

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: P273466

Luminaire Tested: **0.05-12W-827-90ASYM-STD-UNV-AN-3F0**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273466
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-827-90ASYM-STD-UNV-AN-3F0
Description: iO LIGHTING SERIES 2.0 LINEAR LED LUMINAIRE. 90 DEGREE ASYMMETRIC OPTIC.
V2 HIGH OUTPUT
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1702.3 lumens
Efficiency: N/A
Efficacy: 63.3 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

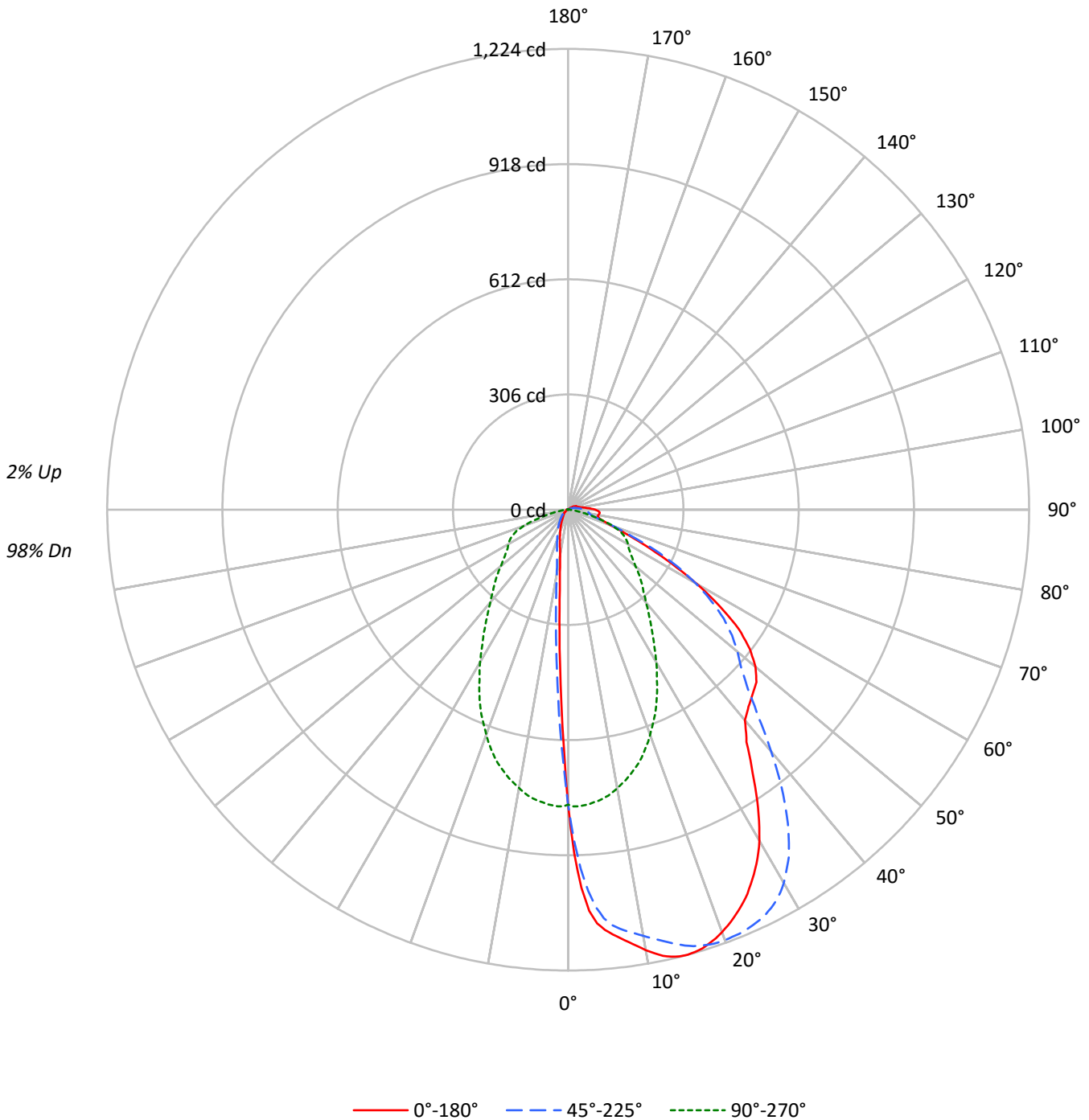
Input Watts (W): 26.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	13879	13879	13879
5°	19918	13866	4705
10°	21376	13505	2203
15°	22445	12913	1542
20°	22508	11986	1180
25°	22003	10873	895
30°	20770	9563	669
35°	18461	8371	525
40°	16885	7437	453
45°	17356	6909	421
50°	17883	6440	386
55°	17094	6239	318
60°	13980	6494	198
65°	9523	6857	235
70°	6101	6490	290
75°	5756	4675	322
80°	8294	3050	479
85°	17093	2093	955



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.1	4.0
10°-20°	187.6	11.0
20°-30°	283.7	16.7
30°-40°	326.1	19.2
40°-50°	313.2	18.4
50°-60°	261.6	15.4
60°-70°	141.6	8.3
70°-80°	51.9	3.1
80°-90°	30.8	1.8
90°-100°	18.2	1.1
100°-110°	9.6	0.6
110°-120°	5.9	0.3
120°-130°	3.1	0.2
130°-140°	1.0	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°	539.3	31.7
0°-40°	865.4	50.8
0°-60°	1440.3	84.6
0°-90°	1664.6	97.8
90°-120°	33.6	2.0
90°-150°	37.8	2.2
90°-180°	38.0	2.2
0°-180°	1702.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	784	784	784	784	784	
5°	1120	1089	780	366	265	108
15°	1224	1199	704	114	84	344
25°	1126	1202	556	66	46	515
35°	854	1017	387	40	24	537
45°	693	675	276	24	17	535
55°	554	504	202	13	10	482
65°	227	254	164	6	6	235
75°	84	71	68	5	5	95
85°	84	52	10	4	5	67
90°	72	43	2	3	4	39
95°	50	33	2	3	4	38
105°	28	17	2	2	3	30
115°	22	8	2	2	2	21
125°	11	2	2	2	2	11
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°	783.5	783.5	783.5	783.5	783.5	783.5	783.5	783.5	783.5	783.5	783.5
1°	913.5	910.7	913.5	899.5	900.4	905.1	905.1	896.7	901.3	881.7	878.0
2°	1005.1	1003.3	1003.3	991.1	991.1	994.8	993.0	982.7	982.7	962.1	953.7
3°	1066.8	1064.0	1063.1	1053.7	1053.7	1055.6	1053.7	1045.3	1041.6	1023.8	1013.5
4°	1101.4	1100.5	1097.7	1091.1	1091.1	1093.0	1091.1	1085.5	1082.7	1067.8	1058.4
5°	1120.1	1120.1	1116.4	1111.7	1111.7	1113.6	1110.8	1108.0	1104.2	1095.8	1089.3
6°	1134.2	1132.3	1131.3	1125.7	1125.7	1126.7	1124.8	1122.0	1119.2	1113.6	1108.9
7°	1147.2	1145.4	1143.5	1137.9	1138.8	1137.9	1136.0	1132.3	1130.4	1125.7	1121.1
8°	1160.3	1158.5	1157.5	1151.0	1151.0	1150.0	1148.2	1143.5	1141.6	1136.0	1131.3
9°	1173.4	1171.6	1170.6	1164.1	1164.1	1163.1	1160.3	1156.6	1151.9	1145.4	1139.8
10°	1188.4	1186.5	1185.6	1179.0	1178.1	1176.2	1173.4	1169.7	1163.1	1156.6	1149.1
11°	1200.5	1200.5	1196.8	1192.1	1190.3	1189.3	1186.5	1182.8	1175.3	1166.9	1159.4
12°	1211.8	1211.8	1208.0	1203.3	1201.5	1200.5	1197.7	1194.0	1185.6	1179.0	1168.7
13°	1218.3	1218.3	1215.5	1210.8	1210.8	1209.9	1207.1	1204.3	1195.9	1189.3	1179.0
14°	1223.0	1223.0	1220.2	1215.5	1216.4	1215.5	1213.6	1211.8	1204.3	1198.7	1189.3
15°	1223.9	1224.8	1221.1	1217.4	1219.2	1218.3	1217.4	1215.5	1211.8	1206.1	1198.7
16°	1222.0	1223.9	1220.2	1216.4	1219.2	1218.3	1218.3	1216.4	1215.5	1211.8	1206.1
17°	1218.3	1220.2	1217.4	1213.6	1217.4	1216.4	1216.4	1216.4	1217.4	1214.6	1210.8
18°	1211.8	1214.6	1212.7	1209.9	1213.6	1214.6	1214.6	1213.6	1217.4	1216.4	1214.6
19°	1204.3	1207.1	1206.1	1204.3	1208.0	1209.9	1209.9	1210.8	1215.5	1216.4	1216.4
20°	1194.0	1197.7	1196.8	1195.9	1201.5	1202.4	1204.3	1206.1	1212.7	1214.6	1216.4
21°	1182.8	1187.4	1187.4	1186.5	1192.1	1194.9	1197.7	1200.5	1208.0	1211.8	1215.5
22°	1170.6	1175.3	1175.3	1175.3	1181.8	1185.6	1188.4	1194.9	1203.3	1209.9	1214.6
23°	1156.6	1161.3	1161.3	1162.2	1169.7	1174.4	1178.1	1185.6	1196.8	1206.1	1211.8
24°	1142.6	1146.3	1147.2	1148.2	1156.6	1161.3	1165.0	1174.4	1188.4	1200.5	1207.1
25°	1125.7	1130.4	1130.4	1132.3	1141.6	1146.3	1151.0	1162.2	1178.1	1192.1	1202.4
26°	1106.1	1111.7	1113.6	1115.5	1124.8	1129.5	1135.1	1147.2	1165.9	1180.9	1195.9
27°	1086.5	1092.1	1094.9	1094.9	1107.0	1111.7	1118.3	1131.3	1152.9	1168.7	1187.4
28°	1065.0	1070.6	1070.6	1075.2	1086.5	1092.1	1098.6	1113.6	1136.0	1153.8	1176.2
29°	1041.6	1047.2	1047.2	1052.8	1064.0	1070.6	1077.1	1093.9	1114.5	1137.0	1162.2
30°	1015.4	1021.0	1022.0	1026.6	1038.8	1045.3	1052.8	1071.5	1092.1	1117.3	1145.4
32.5°	938.7	945.3	945.3	955.6	964.9	976.1	981.7	1002.3	1029.4	1057.5	1091.1
35°	853.7	860.2	859.3	864.9	879.8	886.4	897.6	919.1	947.2	981.7	1017.3
37.5°	777.9	781.7	779.8	784.5	794.7	805.0	813.4	830.3	858.3	894.8	931.3
40°	730.2	731.2	729.3	728.4	733.0	736.8	741.5	751.7	772.3	803.2	838.7
42.5°	708.7	705.9	703.1	700.3	697.5	697.5	695.6	697.5	705.0	722.8	748.0
45°	692.8	691.9	688.2	684.4	678.8	676.9	673.2	665.7	661.0	664.8	675.1
47.5°	677.9	675.1	671.3	667.6	661.0	658.2	651.7	640.5	632.1	626.4	623.6
50°	648.9	645.1	641.4	638.6	633.0	630.2	623.6	613.4	604.9	594.7	586.2
52.5°	607.7	603.1	601.2	598.4	592.8	589.0	583.4	576.0	568.5	561.0	547.9
55°	553.5	550.7	548.8	549.8	543.2	541.4	537.6	528.3	521.7	514.2	504.0
57.5°	477.8	475.9	476.8	481.5	480.6	481.5	481.5	476.8	471.2	461.9	449.7
60°	394.6	392.7	394.6	399.2	400.2	403.0	405.8	409.5	410.5	403.0	389.9
62.5°	308.5	305.7	306.7	309.5	309.5	313.2	317.0	323.5	330.1	331.0	327.2
65°	227.2	224.4	224.4	225.3	224.4	227.2	229.1	230.9	238.4	248.7	254.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
67.5°	162.7	160.8	160.8	160.8	160.8	161.8	160.8	162.7	166.4	173.0	180.5
70°	117.8	116.9	116.9	116.9	115.9	116.9	117.8	117.8	119.7	122.5	126.2
72.5°	95.4	94.4	94.4	93.5	91.6	91.6	90.7	89.8	88.8	89.8	91.6
75°	84.1	84.1	83.2	82.3	80.4	79.5	77.6	75.7	73.9	72.0	71.1
77.5°	80.4	80.4	79.5	77.6	75.7	73.9	72.9	69.2	66.4	63.6	60.8
80°	81.3	80.4	79.5	77.6	74.8	73.9	72.0	68.3	64.5	59.8	56.1
82.5°	83.2	83.2	82.3	79.5	76.7	74.8	72.9	69.2	64.5	59.8	54.2
85°	84.1	83.2	82.3	79.5	76.7	74.8	72.0	67.3	62.6	58.0	52.4
87.5°	79.5	78.5	77.6	74.8	71.1	70.1	67.3	62.6	58.9	53.3	48.6
90°	72.0	70.1	69.2	66.4	63.6	61.7	59.8	55.2	51.4	47.7	43.0
92.5°	60.8	59.8	58.9	56.1	54.2	52.4	50.5	46.7	43.9	41.1	38.3
95°	50.5	49.6	48.6	46.7	44.9	43.9	42.1	39.3	37.4	34.6	32.7
97.5°	42.1	41.1	40.2	39.3	37.4	36.5	35.5	33.7	31.8	29.9	28.0
100°	35.5	35.5	34.6	33.7	31.8	30.9	29.9	29.0	27.1	25.2	24.3
102.5°	30.9	30.9	29.9	29.0	28.0	27.1	26.2	25.2	23.4	21.5	20.6
105°	28.0	27.1	27.1	26.2	25.2	24.3	23.4	21.5	19.6	18.7	16.8
107.5°	26.2	25.2	25.2	24.3	22.4	22.4	21.5	19.6	17.8	15.9	15.0
110°	24.3	24.3	23.4	22.4	21.5	20.6	19.6	18.7	15.9	14.0	12.2
112.5°	23.4	23.4	22.4	21.5	20.6	19.6	18.7	16.8	15.0	13.1	10.3
115°	22.4	21.5	21.5	20.6	18.7	17.8	16.8	15.0	13.1	10.3	8.4
117.5°	19.6	19.6	19.6	17.8	16.8	15.9	15.0	13.1	11.2	8.4	6.5
120°	17.8	16.8	16.8	15.9	14.0	13.1	13.1	11.2	8.4	6.5	4.7
122.5°	15.0	14.0	14.0	13.1	12.2	11.2	10.3	8.4	6.5	4.7	3.7
125°	11.2	11.2	11.2	10.3	9.3	8.4	7.5	6.5	4.7	3.7	1.9
127.5°	9.3	8.4	8.4	7.5	6.5	6.5	5.6	4.7	2.8	1.9	1.9
130°	6.5	6.5	5.6	5.6	4.7	3.7	2.8	1.9	1.9	1.9	1.9
132.5°	3.7	3.7	3.7	2.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9
135°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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°	783.5	783.5	783.5	783.5	783.5	783.5	783.5	783.5	783.5	783.5	783.5
1°	872.4	851.8	844.3	838.7	832.1	822.8	817.2	810.6	798.5	788.2	776.0
2°	941.5	915.4	902.3	887.3	878.0	863.0	849.0	831.2	809.7	788.2	763.9
3°	998.6	970.5	950.9	930.3	919.1	900.4	877.0	850.8	819.1	786.3	749.9
4°	1043.5	1015.4	993.0	968.7	955.6	935.0	904.1	869.5	826.5	784.5	736.8
5°	1076.2	1050.9	1028.5	1002.3	988.3	966.8	929.4	884.5	834.0	779.8	721.8
6°	1098.6	1076.2	1055.6	1031.3	1017.3	994.8	952.8	901.3	841.5	777.0	705.9
7°	1113.6	1094.9	1077.1	1055.6	1040.7	1020.1	974.3	917.2	847.1	772.3	690.0
8°	1124.8	1108.0	1093.0	1074.3	1061.2	1040.7	993.9	932.2	852.7	766.7	674.1
9°	1132.3	1116.4	1104.2	1087.4	1076.2	1058.4	1010.7	943.4	855.5	759.2	655.4
10°	1141.6	1123.9	1112.6	1098.6	1088.3	1073.4	1026.6	955.6	859.3	750.8	636.7
11°	1151.0	1131.3	1120.1	1107.0	1097.7	1084.6	1039.7	965.9	862.1	742.4	617.1
12°	1159.4	1138.8	1127.6	1114.5	1106.1	1093.0	1050.9	976.1	864.9	734.0	598.4
13°	1169.7	1145.4	1134.2	1122.0	1112.6	1100.5	1061.2	985.5	866.7	724.6	578.8
14°	1178.1	1155.7	1140.7	1127.6	1119.2	1107.0	1069.6	994.8	867.7	714.3	559.1
15°	1186.5	1164.1	1147.2	1132.3	1123.9	1111.7	1077.1	1001.4	868.6	704.1	538.6
16°	1194.9	1172.5	1153.8	1137.0	1129.5	1117.3	1083.7	1007.9	868.6	692.8	518.0
17°	1203.3	1181.8	1160.3	1142.6	1135.1	1123.9	1089.3	1014.5	867.7	679.7	496.5
18°	1210.8	1189.3	1169.7	1149.1	1141.6	1129.5	1094.9	1020.1	865.8	665.7	476.8
19°	1214.6	1195.9	1176.2	1156.6	1146.3	1135.1	1100.5	1025.7	863.0	651.7	455.3
20°	1216.4	1201.5	1182.8	1162.2	1150.0	1138.8	1105.2	1030.4	859.3	635.8	433.8
21°	1217.4	1206.1	1187.4	1167.8	1155.7	1143.5	1109.8	1034.1	855.5	619.9	414.2
22°	1218.3	1209.0	1194.0	1174.4	1160.3	1148.2	1114.5	1039.7	853.7	604.9	394.6
23°	1216.4	1209.9	1196.8	1178.1	1165.9	1151.9	1119.2	1044.4	849.9	590.9	374.9
24°	1213.6	1210.8	1200.5	1182.8	1171.6	1156.6	1123.9	1048.1	845.2	573.2	356.2
25°	1211.8	1210.8	1201.5	1185.6	1176.2	1162.2	1126.7	1050.9	839.6	556.3	338.5
26°	1208.0	1209.9	1203.3	1190.3	1180.0	1165.9	1130.4	1052.8	832.1	538.6	320.7
27°	1202.4	1207.1	1205.2	1194.9	1184.6	1171.6	1135.1	1054.7	823.7	519.9	304.8
28°	1195.9	1204.3	1206.1	1198.7	1189.3	1176.2	1140.7	1058.4	815.3	501.2	288.9
29°	1187.4	1199.6	1204.3	1201.5	1194.9	1182.8	1145.4	1063.1	806.0	485.3	274.9
30°	1175.3	1193.1	1202.4	1203.3	1198.7	1187.4	1150.0	1065.0	797.6	467.5	262.7
32.5°	1132.3	1166.9	1189.3	1206.1	1207.1	1199.6	1164.1	1071.5	772.3	424.5	233.7
35°	1066.8	1119.2	1162.2	1196.8	1206.1	1210.8	1181.8	1079.0	746.1	387.1	206.6
37.5°	990.2	1047.2	1112.6	1169.7	1192.1	1206.1	1195.9	1085.5	714.3	351.6	188.9
40°	896.7	960.2	1037.8	1121.1	1153.8	1187.4	1201.5	1087.4	680.7	321.6	173.0
42.5°	799.4	863.9	946.2	1044.4	1093.9	1144.4	1193.1	1080.9	640.5	296.4	160.8
45°	709.7	764.8	845.2	953.7	1012.6	1079.0	1165.0	1060.3	600.3	275.8	151.5
47.5°	635.8	672.3	741.5	849.9	914.4	996.7	1124.8	1032.2	557.3	255.3	143.1
50°	583.4	599.3	646.1	738.6	801.3	890.1	1064.0	1002.3	518.9	233.7	132.8
52.5°	540.4	541.4	563.8	628.3	685.4	771.4	978.0	960.2	488.1	216.0	122.5
55°	493.7	487.1	494.6	533.9	573.2	643.3	863.0	908.8	464.7	202.0	111.3
57.5°	442.3	430.1	430.1	449.7	474.0	526.4	718.1	832.1	444.1	190.7	101.9
60°	381.5	367.5	362.8	373.1	387.1	422.6	582.5	727.4	420.7	183.3	94.4
62.5°	316.0	302.9	298.3	302.0	308.5	333.8	449.7	600.3	389.0	174.8	87.0
65°	251.5	240.3	233.7	235.6	238.4	258.1	336.6	461.9	344.1	163.6	80.4



TEST NUMBER: P273466

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
67.5°	187.0	185.1	181.4	182.3	186.1	193.5	247.8	334.7	282.4	148.7	72.0
70°	132.8	137.4	139.3	140.2	141.2	145.9	177.6	232.8	210.4	125.3	62.6
72.5°	94.4	99.1	104.7	107.5	108.5	110.3	128.1	158.9	148.7	97.2	49.6
75°	72.0	73.9	77.6	83.2	83.2	85.1	93.5	107.5	101.0	68.3	37.4
77.5°	58.9	58.9	60.8	64.5	65.4	66.4	70.1	74.8	66.4	45.8	25.2
80°	53.3	51.4	50.5	51.4	52.4	52.4	53.3	51.4	43.9	29.9	15.9
82.5°	49.6	46.7	43.9	43.0	42.1	41.1	40.2	35.5	29.0	17.8	8.4
85°	47.7	43.0	39.3	36.5	35.5	33.7	30.9	25.2	18.7	10.3	4.7
87.5°	43.9	39.3	35.5	31.8	29.9	28.0	23.4	17.8	11.2	5.6	1.9
90°	39.3	35.5	31.8	27.1	25.2	23.4	18.7	12.2	6.5	1.9	1.9
92.5°	34.6	31.8	28.0	24.3	21.5	19.6	14.0	8.4	3.7	1.9	1.9
95°	29.9	28.0	24.3	20.6	18.7	15.9	11.2	5.6	1.9	1.9	1.9
97.5°	26.2	24.3	20.6	16.8	15.0	13.1	7.5	2.8	1.9	1.9	1.9
100°	22.4	20.6	17.8	14.0	12.2	9.3	4.7	1.9	1.9	1.9	1.9
102.5°	18.7	16.8	14.0	10.3	8.4	6.5	2.8	1.9	1.9	1.9	1.9
105°	15.0	13.1	11.2	7.5	5.6	3.7	1.9	1.9	1.9	1.9	1.9
107.5°	13.1	10.3	8.4	5.6	3.7	2.8	1.9	1.9	1.9	1.9	1.9
110°	10.3	8.4	5.6	3.7	1.9	1.9	1.9	1.9	1.9	1.9	1.9
112.5°	8.4	5.6	3.7	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
115°	6.5	3.7	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
117.5°	4.7	2.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
120°	2.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
122.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
125°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
127.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
130°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
132.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
135°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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: P273466

CATALOG NUMBER: 0.05-12W-827-90ASYM-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	783.5	783.5	783.5	783.5	783.5	783.5	783.5	783.5	783.5	783.5	783.5
1°	760.2	745.2	732.1	726.5	719.0	710.6	707.8	688.2	679.7	673.2	665.7
2°	736.8	711.5	688.2	682.5	664.8	646.1	634.9	606.8	590.0	577.8	563.8
3°	713.4	676.0	644.2	633.0	610.6	582.5	562.9	529.2	505.8	489.0	470.3
4°	687.2	640.5	599.3	582.5	557.3	521.7	495.5	458.1	430.1	410.5	389.9
5°	662.0	605.9	555.4	534.8	505.8	464.7	433.8	395.5	365.6	345.0	323.5
6°	635.8	570.3	512.4	488.1	458.1	412.3	379.6	340.3	310.4	289.8	270.2
7°	608.7	534.8	472.2	445.1	414.2	366.5	331.0	294.5	265.5	246.8	226.3
8°	582.5	501.2	433.8	405.8	374.0	325.4	290.8	256.2	227.2	209.4	194.5
9°	555.4	468.4	396.4	367.5	336.6	288.0	255.3	221.6	198.2	183.3	169.2
10°	528.3	436.6	362.8	333.8	303.9	257.1	224.4	196.3	174.8	161.8	150.5
11°	502.1	406.7	331.9	302.0	274.0	228.1	200.1	174.8	156.1	144.9	135.6
12°	475.9	377.7	303.9	274.9	246.8	205.7	179.5	158.0	142.1	132.8	124.4
13°	450.7	350.6	277.7	250.6	223.5	186.1	162.7	144.0	130.9	122.5	115.0
14°	425.4	323.5	255.3	226.3	203.8	170.2	149.6	132.8	121.5	114.1	107.5
15°	402.0	300.1	231.9	207.6	187.0	156.1	138.4	123.4	114.1	106.6	101.0
16°	378.7	277.7	213.2	191.7	172.0	144.9	128.1	115.9	107.5	100.0	95.4
17°	355.3	258.1	197.3	176.7	158.9	134.6	120.6	109.4	101.0	94.4	89.8
18°	334.7	239.4	182.3	163.6	147.7	126.2	113.1	102.8	95.4	89.8	84.1
19°	314.2	221.6	169.2	152.4	138.4	119.7	107.5	98.2	90.7	84.1	79.5
20°	294.5	206.6	158.0	143.1	130.0	113.1	101.9	92.6	85.1	79.5	74.8
21°	276.8	192.6	148.7	134.6	122.5	107.5	97.2	87.9	80.4	74.8	71.1
22°	259.9	180.5	140.2	127.2	116.9	102.8	92.6	83.2	76.7	71.1	67.3
23°	243.1	170.2	132.8	120.6	111.3	97.2	87.9	78.5	72.9	68.3	64.5
24°	227.2	160.8	126.2	115.0	106.6	93.5	83.2	74.8	69.2	64.5	60.8
25°	214.1	152.4	119.7	110.3	101.0	88.8	79.5	72.0	66.4	61.7	58.0
26°	202.9	144.0	114.1	105.7	97.2	84.1	75.7	68.3	63.6	58.9	55.2
27°	191.7	137.4	109.4	101.0	92.6	80.4	72.0	65.4	60.8	56.1	52.4
28°	182.3	130.9	104.7	96.3	88.8	77.6	69.2	62.6	58.0	53.3	49.6
29°	173.0	125.3	101.0	92.6	85.1	73.9	66.4	59.8	55.2	50.5	46.7
30°	164.6	119.7	96.3	88.8	81.3	71.1	63.6	57.0	52.4	47.7	43.0
32.5°	147.7	108.5	87.9	80.4	73.9	64.5	58.0	51.4	45.8	41.1	38.3
35°	133.7	99.1	79.5	72.9	67.3	58.9	51.4	45.8	40.2	36.5	33.7
37.5°	122.5	90.7	72.9	66.4	61.7	53.3	46.7	40.2	35.5	31.8	29.0
40°	112.2	84.1	67.3	61.7	56.1	48.6	41.1	35.5	30.9	28.0	25.2
42.5°	105.7	78.5	61.7	57.0	52.4	43.9	37.4	31.8	27.1	24.3	21.5
45°	100.0	73.9	58.0	52.4	47.7	40.2	33.7	28.0	24.3	21.5	18.7
47.5°	94.4	69.2	54.2	48.6	43.9	36.5	29.9	25.2	21.5	18.7	16.8
50°	88.8	64.5	50.5	44.9	40.2	32.7	27.1	22.4	18.7	15.9	14.0
52.5°	82.3	59.8	45.8	41.1	36.5	29.9	24.3	19.6	15.9	14.0	13.1
55°	75.7	55.2	42.1	37.4	33.7	27.1	21.5	16.8	13.1	12.2	11.2
57.5°	67.3	49.6	37.4	33.7	29.9	24.3	17.8	14.0	11.2	10.3	10.3
60°	60.8	43.9	32.7	29.9	27.1	20.6	15.0	11.2	9.3	8.4	8.4
62.5°	54.2	38.3	29.0	26.2	23.4	17.8	12.2	9.3	8.4	7.5	6.5
65°	47.7	32.7	25.2	22.4	19.6	14.0	9.3	7.5	6.5	5.6	5.6



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CATALOG NUMBER: 0.05-12W-827-90ASYM-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
67.5°	41.1	27.1	20.6	17.8	15.9	10.3	7.5	5.6	4.7	4.7	4.7
70°	33.7	22.4	15.9	14.0	11.2	7.5	5.6	4.7	4.7	4.7	4.7
72.5°	26.2	16.8	12.2	10.3	7.5	5.6	4.7	4.7	4.7	4.7	4.7
75°	18.7	12.2	7.5	6.5	4.7	3.7	3.7	3.7	4.7	4.7	4.7
77.5°	13.1	8.4	4.7	3.7	3.7	3.7	3.7	3.7	4.7	4.7	4.7
80°	8.4	4.7	2.8	3.7	3.7	3.7	3.7	3.7	3.7	4.7	4.7
82.5°	4.7	2.8	2.8	2.8	2.8	3.7	3.7	3.7	3.7	3.7	3.7
85°	1.9	2.8	2.8	2.8	2.8	2.8	3.7	3.7	3.7	3.7	3.7
87.5°	1.9	1.9	2.8	2.8	2.8	2.8	2.8	2.8	3.7	3.7	3.7
90°	1.9	1.9	1.9	2.8	2.8	2.8	2.8	2.8	2.8	3.7	3.7
92.5°	1.9	1.9	1.9	1.9	1.9	2.8	2.8	2.8	2.8	2.8	2.8
95°	1.9	1.9	1.9	1.9	1.9	1.9	2.8	2.8	2.8	2.8	2.8
97.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.8	2.8	2.8	2.8
100°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.8	2.8
102.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
105°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
107.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
110°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
112.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
115°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
117.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
120°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
122.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
125°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
127.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
130°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
132.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
135°	1.9	1.9	1.9	2.8	1.9	2.8	2.8	2.8	1.9	1.9	1.9
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: P273466

CATALOG NUMBER: 0.05-12W-827-90ASYM-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: P273466

CATALOG NUMBER: 0.05-12W-827-90ASYM-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	783.5	783.5	783.5	783.5	783.5	783.5	783.5	783.5
1°	675.1	661.0	657.3	636.7	637.7	632.1	634.9	634.9
2°	566.6	549.8	543.2	523.6	521.7	514.2	515.2	514.2
3°	468.4	450.7	443.2	424.5	420.7	413.3	413.3	412.3
4°	384.3	366.5	358.1	343.1	338.5	331.0	330.1	327.2
5°	316.0	299.2	290.8	279.6	274.0	267.4	266.5	264.6
6°	260.9	246.8	238.4	228.1	222.5	216.9	216.9	215.0
7°	217.9	205.7	199.2	191.7	187.0	182.3	181.4	180.5
8°	186.1	173.0	170.2	164.6	160.8	157.1	156.1	154.3
9°	162.7	151.5	149.6	144.9	141.2	138.4	137.4	136.5
10°	144.0	135.6	133.7	130.0	127.2	124.4	124.4	122.5
11°	129.0	123.4	121.5	118.7	115.9	114.1	114.1	113.1
12°	118.7	114.1	112.2	110.3	107.5	105.7	105.7	104.7
13°	110.3	105.7	104.7	102.8	100.0	98.2	98.2	97.2
14°	102.8	99.1	97.2	96.3	93.5	92.6	91.6	90.7
15°	97.2	92.6	91.6	89.8	87.0	86.0	85.1	84.1
16°	90.7	87.0	85.1	83.2	81.3	80.4	79.5	79.5
17°	85.1	81.3	80.4	79.5	76.7	75.7	74.8	74.8
18°	80.4	76.7	75.7	74.8	72.0	71.1	71.1	70.1
19°	75.7	72.9	71.1	70.1	68.3	67.3	66.4	66.4
20°	72.0	69.2	67.3	66.4	64.5	63.6	63.6	62.6
21°	68.3	65.4	63.6	62.6	60.8	59.8	59.8	58.9
22°	64.5	61.7	60.8	59.8	58.0	57.0	56.1	56.1
23°	61.7	58.9	57.0	56.1	54.2	53.3	52.4	52.4
24°	58.0	55.2	54.2	53.3	51.4	49.6	49.6	48.6
25°	55.2	52.4	50.5	49.6	47.7	46.7	45.8	45.8
26°	52.4	48.6	47.7	46.7	44.9	43.9	43.0	43.0
27°	48.6	45.8	44.9	43.9	42.1	41.1	40.2	40.2
28°	45.8	43.0	42.1	41.1	39.3	38.3	38.3	37.4
29°	43.0	40.2	39.3	38.3	37.4	36.5	35.5	35.5
30°	40.2	38.3	37.4	36.5	35.5	33.7	33.7	32.7
32.5°	35.5	32.7	31.8	31.8	29.9	29.0	29.0	28.0
35°	30.9	28.0	27.1	27.1	26.2	25.2	25.2	24.3
37.5°	26.2	24.3	24.3	23.4	22.4	22.4	21.5	22.4
40°	23.4	21.5	20.6	20.6	19.6	19.6	19.6	19.6
42.5°	19.6	18.7	18.7	17.8	17.8	17.8	17.8	17.8
45°	17.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
47.5°	15.9	15.0	15.0	15.0	15.0	15.0	15.0	15.0
50°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
52.5°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
55°	11.2	11.2	10.3	10.3	10.3	10.3	10.3	10.3
57.5°	9.3	9.3	8.4	8.4	8.4	8.4	7.5	7.5
60°	7.5	6.5	6.5	6.5	5.6	5.6	5.6	5.6
62.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
65°	4.7	4.7	5.6	5.6	5.6	5.6	5.6	5.6



TEST NUMBER: P273466

CATALOG NUMBER: 0.05-12W-827-90ASYM-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
67.5°	4.7	4.7	4.7	4.7	5.6	5.6	5.6	5.6
70°	4.7	4.7	5.6	5.6	5.6	5.6	5.6	5.6
72.5°	4.7	4.7	4.7	4.7	5.6	5.6	5.6	5.6
75°	4.7	4.7	4.7	4.7	4.7	5.6	4.7	4.7
77.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
80°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
82.5°	3.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
85°	3.7	3.7	3.7	4.7	4.7	4.7	4.7	4.7
87.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
90°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
92.5°	2.8	3.7	3.7	3.7	3.7	3.7	3.7	3.7
95°	2.8	2.8	2.8	2.8	2.8	3.7	3.7	3.7
97.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
100°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
102.5°	1.9	2.8	2.8	2.8	2.8	2.8	2.8	2.8
105°	1.9	1.9	1.9	1.9	2.8	2.8	2.8	2.8
107.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
110°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
112.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
115°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
117.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
120°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
122.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
125°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
127.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
130°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
132.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
135°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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: P273466

CATALOG NUMBER: 0.05-12W-827-90ASYM-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)