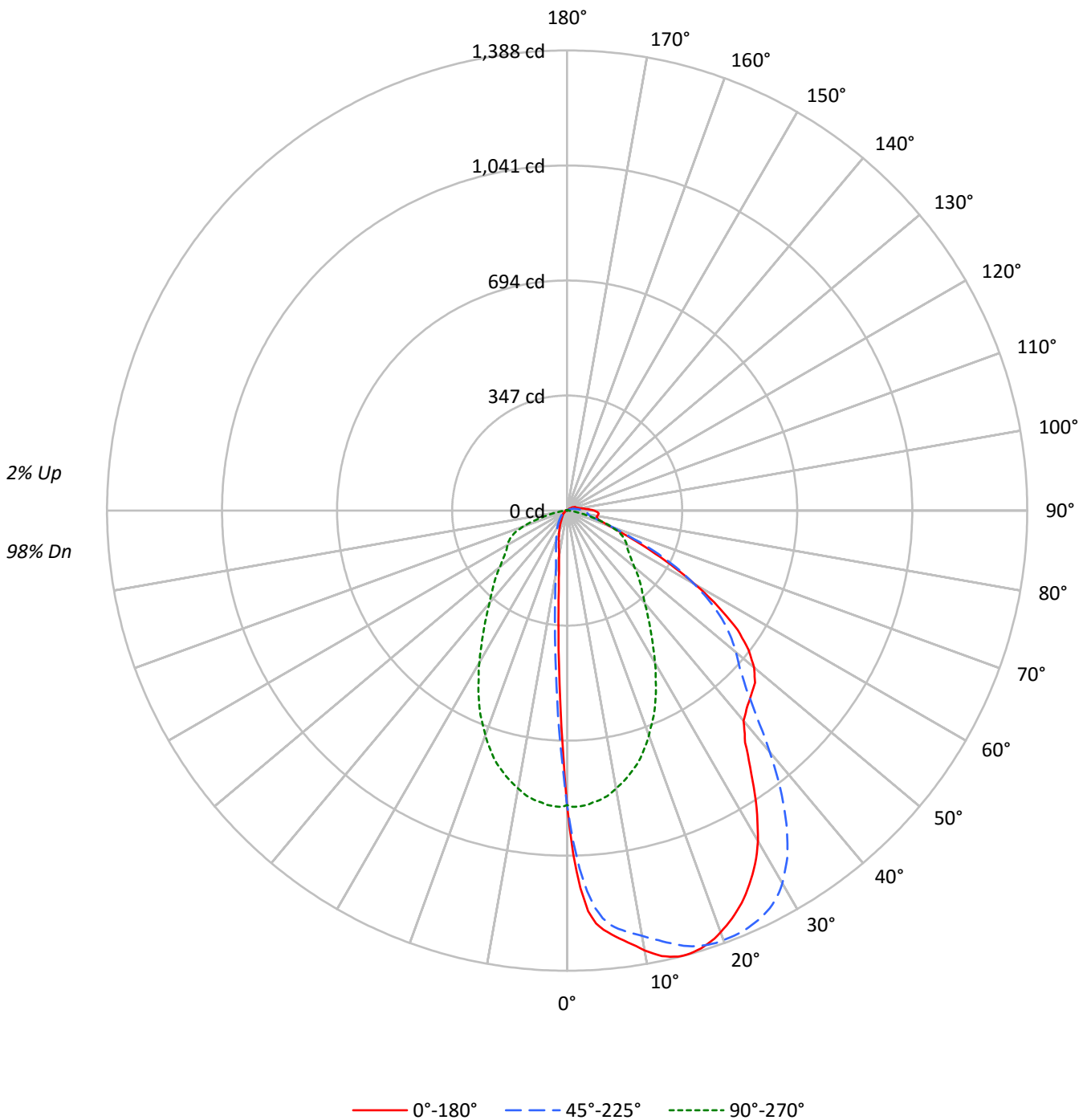
Input Watts (W): 26.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	15736	15736	15736
5°	22581	15719	5335
10°	24235	15311	2498
15°	25446	14638	1750
20°	25517	13588	1338
25°	24944	12327	1014
30°	23548	10841	759
35°	20929	9489	597
40°	19145	8431	516
45°	19678	7834	478
50°	20272	7303	438
55°	19380	7072	361
60°	15847	7362	227
65°	10797	7775	268
70°	6920	7355	331
75°	6529	5297	363
80°	9406	3458	541
85°	19390	2378	1077



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.2	4.0
10°-20°	212.7	11.0
20°-30°	321.6	16.7
30°-40°	369.7	19.2
40°-50°	355.1	18.4
50°-60°	296.6	15.4
60°-70°	160.5	8.3
70°-80°	58.9	3.1
80°-90°	34.9	1.8
90°-100°	20.6	1.1
100°-110°	10.8	0.6
110°-120°	6.6	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°	611.5	31.7
0°-40°	981.1	50.8
0°-60°	1632.8	84.6
0°-90°	1887.1	97.8
90°-120°	38.0	2.0
90°-150°	42.7	2.2
90°-180°	43.0	2.2
0°-180°	1929.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	888	888	888	888	888	
5°	1270	1235	884	414	300	123
15°	1388	1359	798	129	95	390
25°	1276	1363	631	75	52	584
35°	968	1153	439	46	28	609
45°	786	765	313	28	19	607
55°	628	571	229	15	12	547
65°	258	288	186	7	6	267
75°	95	81	77	5	5	108
85°	95	59	12	4	5	76
90°	82	49	2	3	4	44
95°	57	37	2	3	4	43
105°	32	19	2	2	3	35
115°	25	10	2	2	2	24
125°	13	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°	888.3	888.3	888.3	888.3	888.3	888.3	888.3	888.3	888.3	888.3	888.3
1°	1035.6	1032.4	1035.6	1019.7	1020.8	1026.1	1026.1	1016.5	1021.8	999.6	995.3
2°	1139.5	1137.4	1137.4	1123.6	1123.6	1127.8	1125.7	1114.1	1114.1	1090.7	1081.2
3°	1209.5	1206.3	1205.2	1194.6	1194.6	1196.7	1194.6	1185.1	1180.8	1160.7	1149.0
4°	1248.7	1247.6	1244.4	1237.0	1237.0	1239.1	1237.0	1230.7	1227.5	1210.5	1199.9
5°	1269.9	1269.9	1265.6	1260.3	1260.3	1262.5	1259.3	1256.1	1251.9	1242.3	1234.9
6°	1285.8	1283.7	1282.6	1276.2	1276.2	1277.3	1275.2	1272.0	1268.8	1262.5	1257.2
7°	1300.6	1298.5	1296.4	1290.0	1291.1	1290.0	1287.9	1283.7	1281.5	1276.2	1270.9
8°	1315.5	1313.3	1312.3	1304.9	1304.9	1303.8	1301.7	1296.4	1294.3	1287.9	1282.6
9°	1330.3	1328.2	1327.1	1319.7	1319.7	1318.6	1315.5	1311.2	1305.9	1298.5	1292.1
10°	1347.3	1345.1	1344.1	1336.7	1335.6	1333.5	1330.3	1326.1	1318.6	1311.2	1302.7
11°	1361.0	1361.0	1356.8	1351.5	1349.4	1348.3	1345.1	1340.9	1332.4	1322.9	1314.4
12°	1373.8	1373.8	1369.5	1364.2	1362.1	1361.0	1357.9	1353.6	1344.1	1336.7	1325.0
13°	1381.2	1381.2	1378.0	1372.7	1372.7	1371.6	1368.5	1365.3	1355.7	1348.3	1336.7
14°	1386.5	1386.5	1383.3	1378.0	1379.1	1378.0	1375.9	1373.8	1365.3	1358.9	1348.3
15°	1387.5	1388.6	1384.4	1380.1	1382.2	1381.2	1380.1	1378.0	1373.8	1367.4	1358.9
16°	1385.4	1387.5	1383.3	1379.1	1382.2	1381.2	1381.2	1379.1	1378.0	1373.8	1367.4
17°	1381.2	1383.3	1380.1	1375.9	1380.1	1379.1	1379.1	1379.1	1380.1	1376.9	1372.7
18°	1373.8	1376.9	1374.8	1371.6	1375.9	1376.9	1376.9	1375.9	1380.1	1379.1	1376.9
19°	1365.3	1368.5	1367.4	1365.3	1369.5	1371.6	1371.6	1372.7	1378.0	1379.1	1379.1
20°	1353.6	1357.9	1356.8	1355.7	1362.1	1363.2	1365.3	1367.4	1374.8	1376.9	1379.1
21°	1340.9	1346.2	1346.2	1345.1	1351.5	1354.7	1357.9	1361.0	1369.5	1373.8	1378.0
22°	1327.1	1332.4	1332.4	1332.4	1339.8	1344.1	1347.3	1354.7	1364.2	1371.6	1376.9
23°	1311.2	1316.5	1316.5	1317.6	1326.1	1331.4	1335.6	1344.1	1356.8	1367.4	1373.8
24°	1295.3	1299.6	1300.6	1301.7	1311.2	1316.5	1320.8	1331.4	1347.3	1361.0	1368.5
25°	1276.2	1281.5	1281.5	1283.7	1294.3	1299.6	1304.9	1317.6	1335.6	1351.5	1363.2
26°	1254.0	1260.3	1262.5	1264.6	1275.2	1280.5	1286.8	1300.6	1321.8	1338.8	1355.7
27°	1231.7	1238.1	1241.3	1241.3	1255.0	1260.3	1267.8	1282.6	1307.0	1325.0	1346.2
28°	1207.3	1213.7	1213.7	1219.0	1231.7	1238.1	1245.5	1262.5	1287.9	1308.0	1333.5
29°	1180.8	1187.2	1187.2	1193.6	1206.3	1213.7	1221.1	1240.2	1263.5	1289.0	1317.6
30°	1151.2	1157.5	1158.6	1163.9	1177.7	1185.1	1193.6	1214.8	1238.1	1266.7	1298.5
32.5°	1064.2	1071.7	1071.7	1083.3	1093.9	1106.6	1113.0	1136.3	1167.1	1198.9	1237.0
35°	967.8	975.2	974.1	980.5	997.5	1004.9	1017.6	1042.0	1073.8	1113.0	1153.3
37.5°	881.9	886.2	884.0	889.3	901.0	912.7	922.2	941.3	973.1	1014.4	1055.8
40°	827.9	828.9	826.8	825.7	831.0	835.3	840.6	852.2	875.6	910.5	950.8
42.5°	803.5	800.3	797.1	793.9	790.8	790.8	788.6	790.8	799.2	819.4	848.0
45°	785.5	784.4	780.2	775.9	769.6	767.4	763.2	754.7	749.4	753.7	765.3
47.5°	768.5	765.3	761.1	756.8	749.4	746.2	738.8	726.1	716.6	710.2	707.0
50°	735.6	731.4	727.2	724.0	717.6	714.4	707.0	695.4	685.8	674.2	664.6
52.5°	689.0	683.7	681.6	678.4	672.0	667.8	661.4	653.0	644.5	636.0	621.2
55°	627.5	624.3	622.2	623.3	615.9	613.7	609.5	598.9	591.5	583.0	571.3
57.5°	541.7	539.5	540.6	545.9	544.8	545.9	545.9	540.6	534.2	523.6	509.9
60°	447.3	445.2	447.3	452.6	453.7	456.9	460.0	464.3	465.3	456.9	442.0
62.5°	349.8	346.6	347.7	350.9	350.9	355.1	359.3	366.8	374.2	375.2	371.0
65°	257.6	254.4	254.4	255.5	254.4	257.6	259.7	261.8	270.3	282.0	288.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
67.5°	184.4	182.3	182.3	182.3	182.3	183.4	182.3	184.4	188.7	196.1	204.6
70°	133.6	132.5	132.5	132.5	131.4	132.5	133.6	133.6	135.7	138.9	143.1
72.5°	108.1	107.1	107.1	106.0	103.9	103.9	102.8	101.8	100.7	101.8	103.9
75°	95.4	94.3	94.3	93.3	91.2	90.1	88.0	85.9	83.7	81.6	80.6
77.5°	91.2	90.1	90.1	88.0	85.9	83.7	82.7	78.4	75.3	72.1	68.9
80°	92.2	90.1	90.1	88.0	84.8	83.7	81.6	77.4	73.1	67.8	63.6
82.5°	94.3	93.3	93.3	90.1	86.9	84.8	82.7	78.4	73.1	67.8	61.5
85°	95.4	93.3	93.3	90.1	86.9	84.8	81.6	76.3	71.0	65.7	59.4
87.5°	90.1	88.0	88.0	84.8	80.6	79.5	76.3	71.0	66.8	60.4	55.1
90°	81.6	78.4	78.4	75.3	72.1	70.0	67.8	62.5	58.3	54.1	48.8
92.5°	68.9	66.8	66.8	63.6	61.5	59.4	57.2	53.0	49.8	46.6	43.5
95°	57.2	55.1	55.1	53.0	50.9	49.8	47.7	44.5	42.4	39.2	37.1
97.5°	47.7	45.6	45.6	44.5	42.4	41.3	40.3	38.2	36.0	33.9	31.8
100°	40.3	39.2	39.2	38.2	36.0	35.0	33.9	32.9	30.7	28.6	27.6
102.5°	35.0	33.9	33.9	32.9	31.8	30.7	29.7	28.6	26.5	24.4	23.3
105°	31.8	30.7	30.7	29.7	28.6	27.6	26.5	24.4	22.3	21.2	19.1
107.5°	29.7	28.6	28.6	27.6	25.4	25.4	24.4	22.3	20.1	18.0	17.0
110°	27.6	26.5	26.5	25.4	24.4	23.3	22.3	21.2	18.0	15.9	13.8
112.5°	26.5	25.4	25.4	24.4	23.3	22.3	21.2	19.1	17.0	14.8	11.7
115°	25.4	24.4	24.4	23.3	21.2	20.1	19.1	17.0	14.8	11.7	9.5
117.5°	22.3	22.3	22.3	20.1	19.1	18.0	17.0	14.8	12.7	9.5	7.4
120°	20.1	19.1	19.1	18.0	15.9	14.8	14.8	12.7	9.5	7.4	5.3
122.5°	17.0	15.9	15.9	14.8	13.8	12.7	11.7	9.5	7.4	5.3	4.2
125°	12.7	12.7	12.7	11.7	10.6	9.5	8.5	7.4	5.3	4.2	2.1
127.5°	10.6	9.5	9.5	8.5	7.4	7.4	6.4	5.3	3.2	2.1	2.1
130°	7.4	7.4	6.4	6.4	5.3	4.2	3.2	2.1	2.1	2.1	2.1
132.5°	4.2	4.2	4.2	3.2	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°	888.3	888.3	888.3	888.3	888.3	888.3	888.3	888.3	888.3	888.3	888.3
1°	989.0	965.7	957.2	950.8	943.4	932.8	926.4	919.0	905.2	893.6	879.8
2°	1067.4	1037.7	1022.9	1005.9	995.3	978.4	962.5	942.3	918.0	893.6	866.0
3°	1132.1	1100.3	1078.0	1054.7	1042.0	1020.8	994.3	964.6	928.6	891.5	850.1
4°	1183.0	1151.2	1125.7	1098.2	1083.3	1060.0	1025.0	985.8	937.0	889.3	835.3
5°	1220.1	1191.4	1166.0	1136.3	1120.4	1096.0	1053.6	1002.8	945.5	884.0	818.3
6°	1245.5	1220.1	1196.7	1169.2	1153.3	1127.8	1080.1	1021.8	954.0	880.9	800.3
7°	1262.5	1241.3	1221.1	1196.7	1179.8	1156.5	1104.5	1039.9	960.4	875.6	782.3
8°	1275.2	1256.1	1239.1	1217.9	1203.1	1179.8	1126.8	1056.8	966.7	869.2	764.3
9°	1283.7	1265.6	1251.9	1232.8	1220.1	1199.9	1145.9	1069.5	969.9	860.7	743.1
10°	1294.3	1274.1	1261.4	1245.5	1233.8	1216.9	1163.9	1083.3	974.1	851.2	721.9
11°	1304.9	1282.6	1269.9	1255.0	1244.4	1229.6	1178.7	1095.0	977.3	841.6	699.6
12°	1314.4	1291.1	1278.4	1263.5	1254.0	1239.1	1191.4	1106.6	980.5	832.1	678.4
13°	1326.1	1298.5	1285.8	1272.0	1261.4	1247.6	1203.1	1117.2	982.6	821.5	656.1
14°	1335.6	1310.2	1293.2	1278.4	1268.8	1255.0	1212.6	1127.8	983.7	809.8	633.9
15°	1345.1	1319.7	1300.6	1283.7	1274.1	1260.3	1221.1	1135.3	984.7	798.2	610.6
16°	1354.7	1329.2	1308.0	1289.0	1280.5	1266.7	1228.5	1142.7	984.7	785.5	587.2
17°	1364.2	1339.8	1315.5	1295.3	1286.8	1274.1	1234.9	1150.1	983.7	770.6	562.9
18°	1372.7	1348.3	1326.1	1302.7	1294.3	1280.5	1241.3	1156.5	981.6	754.7	540.6
19°	1376.9	1355.7	1333.5	1311.2	1299.6	1286.8	1247.6	1162.8	978.4	738.8	516.2
20°	1379.1	1362.1	1340.9	1317.6	1303.8	1291.1	1252.9	1168.1	974.1	720.8	491.8
21°	1380.1	1367.4	1346.2	1323.9	1310.2	1296.4	1258.2	1172.4	969.9	702.8	469.6
22°	1381.2	1370.6	1353.6	1331.4	1315.5	1301.7	1263.5	1178.7	967.8	685.8	447.3
23°	1379.1	1371.6	1356.8	1335.6	1321.8	1305.9	1268.8	1184.0	963.5	669.9	425.1
24°	1375.9	1372.7	1361.0	1340.9	1328.2	1311.2	1274.1	1188.3	958.2	649.8	403.9
25°	1373.8	1372.7	1362.1	1344.1	1333.5	1317.6	1277.3	1191.4	951.9	630.7	383.7
26°	1369.5	1371.6	1364.2	1349.4	1337.7	1321.8	1281.5	1193.6	943.4	610.6	363.6
27°	1363.2	1368.5	1366.3	1354.7	1343.0	1328.2	1286.8	1195.7	933.9	589.4	345.6
28°	1355.7	1365.3	1367.4	1358.9	1348.3	1333.5	1293.2	1199.9	924.3	568.2	327.5
29°	1346.2	1360.0	1365.3	1362.1	1354.7	1340.9	1298.5	1205.2	913.7	550.1	311.6
30°	1332.4	1352.6	1363.2	1364.2	1358.9	1346.2	1303.8	1207.3	904.2	530.0	297.9
32.5°	1283.7	1322.9	1348.3	1367.4	1368.5	1360.0	1319.7	1214.8	875.6	481.2	265.0
35°	1209.5	1268.8	1317.6	1356.8	1367.4	1372.7	1339.8	1223.2	845.9	438.8	234.3
37.5°	1122.5	1187.2	1261.4	1326.1	1351.5	1367.4	1355.7	1230.7	809.8	398.6	214.1
40°	1016.5	1088.6	1176.6	1270.9	1308.0	1346.2	1362.1	1232.8	771.7	364.6	196.1
42.5°	906.3	979.4	1072.7	1184.0	1240.2	1297.4	1352.6	1225.4	726.1	336.0	182.3
45°	804.5	867.1	958.2	1081.2	1148.0	1223.2	1320.8	1202.0	680.5	312.7	171.7
47.5°	720.8	762.1	840.6	963.5	1036.7	1130.0	1275.2	1170.2	631.8	289.4	162.2
50°	661.4	679.5	732.5	837.4	908.4	1009.1	1206.3	1136.3	588.3	265.0	150.5
52.5°	612.7	613.7	639.2	712.3	777.0	874.5	1108.8	1088.6	553.3	244.9	138.9
55°	559.7	552.3	560.7	605.3	649.8	729.3	978.4	1030.3	526.8	229.0	126.1
57.5°	501.4	487.6	487.6	509.9	537.4	596.8	814.1	943.4	503.5	216.2	115.5
60°	432.5	416.6	411.3	422.9	438.8	479.1	660.4	824.7	477.0	207.8	107.1
62.5°	358.3	343.4	338.1	342.4	349.8	378.4	509.9	680.5	441.0	198.2	98.6
65°	285.1	272.4	265.0	267.1	270.3	292.6	381.6	523.6	390.1	185.5	91.2



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
67.5°	212.0	209.9	205.6	206.7	210.9	219.4	280.9	379.5	320.1	168.5	81.6
70°	150.5	155.8	157.9	159.0	160.1	165.4	201.4	263.9	238.5	142.0	71.0
72.5°	107.1	112.4	118.7	121.9	123.0	125.1	145.2	180.2	168.5	110.2	56.2
75°	81.6	83.7	88.0	94.3	94.3	96.5	106.0	121.9	114.5	77.4	42.4
77.5°	66.8	66.8	68.9	73.1	74.2	75.3	79.5	84.8	75.3	51.9	28.6
80°	60.4	58.3	57.2	58.3	59.4	59.4	60.4	58.3	49.8	33.9	18.0
82.5°	56.2	53.0	49.8	48.8	47.7	46.6	45.6	40.3	32.9	20.1	9.5
85°	54.1	48.8	44.5	41.3	40.3	38.2	35.0	28.6	21.2	11.7	5.3
87.5°	49.8	44.5	40.3	36.0	33.9	31.8	26.5	20.1	12.7	6.4	2.1
90°	44.5	40.3	36.0	30.7	28.6	26.5	21.2	13.8	7.4	2.1	2.1
92.5°	39.2	36.0	31.8	27.6	24.4	22.3	15.9	9.5	4.2	2.1	2.1
95°	33.9	31.8	27.6	23.3	21.2	18.0	12.7	6.4	2.1	2.1	2.1
97.5°	29.7	27.6	23.3	19.1	17.0	14.8	8.5	3.2	2.1	2.1	2.1
100°	25.4	23.3	20.1	15.9	13.8	10.6	5.3	2.1	2.1	2.1	2.1
102.5°	21.2	19.1	15.9	11.7	9.5	7.4	3.2	2.1	2.1	2.1	2.1
105°	17.0	14.8	12.7	8.5	6.4	4.2	2.1	2.1	2.1	2.1	2.1
107.5°	14.8	11.7	9.5	6.4	4.2	3.2	2.1	2.1	2.1	2.1	2.1
110°	11.7	9.5	6.4	4.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1
112.5°	9.5	6.4	4.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
115°	7.4	4.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
117.5°	5.3	3.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
120°	3.2	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: P273484

CATALOG NUMBER: 0.05-12W-840-90ASYM-STD-UNV-AN-3F0

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	888.3	888.3	888.3	888.3	888.3	888.3	888.3	888.3	888.3	888.3	888.3
1°	861.8	844.8	830.0	823.6	815.1	805.6	802.4	780.2	770.6	763.2	754.7
2°	835.3	806.7	780.2	773.8	753.7	732.5	719.7	687.9	668.9	655.1	639.2
3°	808.8	766.4	730.3	717.6	692.2	660.4	638.1	600.0	573.5	554.4	533.2
4°	779.1	726.1	679.5	660.4	631.8	591.5	561.8	519.4	487.6	465.3	442.0
5°	750.5	686.9	629.6	606.3	573.5	526.8	491.8	448.4	414.5	391.1	366.8
6°	720.8	646.6	580.9	553.3	519.4	467.5	430.4	385.8	351.9	328.6	306.3
7°	690.1	606.3	535.3	504.6	469.6	415.5	375.2	333.9	301.0	279.8	256.5
8°	660.4	568.2	491.8	460.0	424.0	368.9	329.7	290.4	257.6	237.4	220.5
9°	629.6	531.1	449.4	416.6	381.6	326.5	289.4	251.2	224.7	207.8	191.9
10°	598.9	495.0	411.3	378.4	344.5	291.5	254.4	222.6	198.2	183.4	170.7
11°	569.2	461.1	376.3	342.4	310.6	258.6	226.8	198.2	177.0	164.3	153.7
12°	539.5	428.2	344.5	311.6	279.8	233.2	203.5	179.1	161.1	150.5	141.0
13°	510.9	397.5	314.8	284.1	253.3	210.9	184.4	163.2	148.4	138.9	130.4
14°	482.3	366.8	289.4	256.5	231.1	192.9	169.6	150.5	137.8	129.3	121.9
15°	455.8	340.3	262.9	235.3	212.0	177.0	156.9	139.9	129.3	120.8	114.5
16°	429.3	314.8	241.7	217.3	195.0	164.3	145.2	131.4	121.9	113.4	108.1
17°	402.8	292.6	223.7	200.3	180.2	152.6	136.7	124.0	114.5	107.1	101.8
18°	379.5	271.4	206.7	185.5	167.5	143.1	128.3	116.6	108.1	101.8	95.4
19°	356.2	251.2	191.9	172.8	156.9	135.7	121.9	111.3	102.8	95.4	90.1
20°	333.9	234.3	179.1	162.2	147.3	128.3	115.5	104.9	96.5	90.1	84.8
21°	313.8	218.4	168.5	152.6	138.9	121.9	110.2	99.6	91.2	84.8	80.6
22°	294.7	204.6	159.0	144.2	132.5	116.6	104.9	94.3	86.9	80.6	76.3
23°	275.6	192.9	150.5	136.7	126.1	110.2	99.6	89.0	82.7	77.4	73.1
24°	257.6	182.3	143.1	130.4	120.8	106.0	94.3	84.8	78.4	73.1	68.9
25°	242.7	172.8	135.7	125.1	114.5	100.7	90.1	81.6	75.3	70.0	65.7
26°	230.0	163.2	129.3	119.8	110.2	95.4	85.9	77.4	72.1	66.8	62.5
27°	217.3	155.8	124.0	114.5	104.9	91.2	81.6	74.2	68.9	63.6	59.4
28°	206.7	148.4	118.7	109.2	100.7	88.0	78.4	71.0	65.7	60.4	56.2
29°	196.1	142.0	114.5	104.9	96.5	83.7	75.3	67.8	62.5	57.2	53.0
30°	186.6	135.7	109.2	100.7	92.2	80.6	72.1	64.7	59.4	54.1	48.8
32.5°	167.5	123.0	99.6	91.2	83.7	73.1	65.7	58.3	51.9	46.6	43.5
35°	151.6	112.4	90.1	82.7	76.3	66.8	58.3	51.9	45.6	41.3	38.2
37.5°	138.9	102.8	82.7	75.3	70.0	60.4	53.0	45.6	40.3	36.0	32.9
40°	127.2	95.4	76.3	70.0	63.6	55.1	46.6	40.3	35.0	31.8	28.6
42.5°	119.8	89.0	70.0	64.7	59.4	49.8	42.4	36.0	30.7	27.6	24.4
45°	113.4	83.7	65.7	59.4	54.1	45.6	38.2	31.8	27.6	24.4	21.2
47.5°	107.1	78.4	61.5	55.1	49.8	41.3	33.9	28.6	24.4	21.2	19.1
50°	100.7	73.1	57.2	50.9	45.6	37.1	30.7	25.4	21.2	18.0	15.9
52.5°	93.3	67.8	51.9	46.6	41.3	33.9	27.6	22.3	18.0	15.9	14.8
55°	85.9	62.5	47.7	42.4	38.2	30.7	24.4	19.1	14.8	13.8	12.7
57.5°	76.3	56.2	42.4	38.2	33.9	27.6	20.1	15.9	12.7	11.7	11.7
60°	68.9	49.8	37.1	33.9	30.7	23.3	17.0	12.7	10.6	9.5	9.5
62.5°	61.5	43.5	32.9	29.7	26.5	20.1	13.8	10.6	9.5	8.5	7.4
65°	54.1	37.1	28.6	25.4	22.3	15.9	10.6	8.5	7.4	6.4	6.4



TEST NUMBER: P273484

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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
67.5°	46.6	30.7	23.3	20.1	18.0	11.7	8.5	6.4	5.3	5.3	5.3
70°	38.2	25.4	18.0	15.9	12.7	8.5	6.4	5.3	5.3	5.3	5.3
72.5°	29.7	19.1	13.8	11.7	8.5	6.4	5.3	5.3	5.3	5.3	5.3
75°	21.2	13.8	8.5	7.4	5.3	4.2	4.2	4.2	5.3	5.3	5.3
77.5°	14.8	9.5	5.3	4.2	4.2	4.2	4.2	4.2	5.3	5.3	5.3
80°	9.5	5.3	3.2	4.2	4.2	4.2	4.2	4.2	4.2	5.3	5.3
82.5°	5.3	3.2	3.2	3.2	3.2	4.2	4.2	4.2	4.2	4.2	4.2
85°	2.1	3.2	3.2	3.2	3.2	3.2	4.2	4.2	4.2	4.2	4.2
87.5°	2.1	2.1	3.2	3.2	3.2	3.2	3.2	3.2	4.2	4.2	4.2
90°	2.1	2.1	2.1	3.2	3.2	3.2	3.2	3.2	3.2	4.2	4.2
92.5°	2.1	2.1	2.1	2.1	2.1	3.2	3.2	3.2	3.2	3.2	3.2
95°	2.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2	3.2	3.2	3.2
97.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2	3.2	3.2
100°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2
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	3.2	2.1	3.2	3.2	3.2	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: P273484

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**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: P273484

CATALOG NUMBER: 0.05-12W-840-90ASYM-STD-UNV-AN-3F0

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	888.3	888.3	888.3	888.3	888.3	888.3	888.3	888.3
1°	765.3	749.4	745.2	721.9	722.9	716.6	719.7	719.7
2°	642.4	623.3	615.9	593.6	591.5	583.0	584.1	583.0
3°	531.1	510.9	502.4	481.2	477.0	468.5	468.5	467.5
4°	435.7	415.5	406.0	389.0	383.7	375.2	374.2	371.0
5°	358.3	339.2	329.7	316.9	310.6	303.2	302.1	300.0
6°	295.7	279.8	270.3	258.6	252.3	245.9	245.9	243.8
7°	247.0	233.2	225.8	217.3	212.0	206.7	205.6	204.6
8°	210.9	196.1	192.9	186.6	182.3	178.1	177.0	174.9
9°	184.4	171.7	169.6	164.3	160.1	156.9	155.8	154.8
10°	163.2	153.7	151.6	147.3	144.2	141.0	141.0	138.9
11°	146.3	139.9	137.8	134.6	131.4	129.3	129.3	128.3
12°	134.6	129.3	127.2	125.1	121.9	119.8	119.8	118.7
13°	125.1	119.8	118.7	116.6	113.4	111.3	111.3	110.2
14°	116.6	112.4	110.2	109.2	106.0	104.9	103.9	102.8
15°	110.2	104.9	103.9	101.8	98.6	97.5	96.5	95.4
16°	102.8	98.6	96.5	94.3	92.2	91.2	90.1	90.1
17°	96.5	92.2	91.2	90.1	86.9	85.9	84.8	84.8
18°	91.2	86.9	85.9	84.8	81.6	80.6	80.6	79.5
19°	85.9	82.7	80.6	79.5	77.4	76.3	75.3	75.3
20°	81.6	78.4	76.3	75.3	73.1	72.1	72.1	71.0
21°	77.4	74.2	72.1	71.0	68.9	67.8	67.8	66.8
22°	73.1	70.0	68.9	67.8	65.7	64.7	63.6	63.6
23°	70.0	66.8	64.7	63.6	61.5	60.4	59.4	59.4
24°	65.7	62.5	61.5	60.4	58.3	56.2	56.2	55.1
25°	62.5	59.4	57.2	56.2	54.1	53.0	51.9	51.9
26°	59.4	55.1	54.1	53.0	50.9	49.8	48.8	48.8
27°	55.1	51.9	50.9	49.8	47.7	46.6	45.6	45.6
28°	51.9	48.8	47.7	46.6	44.5	43.5	43.5	42.4
29°	48.8	45.6	44.5	43.5	42.4	41.3	40.3	40.3
30°	45.6	43.5	42.4	41.3	40.3	38.2	38.2	37.1
32.5°	40.3	37.1	36.0	36.0	33.9	32.9	32.9	31.8
35°	35.0	31.8	30.7	30.7	29.7	28.6	28.6	27.6
37.5°	29.7	27.6	27.6	26.5	25.4	25.4	24.4	25.4
40°	26.5	24.4	23.3	23.3	22.3	22.3	22.3	22.3
42.5°	22.3	21.2	21.2	20.1	20.1	20.1	20.1	20.1
45°	20.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1
47.5°	18.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
50°	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
52.5°	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
55°	12.7	12.7	11.7	11.7	11.7	11.7	11.7	11.7
57.5°	10.6	10.6	9.5	9.5	9.5	9.5	8.5	8.5
60°	8.5	7.4	7.4	7.4	6.4	6.4	6.4	6.4
62.5°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
65°	5.3	5.3	6.4	6.4	6.4	6.4	6.4	6.4



TEST NUMBER: P273484

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**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
67.5°	5.3	5.3	5.3	5.3	6.4	6.4	6.4	6.4
70°	5.3	5.3	6.4	6.4	6.4	6.4	6.4	6.4
72.5°	5.3	5.3	5.3	5.3	6.4	6.4	6.4	6.4
75°	5.3	5.3	5.3	5.3	5.3	6.4	5.3	5.3
77.5°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
80°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
82.5°	4.2	5.3	5.3	5.3	5.3	5.3	5.3	5.3
85°	4.2	4.2	4.2	5.3	5.3	5.3	5.3	5.3
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°	3.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
95°	3.2	3.2	3.2	3.2	3.2	4.2	4.2	4.2
97.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
100°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
102.5°	2.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2
105°	2.1	2.1	2.1	2.1	3.2	3.2	3.2	3.2
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: P273484

CATALOG NUMBER: 0.05-12W-840-90ASYM-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)