

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: NEO-RAY

Report Number: P331525-930

Luminaire Tested: **S122DIW-S675D435U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331525-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122DIW-S675D435U930-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 435 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3801.7 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

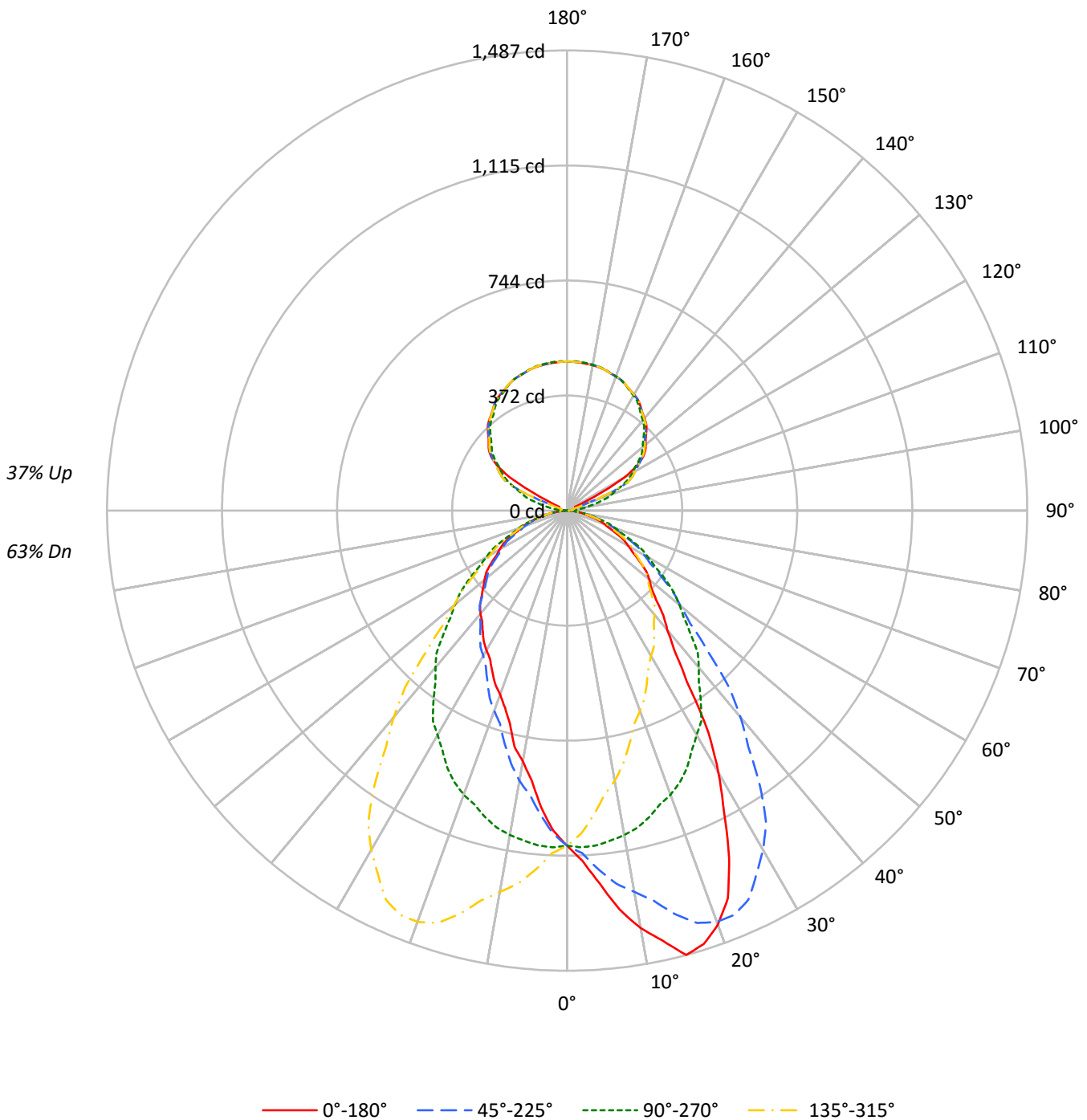
Input Watts (W): 37.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0																			
RCR																																														
0	110	110	110	110	103	103	103	103	90	90	90	79	79	79	68	68	68	63																												
1	101	97	93	90	95	91	88	85	80	78	76	70	69	67	61	60	59	54																												
2	93	86	80	75	87	81	75	71	71	67	64	62	59	57	54	52	50	46																												
3	85	76	69	63	80	71	65	60	63	58	54	56	52	49	49	46	44	40																												
4	78	68	60	54	73	64	57	51	57	51	47	50	46	42	44	41	38	35																												
5	72	61	53	47	67	57	50	45	51	45	41	45	41	37	40	36	34	31																												
6	67	55	47	41	62	52	45	39	46	40	36	41	37	33	37	33	30	27																												
7	62	50	42	36	58	47	40	35	42	36	32	38	33	29	34	30	27	24																												
8	58	45	38	32	54	43	36	31	39	33	29	35	30	27	31	27	24	22																												
9	54	42	34	29	50	40	33	28	36	30	26	32	27	24	29	25	22	20																												
10	50	38	31	26	47	36	30	25	33	27	24	30	25	22	27	23	20	18																												

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

	0°	90°	180°	270°
0°	17486	17486	17486	17486
5°	19603	17598	15595	17598
10°	22463	17454	13496	17454
15°	24849	17135	11925	17135
20°	24471	16790	10869	16790
25°	22066	16335	10203	16335
30°	18233	15605	9715	15605
35°	13291	14840	9368	14840
40°	10614	13940	9177	13940
45°	9275	12896	8914	12896
50°	8719	11886	8741	11886
55°	8037	10860	8504	10860
60°	7363	9771	8147	9771
65°	6709	8795	7790	8795
70°	6090	7841	7270	7841
75°	5402	6775	6438	6775
80°	4649	5607	5188	5607
85°	4168	4168	3075	4168



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.1	2.7
10°-20°	299.8	7.9
20°-30°	435.1	11.4
30°-40°	459.2	12.1
40°-50°	406.6	10.7
50°-60°	324.5	8.5
60°-70°	220.5	5.8
70°-80°	113.1	3.0
80°-90°	28.4	0.7
90°-100°	16.1	0.4
100°-110°	58.9	1.5
110°-120°	157.5	4.1
120°-130°	259.9	6.8
130°-140°	276.4	7.3
140°-150°	256.9	6.8
150°-160°	206.6	5.4
160°-170°	133.1	3.5
170°-180°	45.8	1.2
0°-30°	838.1	22.0
0°-40°	1297.3	34.1
0°-60°	2028.3	53.4
0°-90°	2390.4	62.9
90°-120°	232.4	6.1
90°-150°	1025.8	27.0
90°-180°	1411.0	37.1
0°-180°	3801.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1083	1083	1083	1083	1083	
5°	1210	1086	962	1086	1210	121
15°	1487	1025	713	1025	1487	410
25°	1239	917	573	917	1239	560
35°	674	753	475	753	674	439
45°	406	565	390	565	406	319
55°	286	386	302	386	286	256
65°	176	230	204	230	176	175
75°	87	109	103	109	87	93
85°	22	22	17	22	22	25
90°	9	0	9	0	9	5
95°	15	23	15	23	15	14
105°	26	106	26	106	26	28
115°	28	200	28	200	28	72
125°	298	283	298	283	298	258
135°	362	351	362	351	362	279
145°	413	407	413	407	413	258
155°	448	448	448	448	448	207
165°	471	472	471	472	471	133
175°	480	483	480	483	480	46
180°	482	482	482	482	482	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1132.9	1133.2	1133.9	1128.5	1127.9	1127.9	1123.2	1119.2	1114.6	1108.2	1108.9
5°	1209.5	1214.1	1215.7	1210.7	1203.2	1202.4	1195.3	1183.7	1172.8	1164.1	1157.9
7.5°	1300.9	1302.7	1298.6	1292.0	1286.5	1276.5	1263.3	1250.4	1232.3	1215.8	1203.5
10°	1370.1	1372.6	1365.5	1356.0	1348.1	1336.4	1317.3	1297.7	1274.0	1251.1	1232.7
12.5°	1422.7	1428.9	1419.8	1418.5	1405.0	1389.0	1366.2	1356.3	1322.9	1291.0	1271.4
15°	1486.6	1486.2	1487.1	1479.2	1469.2	1466.6	1442.5	1416.3	1369.3	1350.5	1318.1
17.5°	1468.2	1474.5	1477.4	1477.3	1477.1	1475.5	1467.8	1451.2	1427.7	1397.3	1359.8
20°	1424.2	1432.6	1433.8	1443.4	1448.8	1455.9	1458.7	1454.2	1439.7	1414.2	1381.8
22.5°	1356.3	1358.6	1362.5	1377.4	1389.2	1406.9	1416.2	1431.6	1426.0	1413.6	1386.4
25°	1238.6	1234.4	1249.0	1256.5	1283.5	1311.8	1332.3	1354.7	1374.7	1386.7	1378.8
27.5°	1097.2	1091.0	1112.8	1132.7	1154.7	1185.4	1217.2	1254.7	1285.9	1324.9	1338.3
30°	978.0	981.8	1002.7	1023.9	1057.1	1100.4	1136.2	1177.5	1222.0	1265.7	1296.0
32.5°	849.5	864.0	877.1	909.6	938.9	987.2	1039.7	1091.2	1146.7	1196.4	1243.4
35°	674.3	690.9	709.2	733.0	774.1	822.0	873.2	942.6	1018.5	1086.3	1142.1
37.5°	567.5	564.8	575.4	592.5	625.9	664.5	723.4	792.1	881.3	961.0	1039.7
40°	503.6	501.9	509.4	525.2	550.7	578.9	630.6	690.9	773.7	871.1	964.7
42.5°	459.7	460.6	464.8	476.0	493.3	516.7	555.3	606.7	682.5	774.2	874.8
45°	406.2	409.1	413.7	419.1	429.1	448.3	469.9	506.5	566.5	643.0	742.1
47.5°	367.8	367.9	372.5	377.2	383.2	394.0	411.6	434.6	476.9	539.2	624.4
50°	347.1	344.2	347.6	351.2	357.5	365.0	376.7	398.3	426.6	477.0	548.1
52.5°	321.8	321.9	324.9	326.3	331.9	339.3	350.0	365.0	390.6	430.0	488.5
55°	285.5	287.6	289.3	291.7	296.8	302.1	310.5	320.5	340.5	370.0	413.3
57.5°	251.4	252.0	253.7	258.4	261.6	266.6	274.5	283.6	296.6	318.5	351.0
60°	228.0	228.0	231.4	233.5	237.7	242.6	248.9	257.6	269.3	287.1	313.4
62.5°	206.8	206.4	207.7	211.2	214.3	219.0	225.3	232.7	243.6	259.5	281.1
65°	175.6	174.8	177.3	178.1	181.5	186.1	191.0	198.9	207.7	219.3	238.5
67.5°	145.7	146.7	148.0	149.6	151.4	156.2	159.6	165.2	172.5	182.2	195.2
70°	129.0	129.0	129.0	130.3	132.7	135.3	138.6	143.2	150.3	158.6	170.2
72.5°	110.4	111.7	113.0	112.3	115.4	116.9	120.9	123.5	130.3	135.6	145.9
75°	86.6	86.6	86.6	88.6	89.9	91.2	93.7	96.1	99.5	106.2	111.5
77.5°	64.6	64.4	64.8	65.3	66.7	68.2	68.9	71.2	74.3	77.3	81.9
80°	50.0	50.8	51.2	52.0	52.0	52.8	53.2	56.2	58.3	60.3	63.3
82.5°	38.6	38.8	38.9	39.1	39.4	39.9	40.9	41.9	42.6	44.4	46.6
85°	22.5	22.1	22.1	22.9	22.5	22.5	23.3	24.1	24.1	24.5	25.8
87.5°	10.5	10.5	10.8	10.4	10.4	10.7	10.6	10.2	10.4	10.7	10.9
90°	9.4	9.3	9.1	9.0	8.8	8.5	8.2	7.7	7.3	6.9	6.4
92.5°	9.4	9.3	9.2	9.1	9.0	8.9	8.7	8.5	8.3	8.1	7.7
95°	15.0	15.1	15.2	15.2	15.3	15.2	14.8	14.3	13.9	13.6	13.0
97.5°	20.0	19.9	19.8	19.7	19.6	19.4	19.2	18.8	18.5	18.2	17.0
100°	23.3	23.2	23.1	22.9	22.7	22.3	21.7	21.1	20.5	19.9	18.5
102.5°	25.0	24.8	24.6	24.4	24.1	23.6	22.8	22.0	21.2	20.4	31.5
105°	26.5	26.2	25.8	25.5	25.3	24.7	23.8	23.0	22.1	21.3	42.4
107.5°	27.2	26.9	26.7	26.3	26.0	26.3	27.1	28.0	28.9	29.8	55.1
110°	27.6	27.2	26.9	26.6	26.3	30.0	37.7	45.5	53.2	61.0	83.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	27.8	27.6	27.3	27.1	26.8	40.8	69.1	97.3	125.6	153.8	159.3
115°	28.5	34.2	39.7	45.3	50.9	71.6	107.5	143.3	179.1	215.0	213.0
117.5°	116.7	135.0	153.3	171.6	190.0	203.4	212.1	220.8	229.5	238.1	236.8
120°	212.5	223.0	233.5	243.9	254.4	259.2	258.2	257.3	256.3	255.4	254.0
122.5°	265.2	267.3	269.3	271.3	273.4	274.1	273.5	273.0	272.5	271.9	270.4
125°	297.9	297.7	297.5	297.3	297.0	296.6	296.1	295.5	295.0	294.5	293.0
127.5°	318.5	318.5	318.5	318.5	318.4	318.0	317.2	316.4	315.6	314.8	313.7
130°	331.4	331.5	331.6	331.7	331.7	331.3	330.4	329.6	328.7	327.9	327.1
132.5°	344.0	344.1	344.1	344.1	344.2	343.9	343.2	342.5	341.8	341.0	340.1
135°	362.1	362.2	362.4	362.6	362.6	362.4	361.6	360.9	360.0	359.3	358.6
137.5°	378.5	378.9	379.1	379.4	379.6	379.4	378.6	377.9	377.1	376.3	375.5
140°	388.9	389.3	389.6	390.0	390.4	390.3	389.6	388.9	388.2	387.5	386.6
142.5°	398.9	399.3	399.7	400.1	400.5	400.4	399.7	399.1	398.4	397.8	396.8
145°	412.9	413.4	413.7	414.1	414.5	414.4	413.8	413.4	412.8	412.2	410.9
147.5°	425.3	425.6	425.9	426.2	426.6	426.6	426.2	425.7	425.3	424.9	423.6
150°	432.8	433.2	433.6	434.0	434.4	434.3	433.8	433.4	432.9	432.4	431.2
152.5°	439.2	439.7	440.3	440.8	441.2	441.3	440.8	440.3	439.9	439.4	438.2
155°	448.2	448.7	449.4	450.0	450.6	450.7	450.2	449.8	449.3	448.8	447.9
157.5°	456.3	456.9	457.5	458.1	458.7	458.8	458.2	457.7	457.1	456.6	456.0
160°	461.1	461.5	462.1	462.7	463.2	463.3	462.8	462.3	461.9	461.4	460.9
162.5°	465.0	465.6	466.3	466.9	467.6	467.7	467.2	466.6	466.1	465.5	465.1
165°	470.8	471.3	471.9	472.4	473.0	473.0	472.4	471.9	471.3	470.8	470.6
167.5°	474.5	475.2	475.9	476.5	477.3	477.4	476.8	476.3	475.7	475.2	475.0
170°	476.7	477.4	478.1	478.8	479.5	479.6	479.1	478.5	477.9	477.4	477.3
172.5°	478.4	479.1	479.8	480.5	481.2	481.3	480.7	480.1	479.6	479.1	478.9
175°	479.9	480.6	481.4	482.2	483.0	483.1	482.5	482.0	481.4	480.9	480.7
177.5°	480.8	481.3	481.8	482.4	483.0	483.1	482.6	482.2	481.8	481.3	481.3
180°	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1111.3	1108.6	1106.9	1100.9	1095.6	1090.3	1088.6	1089.2	1082.0	1075.0	1072.0
5°	1154.5	1146.2	1138.3	1127.1	1113.8	1099.2	1091.7	1085.8	1071.3	1055.5	1046.4
7.5°	1193.4	1181.5	1166.2	1145.0	1125.7	1102.8	1088.2	1075.3	1053.9	1031.7	1018.0
10°	1217.0	1200.7	1181.1	1155.4	1131.6	1103.8	1084.2	1064.6	1039.7	1013.0	996.4
12.5°	1237.3	1215.4	1196.1	1163.0	1135.0	1100.1	1076.8	1049.3	1023.0	991.4	975.1
15°	1285.6	1245.3	1208.6	1171.2	1136.6	1087.9	1062.2	1025.1	990.5	951.5	932.7
17.5°	1323.0	1277.7	1219.9	1172.3	1132.0	1078.2	1040.2	995.9	955.0	910.3	884.8
20°	1344.3	1292.2	1230.3	1173.7	1125.4	1063.8	1022.6	977.2	929.4	879.0	851.5
22.5°	1357.0	1302.3	1241.0	1168.7	1112.1	1052.1	1000.3	950.6	902.0	847.7	818.9
25°	1361.0	1311.0	1246.1	1164.5	1095.4	1027.6	965.2	916.9	858.2	807.4	765.4
27.5°	1341.2	1305.4	1242.9	1156.7	1076.2	996.9	927.3	872.6	810.7	755.5	713.3
30°	1316.9	1296.0	1235.3	1148.7	1060.9	975.6	898.9	837.0	775.3	719.6	676.3
32.5°	1279.2	1274.7	1221.3	1137.3	1044.6	948.6	869.4	806.7	738.4	683.6	642.4
35°	1205.3	1225.3	1191.6	1112.1	1013.8	910.2	824.5	752.9	682.2	629.7	591.0
37.5°	1106.3	1155.8	1147.0	1075.1	972.4	868.5	773.8	699.0	631.5	578.6	540.6
40°	1038.0	1101.2	1110.4	1046.8	943.1	836.2	735.8	661.4	595.6	547.3	509.0
42.5°	964.7	1038.7	1063.8	1012.8	911.1	802.2	701.9	624.7	559.6	512.7	478.7
45°	842.0	939.8	985.1	956.0	857.8	746.2	643.0	564.8	505.6	461.5	435.4
47.5°	727.2	834.1	895.0	884.8	798.4	687.9	586.0	510.9	453.3	418.1	394.6
50°	646.0	755.8	829.5	832.8	755.8	646.4	544.0	473.2	420.4	387.5	368.4
52.5°	575.4	680.2	760.6	778.2	708.2	603.1	506.4	435.9	389.4	359.1	342.0
55°	483.2	571.9	660.9	693.4	637.2	537.3	447.8	385.8	342.1	321.3	306.3
57.5°	401.7	475.6	557.9	593.8	559.1	473.6	389.7	335.9	300.4	282.2	270.7
60°	358.7	417.0	490.2	533.1	503.2	427.1	353.8	302.6	273.5	257.2	246.4
62.5°	318.8	370.4	432.4	471.6	455.3	383.4	317.8	272.6	247.4	232.2	224.5
65°	263.0	303.9	351.7	387.9	377.1	322.5	268.9	230.2	210.2	198.1	191.8
67.5°	216.6	246.1	279.2	311.0	302.2	263.6	220.5	190.4	175.5	165.1	161.3
70°	187.3	209.8	239.3	264.7	257.6	226.0	191.8	166.1	153.2	144.4	140.6
72.5°	159.3	177.8	200.3	221.1	216.3	190.0	161.6	142.1	132.2	124.1	121.0
75°	120.3	134.4	148.1	161.9	160.6	140.2	123.6	108.6	100.7	94.5	93.2
77.5°	88.8	96.7	106.1	114.2	111.9	100.3	87.2	78.7	72.8	68.6	68.0
80°	67.8	72.4	79.1	84.9	82.0	77.0	66.6	60.3	56.2	52.0	50.4
82.5°	49.2	53.8	57.8	60.9	58.7	54.1	47.6	43.4	40.8	38.1	37.3
85°	25.8	28.3	30.0	30.8	30.0	27.1	24.1	22.5	20.4	19.2	18.8
87.5°	11.2	11.0	10.9	11.4	10.3	10.0	8.6	7.4	7.3	7.1	6.6
90°	5.7	5.1	4.5	3.8	2.9	2.0	1.2	0.3	1.2	2.0	2.9
92.5°	7.5	7.2	6.8	6.8	6.8	6.8	6.9	7.0	6.9	6.8	6.8
95°	12.5	12.0	11.4	12.4	15.0	17.5	20.1	22.7	20.1	17.5	15.0
97.5°	15.7	14.4	13.2	16.1	23.3	30.6	37.7	44.9	37.7	30.6	23.3
100°	17.2	15.9	14.6	19.2	29.8	40.4	51.0	61.7	51.0	40.4	29.8
102.5°	42.5	53.5	64.5	71.1	73.4	75.6	77.9	80.1	77.9	75.6	73.4
105°	63.5	84.7	105.8	115.2	112.9	110.6	108.3	105.9	108.3	110.6	112.9
107.5°	80.5	105.8	131.2	142.9	141.0	139.2	137.3	135.4	137.3	139.2	141.0
110°	105.7	128.1	150.5	160.9	159.2	157.6	156.0	154.3	156.0	157.6	159.2





TEST NUMBER: P331525-930

CATALOG NUMBER: S122DIW-S675D435U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	164.9	170.4	175.9	178.0	176.5	175.1	173.7	172.2	173.7	175.1	176.5
115°	211.2	209.2	207.2	205.6	204.3	203.0	201.7	200.4	201.7	203.0	204.3
117.5°	235.5	234.2	232.8	231.4	229.9	228.4	227.0	225.5	227.0	228.4	229.9
120°	252.7	251.3	249.9	248.6	247.4	246.2	245.1	243.9	245.1	246.2	247.4
122.5°	268.8	267.3	265.8	264.4	263.2	262.0	260.7	259.5	260.7	262.0	263.2
125°	291.6	290.1	288.5	287.3	286.3	285.4	284.3	283.3	284.3	285.4	286.3
127.5°	312.6	311.5	310.4	309.3	308.2	307.0	306.0	304.8	306.0	307.0	308.2
130°	326.2	325.4	324.5	323.4	322.2	321.0	319.8	318.5	319.8	321.0	322.2
132.5°	339.3	338.4	337.6	336.6	335.6	334.5	333.5	332.5	333.5	334.5	335.6
135°	357.9	357.2	356.4	355.6	354.2	353.0	351.8	350.6	351.8	353.0	354.2
137.5°	374.8	374.0	373.2	372.3	371.5	370.6	369.7	368.9	369.7	370.6	371.5
140°	385.8	385.0	384.1	383.4	382.7	382.1	381.5	380.9	381.5	382.1	382.7
142.5°	395.8	394.8	394.0	393.1	392.6	392.0	391.5	390.9	391.5	392.0	392.6
145°	409.6	408.3	407.0	406.3	406.4	406.5	406.6	406.7	406.6	406.5	406.4
147.5°	422.3	421.0	419.7	419.2	419.6	419.8	420.1	420.4	420.1	419.8	419.6
150°	430.0	428.8	427.5	427.1	427.7	428.2	428.8	429.3	428.8	428.2	427.7
152.5°	437.1	435.9	434.7	434.4	435.0	435.6	436.3	436.8	436.3	435.6	435.0
155°	446.9	446.1	445.2	445.0	445.7	446.4	447.1	447.8	447.1	446.4	445.7
157.5°	455.3	454.7	454.0	454.0	454.6	455.2	455.8	456.3	455.8	455.2	454.6
160°	460.5	460.0	459.5	459.5	460.0	460.5	460.9	461.4	460.9	460.5	460.0
162.5°	464.7	464.3	464.0	464.0	464.5	464.9	465.4	465.9	465.4	464.9	464.5
165°	470.3	470.1	469.9	469.9	470.4	470.9	471.4	471.8	471.4	470.9	470.4
167.5°	474.7	474.5	474.3	474.4	474.9	475.4	475.8	476.3	475.8	475.4	474.9
170°	477.1	477.0	476.8	477.0	477.4	477.8	478.3	478.8	478.3	477.8	477.4
172.5°	478.7	478.6	478.5	478.6	479.1	479.6	480.0	480.5	480.0	479.6	479.1
175°	480.6	480.5	480.3	480.5	481.0	481.5	482.1	482.7	482.1	481.5	481.0
177.5°	481.2	481.1	481.0	481.3	481.7	482.1	482.6	483.0	482.6	482.1	481.7
180°	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6



TEST NUMBER: P331525-930

CATALOG NUMBER: S122DIW-S675D435U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1068.6	1066.7	1059.6	1056.0	1049.9	1044.3	1040.6	1042.4	1043.7	1043.0	1042.0
5°	1038.0	1030.0	1018.0	1007.6	1000.1	986.3	980.6	977.6	975.2	972.2	969.3
7.5°	1001.5	989.0	971.8	956.9	942.9	925.9	916.2	910.3	904.3	897.7	891.9
10°	975.6	958.1	939.8	918.9	902.3	886.9	873.2	864.1	855.7	847.8	842.0
12.5°	948.3	928.1	905.5	877.0	858.7	836.7	834.5	818.4	805.4	800.5	793.7
15°	904.8	876.5	847.8	814.1	799.5	779.5	767.0	754.6	743.3	735.4	733.4
17.5°	855.4	818.8	790.3	766.1	742.2	721.7	710.2	700.2	691.0	680.4	679.0
20°	817.8	786.2	755.0	733.8	709.2	688.4	674.3	664.2	656.3	650.1	644.7
22.5°	782.2	747.5	719.0	695.8	671.6	654.8	643.6	634.0	627.4	620.4	615.4
25°	725.0	698.0	666.8	640.5	620.5	609.8	600.5	592.2	588.1	583.5	577.7
27.5°	675.0	644.9	615.7	595.4	577.9	568.3	561.7	556.1	552.2	549.5	546.3
30°	639.7	609.3	586.4	566.5	551.9	542.3	538.2	534.8	530.3	528.6	526.9
32.5°	605.8	578.4	558.8	541.4	527.6	521.3	517.5	514.5	510.9	509.2	505.9
35°	557.7	534.8	515.7	506.1	494.9	489.4	486.6	482.3	479.1	477.4	477.0
37.5°	512.5	492.6	480.0	467.7	463.0	459.7	455.7	452.8	451.8	451.6	451.2
40°	483.2	467.0	455.8	445.7	443.7	438.6	435.4	432.8	432.8	433.3	432.8
42.5°	456.6	442.0	432.1	423.5	421.0	418.0	414.7	414.5	415.2	416.6	415.2
45°	416.2	405.8	398.7	394.5	390.0	387.0	386.6	387.9	388.3	388.7	390.0
47.5°	379.0	372.2	365.7	361.2	359.1	358.7	358.2	360.4	362.3	363.1	365.0
50°	357.1	349.2	343.8	340.9	339.2	338.3	339.2	341.7	343.3	345.4	346.7
52.5°	332.5	326.9	323.1	320.9	320.2	320.7	320.9	323.8	326.4	327.1	327.8
55°	298.4	294.2	293.4	289.7	291.3	290.9	293.0	294.6	297.2	299.6	300.1
57.5°	264.5	261.1	258.9	259.2	259.7	261.5	263.3	266.2	268.9	271.5	271.7
60°	241.8	240.1	238.9	238.9	239.7	242.2	244.3	247.2	248.9	250.5	251.8
62.5°	221.2	219.5	218.3	218.9	221.1	222.6	225.0	226.6	228.2	229.9	230.5
65°	188.5	187.7	189.0	189.8	190.2	192.2	195.2	196.4	198.1	198.9	201.9
67.5°	158.5	158.7	158.5	159.6	162.1	162.6	165.3	168.2	168.5	170.2	172.0
70°	138.2	139.0	139.8	140.6	142.8	143.6	145.7	146.9	148.5	149.9	151.1
72.5°	119.5	119.7	120.5	120.3	122.1	123.9	125.7	126.9	128.6	130.2	131.4
75°	92.0	92.0	92.8	93.2	95.3	97.4	96.9	97.8	99.5	101.1	102.0
77.5°	67.2	66.3	67.2	67.6	68.2	70.0	70.4	71.5	73.4	72.8	73.8
80°	51.2	50.0	51.2	51.6	51.6	53.7	53.7	54.5	55.8	54.5	55.8
82.5°	36.5	36.0	36.9	36.9	37.6	37.7	38.4	38.6	39.8	39.2	39.8
85°	18.3	17.9	18.3	17.9	18.3	18.8	18.8	18.3	18.3	19.2	17.9
87.5°	6.4	6.2	6.0	6.1	6.0	5.7	5.5	5.5	5.6	5.1	5.1
90°	3.8	4.5	5.1	5.7	6.4	6.9	7.3	7.7	8.2	8.5	8.8
92.5°	6.8	6.8	7.2	7.5	7.7	8.1	8.3	8.5	8.7	8.9	9.0
95°	12.4	11.4	12.0	12.5	13.0	13.6	13.9	14.3	14.8	15.2	15.3
97.5°	16.1	13.2	14.4	15.7	17.0	18.2	18.5	18.8	19.2	19.4	19.6
100°	19.2	14.6	15.9	17.2	18.5	19.9	20.5	21.1	21.7	22.3	22.7
102.5°	71.1	64.5	53.5	42.5	31.5	20.4	21.2	22.0	22.8	23.6	24.1
105°	115.2	105.8	84.7	63.5	42.4	21.3	22.1	23.0	23.8	24.7	25.3
107.5°	142.9	131.2	105.8	80.5	55.1	29.8	28.9	28.0	27.1	26.3	26.0
110°	160.9	150.5	128.1	105.7	83.3	61.0	53.2	45.5	37.7	30.0	26.3



TEST NUMBER: P331525-930

CATALOG NUMBER: S122DIW-S675D435U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	178.0	175.9	170.4	164.9	159.3	153.8	125.6	97.3	69.1	40.8	26.8
115°	205.6	207.2	209.2	211.2	213.0	215.0	179.1	143.3	107.5	71.6	50.9
117.5°	231.4	232.8	234.2	235.5	236.8	238.1	229.5	220.8	212.1	203.4	190.0
120°	248.6	249.9	251.3	252.7	254.0	255.4	256.3	257.3	258.2	259.2	254.4
122.5°	264.4	265.8	267.3	268.8	270.4	271.9	272.5	273.0	273.5	274.1	273.4
125°	287.3	288.5	290.1	291.6	293.0	294.5	295.0	295.5	296.1	296.6	297.0
127.5°	309.3	310.4	311.5	312.6	313.7	314.8	315.6	316.4	317.2	318.0	318.4
130°	323.4	324.5	325.4	326.2	327.1	327.9	328.7	329.6	330.4	331.3	331.7
132.5°	336.6	337.6	338.4	339.3	340.1	341.0	341.8	342.5	343.2	343.9	344.2
135°	355.6	356.4	357.2	357.9	358.6	359.3	360.0	360.9	361.6	362.4	362.6
137.5°	372.3	373.2	374.0	374.8	375.5	376.3	377.1	377.9	378.6	379.4	379.6
140°	383.4	384.1	385.0	385.8	386.6	387.5	388.2	388.9	389.6	390.3	390.4
142.5°	393.1	394.0	394.8	395.8	396.8	397.8	398.4	399.1	399.7	400.4	400.5
145°	406.3	407.0	408.3	409.6	410.9	412.2	412.8	413.4	413.8	414.4	414.5
147.5°	419.2	419.7	421.0	422.3	423.6	424.9	425.3	425.7	426.2	426.6	426.6
150°	427.1	427.5	428.8	430.0	431.2	432.4	432.9	433.4	433.8	434.3	434.4
152.5°	434.4	434.7	435.9	437.1	438.2	439.4	439.9	440.3	440.8	441.3	441.2
155°	445.0	445.2	446.1	446.9	447.9	448.8	449.3	449.8	450.2	450.7	450.6
157.5°	454.0	454.0	454.7	455.3	456.0	456.6	457.1	457.7	458.2	458.8	458.7
160°	459.5	459.5	460.0	460.5	460.9	461.4	461.9	462.3	462.8	463.3	463.2
162.5°	464.0	464.0	464.3	464.7	465.1	465.5	466.1	466.6	467.2	467.7	467.6
165°	469.9	469.9	470.1	470.3	470.6	470.8	471.3	471.9	472.4	473.0	473.0
167.5°	474.4	474.3	474.5	474.7	475.0	475.2	475.7	476.3	476.8	477.4	477.3
170°	477.0	476.8	477.0	477.1	477.3	477.4	477.9	478.5	479.1	479.6	479.5
172.5°	478.6	478.5	478.6	478.7	478.9	479.1	479.6	480.1	480.7	481.3	481.2
175°	480.5	480.3	480.5	480.6	480.7	480.9	481.4	482.0	482.5	483.1	483.0
177.5°	481.3	481.0	481.1	481.2	481.3	481.3	481.8	482.2	482.6	483.1	483.0
180°	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6



TEST NUMBER: P331525-930

CATALOG NUMBER: S122DIW-S675D435U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1038.7	1038.0	1038.0	1035.0	1038.0	1038.0	1038.7	1042.0	1043.0	1043.7	1042.4
5°	963.5	962.2	960.2	962.2	960.2	962.2	963.5	969.3	972.2	975.2	977.6
7.5°	889.2	884.2	883.5	878.5	883.5	884.2	889.2	891.9	897.7	904.3	910.3
10°	834.9	831.5	831.1	823.2	831.1	831.5	834.9	842.0	847.8	855.7	864.1
12.5°	793.6	785.6	787.2	782.6	787.2	785.6	793.6	793.7	800.5	805.4	818.4
15°	722.1	722.1	720.4	713.4	720.4	722.1	722.1	733.4	735.4	743.3	754.6
17.5°	670.7	669.9	665.9	667.9	665.9	669.9	670.7	679.0	680.4	691.0	700.2
20°	640.1	637.6	632.6	632.6	632.6	637.6	640.1	644.7	650.1	656.3	664.2
22.5°	611.1	611.0	605.7	607.3	605.7	611.0	611.1	615.4	620.4	627.4	634.0
25°	577.2	574.0	571.4	572.7	571.4	574.0	577.2	577.7	583.5	588.1	592.2
27.5°	545.1	543.3	543.2	539.7	543.2	543.3	545.1	546.3	549.5	552.2	556.1
30°	526.5	522.4	523.2	521.1	523.2	522.4	526.5	526.9	528.6	530.3	534.8
32.5°	505.2	503.7	502.9	501.1	502.9	503.7	505.2	505.9	509.2	510.9	514.5
35°	476.1	476.5	474.5	475.3	474.5	476.5	476.1	477.0	477.4	479.1	482.3
37.5°	450.8	452.1	451.1	451.3	451.1	452.1	450.8	451.2	451.6	451.8	452.8
40°	434.1	434.1	434.1	435.4	434.1	434.1	434.1	432.8	433.3	432.8	432.8
42.5°	418.1	417.4	416.8	416.7	416.8	417.4	418.1	415.2	416.6	415.2	414.5
45°	390.8	392.1	392.5	390.4	392.5	392.1	390.8	390.0	388.7	388.3	387.9
47.5°	366.1	366.2	366.1	367.9	366.1	366.2	366.1	365.0	363.1	362.3	360.4
50°	348.8	348.0	348.8	348.0	348.8	348.0	348.8	346.7	345.4	343.3	341.7
52.5°	330.4	330.6	330.1	330.0	330.1	330.6	330.4	327.8	327.1	326.4	323.8
55°	301.7	302.6	302.1	302.1	302.1	302.6	301.7	300.1	299.6	297.2	294.6
57.5°	272.1	272.8	273.4	271.5	273.4	272.8	272.1	271.7	271.5	268.9	266.2
60°	251.4	253.5	253.1	252.3	253.1	253.5	251.4	251.8	250.5	248.9	247.2
62.5°	232.4	233.2	233.1	232.9	233.1	233.2	232.4	230.5	229.9	228.2	226.6
65°	203.1	203.9	202.7	203.9	202.7	203.9	203.1	201.9	198.9	198.1	196.4
67.5°	171.5	171.8	172.8	173.3	172.8	171.8	171.5	172.0	170.2	168.5	168.2
70°	151.9	151.5	152.7	154.0	152.7	151.5	151.9	151.1	149.9	148.5	146.9
72.5°	131.3	132.2	131.8	132.6	131.8	132.2	131.3	131.4	130.2	128.6	126.9
75°	101.1	102.4	102.0	103.2	102.0	102.4	101.1	102.0	101.1	99.5	97.8
77.5°	73.1	73.2	73.1	73.8	73.1	73.2	73.1	73.8	72.8	73.4	71.5
80°	55.8	55.0	54.1	55.8	54.1	55.0	55.8	55.8	54.5	55.8	54.5
82.5°	38.8	39.3	38.5	38.5	38.5	39.3	38.8	39.8	39.2	39.8	38.6
85°	17.9	17.4	16.6	16.6	16.6	17.4	17.9	17.9	19.2	18.3	18.3
87.5°	5.1	4.8	4.8	4.6	4.8	4.8	5.1	5.1	5.1	5.6	5.5
90°	9.0	9.1	9.3	9.4	9.3	9.1	9.0	8.8	8.5	8.2	7.7
92.5°	9.1	9.2	9.3	9.4	9.3	9.2	9.1	9.0	8.9	8.7	8.5
95°	15.2	15.2	15.1	15.0	15.1	15.2	15.2	15.3	15.2	14.8	14.3
97.5°	19.7	19.8	19.9	20.0	19.9	19.8	19.7	19.6	19.4	19.2	18.8
100°	22.9	23.1	23.2	23.3	23.2	23.1	22.9	22.7	22.3	21.7	21.1
102.5°	24.4	24.6	24.8	25.0	24.8	24.6	24.4	24.1	23.6	22.8	22.0
105°	25.5	25.8	26.2	26.5	26.2	25.8	25.5	25.3	24.7	23.8	23.0
107.5°	26.3	26.7	26.9	27.2	26.9	26.7	26.3	26.0	26.3	27.1	28.0
110°	26.6	26.9	27.2	27.6	27.2	26.9	26.6	26.3	30.0	37.7	45.5



TEST NUMBER: P331525-930

CATALOG NUMBER: S122DIW-S675D435U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	27.1	27.3	27.6	27.8	27.6	27.3	27.1	26.8	40.8	69.1	97.3
115°	45.3	39.7	34.2	28.5	34.2	39.7	45.3	50.9	71.6	107.5	143.3
117.5°	171.6	153.3	135.0	116.7	135.0	153.3	171.6	190.0	203.4	212.1	220.8
120°	243.9	233.5	223.0	212.5	223.0	233.5	243.9	254.4	259.2	258.2	257.3
122.5°	271.3	269.3	267.3	265.2	267.3	269.3	271.3	273.4	274.1	273.5	273.0
125°	297.3	297.5	297.7	297.9	297.7	297.5	297.3	297.0	296.6	296.1	295.5
127.5°	318.5	318.5	318.5	318.5	318.5	318.5	318.5	318.4	318.0	317.2	316.4
130°	331.7	331.6	331.5	331.4	331.5	331.6	331.7	331.7	331.3	330.4	329.6
132.5°	344.1	344.1	344.1	344.0	344.1	344.1	344.1	344.2	343.9	343.2	342.5
135°	362.6	362.4	362.2	362.1	362.2	362.4	362.6	362.6	362.4	361.6	360.9
137.5°	379.4	379.1	378.9	378.5	378.9	379.1	379.4	379.6	379.4	378.6	377.9
140°	390.0	389.6	389.3	388.9	389.3	389.6	390.0	390.4	390.3	389.6	388.9
142.5°	400.1	399.7	399.3	398.9	399.3	399.7	400.1	400.5	400.4	399.7	399.1
145°	414.1	413.7	413.4	412.9	413.4	413.7	414.1	414.5	414.4	413.8	413.4
147.5°	426.2	425.9	425.6	425.3	425.6	425.9	426.2	426.6	426.6	426.2	425.7
150°	434.0	433.6	433.2	432.8	433.2	433.6	434.0	434.4	434.3	433.8	433.4
152.5°	440.8	440.3	439.7	439.2	439.7	440.3	440.8	441.2	441.3	440.8	440.3
155°	450.0	449.4	448.7	448.2	448.7	449.4	450.0	450.6	450.7	450.2	449.8
157.5°	458.1	457.5	456.9	456.3	456.9	457.5	458.1	458.7	458.8	458.2	457.7
160°	462.7	462.1	461.5	461.1	461.5	462.1	462.7	463.2	463.3	462.8	462.3
162.5°	466.9	466.3	465.6	465.0	465.6	466.3	466.9	467.6	467.7	467.2	466.6
165°	472.4	471.9	471.3	470.8	471.3	471.9	472.4	473.0	473.0	472.4	471.9
167.5°	476.5	475.9	475.2	474.5	475.2	475.9	476.5	477.3	477.4	476.8	476.3
170°	478.8	478.1	477.4	476.7	477.4	478.1	478.8	479.5	479.6	479.1	478.5
172.5°	480.5	479.8	479.1	478.4	479.1	479.8	480.5	481.2	481.3	480.7	480.1
175°	482.2	481.4	480.6	479.9	480.6	481.4	482.2	483.0	483.1	482.5	482.0
177.5°	482.4	481.8	481.3	480.8	481.3	481.8	482.4	483.0	483.1	482.6	482.2
180°	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6



TEST NUMBER: P331525-930

CATALOG NUMBER: S122DIW-S675D435U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1040.6	1044.3	1049.9	1056.0	1059.6	1066.7	1068.6	1072.0	1075.0	1082.0	1089.2
5°	980.6	986.3	1000.1	1007.6	1018.0	1030.0	1038.0	1046.4	1055.5	1071.3	1085.8
7.5°	916.2	925.9	942.9	956.9	971.8	989.0	1001.5	1018.0	1031.7	1053.9	1075.3
10°	873.2	886.9	902.3	918.9	939.8	958.1	975.6	996.4	1013.0	1039.7	1064.6
12.5°	834.5	836.7	858.7	877.0	905.5	928.1	948.3	975.1	991.4	1023.0	1049.3
15°	767.0	779.5	799.5	814.1	847.8	876.5	904.8	932.7	951.5	990.5	1025.1
17.5°	710.2	721.7	742.2	766.1	790.3	818.8	855.4	884.8	910.3	955.0	995.9
20°	674.3	688.4	709.2	733.8	755.0	786.2	817.8	851.5	879.0	929.4	977.2
22.5°	643.6	654.8	671.6	695.8	719.0	747.5	782.2	818.9	847.7	902.0	950.6
25°	600.5	609.8	620.5	640.5	666.8	698.0	725.0	765.4	807.4	858.2	916.9
27.5°	561.7	568.3	577.9	595.4	615.7	644.9	675.0	713.3	755.5	810.7	872.6
30°	538.2	542.3	551.9	566.5	586.4	609.3	639.7	676.3	719.6	775.3	837.0
32.5°	517.5	521.3	527.6	541.4	558.8	578.4	605.8	642.4	683.6	738.4	806.7
35°	486.6	489.4	494.9	506.1	515.7	534.8	557.7	591.0	629.7	682.2	752.9
37.5°	455.7	459.7	463.0	467.7	480.0	492.6	512.5	540.6	578.6	631.5	699.0
40°	435.4	438.6	443.7	445.7	455.8	467.0	483.2	509.0	547.3	595.6	661.4
42.5°	414.7	418.0	421.0	423.5	432.1	442.0	456.6	478.7	512.7	559.6	624.7
45°	386.6	387.0	390.0	394.5	398.7	405.8	416.2	435.4	461.5	505.6	564.8
47.5°	358.2	358.7	359.1	361.2	365.7	372.2	379.0	394.6	418.1	453.3	510.9
50°	339.2	338.3	339.2	340.9	343.8	349.2	357.1	368.4	387.5	420.4	473.2
52.5°	320.9	320.7	320.2	320.9	323.1	326.9	332.5	342.0	359.1	389.4	435.9
55°	293.0	290.9	291.3	289.7	293.4	294.2	298.4	306.3	321.3	342.1	385.8
57.5°	263.3	261.5	259.7	259.2	258.9	261.1	264.5	270.7	282.2	300.4	335.9
60°	244.3	242.2	239.7	238.9	238.9	240.1	241.8	246.4	257.2	273.5	302.6
62.5°	225.0	222.6	221.1	218.9	218.3	219.5	221.2	224.5	232.2	247.4	272.6
65°	195.2	192.2	190.2	189.8	189.0	187.7	188.5	191.8	198.1	210.2	230.2
67.5°	165.3	162.6	162.1	159.6	158.5	158.7	158.5	161.3	165.1	175.5	190.4
70°	145.7	143.6	142.8	140.6	139.8	139.0	138.2	140.6	144.4	153.2	166.1
72.5°	125.7	123.9	122.1	120.3	120.5	119.7	119.5	121.0	124.1	132.2	142.1
75°	96.9	97.4	95.3	93.2	92.8	92.0	92.0	93.2	94.5	100.7	108.6
77.5°	70.4	70.0	68.2	67.6	67.2	66.3	67.2	68.0	68.6	72.8	78.7
80°	53.7	53.7	51.6	51.6	51.2	50.0	51.2	50.4	52.0	56.2	60.3
82.5°	38.4	37.7	37.6	36.9	36.9	36.0	36.5	37.3	38.1	40.8	43.4
85°	18.8	18.8	18.3	17.9	18.3	17.9	18.3	18.8	19.2	20.4	22.5
87.5°	5.5	5.7	6.0	6.1	6.0	6.2	6.4	6.6	7.1	7.3	7.4
90°	7.3	6.9	6.4	5.7	5.1	4.5	3.8	2.9	2.0	1.2	0.3
92.5°	8.3	8.1	7.7	7.5	7.2	6.8	6.8	6.8	6.8	6.9	7.0
95°	13.9	13.6	13.0	12.5	12.0	11.4	12.4	15.0	17.5	20.1	22.7
97.5°	18.5	18.2	17.0	15.7	14.4	13.2	16.1	23.3	30.6	37.7	44.9
100°	20.5	19.9	18.5	17.2	15.9	14.6	19.2	29.8	40.4	51.0	61.7
102.5°	21.2	20.4	31.5	42.5	53.5	64.5	71.1	73.4	75.6	77.9	80.1
105°	22.1	21.3	42.4	63.5	84.7	105.8	115.2	112.9	110.6	108.3	105.9
107.5°	28.9	29.8	55.1	80.5	105.8	131.2	142.9	141.0	139.2	137.3	135.4
110°	53.2	61.0	83.3	105.7	128.1	150.5	160.9	159.2	157.6	156.0	154.3



TEST NUMBER: P331525-930

CATALOG NUMBER: S122DIW-S675D435U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	125.6	153.8	159.3	164.9	170.4	175.9	178.0	176.5	175.1	173.7	172.2
115°	179.1	215.0	213.0	211.2	209.2	207.2	205.6	204.3	203.0	201.7	200.4
117.5°	229.5	238.1	236.8	235.5	234.2	232.8	231.4	229.9	228.4	227.0	225.5
120°	256.3	255.4	254.0	252.7	251.3	249.9	248.6	247.4	246.2	245.1	243.9
122.5°	272.5	271.9	270.4	268.8	267.3	265.8	264.4	263.2	262.0	260.7	259.5
125°	295.0	294.5	293.0	291.6	290.1	288.5	287.3	286.3	285.4	284.3	283.3
127.5°	315.6	314.8	313.7	312.6	311.5	310.4	309.3	308.2	307.0	306.0	304.8
130°	328.7	327.9	327.1	326.2	325.4	324.5	323.4	322.2	321.0	319.8	318.5
132.5°	341.8	341.0	340.1	339.3	338.4	337.6	336.6	335.6	334.5	333.5	332.5
135°	360.0	359.3	358.6	357.9	357.2	356.4	355.6	354.2	353.0	351.8	350.6
137.5°	377.1	376.3	375.5	374.8	374.0	373.2	372.3	371.5	370.6	369.7	368.9
140°	388.2	387.5	386.6	385.8	385.0	384.1	383.4	382.7	382.1	381.5	380.9
142.5°	398.4	397.8	396.8	395.8	394.8	394.0	393.1	392.6	392.0	391.5	390.9
145°	412.8	412.2	410.9	409.6	408.3	407.0	406.3	406.4	406.5	406.6	406.7
147.5°	425.3	424.9	423.6	422.3	421.0	419.7	419.2	419.6	419.8	420.1	420.4
150°	432.9	432.4	431.2	430.0	428.8	427.5	427.1	427.7	428.2	428.8	429.3
152.5°	439.9	439.4	438.2	437.1	435.9	434.7	434.4	435.0	435.6	436.3	436.8
155°	449.3	448.8	447.9	446.9	446.1	445.2	445.0	445.7	446.4	447.1	447.8
157.5°	457.1	456.6	456.0	455.3	454.7	454.0	454.0	454.6	455.2	455.8	456.3
160°	461.9	461.4	460.9	460.5	460.0	459.5	459.5	460.0	460.5	460.9	461.4
162.5°	466.1	465.5	465.1	464.7	464.3	464.0	464.0	464.5	464.9	465.4	465.9
165°	471.3	470.8	470.6	470.3	470.1	469.9	469.9	470.4	470.9	471.4	471.8
167.5°	475.7	475.2	475.0	474.7	474.5	474.3	474.4	474.9	475.4	475.8	476.3
170°	477.9	477.4	477.3	477.1	477.0	476.8	477.0	477.4	477.8	478.3	478.8
172.5°	479.6	479.1	478.9	478.7	478.6	478.5	478.6	479.1	479.6	480.0	480.5
175°	481.4	480.9	480.7	480.6	480.5	480.3	480.5	481.0	481.5	482.1	482.7
177.5°	481.8	481.3	481.3	481.2	481.1	481.0	481.3	481.7	482.1	482.6	483.0
180°	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6



TEST NUMBER: P331525-930

CATALOG NUMBER: S122DIW-S675D435U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1088.6	1090.3	1095.6	1100.9	1106.9	1108.6	1111.3	1108.9	1108.2	1114.6	1119.2
5°	1091.7	1099.2	1113.8	1127.1	1138.3	1146.2	1154.5	1157.9	1164.1	1172.8	1183.7
7.5°	1088.2	1102.8	1125.7	1145.0	1166.2	1181.5	1193.4	1203.5	1215.8	1232.3	1250.4
10°	1084.2	1103.8	1131.6	1155.4	1181.1	1200.7	1217.0	1232.7	1251.1	1274.0	1297.7
12.5°	1076.8	1100.1	1135.0	1163.0	1196.1	1215.4	1237.3	1271.4	1291.0	1322.9	1356.3
15°	1062.2	1087.9	1136.6	1171.2	1208.6	1245.3	1285.6	1318.1	1350.5	1369.3	1416.3
17.5°	1040.2	1078.2	1132.0	1172.3	1219.9	1277.7	1323.0	1359.8	1397.3	1427.7	1451.2
20°	1022.6	1063.8	1125.4	1173.7	1230.3	1292.2	1344.3	1381.8	1414.2	1439.7	1454.2
22.5°	1000.3	1052.1	1112.1	1168.7	1241.0	1302.3	1357.0	1386.4	1413.6	1426.0	1431.6
25°	965.2	1027.6	1095.4	1164.5	1246.1	1311.0	1361.0	1378.8	1386.7	1374.7	1354.7
27.5°	927.3	996.9	1076.2	1156.7	1242.9	1305.4	1341.2	1338.3	1324.9	1285.9	1254.7
30°	898.9	975.6	1060.9	1148.7	1235.3	1296.0	1316.9	1296.0	1265.7	1222.0	1177.5
32.5°	869.4	948.6	1044.6	1137.3	1221.3	1274.7	1279.2	1243.4	1196.4	1146.7	1091.2
35°	824.5	910.2	1013.8	1112.1	1191.6	1225.3	1205.3	1142.1	1086.3	1018.5	942.6
37.5°	773.8	868.5	972.4	1075.1	1147.0	1155.8	1106.3	1039.7	961.0	881.3	792.1
40°	735.8	836.2	943.1	1046.8	1110.4	1101.2	1038.0	964.7	871.1	773.7	690.9
42.5°	701.9	802.2	911.1	1012.8	1063.8	1038.7	964.7	874.8	774.2	682.5	606.7
45°	643.0	746.2	857.8	956.0	985.1	939.8	842.0	742.1	643.0	566.5	506.5
47.5°	586.0	687.9	798.4	884.8	895.0	834.1	727.2	624.4	539.2	476.9	434.6
50°	544.0	646.4	755.8	832.8	829.5	755.8	646.0	548.1	477.0	426.6	398.3
52.5°	506.4	603.1	708.2	778.2	760.6	680.2	575.4	488.5	430.0	390.6	365.0
55°	447.8	537.3	637.2	693.4	660.9	571.9	483.2	413.3	370.0	340.5	320.5
57.5°	389.7	473.6	559.1	593.8	557.9	475.6	401.7	351.0	318.5	296.6	283.6
60°	353.8	427.1	503.2	533.1	490.2	417.0	358.7	313.4	287.1	269.3	257.6
62.5°	317.8	383.4	455.3	471.6	432.4	370.4	318.8	281.1	259.5	243.6	232.7
65°	268.9	322.5	377.1	387.9	351.7	303.9	263.0	238.5	219.3	207.7	198.9
67.5°	220.5	263.6	302.2	311.0	279.2	246.1	216.6	195.2	182.2	172.5	165.2
70°	191.8	226.0	257.6	264.7	239.3	209.8	187.3	170.2	158.6	150.3	143.2
72.5°	161.6	190.0	216.3	221.1	200.3	177.8	159.3	145.9	135.6	130.3	123.5
75°	123.6	140.2	160.6	161.9	148.1	134.4	120.3	111.5	106.2	99.5	96.1
77.5°	87.2	100.3	111.9	114.2	106.1	96.7	88.8	81.9	77.3	74.3	71.2
80°	66.6	77.0	82.0	84.9	79.1	72.4	67.8	63.3	60.3	58.3	56.2
82.5°	47.6	54.1	58.7	60.9	57.8	53.8	49.2	46.6	44.4	42.6	41.9
85°	24.1	27.1	30.0	30.8	30.0	28.3	25.8	25.8	24.5	24.1	24.1
87.5°	8.6	10.0	10.3	11.4	10.9	11.0	11.2	10.9	10.7	10.4	10.2
90°	1.2	2.0	2.9	3.8	4.5	5.1	5.7	6.4	6.9	7.3	7.7
92.5°	6.9	6.8	6.8	6.8	6.8	7.2	7.5	7.7	8.1	8.3	8.5
95°	20.1	17.5	15.0	12.4	11.4	12.0	12.5	13.0	13.6	13.9	14.3
97.5°	37.7	30.6	23.3	16.1	13.2	14.4	15.7	17.0	18.2	18.5	18.8
100°	51.0	40.4	29.8	19.2	14.6	15.9	17.2	18.5	19.9	20.5	21.1
102.5°	77.9	75.6	73.4	71.1	64.5	53.5	42.5	31.5	20.4	21.2	22.0
105°	108.3	110.6	112.9	115.2	105.8	84.7	63.5	42.4	21.3	22.1	23.0
107.5°	137.3	139.2	141.0	142.9	131.2	105.8	80.5	55.1	29.8	28.9	28.0
110°	156.0	157.6	159.2	160.9	150.5	128.1	105.7	83.3	61.0	53.2	45.5





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	173.7	175.1	176.5	178.0	175.9	170.4	164.9	159.3	153.8	125.6	97.3
115°	201.7	203.0	204.3	205.6	207.2	209.2	211.2	213.0	215.0	179.1	143.3
117.5°	227.0	228.4	229.9	231.4	232.8	234.2	235.5	236.8	238.1	229.5	220.8
120°	245.1	246.2	247.4	248.6	249.9	251.3	252.7	254.0	255.4	256.3	257.3
122.5°	260.7	262.0	263.2	264.4	265.8	267.3	268.8	270.4	271.9	272.5	273.0
125°	284.3	285.4	286.3	287.3	288.5	290.1	291.6	293.0	294.5	295.0	295.5
127.5°	306.0	307.0	308.2	309.3	310.4	311.5	312.6	313.7	314.8	315.6	316.4
130°	319.8	321.0	322.2	323.4	324.5	325.4	326.2	327.1	327.9	328.7	329.6
132.5°	333.5	334.5	335.6	336.6	337.6	338.4	339.3	340.1	341.0	341.8	342.5
135°	351.8	353.0	354.2	355.6	356.4	357.2	357.9	358.6	359.3	360.0	360.9
137.5°	369.7	370.6	371.5	372.3	373.2	374.0	374.8	375.5	376.3	377.1	377.9
140°	381.5	382.1	382.7	383.4	384.1	385.0	385.8	386.6	387.5	388.2	388.9
142.5°	391.5	392.0	392.6	393.1	394.0	394.8	395.8	396.8	397.8	398.4	399.1
145°	406.6	406.5	406.4	406.3	407.0	408.3	409.6	410.9	412.2	412.8	413.4
147.5°	420.1	419.8	419.6	419.2	419.7	421.0	422.3	423.6	424.9	425.3	425.7
150°	428.8	428.2	427.7	427.1	427.5	428.8	430.0	431.2	432.4	432.9	433.4
152.5°	436.3	435.6	435.0	434.4	434.7	435.9	437.1	438.2	439.4	439.9	440.3
155°	447.1	446.4	445.7	445.0	445.2	446.1	446.9	447.9	448.8	449.3	449.8
157.5°	455.8	455.2	454.6	454.0	454.0	454.7	455.3	456.0	456.6	457.1	457.7
160°	460.9	460.5	460.0	459.5	459.5	460.0	460.5	460.9	461.4	461.9	462.3
162.5°	465.4	464.9	464.5	464.0	464.0	464.3	464.7	465.1	465.5	466.1	466.6
165°	471.4	470.9	470.4	469.9	469.9	470.1	470.3	470.6	470.8	471.3	471.9
167.5°	475.8	475.4	474.9	474.4	474.3	474.5	474.7	475.0	475.2	475.7	476.3
170°	478.3	477.8	477.4	477.0	476.8	477.0	477.1	477.3	477.4	477.9	478.5
172.5°	480.0	479.6	479.1	478.6	478.5	478.6	478.7	478.9	479.1	479.6	480.1
175°	482.1	481.5	481.0	480.5	480.3	480.5	480.6	480.7	480.9	481.4	482.0
177.5°	482.6	482.1	481.7	481.3	481.0	481.1	481.2	481.3	481.3	481.8	482.2
180°	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1123.2	1127.9	1127.9	1128.5	1133.9	1133.2	1132.9
5°	1195.3	1202.4	1203.2	1210.7	1215.7	1214.1	1209.5
7.5°	1263.3	1276.5	1286.5	1292.0	1298.6	1302.7	1300.9
10°	1317.3	1336.4	1348.1	1356.0	1365.5	1372.6	1370.1
12.5°	1366.2	1389.0	1405.0	1418.5	1419.8	1428.9	1422.7
15°	1442.5	1466.6	1469.2	1479.2	1487.1	1486.2	1486.6
17.5°	1467.8	1475.5	1477.1	1477.3	1477.4	1474.5	1468.2
20°	1458.7	1455.9	1448.8	1443.4	1433.8	1432.6	1424.2
22.5°	1416.2	1406.9	1389.2	1377.4	1362.5	1358.6	1356.3
25°	1332.3	1311.8	1283.5	1256.5	1249.0	1234.4	1238.6
27.5°	1217.2	1185.4	1154.7	1132.7	1112.8	1091.0	1097.2
30°	1136.2	1100.4	1057.1	1023.9	1002.7	981.8	978.0
32.5°	1039.7	987.2	938.9	909.6	877.1	864.0	849.5
35°	873.2	822.0	774.1	733.0	709.2	690.9	674.3
37.5°	723.4	664.5	625.9	592.5	575.4	564.8	567.5
40°	630.6	578.9	550.7	525.2	509.4	501.9	503.6
42.5°	555.3	516.7	493.3	476.0	464.8	460.6	459.7
45°	469.9	448.3	429.1	419.1	413.7	409.1	406.2
47.5°	411.6	394.0	383.2	377.2	372.5	367.9	367.8
50°	376.7	365.0	357.5	351.2	347.6	344.2	347.1
52.5°	350.0	339.3	331.9	326.3	324.9	321.9	321.8
55°	310.5	302.1	296.8	291.7	289.3	287.6	285.5
57.5°	274.5	266.6	261.6	258.4	253.7	252.0	251.4
60°	248.9	242.6	237.7	233.5	231.4	228.0	228.0
62.5°	225.3	219.0	214.3	211.2	207.7	206.4	206.8
65°	191.0	186.1	181.5	178.1	177.3	174.8	175.6
67.5°	159.6	156.2	151.4	149.6	148.0	146.7	145.7
70°	138.6	135.3	132.7	130.3	129.0	129.0	129.0
72.5°	120.9	116.9	115.4	112.3	113.0	111.7	110.4
75°	93.7	91.2	89.9	88.6	86.6	86.6	86.6
77.5°	68.9	68.2	66.7	65.3	64.8	64.4	64.6
80°	53.2	52.8	52.0	52.0	51.2	50.8	50.0
82.5°	40.9	39.9	39.4	39.1	38.9	38.8	38.6
85°	23.3	22.5	22.5	22.9	22.1	22.1	22.5
87.5°	10.6	10.7	10.4	10.4	10.8	10.5	10.5
90°	8.2	8.5	8.8	9.0	9.1	9.3	9.4
92.5°	8.7	8.9	9.0	9.1	9.2	9.3	9.4
95°	14.8	15.2	15.3	15.2	15.2	15.1	15.0
97.5°	19.2	19.4	19.6	19.7	19.8	19.9	20.0
100°	21.7	22.3	22.7	22.9	23.1	23.2	23.3
102.5°	22.8	23.6	24.1	24.4	24.6	24.8	25.0
105°	23.8	24.7	25.3	25.5	25.8	26.2	26.5
107.5°	27.1	26.3	26.0	26.3	26.7	26.9	27.2
110°	37.7	30.0	26.3	26.6	26.9	27.2	27.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	69.1	40.8	26.8	27.1	27.3	27.6	27.8
115°	107.5	71.6	50.9	45.3	39.7	34.2	28.5
117.5°	212.1	203.4	190.0	171.6	153.3	135.0	116.7
120°	258.2	259.2	254.4	243.9	233.5	223.0	212.5
122.5°	273.5	274.1	273.4	271.3	269.3	267.3	265.2
125°	296.1	296.6	297.0	297.3	297.5	297.7	297.9
127.5°	317.2	318.0	318.4	318.5	318.5	318.5	318.5
130°	330.4	331.3	331.7	331.7	331.6	331.5	331.4
132.5°	343.2	343.9	344.2	344.1	344.1	344.1	344.0
135°	361.6	362.4	362.6	362.6	362.4	362.2	362.1
137.5°	378.6	379.4	379.6	379.4	379.1	378.9	378.5
140°	389.6	390.3	390.4	390.0	389.6	389.3	388.9
142.5°	399.7	400.4	400.5	400.1	399.7	399.3	398.9
145°	413.8	414.4	414.5	414.1	413.7	413.4	412.9
147.5°	426.2	426.6	426.6	426.2	425.9	425.6	425.3
150°	433.8	434.3	434.4	434.0	433.6	433.2	432.8
152.5°	440.8	441.3	441.2	440.8	440.3	439.7	439.2
155°	450.2	450.7	450.6	450.0	449.4	448.7	448.2
157.5°	458.2	458.8	458.7	458.1	457.5	456.9	456.3
160°	462.8	463.3	463.2	462.7	462.1	461.5	461.1
162.5°	467.2	467.7	467.6	466.9	466.3	465.6	465.0
165°	472.4	473.0	473.0	472.4	471.9	471.3	470.8
167.5°	476.8	477.4	477.3	476.5	475.9	475.2	474.5
170°	479.1	479.6	479.5	478.8	478.1	477.4	476.7
172.5°	480.7	481.3	481.2	480.5	479.8	479.1	478.4
175°	482.5	483.1	483.0	482.2	481.4	480.6	479.9
177.5°	482.6	483.1	483.0	482.4	481.8	481.3	480.8
180°	481.6	481.6	481.6	481.6	481.6	481.6	481.6

(END OF REPORT)