

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: P331332-940

Luminaire Tested: **SA2XXDIP-C675D330U940-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331332-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXDIP-C675D330U940-4F0-1E-UDD-A4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 330 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3754.6 lumens  
Efficiency: N/A  
Efficacy: 107.3 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

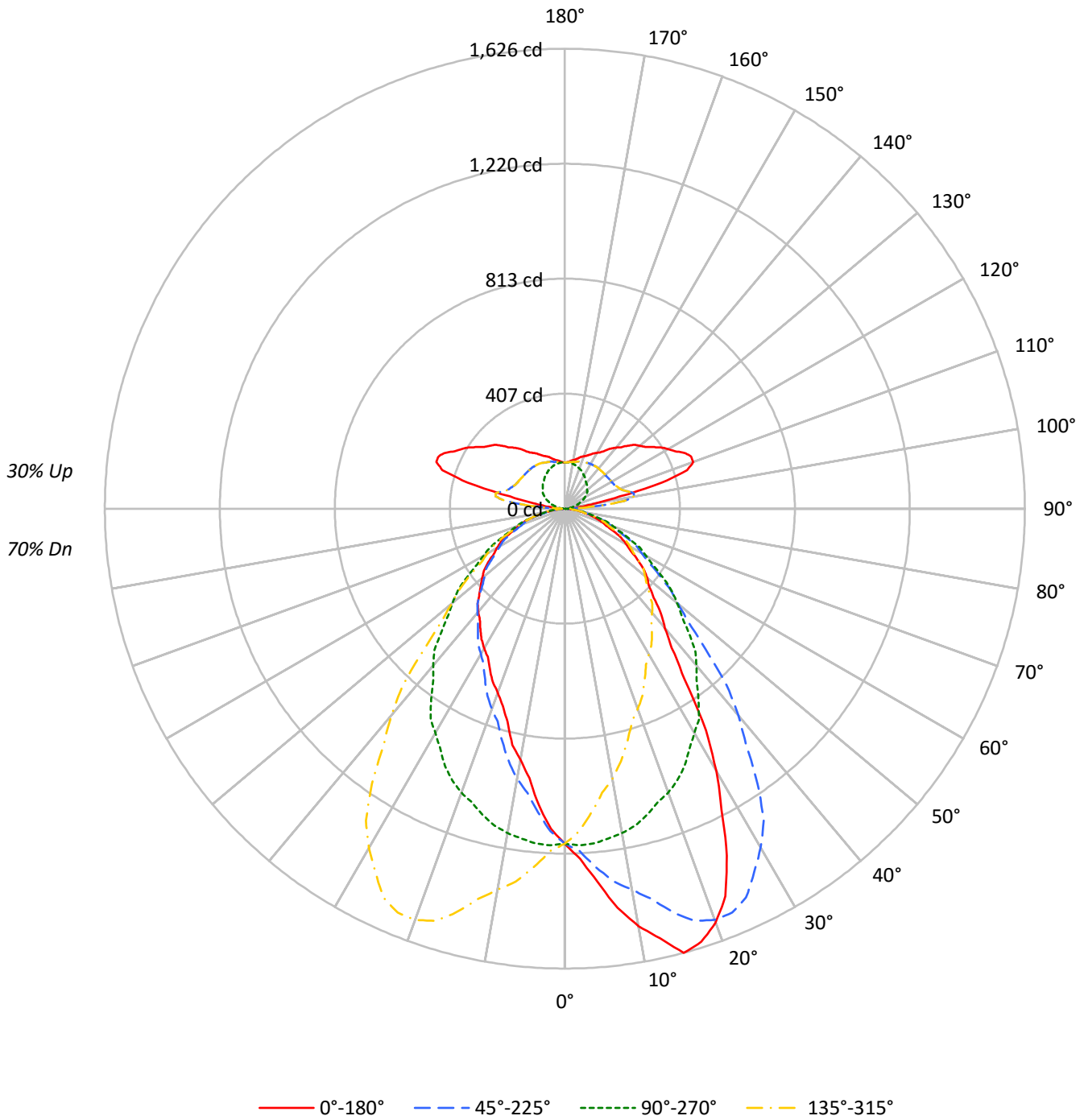
Input Watts (W): 35  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	74	74	74	70	
1	103	99	95	91	97	93	90	87	84	81	79	75	73	71	67	65	64	64	64	64	60	
2	94	87	81	76	89	83	77	73	74	70	66	67	63	61	59	57	55	55	55	55	51	
3	86	77	70	64	82	73	67	62	66	61	57	59	55	52	53	50	48	48	48	48	44	
4	79	69	61	55	75	65	58	53	59	54	49	53	49	45	48	45	42	42	42	42	39	
5	73	62	54	48	69	59	52	46	53	47	43	48	44	40	44	40	37	37	37	37	34	
6	68	56	48	42	64	53	46	41	49	42	38	44	39	35	40	36	33	33	33	33	30	
7	63	51	43	37	60	49	41	36	44	38	34	40	35	32	37	33	29	29	29	29	27	
8	59	46	39	33	56	44	37	32	41	35	30	37	32	28	34	30	27	27	27	27	24	
9	55	43	35	30	52	41	34	29	37	32	27	34	29	26	31	27	24	24	24	24	22	
10	51	39	32	27	49	38	31	26	35	29	25	32	27	24	29	25	22	22	22	22	20	

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

	0°	90°	180°	270°
0°	19125	19125	19125	19125
5°	21441	19248	17057	19248
10°	24568	19090	14762	19090
15°	27178	18740	13041	18740
20°	26764	18364	11888	18364
25°	24134	17865	11158	17865
30°	19943	17066	10625	17066
35°	14534	16232	10247	16232
40°	11609	15247	10037	15247
45°	10145	14104	9750	14104
50°	9535	12999	9560	12999
55°	8791	11879	9303	11879
60°	8054	10685	8909	10685
65°	7339	9616	8520	9616
70°	6661	8573	7950	8573
75°	5908	7411	7043	7411
80°	5086	6137	5672	6137
85°	4557	4557	3372	4557



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.8	3.0
10°-20°	327.9	8.7
20°-30°	475.9	12.7
30°-40°	502.2	13.4
40°-50°	444.7	11.8
50°-60°	354.9	9.5
60°-70°	241.2	6.4
70°-80°	123.7	3.3
80°-90°	31.3	0.8
90°-100°	65.5	1.7
100°-110°	222.3	5.9
110°-120°	236.2	6.3
120°-130°	194.4	5.2
130°-140°	156.1	4.2
140°-150°	118.0	3.1
150°-160°	82.9	2.2
160°-170°	48.8	1.3
170°-180°	15.9	0.4
0°-30°	916.7	24.4
0°-40°	1418.9	37.8
0°-60°	2218.4	59.1
0°-90°	2614.6	69.6
90°-120°	524.0	14.0
90°-150°	992.5	26.4
90°-180°	1140.0	30.4
0°-180°	3754.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1184	1184	1184	1184	1184	
5°	1323	1188	1052	1188	1323	132
15°	1626	1121	780	1121	1626	449
25°	1355	1003	626	1003	1355	612
35°	737	824	520	824	737	480
45°	444	618	427	618	444	349
55°	312	422	330	422	312	280
65°	192	252	223	252	192	191
75°	95	119	113	119	95	101
85°	25	25	18	25	25	27
90°	10	0	10	0	10	7
95°	36	11	36	11	36	47
105°	355	38	355	38	355	344
115°	467	68	467	68	467	458
125°	379	94	379	94	379	343
135°	314	111	314	111	314	244
145°	251	127	251	127	251	159
155°	211	144	211	144	211	98
165°	185	157	185	157	185	53
175°	167	164	167	164	167	16
180°	164	164	164	164	164	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5
2.5°	1239.0	1239.4	1240.2	1234.3	1233.6	1233.6	1228.5	1224.1	1219.1	1212.1	1212.8
5°	1322.9	1327.8	1329.6	1324.2	1316.0	1315.1	1307.3	1294.6	1282.7	1273.2	1266.4
7.5°	1422.8	1424.8	1420.3	1413.1	1407.0	1396.2	1381.7	1367.6	1347.8	1329.7	1316.3
10°	1498.5	1501.3	1493.5	1483.1	1474.4	1461.7	1440.7	1419.3	1393.4	1368.3	1348.3
12.5°	1556.0	1562.8	1552.9	1551.5	1536.7	1519.2	1494.2	1483.5	1446.9	1412.0	1390.5
15°	1625.9	1625.5	1626.5	1617.8	1606.9	1604.1	1577.7	1549.1	1497.6	1477.1	1441.6
17.5°	1605.8	1612.7	1615.9	1615.8	1615.5	1613.8	1605.3	1587.2	1561.5	1528.2	1487.2
20°	1557.7	1566.8	1568.2	1578.7	1584.6	1592.3	1595.4	1590.5	1574.6	1546.8	1511.3
22.5°	1483.5	1485.9	1490.2	1506.5	1519.4	1538.7	1548.9	1565.8	1559.6	1546.0	1516.4
25°	1354.7	1350.1	1366.1	1374.2	1403.8	1434.8	1457.1	1481.7	1503.5	1516.7	1508.1
27.5°	1200.1	1193.3	1217.1	1238.9	1262.9	1296.5	1331.2	1372.3	1406.4	1449.1	1463.7
30°	1069.7	1073.8	1096.6	1119.8	1156.2	1203.5	1242.7	1287.8	1336.5	1384.3	1417.5
32.5°	929.2	944.9	959.3	994.9	1026.9	1079.8	1137.1	1193.5	1254.2	1308.5	1359.9
35°	737.4	755.6	775.7	801.6	846.7	899.0	955.0	1031.0	1113.9	1188.1	1249.1
37.5°	620.7	617.8	629.3	648.0	684.6	726.7	791.2	866.4	963.9	1051.1	1137.1
40°	550.8	548.9	557.1	574.4	602.3	633.2	689.6	755.6	846.2	952.7	1055.2
42.5°	502.7	503.8	508.4	520.6	539.6	565.1	607.3	663.5	746.5	846.8	956.8
45°	444.3	447.5	452.5	458.4	469.3	490.3	513.9	554.0	619.6	703.3	811.6
47.5°	402.3	402.3	407.4	412.6	419.1	430.9	450.2	475.3	521.6	589.8	682.9
50°	379.6	376.5	380.1	384.1	391.0	399.2	412.0	435.6	466.5	521.7	599.5
52.5°	352.0	352.0	355.3	356.9	363.0	371.1	382.8	399.2	427.2	470.3	534.3
55°	312.3	314.5	316.4	319.1	324.6	330.5	339.6	350.5	372.4	404.7	452.0
57.5°	274.9	275.6	277.5	282.7	286.1	291.6	300.2	310.1	324.4	348.3	383.9
60°	249.4	249.4	253.1	255.4	259.9	265.4	272.2	281.8	294.5	314.1	342.8
62.5°	226.1	225.8	227.2	231.0	234.4	239.5	246.4	254.5	266.4	283.8	307.5
65°	192.1	191.2	193.9	194.8	198.5	203.5	208.9	217.6	227.1	239.9	260.8
67.5°	159.3	160.4	161.8	163.6	165.6	170.9	174.5	180.7	188.7	199.3	213.5
70°	141.1	141.1	141.1	142.5	145.2	147.9	151.6	156.6	164.3	173.4	186.2
72.5°	120.7	122.2	123.6	122.8	126.3	127.9	132.2	135.1	142.5	148.3	159.6
75°	94.7	94.7	94.7	96.9	98.4	99.7	102.5	105.1	108.8	116.1	122.0
77.5°	70.6	70.4	70.9	71.4	72.9	74.5	75.3	77.8	81.2	84.5	89.6
80°	54.7	55.6	56.0	56.9	56.9	57.8	58.2	61.4	63.8	66.0	69.2
82.5°	42.3	42.4	42.5	42.7	43.1	43.6	44.8	45.8	46.6	48.5	51.0
85°	24.6	24.2	24.2	25.1	24.6	24.6	25.5	26.4	26.4	26.8	28.2
87.5°	11.6	11.6	11.9	11.6	11.6	11.9	11.7	11.5	11.9	12.3	12.7
90°	10.4	10.4	10.4	10.4	10.4	10.1	9.5	10.1	10.4	10.7	10.4
92.5°	17.5	17.9	17.7	18.7	19.0	21.0	23.5	27.5	34.6	40.9	40.4
95°	35.9	35.6	36.6	39.1	43.2	50.1	63.3	82.6	108.1	123.5	109.3
97.5°	70.7	73.4	77.9	85.7	100.8	123.5	157.6	192.6	221.1	210.8	158.8
100°	112.8	118.5	127.6	141.2	167.3	205.5	248.6	287.7	294.3	248.9	171.4
102.5°	198.5	206.2	217.6	240.7	269.1	309.5	341.1	349.9	321.5	250.1	166.6
105°	355.1	359.4	373.0	392.5	412.1	422.5	418.4	382.8	317.3	233.4	157.2
107.5°	453.6	459.4	462.2	463.2	460.7	445.5	412.8	359.1	289.6	215.5	152.6
110°	483.3	483.7	480.8	474.8	461.3	435.4	395.1	338.7	272.2	207.0	151.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	482.8	481.1	475.7	465.7	446.9	417.2	374.2	320.0	260.1	201.4	151.8
115°	467.3	464.4	456.2	441.8	419.4	386.9	345.6	297.1	245.1	195.4	153.1
117.5°	439.4	437.0	428.5	413.1	390.3	359.9	322.4	279.8	235.7	192.3	155.4
120°	421.6	418.4	409.3	394.5	372.4	343.8	310.3	271.3	230.6	190.6	156.9
122.5°	402.9	400.3	392.2	377.6	357.8	331.9	300.2	264.5	226.3	189.6	158.6
125°	379.1	376.5	368.6	356.7	338.4	314.8	287.0	254.6	220.3	187.8	161.3
127.5°	358.1	356.1	349.3	338.0	322.1	300.3	274.2	244.8	214.5	186.7	164.0
130°	346.3	343.8	337.4	326.7	311.3	290.5	265.6	238.5	210.8	186.2	166.0
132.5°	333.9	331.6	325.8	315.1	300.0	280.4	257.5	232.5	207.8	185.9	168.1
135°	314.1	312.9	307.2	296.8	283.2	265.6	244.8	224.0	203.5	185.6	170.5
137.5°	294.7	292.8	287.8	278.9	266.5	251.2	234.7	217.3	200.5	185.5	172.6
140°	281.3	279.5	274.7	266.5	256.5	242.6	228.1	212.9	198.8	185.3	173.6
142.5°	268.0	267.6	263.4	255.9	246.4	234.8	222.3	209.5	197.1	185.3	174.3
145°	250.7	249.9	246.7	241.3	233.8	224.6	214.9	204.5	194.7	184.6	175.1
147.5°	236.4	235.8	233.6	229.3	223.1	216.4	208.8	200.6	192.3	183.5	175.4
150°	227.8	227.5	225.6	221.8	217.0	211.4	204.8	197.9	190.3	182.7	175.1
152.5°	220.5	220.4	219.0	215.8	212.0	207.1	201.5	195.1	188.5	181.5	174.7
155°	210.8	211.4	210.2	207.9	204.5	201.0	196.3	191.3	185.3	179.2	173.9
157.5°	202.5	202.5	202.0	200.1	197.7	194.9	191.0	186.8	182.2	177.0	172.5
160°	197.2	197.2	196.9	195.4	193.1	190.9	187.4	184.0	179.9	175.5	171.7
162.5°	192.2	192.4	192.2	191.1	188.9	187.2	184.2	181.2	177.9	174.2	170.9
165°	184.9	185.3	185.3	184.0	182.7	181.5	179.2	177.1	174.5	171.7	169.5
167.5°	178.3	178.6	178.7	178.0	177.5	176.3	174.8	173.1	171.3	169.5	168.1
170°	174.2	174.9	175.1	174.2	173.9	173.3	172.0	171.1	169.5	168.3	167.3
172.5°	170.9	171.3	171.7	171.2	170.9	170.5	169.5	168.8	167.7	166.7	166.3
175°	166.7	167.3	167.6	167.3	167.3	167.0	166.7	166.4	165.4	165.1	164.8
177.5°	164.1	164.6	164.9	164.9	164.9	164.9	164.6	164.6	164.1	163.8	164.1
180°	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5
2.5°	1215.4	1212.5	1210.7	1204.1	1198.3	1192.5	1190.6	1191.3	1183.4	1175.7	1172.4
5°	1262.8	1253.7	1245.0	1232.7	1218.2	1202.2	1194.0	1187.6	1171.7	1154.4	1144.4
7.5°	1305.2	1292.2	1275.5	1252.3	1231.2	1206.1	1190.2	1176.1	1152.7	1128.4	1113.4
10°	1331.1	1313.2	1291.8	1263.6	1237.7	1207.2	1185.8	1164.4	1137.1	1108.0	1089.8
12.5°	1353.3	1329.3	1308.2	1272.0	1241.4	1203.2	1177.8	1147.6	1118.9	1084.3	1066.5
15°	1406.1	1362.0	1321.9	1280.9	1243.1	1189.9	1161.7	1121.1	1083.3	1040.6	1020.1
17.5°	1447.0	1397.4	1334.3	1282.2	1238.1	1179.2	1137.7	1089.2	1044.6	995.6	967.8
20°	1470.3	1413.4	1345.6	1283.7	1230.8	1163.5	1118.5	1068.8	1016.5	961.4	931.3
22.5°	1484.2	1424.3	1357.3	1278.2	1216.3	1150.8	1094.0	1039.6	986.6	927.2	895.6
25°	1488.5	1433.9	1362.9	1273.6	1198.1	1123.9	1055.6	1002.8	938.6	883.1	837.1
27.5°	1466.9	1427.7	1359.4	1265.1	1177.1	1090.3	1014.2	954.4	886.6	826.3	780.2
30°	1440.3	1417.5	1351.0	1256.3	1160.3	1067.0	983.2	915.4	848.0	787.0	739.7
32.5°	1399.1	1394.2	1335.8	1243.9	1142.5	1037.5	950.8	882.3	807.6	747.7	702.6
35°	1318.3	1340.2	1303.2	1216.3	1108.8	995.5	901.8	823.5	746.1	688.8	646.4
37.5°	1210.0	1264.2	1254.5	1175.8	1063.5	949.9	846.3	764.5	690.7	632.8	591.3
40°	1135.2	1204.4	1214.5	1144.9	1031.5	914.5	804.8	723.4	651.4	598.6	556.7
42.5°	1055.2	1136.0	1163.5	1107.7	996.5	877.4	767.7	683.2	612.1	560.7	523.6
45°	920.9	1027.9	1077.5	1045.6	938.2	816.2	703.3	617.7	553.0	504.8	476.2
47.5°	795.3	912.2	978.9	967.7	873.3	752.4	640.9	558.7	495.8	457.3	431.6
50°	706.5	826.6	907.2	910.9	826.6	706.9	594.9	517.5	459.8	423.8	402.9
52.5°	629.3	744.0	831.9	851.1	774.5	659.6	553.8	476.8	425.9	392.8	374.1
55°	528.5	625.4	722.8	758.4	696.9	587.6	489.8	422.0	374.2	351.4	335.0
57.5°	439.3	520.2	610.2	649.4	611.5	518.0	426.2	367.4	328.6	308.6	296.0
60°	392.4	456.1	536.2	583.1	550.4	467.1	386.9	330.9	299.1	281.3	269.5
62.5°	348.7	405.1	472.9	515.8	497.9	419.4	347.6	298.2	270.6	254.0	245.5
65°	287.7	332.3	384.7	424.3	412.4	352.8	294.1	251.7	229.9	216.7	209.8
67.5°	236.9	269.1	305.4	340.1	330.6	288.3	241.2	208.2	191.9	180.6	176.5
70°	204.8	229.4	261.7	289.5	281.8	247.2	209.8	181.6	167.6	157.9	153.8
72.5°	174.2	194.5	219.1	241.8	236.6	207.9	176.7	155.4	144.5	135.7	132.3
75°	131.5	147.0	162.0	177.1	175.7	153.4	135.2	118.8	110.1	103.3	101.9
77.5°	97.1	105.8	116.0	124.9	122.4	109.7	95.4	86.1	79.6	75.1	74.4
80°	74.2	79.2	86.5	92.8	89.7	84.2	72.9	66.0	61.4	56.9	55.1
82.5°	53.8	58.9	63.2	66.6	64.2	59.1	52.1	47.4	44.7	41.6	40.8
85°	28.2	30.9	32.8	33.7	32.8	29.6	26.4	24.6	22.3	21.0	20.5
87.5°	12.7	12.2	11.9	12.4	11.1	11.1	9.4	8.1	7.9	7.8	7.2
90°	8.5	6.3	4.7	3.7	3.1	2.5	1.2	0.4	1.2	2.5	3.1
92.5°	31.5	21.4	14.3	11.3	9.2	7.8	5.5	3.8	5.5	7.8	9.2
95°	72.8	45.4	30.9	23.3	18.3	15.4	12.3	11.1	12.3	15.4	18.3
97.5°	98.1	59.8	41.6	33.1	27.3	23.0	19.6	17.9	19.6	23.0	27.3
100°	103.3	64.9	48.2	39.4	33.1	28.0	25.2	24.3	25.2	28.0	33.1
102.5°	103.6	69.5	54.0	45.2	38.6	33.6	30.8	30.1	30.8	33.6	38.6
105°	105.2	77.2	62.4	53.6	46.6	41.9	39.7	38.4	39.7	41.9	46.6
107.5°	109.6	85.2	70.8	61.9	55.0	50.6	48.5	47.5	48.5	50.6	55.0
110°	113.1	90.4	76.6	67.4	60.8	56.7	54.8	53.6	54.8	56.7	60.8





TEST NUMBER: P331332-940

CATALOG NUMBER: SA2XXDIP-C675D330U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	116.9	95.5	82.1	72.7	66.3	62.5	60.4	59.1	60.4	62.5	66.3
115°	122.5	103.3	89.8	81.3	75.0	71.2	69.3	67.8	69.3	71.2	75.0
117.5°	128.6	110.6	98.1	89.3	83.2	79.8	77.9	76.7	77.9	79.8	83.2
120°	132.7	115.7	103.3	94.5	88.2	85.4	83.5	82.2	83.5	85.4	88.2
122.5°	136.2	120.4	108.9	99.8	93.5	90.4	88.5	87.6	88.5	90.4	93.5
125°	141.8	127.6	116.3	107.5	101.1	97.4	95.5	94.5	95.5	97.4	101.1
127.5°	147.0	134.3	123.2	114.1	108.2	104.0	101.3	100.0	101.3	104.0	108.2
130°	150.3	138.3	127.2	118.5	112.2	107.7	104.6	103.3	104.6	107.7	112.2
132.5°	153.6	141.9	131.3	122.5	115.9	111.3	107.9	106.4	107.9	111.3	115.9
135°	157.8	146.9	136.7	128.0	120.6	115.9	112.2	110.9	112.2	115.9	120.6
137.5°	161.1	150.9	140.9	132.7	125.6	120.5	116.7	115.2	116.7	120.5	125.6
140°	162.9	153.1	143.7	135.5	128.6	123.5	119.8	118.5	119.8	123.5	128.6
142.5°	164.4	154.9	145.7	138.0	131.3	126.3	122.8	121.7	122.8	126.3	131.3
145°	166.4	157.6	149.0	142.1	135.8	131.1	128.0	126.6	128.0	131.1	135.8
147.5°	167.5	159.7	151.7	145.5	140.3	135.9	132.9	132.0	132.9	135.9	140.3
150°	167.9	160.7	153.5	147.8	143.0	138.9	136.4	135.5	136.4	138.9	143.0
152.5°	168.2	161.7	155.2	150.1	145.5	142.0	139.5	139.0	139.5	142.0	145.5
155°	168.5	163.2	157.8	153.1	149.6	146.2	144.3	144.0	144.3	146.2	149.6
157.5°	168.5	164.3	159.7	155.8	153.0	150.0	148.5	148.1	148.5	150.0	153.0
160°	168.5	164.8	161.0	157.6	155.0	152.5	151.2	150.9	151.2	152.5	155.0
162.5°	168.3	165.1	161.8	159.1	156.8	154.8	153.5	153.7	153.5	154.8	156.8
165°	167.6	165.4	162.6	160.7	159.1	157.2	156.6	156.9	156.6	157.2	159.1
167.5°	167.2	165.3	163.3	162.1	161.0	159.7	159.2	159.5	159.2	159.7	161.0
170°	166.7	165.1	163.5	162.6	161.9	161.0	160.7	161.3	160.7	161.0	161.9
172.5°	165.9	164.9	163.8	163.1	162.7	161.8	161.9	162.3	161.9	161.8	162.7
175°	165.1	164.4	163.8	163.5	163.5	162.9	163.2	163.5	163.2	162.9	163.5
177.5°	164.6	164.1	163.8	163.8	163.8	163.4	163.5	164.1	163.5	163.4	163.8
180°	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8



TEST NUMBER: P331332-940

CATALOG NUMBER: SA2XXDIP-C675D330U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5
2.5°	1168.8	1166.6	1159.0	1154.9	1148.3	1142.2	1138.2	1140.1	1141.5	1140.8	1139.6
5°	1135.2	1126.6	1113.4	1102.1	1093.9	1078.8	1072.5	1069.3	1066.6	1063.4	1060.2
7.5°	1095.4	1081.7	1062.8	1046.6	1031.3	1012.6	1002.0	995.6	989.1	981.9	975.5
10°	1067.0	1047.8	1027.9	1005.0	986.9	970.0	955.0	945.0	935.9	927.3	920.9
12.5°	1037.1	1015.1	990.3	959.2	939.1	915.1	912.8	895.1	880.9	875.6	868.1
15°	989.6	958.7	927.3	890.4	874.4	852.6	838.9	825.3	813.0	804.3	802.1
17.5°	935.6	895.5	864.3	837.9	811.7	789.3	776.8	765.8	755.7	744.1	742.6
20°	894.5	859.9	825.7	802.5	775.7	752.9	737.4	726.5	717.8	711.1	705.1
22.5°	855.5	817.6	786.4	761.0	734.5	716.1	703.9	693.4	686.2	678.6	673.1
25°	793.0	763.4	729.2	700.5	678.7	666.9	656.8	647.7	643.2	638.2	631.9
27.5°	738.2	705.3	673.4	651.2	632.0	621.5	614.4	608.2	604.0	601.0	597.4
30°	699.6	666.4	641.4	619.6	603.6	593.2	588.6	585.0	580.0	578.1	576.3
32.5°	662.5	632.6	611.2	592.2	577.0	570.2	566.0	562.8	558.8	557.0	553.3
35°	609.9	585.0	564.0	553.5	541.3	535.3	532.2	527.5	524.0	522.1	521.7
37.5°	560.5	538.8	525.0	511.6	506.4	502.7	498.4	495.3	494.2	493.9	493.5
40°	528.5	510.8	498.5	487.5	485.3	479.7	476.2	473.4	473.4	473.9	473.4
42.5°	499.4	483.4	472.6	463.2	460.5	457.2	453.5	453.3	454.1	455.7	454.1
45°	455.2	443.8	436.0	431.5	426.5	423.3	422.8	424.3	424.7	425.2	426.5
47.5°	414.6	407.1	400.0	395.0	392.8	392.3	391.7	394.1	396.3	397.1	399.2
50°	390.6	381.9	376.0	372.8	371.0	370.1	371.0	373.7	375.5	377.8	379.2
52.5°	363.6	357.5	353.4	351.0	350.3	350.8	351.0	354.1	357.0	357.8	358.5
55°	326.4	321.8	320.9	316.8	318.6	318.2	320.5	322.3	325.0	327.7	328.2
57.5°	289.3	285.6	283.1	283.5	284.0	286.1	287.9	291.1	294.1	296.9	297.2
60°	264.5	262.6	261.3	261.3	262.2	264.9	267.2	270.4	272.2	274.0	275.4
62.5°	241.9	240.0	238.7	239.4	241.8	243.4	246.1	247.8	249.6	251.5	252.1
65°	206.2	205.3	206.7	207.6	208.0	210.3	213.5	214.8	216.7	217.6	220.8
67.5°	173.3	173.5	173.3	174.6	177.3	177.8	180.8	184.0	184.3	186.1	188.2
70°	151.1	152.0	152.9	153.8	156.1	157.0	159.3	160.7	162.5	163.9	165.2
72.5°	130.7	130.9	131.8	131.6	133.6	135.5	137.5	138.8	140.6	142.4	143.7
75°	100.6	100.6	101.5	101.9	104.2	106.6	106.0	107.0	108.8	110.6	111.6
77.5°	73.5	72.5	73.5	73.9	74.6	76.6	77.0	78.2	80.3	79.6	80.7
80°	56.0	54.7	56.0	56.4	56.4	58.8	58.8	59.7	61.0	59.7	61.0
82.5°	39.9	39.3	40.3	40.4	41.1	41.2	42.0	42.2	43.5	42.9	43.5
85°	20.1	19.6	20.1	19.6	20.1	20.5	20.5	20.1	20.1	21.0	19.6
87.5°	7.0	6.8	6.7	7.1	7.1	6.9	6.4	6.4	6.2	5.6	5.7
90°	3.7	4.7	6.3	8.5	10.4	10.7	10.4	10.1	9.5	10.1	10.4
92.5°	11.3	14.3	21.4	31.5	40.4	40.9	34.6	27.5	23.5	21.0	19.0
95°	23.3	30.9	45.4	72.8	109.3	123.5	108.1	82.6	63.3	50.1	43.2
97.5°	33.1	41.6	59.8	98.1	158.8	210.8	221.1	192.6	157.6	123.5	100.8
100°	39.4	48.2	64.9	103.3	171.4	248.9	294.3	287.7	248.6	205.5	167.3
102.5°	45.2	54.0	69.5	103.6	166.6	250.1	321.5	349.9	341.1	309.5	269.1
105°	53.6	62.4	77.2	105.2	157.2	233.4	317.3	382.8	418.4	422.5	412.1
107.5°	61.9	70.8	85.2	109.6	152.6	215.5	289.6	359.1	412.8	445.5	460.7
110°	67.4	76.6	90.4	113.1	151.6	207.0	272.2	338.7	395.1	435.4	461.3



TEST NUMBER: P331332-940

CATALOG NUMBER: SA2XXDIP-C675D330U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	72.7	82.1	95.5	116.9	151.8	201.4	260.1	320.0	374.2	417.2	446.9
115°	81.3	89.8	103.3	122.5	153.1	195.4	245.1	297.1	345.6	386.9	419.4
117.5°	89.3	98.1	110.6	128.6	155.4	192.3	235.7	279.8	322.4	359.9	390.3
120°	94.5	103.3	115.7	132.7	156.9	190.6	230.6	271.3	310.3	343.8	372.4
122.5°	99.8	108.9	120.4	136.2	158.6	189.6	226.3	264.5	300.2	331.9	357.8
125°	107.5	116.3	127.6	141.8	161.3	187.8	220.3	254.6	287.0	314.8	338.4
127.5°	114.1	123.2	134.3	147.0	164.0	186.7	214.5	244.8	274.2	300.3	322.1
130°	118.5	127.2	138.3	150.3	166.0	186.2	210.8	238.5	265.6	290.5	311.3
132.5°	122.5	131.3	141.9	153.6	168.1	185.9	207.8	232.5	257.5	280.4	300.0
135°	128.0	136.7	146.9	157.8	170.5	185.6	203.5	224.0	244.8	265.6	283.2
137.5°	132.7	140.9	150.9	161.1	172.6	185.5	200.5	217.3	234.7	251.2	266.5
140°	135.5	143.7	153.1	162.9	173.6	185.3	198.8	212.9	228.1	242.6	256.5
142.5°	138.0	145.7	154.9	164.4	174.3	185.3	197.1	209.5	222.3	234.8	246.4
145°	142.1	149.0	157.6	166.4	175.1	184.6	194.7	204.5	214.9	224.6	233.8
147.5°	145.5	151.7	159.7	167.5	175.4	183.5	192.3	200.6	208.8	216.4	223.1
150°	147.8	153.5	160.7	167.9	175.1	182.7	190.3	197.9	204.8	211.4	217.0
152.5°	150.1	155.2	161.7	168.2	174.7	181.5	188.5	195.1	201.5	207.1	212.0
155°	153.1	157.8	163.2	168.5	173.9	179.2	185.3	191.3	196.3	201.0	204.5
157.5°	155.8	159.7	164.3	168.5	172.5	177.0	182.2	186.8	191.0	194.9	197.7
160°	157.6	161.0	164.8	168.5	171.7	175.5	179.9	184.0	187.4	190.9	193.1
162.5°	159.1	161.8	165.1	168.3	170.9	174.2	177.9	181.2	184.2	187.2	188.9
165°	160.7	162.6	165.4	167.6	169.5	171.7	174.5	177.1	179.2	181.5	182.7
167.5°	162.1	163.3	165.3	167.2	168.1	169.5	171.3	173.1	174.8	176.3	177.5
170°	162.6	163.5	165.1	166.7	167.3	168.3	169.5	171.1	172.0	173.3	173.9
172.5°	163.1	163.8	164.9	165.9	166.3	166.7	167.7	168.8	169.5	170.5	170.9
175°	163.5	163.8	164.4	165.1	164.8	165.1	165.4	166.4	166.7	167.0	167.3
177.5°	163.8	163.8	164.1	164.6	164.1	163.8	164.1	164.6	164.6	164.9	164.9
180°	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8



TEST NUMBER: P331332-940

CATALOG NUMBER: SA2XXDIP-C675D330U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5
2.5°	1136.0	1135.2	1135.2	1132.0	1135.2	1135.2	1136.0	1139.6	1140.8	1141.5	1140.1
5°	1053.8	1052.4	1050.2	1052.4	1050.2	1052.4	1053.8	1060.2	1063.4	1066.6	1069.3
7.5°	972.5	967.1	966.3	960.8	966.3	967.1	972.5	975.5	981.9	989.1	995.6
10°	913.1	909.5	909.0	900.4	909.0	909.5	913.1	920.9	927.3	935.9	945.0
12.5°	868.0	859.3	860.9	856.0	860.9	859.3	868.0	868.1	875.6	880.9	895.1
15°	789.8	789.8	787.9	780.2	787.9	789.8	789.8	802.1	804.3	813.0	825.3
17.5°	733.6	732.7	728.3	730.5	728.3	732.7	733.6	742.6	744.1	755.7	765.8
20°	700.1	697.4	691.9	691.9	691.9	697.4	700.1	705.1	711.1	717.8	726.5
22.5°	668.4	668.2	662.5	664.2	662.5	668.2	668.4	673.1	678.6	686.2	693.4
25°	631.3	627.8	625.0	626.3	625.0	627.8	631.3	631.9	638.2	643.2	647.7
27.5°	596.2	594.2	594.1	590.3	594.1	594.2	596.2	597.4	601.0	604.0	608.2
30°	575.9	571.3	572.2	569.9	572.2	571.3	575.9	576.3	578.1	580.0	585.0
32.5°	552.5	550.9	550.0	548.0	550.0	550.9	552.5	553.3	557.0	558.8	562.8
35°	520.8	521.2	519.0	519.9	519.0	521.2	520.8	521.7	522.1	524.0	527.5
37.5°	493.0	494.5	493.4	493.7	493.4	494.5	493.0	493.5	493.9	494.2	495.3
40°	474.7	474.7	474.7	476.2	474.7	474.7	474.7	473.4	473.9	473.4	473.4
42.5°	457.3	456.6	455.8	455.8	455.8	456.6	457.3	454.1	455.7	454.1	453.3
45°	427.4	428.8	429.3	427.0	429.3	428.8	427.4	426.5	425.2	424.7	424.3
47.5°	400.4	400.6	400.4	402.4	400.4	400.6	400.4	399.2	397.1	396.3	394.1
50°	381.5	380.6	381.5	380.6	381.5	380.6	381.5	379.2	377.8	375.5	373.7
52.5°	361.4	361.6	361.1	360.9	361.1	361.6	361.4	358.5	357.8	357.0	354.1
55°	330.0	330.9	330.5	330.5	330.5	330.9	330.0	328.2	327.7	325.0	322.3
57.5°	297.6	298.4	299.0	296.9	299.0	298.4	297.6	297.2	296.9	294.1	291.1
60°	274.9	277.2	276.8	275.9	276.8	277.2	274.9	275.4	274.0	272.2	270.4
62.5°	254.2	255.0	254.9	254.8	254.9	255.0	254.2	252.1	251.5	249.6	247.8
65°	222.1	223.0	221.7	223.0	221.7	223.0	222.1	220.8	217.6	216.7	214.8
67.5°	187.6	187.9	189.0	189.6	189.0	187.9	187.6	188.2	186.1	184.3	184.0
70°	166.1	165.7	167.0	168.4	167.0	165.7	166.1	165.2	163.9	162.5	160.7
72.5°	143.6	144.5	144.1	145.1	144.1	144.5	143.6	143.7	142.4	140.6	138.8
75°	110.6	112.0	111.6	112.9	111.6	112.0	110.6	111.6	110.6	108.8	107.0
77.5°	79.9	80.1	79.9	80.7	79.9	80.1	79.9	80.7	79.6	80.3	78.2
80°	61.0	60.1	59.2	61.0	59.2	60.1	61.0	61.0	59.7	61.0	59.7
82.5°	42.4	43.0	42.1	42.1	42.1	43.0	42.4	43.5	42.9	43.5	42.2
85°	19.6	19.1	18.2	18.2	18.2	19.1	19.6	19.6	21.0	20.1	20.1
87.5°	5.7	5.4	5.4	5.0	5.4	5.4	5.7	5.7	5.6	6.2	6.4
90°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.1	9.5	10.1
92.5°	18.7	17.7	17.9	17.5	17.9	17.7	18.7	19.0	21.0	23.5	27.5
95°	39.1	36.6	35.6	35.9	35.6	36.6	39.1	43.2	50.1	63.3	82.6
97.5°	85.7	77.9	73.4	70.7	73.4	77.9	85.7	100.8	123.5	157.6	192.6
100°	141.2	127.6	118.5	112.8	118.5	127.6	141.2	167.3	205.5	248.6	287.7
102.5°	240.7	217.6	206.2	198.5	206.2	217.6	240.7	269.1	309.5	341.1	349.9
105°	392.5	373.0	359.4	355.1	359.4	373.0	392.5	412.1	422.5	418.4	382.8
107.5°	463.2	462.2	459.4	453.6	459.4	462.2	463.2	460.7	445.5	412.8	359.1
110°	474.8	480.8	483.7	483.3	483.7	480.8	474.8	461.3	435.4	395.1	338.7



TEST NUMBER: P331332-940

CATALOG NUMBER: SA2XXDIP-C675D330U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	465.7	475.7	481.1	482.8	481.1	475.7	465.7	446.9	417.2	374.2	320.0
115°	441.8	456.2	464.4	467.3	464.4	456.2	441.8	419.4	386.9	345.6	297.1
117.5°	413.1	428.5	437.0	439.4	437.0	428.5	413.1	390.3	359.9	322.4	279.8
120°	394.5	409.3	418.4	421.6	418.4	409.3	394.5	372.4	343.8	310.3	271.3
122.5°	377.6	392.2	400.3	402.9	400.3	392.2	377.6	357.8	331.9	300.2	264.5
125°	356.7	368.6	376.5	379.1	376.5	368.6	356.7	338.4	314.8	287.0	254.6
127.5°	338.0	349.3	356.1	358.1	356.1	349.3	338.0	322.1	300.3	274.2	244.8
130°	326.7	337.4	343.8	346.3	343.8	337.4	326.7	311.3	290.5	265.6	238.5
132.5°	315.1	325.8	331.6	333.9	331.6	325.8	315.1	300.0	280.4	257.5	232.5
135°	296.8	307.2	312.9	314.1	312.9	307.2	296.8	283.2	265.6	244.8	224.0
137.5°	278.9	287.8	292.8	294.7	292.8	287.8	278.9	266.5	251.2	234.7	217.3
140°	266.5	274.7	279.5	281.3	279.5	274.7	266.5	256.5	242.6	228.1	212.9
142.5°	255.9	263.4	267.6	268.0	267.6	263.4	255.9	246.4	234.8	222.3	209.5
145°	241.3	246.7	249.9	250.7	249.9	246.7	241.3	233.8	224.6	214.9	204.5
147.5°	229.3	233.6	235.8	236.4	235.8	233.6	229.3	223.1	216.4	208.8	200.6
150°	221.8	225.6	227.5	227.8	227.5	225.6	221.8	217.0	211.4	204.8	197.9
152.5°	215.8	219.0	220.4	220.5	220.4	219.0	215.8	212.0	207.1	201.5	195.1
155°	207.9	210.2	211.4	210.8	211.4	210.2	207.9	204.5	201.0	196.3	191.3
157.5°	200.1	202.0	202.5	202.5	202.5	202.0	200.1	197.7	194.9	191.0	186.8
160°	195.4	196.9	197.2	197.2	197.2	196.9	195.4	193.1	190.9	187.4	184.0
162.5°	191.1	192.2	192.4	192.2	192.4	192.2	191.1	188.9	187.2	184.2	181.2
165°	184.0	185.3	185.3	184.9	185.3	185.3	184.0	182.7	181.5	179.2	177.1
167.5°	178.0	178.7	178.6	178.3	178.6	178.7	178.0	177.5	176.3	174.8	173.1
170°	174.2	175.1	174.9	174.2	174.9	175.1	174.2	173.9	173.3	172.0	171.1
172.5°	171.2	171.7	171.3	170.9	171.3	171.7	171.2	170.9	170.5	169.5	168.8
175°	167.3	167.6	167.3	166.7	167.3	167.6	167.3	167.3	167.0	166.7	166.4
177.5°	164.9	164.9	164.6	164.1	164.6	164.9	164.9	164.9	164.9	164.6	164.6
180°	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8



TEST NUMBER: P331332-940  
 CATALOG NUMBER: SA2XXDIP-C675D330U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5
2.5°	1138.2	1142.2	1148.3	1154.9	1159.0	1166.6	1168.8	1172.4	1175.7	1183.4	1191.3
5°	1072.5	1078.8	1093.9	1102.1	1113.4	1126.6	1135.2	1144.4	1154.4	1171.7	1187.6
7.5°	1002.0	1012.6	1031.3	1046.6	1062.8	1081.7	1095.4	1113.4	1128.4	1152.7	1176.1
10°	955.0	970.0	986.9	1005.0	1027.9	1047.8	1067.0	1089.8	1108.0	1137.1	1164.4
12.5°	912.8	915.1	939.1	959.2	990.3	1015.1	1037.1	1066.5	1084.3	1118.9	1147.6
15°	838.9	852.6	874.4	890.4	927.3	958.7	989.6	1020.1	1040.6	1083.3	1121.1
17.5°	776.8	789.3	811.7	837.9	864.3	895.5	935.6	967.8	995.6	1044.6	1089.2
20°	737.4	752.9	775.7	802.5	825.7	859.9	894.5	931.3	961.4	1016.5	1068.8
22.5°	703.9	716.1	734.5	761.0	786.4	817.6	855.5	895.6	927.2	986.6	1039.6
25°	656.8	666.9	678.7	700.5	729.2	763.4	793.0	837.1	883.1	938.6	1002.8
27.5°	614.4	621.5	632.0	651.2	673.4	705.3	738.2	780.2	826.3	886.6	954.4
30°	588.6	593.2	603.6	619.6	641.4	666.4	699.6	739.7	787.0	848.0	915.4
32.5°	566.0	570.2	577.0	592.2	611.2	632.6	662.5	702.6	747.7	807.6	882.3
35°	532.2	535.3	541.3	553.5	564.0	585.0	609.9	646.4	688.8	746.1	823.5
37.5°	498.4	502.7	506.4	511.6	525.0	538.8	560.5	591.3	632.8	690.7	764.5
40°	476.2	479.7	485.3	487.5	498.5	510.8	528.5	556.7	598.6	651.4	723.4
42.5°	453.5	457.2	460.5	463.2	472.6	483.4	499.4	523.6	560.7	612.1	683.2
45°	422.8	423.3	426.5	431.5	436.0	443.8	455.2	476.2	504.8	553.0	617.7
47.5°	391.7	392.3	392.8	395.0	400.0	407.1	414.6	431.6	457.3	495.8	558.7
50°	371.0	370.1	371.0	372.8	376.0	381.9	390.6	402.9	423.8	459.8	517.5
52.5°	351.0	350.8	350.3	351.0	353.4	357.5	363.6	374.1	392.8	425.9	476.8
55°	320.5	318.2	318.6	316.8	320.9	321.8	326.4	335.0	351.4	374.2	422.0
57.5°	287.9	286.1	284.0	283.5	283.1	285.6	289.3	296.0	308.6	328.6	367.4
60°	267.2	264.9	262.2	261.3	261.3	262.6	264.5	269.5	281.3	299.1	330.9
62.5°	246.1	243.4	241.8	239.4	238.7	240.0	241.9	245.5	254.0	270.6	298.2
65°	213.5	210.3	208.0	207.6	206.7	205.3	206.2	209.8	216.7	229.9	251.7
67.5°	180.8	177.8	177.3	174.6	173.3	173.5	173.3	176.5	180.6	191.9	208.2
70°	159.3	157.0	156.1	153.8	152.9	152.0	151.1	153.8	157.9	167.6	181.6
72.5°	137.5	135.5	133.6	131.6	131.8	130.9	130.7	132.3	135.7	144.5	155.4
75°	106.0	106.6	104.2	101.9	101.5	100.6	100.6	101.9	103.3	110.1	118.8
77.5°	77.0	76.6	74.6	73.9	73.5	72.5	73.5	74.4	75.1	79.6	86.1
80°	58.8	58.8	56.4	56.4	56.0	54.7	56.0	55.1	56.9	61.4	66.0
82.5°	42.0	41.2	41.1	40.4	40.3	39.3	39.9	40.8	41.6	44.7	47.4
85°	20.5	20.5	20.1	19.6	20.1	19.6	20.1	20.5	21.0	22.3	24.6
87.5°	6.4	6.9	7.1	7.1	6.7	6.8	7.0	7.2	7.8	7.9	8.1
90°	10.4	10.7	10.4	8.5	6.3	4.7	3.7	3.1	2.5	1.2	0.4
92.5°	34.6	40.9	40.4	31.5	21.4	14.3	11.3	9.2	7.8	5.5	3.8
95°	108.1	123.5	109.3	72.8	45.4	30.9	23.3	18.3	15.4	12.3	11.1
97.5°	221.1	210.8	158.8	98.1	59.8	41.6	33.1	27.3	23.0	19.6	17.9
100°	294.3	248.9	171.4	103.3	64.9	48.2	39.4	33.1	28.0	25.2	24.3
102.5°	321.5	250.1	166.6	103.6	69.5	54.0	45.2	38.6	33.6	30.8	30.1
105°	317.3	233.4	157.2	105.2	77.2	62.4	53.6	46.6	41.9	39.7	38.4
107.5°	289.6	215.5	152.6	109.6	85.2	70.8	61.9	55.0	50.6	48.5	47.5
110°	272.2	207.0	151.6	113.1	90.4	76.6	67.4	60.8	56.7	54.8	53.6



TEST NUMBER: P331332-940

CATALOG NUMBER: SA2XXDIP-C675D330U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	260.1	201.4	151.8	116.9	95.5	82.1	72.7	66.3	62.5	60.4	59.1
115°	245.1	195.4	153.1	122.5	103.3	89.8	81.3	75.0	71.2	69.3	67.8
117.5°	235.7	192.3	155.4	128.6	110.6	98.1	89.3	83.2	79.8	77.9	76.7
120°	230.6	190.6	156.9	132.7	115.7	103.3	94.5	88.2	85.4	83.5	82.2
122.5°	226.3	189.6	158.6	136.2	120.4	108.9	99.8	93.5	90.4	88.5	87.6
125°	220.3	187.8	161.3	141.8	127.6	116.3	107.5	101.1	97.4	95.5	94.5
127.5°	214.5	186.7	164.0	147.0	134.3	123.2	114.1	108.2	104.0	101.3	100.0
130°	210.8	186.2	166.0	150.3	138.3	127.2	118.5	112.2	107.7	104.6	103.3
132.5°	207.8	185.9	168.1	153.6	141.9	131.3	122.5	115.9	111.3	107.9	106.4
135°	203.5	185.6	170.5	157.8	146.9	136.7	128.0	120.6	115.9	112.2	110.9
137.5°	200.5	185.5	172.6	161.1	150.9	140.9	132.7	125.6	120.5	116.7	115.2
140°	198.8	185.3	173.6	162.9	153.1	143.7	135.5	128.6	123.5	119.8	118.5
142.5°	197.1	185.3	174.3	164.4	154.9	145.7	138.0	131.3	126.3	122.8	121.7
145°	194.7	184.6	175.1	166.4	157.6	149.0	142.1	135.8	131.1	128.0	126.6
147.5°	192.3	183.5	175.4	167.5	159.7	151.7	145.5	140.3	135.9	132.9	132.0
150°	190.3	182.7	175.1	167.9	160.7	153.5	147.8	143.0	138.9	136.4	135.5
152.5°	188.5	181.5	174.7	168.2	161.7	155.2	150.1	145.5	142.0	139.5	139.0
155°	185.3	179.2	173.9	168.5	163.2	157.8	153.1	149.6	146.2	144.3	144.0
157.5°	182.2	177.0	172.5	168.5	164.3	159.7	155.8	153.0	150.0	148.5	148.1
160°	179.9	175.5	171.7	168.5	164.8	161.0	157.6	155.0	152.5	151.2	150.9
162.5°	177.9	174.2	170.9	168.3	165.1	161.8	159.1	156.8	154.8	153.5	153.7
165°	174.5	171.7	169.5	167.6	165.4	162.6	160.7	159.1	157.2	156.6	156.9
167.5°	171.3	169.5	168.1	167.2	165.3	163.3	162.1	161.0	159.7	159.2	159.5
170°	169.5	168.3	167.3	166.7	165.1	163.5	162.6	161.9	161.0	160.7	161.3
172.5°	167.7	166.7	166.3	165.9	164.9	163.8	163.1	162.7	161.8	161.9	162.3
175°	165.4	165.1	164.8	165.1	164.4	163.8	163.5	163.5	162.9	163.2	163.5
177.5°	164.1	163.8	164.1	164.6	164.1	163.8	163.8	163.8	163.4	163.5	164.1
180°	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8



TEST NUMBER: P331332-940

CATALOG NUMBER: SA2XXDIP-C675D330U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5
2.5°	1190.6	1192.5	1198.3	1204.1	1210.7	1212.5	1215.4	1212.8	1212.1	1219.1	1224.1
5°	1194.0	1202.2	1218.2	1232.7	1245.0	1253.7	1262.8	1266.4	1273.2	1282.7	1294.6
7.5°	1190.2	1206.1	1231.2	1252.3	1275.5	1292.2	1305.2	1316.3	1329.7	1347.8	1367.6
10°	1185.8	1207.2	1237.7	1263.6	1291.8	1313.2	1331.1	1348.3	1368.3	1393.4	1419.3
12.5°	1177.8	1203.2	1241.4	1272.0	1308.2	1329.3	1353.3	1390.5	1412.0	1446.9	1483.5
15°	1161.7	1189.9	1243.1	1280.9	1321.9	1362.0	1406.1	1441.6	1477.1	1497.6	1549.1
17.5°	1137.7	1179.2	1238.1	1282.2	1334.3	1397.4	1447.0	1487.2	1528.2	1561.5	1587.2
20°	1118.5	1163.5	1230.8	1283.7	1345.6	1413.4	1470.3	1511.3	1546.8	1574.6	1590.5
22.5°	1094.0	1150.8	1216.3	1278.2	1357.3	1424.3	1484.2	1516.4	1546.0	1559.6	1565.8
25°	1055.6	1123.9	1198.1	1273.6	1362.9	1433.9	1488.5	1508.1	1516.7	1503.5	1481.7
27.5°	1014.2	1090.3	1177.1	1265.1	1359.4	1427.7	1466.9	1463.7	1449.1	1406.4	1372.3
30°	983.2	1067.0	1160.3	1256.3	1351.0	1417.5	1440.3	1417.5	1384.3	1336.5	1287.8
32.5°	950.8	1037.5	1142.5	1243.9	1335.8	1394.2	1399.1	1359.9	1308.5	1254.2	1193.5
35°	901.8	995.5	1108.8	1216.3	1303.2	1340.2	1318.3	1249.1	1188.1	1113.9	1031.0
37.5°	846.3	949.9	1063.5	1175.8	1254.5	1264.2	1210.0	1137.1	1051.1	963.9	866.4
40°	804.8	914.5	1031.5	1144.9	1214.5	1204.4	1135.2	1055.2	952.7	846.2	755.6
42.5°	767.7	877.4	996.5	1107.7	1163.5	1136.0	1055.2	956.8	846.8	746.5	663.5
45°	703.3	816.2	938.2	1045.6	1077.5	1027.9	920.9	811.6	703.3	619.6	554.0
47.5°	640.9	752.4	873.3	967.7	978.9	912.2	795.3	682.9	589.8	521.6	475.3
50°	594.9	706.9	826.6	910.9	907.2	826.6	706.5	599.5	521.7	466.5	435.6
52.5°	553.8	659.6	774.5	851.1	831.9	744.0	629.3	534.3	470.3	427.2	399.2
55°	489.8	587.6	696.9	758.4	722.8	625.4	528.5	452.0	404.7	372.4	350.5
57.5°	426.2	518.0	611.5	649.4	610.2	520.2	439.3	383.9	348.3	324.4	310.1
60°	386.9	467.1	550.4	583.1	536.2	456.1	392.4	342.8	314.1	294.5	281.8
62.5°	347.6	419.4	497.9	515.8	472.9	405.1	348.7	307.5	283.8	266.4	254.5
65°	294.1	352.8	412.4	424.3	384.7	332.3	287.7	260.8	239.9	227.1	217.6
67.5°	241.2	288.3	330.6	340.1	305.4	269.1	236.9	213.5	199.3	188.7	180.7
70°	209.8	247.2	281.8	289.5	261.7	229.4	204.8	186.2	173.4	164.3	156.6
72.5°	176.7	207.9	236.6	241.8	219.1	194.5	174.2	159.6	148.3	142.5	135.1
75°	135.2	153.4	175.7	177.1	162.0	147.0	131.5	122.0	116.1	108.8	105.1
77.5°	95.4	109.7	122.4	124.9	116.0	105.8	97.1	89.6	84.5	81.2	77.8
80°	72.9	84.2	89.7	92.8	86.5	79.2	74.2	69.2	66.0	63.8	61.4
82.5°	52.1	59.1	64.2	66.6	63.2	58.9	53.8	51.0	48.5	46.6	45.8
85°	26.4	29.6	32.8	33.7	32.8	30.9	28.2	28.2	26.8	26.4	26.4
87.5°	9.4	11.1	11.1	12.4	11.9	12.2	12.7	12.7	12.3	11.9	11.5
90°	1.2	2.5	3.1	3.7	4.7	6.3	8.5	10.4	10.7	10.4	10.1
92.5°	5.5	7.8	9.2	11.3	14.3	21.4	31.5	40.4	40.9	34.6	27.5
95°	12.3	15.4	18.3	23.3	30.9	45.4	72.8	109.3	123.5	108.1	82.6
97.5°	19.6	23.0	27.3	33.1	41.6	59.8	98.1	158.8	210.8	221.1	192.6
100°	25.2	28.0	33.1	39.4	48.2	64.9	103.3	171.4	248.9	294.3	287.7
102.5°	30.8	33.6	38.6	45.2	54.0	69.5	103.6	166.6	250.1	321.5	349.9
105°	39.7	41.9	46.6	53.6	62.4	77.2	105.2	157.2	233.4	317.3	382.8
107.5°	48.5	50.6	55.0	61.9	70.8	85.2	109.6	152.6	215.5	289.6	359.1
110°	54.8	56.7	60.8	67.4	76.6	90.4	113.1	151.6	207.0	272.2	338.7





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	60.4	62.5	66.3	72.7	82.1	95.5	116.9	151.8	201.4	260.1	320.0
115°	69.3	71.2	75.0	81.3	89.8	103.3	122.5	153.1	195.4	245.1	297.1
117.5°	77.9	79.8	83.2	89.3	98.1	110.6	128.6	155.4	192.3	235.7	279.8
120°	83.5	85.4	88.2	94.5	103.3	115.7	132.7	156.9	190.6	230.6	271.3
122.5°	88.5	90.4	93.5	99.8	108.9	120.4	136.2	158.6	189.6	226.3	264.5
125°	95.5	97.4	101.1	107.5	116.3	127.6	141.8	161.3	187.8	220.3	254.6
127.5°	101.3	104.0	108.2	114.1	123.2	134.3	147.0	164.0	186.7	214.5	244.8
130°	104.6	107.7	112.2	118.5	127.2	138.3	150.3	166.0	186.2	210.8	238.5
132.5°	107.9	111.3	115.9	122.5	131.3	141.9	153.6	168.1	185.9	207.8	232.5
135°	112.2	115.9	120.6	128.0	136.7	146.9	157.8	170.5	185.6	203.5	224.0
137.5°	116.7	120.5	125.6	132.7	140.9	150.9	161.1	172.6	185.5	200.5	217.3
140°	119.8	123.5	128.6	135.5	143.7	153.1	162.9	173.6	185.3	198.8	212.9
142.5°	122.8	126.3	131.3	138.0	145.7	154.9	164.4	174.3	185.3	197.1	209.5
145°	128.0	131.1	135.8	142.1	149.0	157.6	166.4	175.1	184.6	194.7	204.5
147.5°	132.9	135.9	140.3	145.5	151.7	159.7	167.5	175.4	183.5	192.3	200.6
150°	136.4	138.9	143.0	147.8	153.5	160.7	167.9	175.1	182.7	190.3	197.9
152.5°	139.5	142.0	145.5	150.1	155.2	161.7	168.2	174.7	181.5	188.5	195.1
155°	144.3	146.2	149.6	153.1	157.8	163.2	168.5	173.9	179.2	185.3	191.3
157.5°	148.5	150.0	153.0	155.8	159.7	164.3	168.5	172.5	177.0	182.2	186.8
160°	151.2	152.5	155.0	157.6	161.0	164.8	168.5	171.7	175.5	179.9	184.0
162.5°	153.5	154.8	156.8	159.1	161.8	165.1	168.3	170.9	174.2	177.9	181.2
165°	156.6	157.2	159.1	160.7	162.6	165.4	167.6	169.5	171.7	174.5	177.1
167.5°	159.2	159.7	161.0	162.1	163.3	165.3	167.2	168.1	169.5	171.3	173.1
170°	160.7	161.0	161.9	162.6	163.5	165.1	166.7	167.3	168.3	169.5	171.1
172.5°	161.9	161.8	162.7	163.1	163.8	164.9	165.9	166.3	166.7	167.7	168.8
175°	163.2	162.9	163.5	163.5	163.8	164.4	165.1	164.8	165.1	165.4	166.4
177.5°	163.5	163.4	163.8	163.8	163.8	164.1	164.6	164.1	163.8	164.1	164.6
180°	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5
2.5°	1228.5	1233.6	1233.6	1234.3	1240.2	1239.4	1239.0
5°	1307.3	1315.1	1316.0	1324.2	1329.6	1327.8	1322.9
7.5°	1381.7	1396.2	1407.0	1413.1	1420.3	1424.8	1422.8
10°	1440.7	1461.7	1474.4	1483.1	1493.5	1501.3	1498.5
12.5°	1494.2	1519.2	1536.7	1551.5	1552.9	1562.8	1556.0
15°	1577.7	1604.1	1606.9	1617.8	1626.5	1625.5	1625.9
17.5°	1605.3	1613.8	1615.5	1615.8	1615.9	1612.7	1605.8
20°	1595.4	1592.3	1584.6	1578.7	1568.2	1566.8	1557.7
22.5°	1548.9	1538.7	1519.4	1506.5	1490.2	1485.9	1483.5
25°	1457.1	1434.8	1403.8	1374.2	1366.1	1350.1	1354.7
27.5°	1331.2	1296.5	1262.9	1238.9	1217.1	1193.3	1200.1
30°	1242.7	1203.5	1156.2	1119.8	1096.6	1073.8	1069.7
32.5°	1137.1	1079.8	1026.9	994.9	959.3	944.9	929.2
35°	955.0	899.0	846.7	801.6	775.7	755.6	737.4
37.5°	791.2	726.7	684.6	648.0	629.3	617.8	620.7
40°	689.6	633.2	602.3	574.4	557.1	548.9	550.8
42.5°	607.3	565.1	539.6	520.6	508.4	503.8	502.7
45°	513.9	490.3	469.3	458.4	452.5	447.5	444.3
47.5°	450.2	430.9	419.1	412.6	407.4	402.3	402.3
50°	412.0	399.2	391.0	384.1	380.1	376.5	379.6
52.5°	382.8	371.1	363.0	356.9	355.3	352.0	352.0
55°	339.6	330.5	324.6	319.1	316.4	314.5	312.3
57.5°	300.2	291.6	286.1	282.7	277.5	275.6	274.9
60°	272.2	265.4	259.9	255.4	253.1	249.4	249.4
62.5°	246.4	239.5	234.4	231.0	227.2	225.8	226.1
65°	208.9	203.5	198.5	194.8	193.9	191.2	192.1
67.5°	174.5	170.9	165.6	163.6	161.8	160.4	159.3
70°	151.6	147.9	145.2	142.5	141.1	141.1	141.1
72.5°	132.2	127.9	126.3	122.8	123.6	122.2	120.7
75°	102.5	99.7	98.4	96.9	94.7	94.7	94.7
77.5°	75.3	74.5	72.9	71.4	70.9	70.4	70.6
80°	58.2	57.8	56.9	56.9	56.0	55.6	54.7
82.5°	44.8	43.6	43.1	42.7	42.5	42.4	42.3
85°	25.5	24.6	24.6	25.1	24.2	24.2	24.6
87.5°	11.7	11.9	11.6	11.6	11.9	11.6	11.6
90°	9.5	10.1	10.4	10.4	10.4	10.4	10.4
92.5°	23.5	21.0	19.0	18.7	17.7	17.9	17.5
95°	63.3	50.1	43.2	39.1	36.6	35.6	35.9
97.5°	157.6	123.5	100.8	85.7	77.9	73.4	70.7
100°	248.6	205.5	167.3	141.2	127.6	118.5	112.8
102.5°	341.1	309.5	269.1	240.7	217.6	206.2	198.5
105°	418.4	422.5	412.1	392.5	373.0	359.4	355.1
107.5°	412.8	445.5	460.7	463.2	462.2	459.4	453.6
110°	395.1	435.4	461.3	474.8	480.8	483.7	483.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	374.2	417.2	446.9	465.7	475.7	481.1	482.8
115°	345.6	386.9	419.4	441.8	456.2	464.4	467.3
117.5°	322.4	359.9	390.3	413.1	428.5	437.0	439.4
120°	310.3	343.8	372.4	394.5	409.3	418.4	421.6
122.5°	300.2	331.9	357.8	377.6	392.2	400.3	402.9
125°	287.0	314.8	338.4	356.7	368.6	376.5	379.1
127.5°	274.2	300.3	322.1	338.0	349.3	356.1	358.1
130°	265.6	290.5	311.3	326.7	337.4	343.8	346.3
132.5°	257.5	280.4	300.0	315.1	325.8	331.6	333.9
135°	244.8	265.6	283.2	296.8	307.2	312.9	314.1
137.5°	234.7	251.2	266.5	278.9	287.8	292.8	294.7
140°	228.1	242.6	256.5	266.5	274.7	279.5	281.3
142.5°	222.3	234.8	246.4	255.9	263.4	267.6	268.0
145°	214.9	224.6	233.8	241.3	246.7	249.9	250.7
147.5°	208.8	216.4	223.1	229.3	233.6	235.8	236.4
150°	204.8	211.4	217.0	221.8	225.6	227.5	227.8
152.5°	201.5	207.1	212.0	215.8	219.0	220.4	220.5
155°	196.3	201.0	204.5	207.9	210.2	211.4	210.8
157.5°	191.0	194.9	197.7	200.1	202.0	202.5	202.5
160°	187.4	190.9	193.1	195.4	196.9	197.2	197.2
162.5°	184.2	187.2	188.9	191.1	192.2	192.4	192.2
165°	179.2	181.5	182.7	184.0	185.3	185.3	184.9
167.5°	174.8	176.3	177.5	178.0	178.7	178.6	178.3
170°	172.0	173.3	173.9	174.2	175.1	174.9	174.2
172.5°	169.5	170.5	170.9	171.2	171.7	171.3	170.9
175°	166.7	167.0	167.3	167.3	167.6	167.3	166.7
177.5°	164.6	164.9	164.9	164.9	164.9	164.6	164.1
180°	163.8	163.8	163.8	163.8	163.8	163.8	163.8

(END OF REPORT)