

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: P331330-830

Luminaire Tested: **SA2XXDIP-C675D330U830-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331330-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C675D330U830-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 330 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

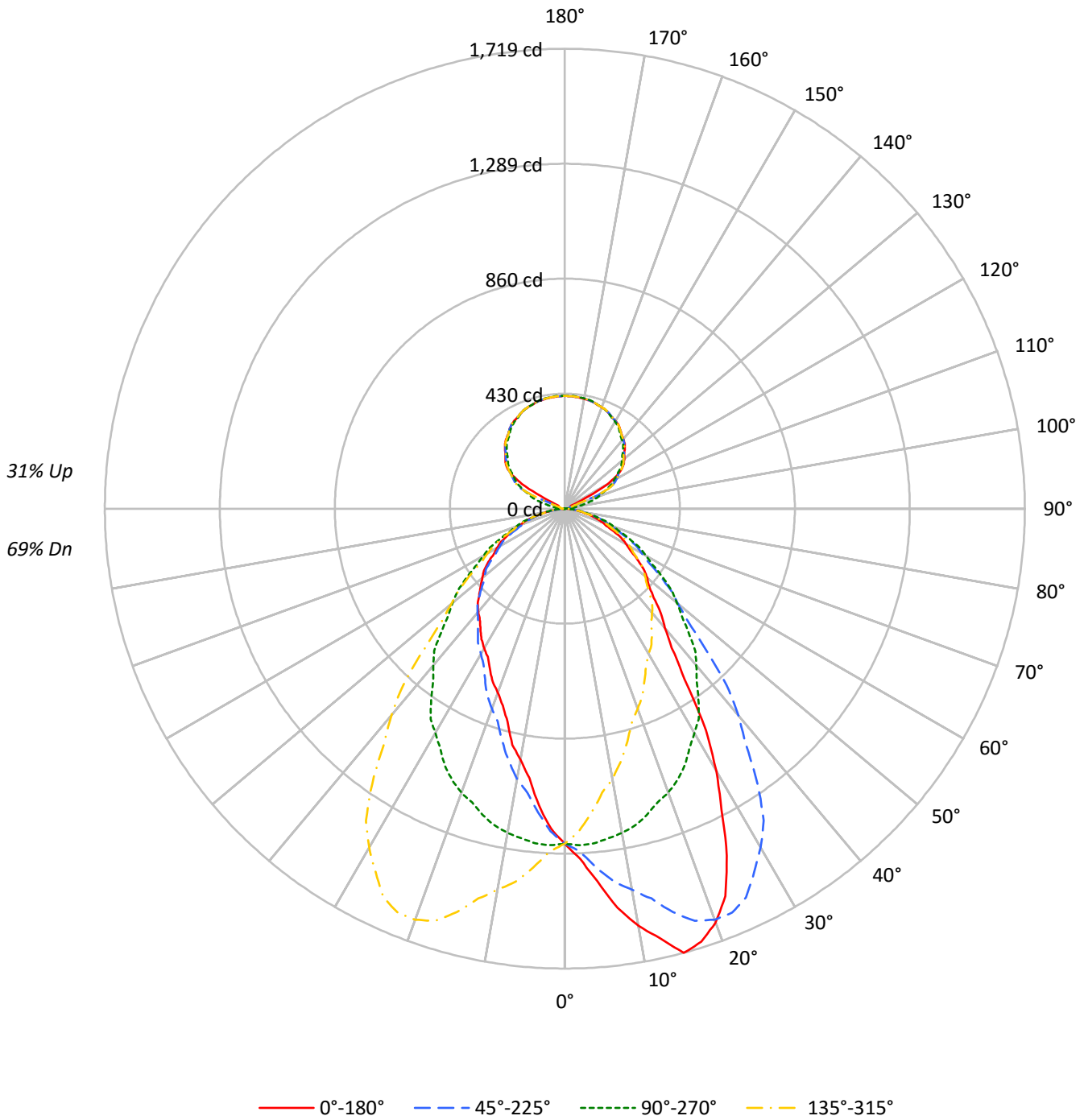
Lumens per Lamp: N/A
Luminaire Lumens: 3997.3 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

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



TEST NUMBER: P331330-830
CATALOG NUMBER: SA2XXDIP-C675D330U830-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P331330-830

CATALOG NUMBER: SA2XXDIP-C675D330U830-4F0-1E-UDD-A

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	83	83	83	74	74	74	69				
1	103	99	95	91	97	93	90	87	83	81	79	74	73	71	66	65	64	60				
2	94	87	81	76	89	82	77	73	74	70	66	66	63	60	59	57	55	51				
3	86	77	70	64	81	73	67	61	66	61	57	59	55	52	53	50	47	44				
4	79	69	61	55	75	65	58	53	59	53	49	53	49	45	48	44	41	38				
5	73	62	54	48	69	59	51	46	53	47	43	48	43	40	43	40	36	34				
6	68	56	48	42	64	53	46	40	48	42	38	44	39	35	40	36	32	30				
7	63	51	43	37	59	48	41	36	44	38	34	40	35	31	36	32	29	27				
8	59	46	39	33	55	44	37	32	41	35	30	37	32	28	34	29	26	24				
9	55	43	35	30	52	41	34	29	37	31	27	34	29	26	31	27	24	22				
10	51	39	32	27	49	38	31	26	35	29	25	32	27	23	29	25	22	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	20215	20215	20215	20215
5°	22663	20345	18029	20345
10°	25968	20179	15603	20179
15°	28727	19809	13785	19809
20°	28290	19411	12565	19411
25°	25509	18884	11794	18884
30°	21080	18040	11231	18040
35°	15364	17156	10831	17156
40°	12271	16115	10608	16115
45°	10723	14908	10305	14908
50°	10078	13742	10105	13742
55°	9292	12555	9833	12555
60°	8512	11296	9416	11296
65°	7755	10166	9005	10166
70°	7039	9064	8403	9064
75°	6245	7829	7442	7829
80°	5374	6481	5997	6481
85°	4817	4817	3557	4817



TEST NUMBER: P331330-830

CATALOG NUMBER: SA2XXDIP-C675D330U830-4F0-1E-UDD-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.2	3.0
10°-20°	346.6	8.7
20°-30°	503.1	12.6
30°-40°	530.9	13.3
40°-50°	470.0	11.8
50°-60°	375.1	9.4
60°-70°	254.9	6.4
70°-80°	130.7	3.3
80°-90°	32.6	0.8
90°-100°	14.0	0.4
100°-110°	51.5	1.3
110°-120°	137.7	3.4
120°-130°	227.3	5.7
130°-140°	241.8	6.0
140°-150°	224.7	5.6
150°-160°	180.7	4.5
160°-170°	116.4	2.9
170°-180°	40.1	1.0
0°-30°	968.9	24.2
0°-40°	1499.8	37.5
0°-60°	2344.9	58.7
0°-90°	2763.1	69.1
90°-120°	203.3	5.1
90°-150°	897.1	22.4
90°-180°	1234.0	30.9
0°-180°	3997.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1252	1252	1252	1252	1252	
5°	1398	1255	1112	1255	1398	140
15°	1719	1185	825	1185	1719	474
25°	1432	1060	662	1060	1432	647
35°	780	870	550	870	780	507
45°	470	653	451	653	470	369
55°	330	446	349	446	330	296
65°	203	266	236	266	203	202
75°	100	126	119	126	100	107
85°	26	26	19	26	26	29
90°	8	0	8	0	8	5
95°	13	20	13	20	13	12
105°	23	93	23	93	23	24
115°	25	175	25	175	25	63
125°	260	248	260	248	260	225
135°	317	307	317	307	317	244
145°	361	356	361	356	361	226
155°	392	392	392	392	392	181
165°	412	413	412	413	412	116
175°	420	422	420	422	420	40
180°	421	421	421	421	421	



TEST NUMBER: P331330-830

CATALOG NUMBER: SA2XXDIP-C675D330U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1309.7	1310.0	1310.9	1304.7	1303.9	1303.9	1298.5	1293.9	1288.5	1281.2	1282.0
5°	1398.3	1403.5	1405.4	1399.7	1391.0	1390.1	1381.9	1368.4	1355.8	1345.8	1338.6
7.5°	1503.9	1506.0	1501.3	1493.6	1487.2	1475.7	1460.5	1445.6	1424.7	1405.5	1391.3
10°	1583.9	1586.9	1578.7	1567.6	1558.5	1545.0	1522.9	1500.2	1472.8	1446.3	1425.1
12.5°	1644.7	1651.9	1641.4	1639.9	1624.3	1605.8	1579.4	1568.0	1529.4	1492.5	1469.8
15°	1718.6	1718.2	1719.2	1710.1	1698.5	1695.5	1667.6	1637.4	1583.0	1561.3	1523.8
17.5°	1697.3	1704.6	1708.0	1707.9	1707.6	1705.8	1696.9	1677.7	1650.5	1615.3	1572.0
20°	1646.5	1656.1	1657.6	1668.7	1674.9	1683.1	1686.4	1681.1	1664.3	1634.9	1597.4
22.5°	1568.0	1570.7	1575.2	1592.4	1606.0	1626.5	1637.2	1655.0	1648.5	1634.2	1602.8
25°	1431.9	1427.1	1444.0	1452.6	1483.8	1516.6	1540.2	1566.1	1589.2	1603.2	1594.0
27.5°	1268.5	1261.3	1286.5	1309.5	1334.9	1370.4	1407.1	1450.5	1486.6	1531.7	1547.2
30°	1130.7	1135.0	1159.1	1183.6	1222.1	1272.1	1313.5	1361.2	1412.7	1463.2	1498.3
32.5°	982.1	998.8	1014.0	1051.6	1085.4	1141.3	1201.9	1261.5	1325.7	1383.1	1437.5
35°	779.5	798.7	819.9	847.3	894.9	950.3	1009.5	1089.8	1177.4	1255.8	1320.3
37.5°	656.1	653.0	665.2	684.9	723.6	768.2	836.3	915.8	1018.8	1111.0	1201.9
40°	582.2	580.2	588.9	607.2	636.6	669.3	729.0	798.7	894.5	1007.0	1115.3
42.5°	531.4	532.5	537.3	550.3	570.3	597.3	642.0	701.3	789.0	895.0	1011.3
45°	469.6	473.0	478.2	484.6	496.1	518.2	543.2	585.6	654.9	743.4	857.9
47.5°	425.2	425.3	430.6	436.1	443.0	455.4	475.9	502.4	551.3	623.4	721.8
50°	401.2	397.9	401.8	406.0	413.3	422.0	435.5	460.4	493.1	551.4	633.7
52.5°	372.0	372.1	375.6	377.2	383.7	392.3	404.6	422.0	451.6	497.1	564.8
55°	330.1	332.4	334.4	337.2	343.1	349.3	358.9	370.5	393.6	427.7	477.8
57.5°	290.6	291.3	293.3	298.8	302.5	308.2	317.4	327.8	342.9	368.2	405.8
60°	263.6	263.6	267.5	269.9	274.8	280.5	287.8	297.8	311.3	332.0	362.3
62.5°	239.0	238.7	240.2	244.1	247.8	253.2	260.4	269.0	281.6	300.0	325.0
65°	203.0	202.1	205.0	205.9	209.8	215.1	220.8	230.0	240.1	253.5	275.7
67.5°	168.4	169.6	171.1	173.0	175.0	180.6	184.5	191.0	199.4	210.7	225.6
70°	149.1	149.1	149.1	150.6	153.4	156.4	160.2	165.5	173.7	183.3	196.8
72.5°	127.6	129.1	130.6	129.8	133.5	135.2	139.8	142.8	150.6	156.7	168.7
75°	100.1	100.1	100.1	102.5	104.0	105.4	108.3	111.1	115.0	122.7	128.9
77.5°	74.6	74.5	74.9	75.5	77.1	78.8	79.6	82.3	85.9	89.4	94.7
80°	57.8	58.7	59.2	60.1	60.1	61.1	61.5	64.9	67.4	69.7	73.1
82.5°	44.7	44.9	45.0	45.1	45.5	46.1	47.3	48.4	49.3	51.3	53.9
85°	26.0	25.5	25.5	26.5	26.0	26.0	27.0	27.9	27.9	28.4	29.8
87.5°	11.7	11.6	12.0	11.6	11.5	11.9	11.8	11.4	11.7	12.0	12.3
90°	8.2	8.1	7.9	7.8	7.7	7.4	7.1	6.8	6.4	6.1	5.6
92.5°	8.2	8.1	8.1	8.0	7.9	7.7	7.6	7.4	7.3	7.1	6.8
95°	13.1	13.2	13.2	13.3	13.4	13.2	12.9	12.5	12.3	11.9	11.4
97.5°	17.5	17.4	17.3	17.2	17.2	17.0	16.7	16.5	16.2	15.9	14.8
100°	20.5	20.3	20.2	20.0	19.9	19.5	19.0	18.5	17.9	17.3	16.2
102.5°	21.9	21.7	21.5	21.3	21.1	20.6	20.0	19.2	18.6	17.8	27.5
105°	23.2	22.9	22.6	22.3	22.1	21.6	20.8	20.1	19.3	18.6	37.0
107.5°	23.8	23.6	23.3	23.0	22.7	23.0	23.8	24.5	25.3	26.0	48.2
110°	24.0	23.8	23.6	23.3	23.0	26.2	33.0	39.8	46.6	53.3	72.9



TEST NUMBER: P331330-830

CATALOG NUMBER: SA2XXDIP-C675D330U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	24.3	24.1	23.8	23.7	23.5	35.7	60.4	85.1	109.8	134.5	139.3
115°	25.0	29.9	34.8	39.6	44.5	62.6	94.0	125.4	156.7	188.0	186.3
117.5°	102.1	118.1	134.1	150.1	166.2	178.0	185.5	193.1	200.7	208.3	207.1
120°	185.9	195.0	204.2	213.3	222.4	226.6	225.8	225.0	224.2	223.4	222.2
122.5°	232.0	233.8	235.5	237.3	239.0	239.7	239.2	238.7	238.3	237.8	236.5
125°	260.5	260.3	260.1	260.0	259.8	259.4	258.9	258.4	258.0	257.5	256.2
127.5°	278.6	278.5	278.5	278.5	278.4	278.1	277.4	276.7	276.0	275.3	274.4
130°	289.8	289.9	289.9	290.0	290.1	289.7	289.0	288.2	287.5	286.8	286.1
132.5°	300.8	300.9	301.0	301.0	301.0	300.8	300.1	299.5	298.9	298.2	297.5
135°	316.6	316.8	316.9	317.1	317.2	316.9	316.2	315.6	314.9	314.2	313.6
137.5°	331.1	331.3	331.6	331.8	332.0	331.8	331.1	330.5	329.8	329.1	328.5
140°	340.1	340.4	340.8	341.1	341.5	341.3	340.7	340.1	339.5	338.8	338.2
142.5°	348.8	349.2	349.6	349.9	350.2	350.2	349.6	349.0	348.5	347.9	347.0
145°	361.1	361.5	361.8	362.1	362.5	362.4	361.9	361.5	361.0	360.5	359.4
147.5°	371.9	372.2	372.5	372.8	373.1	373.1	372.7	372.3	371.9	371.6	370.5
150°	378.5	378.8	379.2	379.6	379.8	379.8	379.4	379.0	378.6	378.2	377.1
152.5°	384.1	384.6	385.0	385.4	385.9	385.9	385.5	385.1	384.7	384.3	383.2
155°	391.9	392.5	393.0	393.5	394.1	394.2	393.7	393.3	392.9	392.5	391.7
157.5°	399.1	399.5	400.1	400.6	401.1	401.1	400.8	400.3	399.8	399.4	398.8
160°	403.2	403.7	404.2	404.6	405.1	405.1	404.7	404.4	403.9	403.5	403.1
162.5°	406.6	407.2	407.7	408.3	409.0	409.0	408.5	408.0	407.6	407.2	406.8
165°	411.7	412.2	412.6	413.1	413.6	413.6	413.1	412.6	412.2	411.7	411.5
167.5°	414.9	415.6	416.1	416.8	417.4	417.5	417.0	416.5	416.0	415.6	415.4
170°	416.9	417.5	418.1	418.8	419.3	419.4	419.0	418.5	418.0	417.5	417.4
172.5°	418.4	419.0	419.6	420.2	420.8	420.8	420.4	419.9	419.4	419.0	418.9
175°	419.6	420.3	421.0	421.7	422.4	422.4	422.0	421.5	421.0	420.6	420.5
177.5°	420.5	420.9	421.4	421.9	422.4	422.4	422.1	421.7	421.3	420.9	420.8
180°	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1



TEST NUMBER: P331330-830

CATALOG NUMBER: SA2XXDIP-C675D330U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1284.7	1281.6	1279.7	1272.7	1266.6	1260.5	1258.5	1259.2	1250.8	1242.7	1239.3
5°	1334.7	1325.1	1316.0	1303.0	1287.6	1270.7	1262.1	1255.3	1238.5	1220.2	1209.7
7.5°	1379.6	1365.8	1348.2	1323.7	1301.4	1274.9	1258.0	1243.1	1218.4	1192.7	1176.9
10°	1406.9	1388.1	1365.5	1335.7	1308.2	1276.0	1253.4	1230.8	1201.9	1171.1	1151.9
12.5°	1430.4	1405.0	1382.8	1344.5	1312.1	1271.8	1244.9	1213.1	1182.7	1146.1	1127.3
15°	1486.3	1439.6	1397.2	1354.0	1314.0	1257.7	1227.9	1185.1	1145.1	1099.9	1078.3
17.5°	1529.5	1477.1	1410.3	1355.3	1308.7	1246.4	1202.6	1151.3	1104.1	1052.3	1022.9
20°	1554.2	1493.9	1422.3	1356.9	1301.0	1229.8	1182.2	1129.7	1074.4	1016.2	984.4
22.5°	1568.8	1505.5	1434.6	1351.0	1285.6	1216.4	1156.4	1098.9	1042.8	980.1	946.7
25°	1573.4	1515.6	1440.6	1346.2	1266.4	1188.0	1115.8	1060.0	992.1	933.4	884.9
27.5°	1550.5	1509.1	1436.9	1337.2	1244.2	1152.4	1072.0	1008.8	937.2	873.5	824.6
30°	1522.4	1498.3	1428.0	1327.9	1226.4	1127.8	1039.2	967.6	896.4	831.9	781.8
32.5°	1478.8	1473.7	1411.9	1314.8	1207.6	1096.6	1005.0	932.6	853.7	790.3	742.6
35°	1393.5	1416.5	1377.5	1285.6	1172.1	1052.3	953.2	870.4	788.6	728.0	683.2
37.5°	1278.9	1336.2	1326.1	1242.8	1124.2	1004.0	894.6	808.0	730.1	668.9	625.0
40°	1200.0	1273.1	1283.7	1210.1	1090.3	966.7	850.6	764.6	688.5	632.7	588.4
42.5°	1115.3	1200.8	1229.8	1170.8	1053.3	927.4	811.4	722.2	647.0	592.7	553.5
45°	973.4	1086.5	1138.9	1105.2	991.6	862.7	743.4	652.9	584.6	533.6	503.3
47.5°	840.7	964.2	1034.7	1022.8	923.0	795.3	677.4	590.6	524.1	483.3	456.2
50°	746.8	873.7	958.9	962.8	873.7	747.2	628.9	547.1	486.0	448.0	425.8
52.5°	665.2	786.4	879.3	899.7	818.7	697.2	585.4	504.0	450.2	415.2	395.4
55°	558.6	661.1	764.0	801.6	736.6	621.1	517.7	446.0	395.5	371.5	354.1
57.5°	464.4	549.9	645.0	686.5	646.4	547.5	450.5	388.3	347.3	326.2	312.9
60°	414.7	482.1	566.8	616.3	581.7	493.7	409.0	349.8	316.1	297.4	284.8
62.5°	368.5	428.2	499.8	545.2	526.3	443.3	367.4	315.2	286.1	268.4	259.5
65°	304.1	351.3	406.6	448.5	435.9	372.9	310.9	266.1	243.0	229.0	221.8
67.5°	250.4	284.5	322.8	359.5	349.4	304.7	255.0	220.1	202.8	190.9	186.5
70°	216.5	242.5	276.6	306.0	297.8	261.3	221.8	192.0	177.1	166.9	162.6
72.5°	184.2	205.6	231.6	255.6	250.1	219.7	186.8	164.3	152.8	143.5	139.9
75°	139.0	155.4	171.3	187.2	185.7	162.1	142.9	125.5	116.4	109.2	107.7
77.5°	102.6	111.8	122.6	132.1	129.4	115.9	100.9	91.0	84.2	79.4	78.6
80°	78.4	83.7	91.4	98.1	94.8	89.0	77.0	69.7	64.9	60.1	58.2
82.5°	56.8	62.2	66.8	70.4	67.9	62.5	55.0	50.1	47.2	44.0	43.2
85°	29.8	32.7	34.7	35.6	34.7	31.3	27.9	26.0	23.6	22.1	21.7
87.5°	12.5	12.4	12.3	13.0	11.7	11.5	9.8	8.5	8.3	8.0	7.4
90°	5.0	4.4	4.0	3.3	2.5	1.8	1.0	0.3	1.0	1.8	2.5
92.5°	6.5	6.2	6.0	5.8	5.9	6.0	6.1	6.1	6.1	6.0	5.9
95°	10.9	10.5	10.0	10.8	13.1	15.4	17.5	19.8	17.5	15.4	13.1
97.5°	13.7	12.6	11.5	14.1	20.5	26.7	33.0	39.3	33.0	26.7	20.5
100°	15.1	13.9	12.7	16.9	26.1	35.3	44.7	53.9	44.7	35.3	26.1
102.5°	37.1	46.8	56.4	62.2	64.2	66.1	68.1	70.0	68.1	66.1	64.2
105°	55.6	74.1	92.6	100.8	98.8	96.7	94.6	92.7	94.6	96.7	98.8
107.5°	70.4	92.6	114.7	125.0	123.4	121.7	120.1	118.4	120.1	121.7	123.4
110°	92.5	112.1	131.6	140.7	139.3	137.9	136.4	135.0	136.4	137.9	139.3



TEST NUMBER: P331330-830

CATALOG NUMBER: SA2XXDIP-C675D330U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	144.2	149.0	153.8	155.6	154.4	153.2	151.8	150.6	151.8	153.2	154.4
115°	184.6	182.9	181.3	179.8	178.7	177.6	176.3	175.2	176.3	177.6	178.7
117.5°	205.9	204.8	203.6	202.4	201.1	199.8	198.5	197.3	198.5	199.8	201.1
120°	220.9	219.7	218.5	217.4	216.4	215.4	214.3	213.3	214.3	215.4	216.4
122.5°	235.1	233.8	232.4	231.3	230.2	229.1	228.1	227.0	228.1	229.1	230.2
125°	255.0	253.6	252.4	251.3	250.4	249.5	248.6	247.8	248.6	249.5	250.4
127.5°	273.4	272.4	271.5	270.5	269.6	268.5	267.6	266.6	267.6	268.5	269.6
130°	285.3	284.6	283.8	282.9	281.8	280.7	279.7	278.5	279.7	280.7	281.8
132.5°	296.7	296.0	295.2	294.5	293.5	292.6	291.6	290.8	291.6	292.6	293.5
135°	313.0	312.4	311.8	310.9	309.8	308.8	307.6	306.6	307.6	308.8	309.8
137.5°	327.7	327.1	326.4	325.6	324.9	324.1	323.4	322.6	323.4	324.1	324.9
140°	337.4	336.7	335.9	335.3	334.7	334.1	333.7	333.1	333.7	334.1	334.7
142.5°	346.2	345.3	344.5	343.8	343.4	342.8	342.3	341.9	342.3	342.8	343.4
145°	358.3	357.0	355.9	355.3	355.4	355.5	355.6	355.6	355.6	355.5	355.4
147.5°	369.4	368.2	367.0	366.6	366.8	367.1	367.4	367.7	367.4	367.1	366.8
150°	376.1	374.9	373.9	373.5	374.0	374.5	374.9	375.4	374.9	374.5	374.0
152.5°	382.2	381.2	380.1	379.9	380.4	381.0	381.5	382.0	381.5	381.0	380.4
155°	390.9	390.1	389.3	389.2	389.7	390.4	391.0	391.6	391.0	390.4	389.7
157.5°	398.2	397.7	397.1	397.0	397.6	398.0	398.6	399.1	398.6	398.0	397.6
160°	402.7	402.3	401.9	401.9	402.3	402.7	403.1	403.5	403.1	402.7	402.3
162.5°	406.4	406.0	405.8	405.8	406.1	406.6	407.0	407.4	407.0	406.6	406.1
165°	411.3	411.1	410.9	411.0	411.4	411.8	412.3	412.6	412.3	411.8	411.4
167.5°	415.2	415.0	414.8	414.9	415.3	415.8	416.1	416.5	416.1	415.8	415.3
170°	417.3	417.1	417.0	417.1	417.5	417.9	418.3	418.8	418.3	417.9	417.5
172.5°	418.7	418.6	418.4	418.6	419.0	419.3	419.8	420.2	419.8	419.3	419.0
175°	420.3	420.2	420.0	420.2	420.7	421.1	421.6	422.1	421.6	421.1	420.7
177.5°	420.8	420.8	420.8	420.8	421.2	421.6	422.0	422.4	422.0	421.6	421.2
180°	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1



TEST NUMBER: P331330-830

CATALOG NUMBER: SA2XXDIP-C675D330U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1235.4	1233.1	1225.0	1220.8	1213.8	1207.3	1203.1	1205.0	1206.5	1205.8	1204.6
5°	1200.0	1190.8	1176.9	1164.9	1156.2	1140.3	1133.6	1130.2	1127.4	1124.0	1120.6
7.5°	1157.8	1143.4	1123.4	1106.3	1090.1	1070.4	1059.1	1052.3	1045.5	1037.8	1031.1
10°	1127.8	1107.6	1086.5	1062.3	1043.1	1025.3	1009.5	998.9	989.3	980.1	973.4
12.5°	1096.3	1073.0	1046.8	1013.9	992.7	967.2	964.8	946.1	931.1	925.5	917.6
15°	1046.0	1013.3	980.1	941.1	924.3	901.2	886.7	872.3	859.3	850.2	847.8
17.5°	988.9	946.6	913.6	885.6	858.0	834.3	821.0	809.5	798.8	786.6	784.9
20°	945.5	908.9	872.8	848.3	819.9	795.8	779.5	767.9	758.7	751.6	745.3
22.5°	904.3	864.2	831.2	804.4	776.4	757.0	744.0	732.9	725.3	717.3	711.4
25°	838.2	806.9	770.8	740.5	717.4	704.9	694.3	684.7	679.9	674.6	667.9
27.5°	780.3	745.6	711.8	688.3	668.1	657.0	649.4	642.9	638.4	635.3	631.5
30°	739.5	704.4	678.0	654.9	638.0	627.0	622.2	618.3	613.0	611.1	609.2
32.5°	700.3	668.6	646.0	625.9	609.9	602.7	598.2	594.8	590.7	588.7	584.8
35°	644.7	618.3	596.2	585.0	572.1	565.8	562.5	557.6	553.8	551.9	551.4
37.5°	592.5	569.5	555.0	540.7	535.3	531.4	526.8	523.5	522.4	522.1	521.6
40°	558.6	539.9	526.9	515.3	512.9	507.1	503.3	500.4	500.4	500.9	500.4
42.5°	527.8	511.0	499.5	489.6	486.7	483.2	479.4	479.2	480.0	481.6	480.0
45°	481.2	469.1	460.9	456.1	450.8	447.4	447.0	448.5	448.9	449.4	450.8
47.5°	438.2	430.3	422.8	417.5	415.2	414.6	414.1	416.6	418.9	419.7	422.0
50°	412.8	403.7	397.5	394.1	392.1	391.2	392.1	395.0	396.9	399.4	400.8
52.5°	384.4	377.9	373.5	371.0	370.2	370.8	371.0	374.3	377.3	378.1	378.9
55°	345.0	340.2	339.2	334.9	336.8	336.3	338.7	340.6	343.6	346.4	346.9
57.5°	305.8	301.9	299.3	299.6	300.2	302.4	304.3	307.7	310.9	313.9	314.1
60°	279.6	277.6	276.2	276.2	277.1	280.0	282.5	285.8	287.8	289.6	291.1
62.5°	255.7	253.7	252.3	253.1	255.6	257.3	260.1	261.9	263.8	265.8	266.5
65°	217.9	217.0	218.5	219.4	219.9	222.3	225.6	227.1	229.0	230.0	233.4
67.5°	183.2	183.4	183.2	184.5	187.4	187.9	191.1	194.4	194.8	196.7	198.9
70°	159.8	160.7	161.6	162.6	165.0	166.0	168.4	169.8	171.7	173.2	174.7
72.5°	138.2	138.4	139.3	139.1	141.2	143.3	145.3	146.8	148.6	150.5	151.9
75°	106.3	106.3	107.3	107.7	110.2	112.6	112.1	113.1	115.0	116.9	117.9
77.5°	77.7	76.6	77.7	78.1	78.9	81.0	81.3	82.7	84.8	84.2	85.3
80°	59.2	57.8	59.2	59.7	59.7	62.1	62.1	63.1	64.5	63.1	64.5
82.5°	42.2	41.6	42.6	42.7	43.5	43.5	44.4	44.6	46.0	45.3	46.0
85°	21.2	20.7	21.2	20.7	21.2	21.7	21.7	21.2	21.2	22.1	20.7
87.5°	7.2	7.0	6.7	6.8	6.5	6.2	5.9	5.9	6.0	5.4	5.4
90°	3.3	4.0	4.4	5.0	5.6	6.1	6.4	6.8	7.1	7.4	7.7
92.5°	5.8	6.0	6.2	6.5	6.8	7.1	7.3	7.4	7.6	7.7	7.9
95°	10.8	10.0	10.5	10.9	11.4	11.9	12.3	12.5	12.9	13.2	13.4
97.5°	14.1	11.5	12.6	13.7	14.8	15.9	16.2	16.5	16.7	17.0	17.2
100°	16.9	12.7	13.9	15.1	16.2	17.3	17.9	18.5	19.0	19.5	19.9
102.5°	62.2	56.4	46.8	37.1	27.5	17.8	18.6	19.2	20.0	20.6	21.1
105°	100.8	92.6	74.1	55.6	37.0	18.6	19.3	20.1	20.8	21.6	22.1
107.5°	125.0	114.7	92.6	70.4	48.2	26.0	25.3	24.5	23.8	23.0	22.7
110°	140.7	131.6	112.1	92.5	72.9	53.3	46.6	39.8	33.0	26.2	23.0



TEST NUMBER: P331330-830

CATALOG NUMBER: SA2XXDIP-C675D330U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	155.6	153.8	149.0	144.2	139.3	134.5	109.8	85.1	60.4	35.7	23.5
115°	179.8	181.3	182.9	184.6	186.3	188.0	156.7	125.4	94.0	62.6	44.5
117.5°	202.4	203.6	204.8	205.9	207.1	208.3	200.7	193.1	185.5	178.0	166.2
120°	217.4	218.5	219.7	220.9	222.2	223.4	224.2	225.0	225.8	226.6	222.4
122.5°	231.3	232.4	233.8	235.1	236.5	237.8	238.3	238.7	239.2	239.7	239.0
125°	251.3	252.4	253.6	255.0	256.2	257.5	258.0	258.4	258.9	259.4	259.8
127.5°	270.5	271.5	272.4	273.4	274.4	275.3	276.0	276.7	277.4	278.1	278.4
130°	282.9	283.8	284.6	285.3	286.1	286.8	287.5	288.2	289.0	289.7	290.1
132.5°	294.5	295.2	296.0	296.7	297.5	298.2	298.9	299.5	300.1	300.8	301.0
135°	310.9	311.8	312.4	313.0	313.6	314.2	314.9	315.6	316.2	316.9	317.2
137.5°	325.6	326.4	327.1	327.7	328.5	329.1	329.8	330.5	331.1	331.8	332.0
140°	335.3	335.9	336.7	337.4	338.2	338.8	339.5	340.1	340.7	341.3	341.5
142.5°	343.8	344.5	345.3	346.2	347.0	347.9	348.5	349.0	349.6	350.2	350.2
145°	355.3	355.9	357.0	358.3	359.4	360.5	361.0	361.5	361.9	362.4	362.5
147.5°	366.6	367.0	368.2	369.4	370.5	371.6	371.9	372.3	372.7	373.1	373.1
150°	373.5	373.9	374.9	376.1	377.1	378.2	378.6	379.0	379.4	379.8	379.8
152.5°	379.9	380.1	381.2	382.2	383.2	384.3	384.7	385.1	385.5	385.9	385.9
155°	389.2	389.3	390.1	390.9	391.7	392.5	392.9	393.3	393.7	394.2	394.1
157.5°	397.0	397.1	397.7	398.2	398.8	399.4	399.8	400.3	400.8	401.1	401.1
160°	401.9	401.9	402.3	402.7	403.1	403.5	403.9	404.4	404.7	405.1	405.1
162.5°	405.8	405.8	406.0	406.4	406.8	407.2	407.6	408.0	408.5	409.0	409.0
165°	411.0	410.9	411.1	411.3	411.5	411.7	412.2	412.6	413.1	413.6	413.6
167.5°	414.9	414.8	415.0	415.2	415.4	415.6	416.0	416.5	417.0	417.5	417.4
170°	417.1	417.0	417.1	417.3	417.4	417.5	418.0	418.5	419.0	419.4	419.3
172.5°	418.6	418.4	418.6	418.7	418.9	419.0	419.4	419.9	420.4	420.8	420.8
175°	420.2	420.0	420.2	420.3	420.5	420.6	421.0	421.5	422.0	422.4	422.4
177.5°	420.8	420.8	420.8	420.8	420.8	420.9	421.3	421.7	422.1	422.4	422.4
180°	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1



TEST NUMBER: P331330-830

CATALOG NUMBER: SA2XXDIP-C675D330U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1200.8	1200.0	1200.0	1196.6	1200.0	1200.0	1200.8	1204.6	1205.8	1206.5	1205.0
5°	1113.9	1112.4	1110.0	1112.4	1110.0	1112.4	1113.9	1120.6	1124.0	1127.4	1130.2
7.5°	1027.9	1022.2	1021.3	1015.6	1021.3	1022.2	1027.9	1031.1	1037.8	1045.5	1052.3
10°	965.2	961.3	960.8	951.7	960.8	961.3	965.2	973.4	980.1	989.3	998.9
12.5°	917.5	908.2	910.0	904.7	910.0	908.2	917.5	917.6	925.5	931.1	946.1
15°	834.8	834.8	832.8	824.7	832.8	834.8	834.8	847.8	850.2	859.3	872.3
17.5°	775.4	774.5	769.9	772.1	769.9	774.5	775.4	784.9	786.6	798.8	809.5
20°	740.0	737.2	731.3	731.3	731.3	737.2	740.0	745.3	751.6	758.7	767.9
22.5°	706.5	706.3	700.2	702.1	700.2	706.3	706.5	711.4	717.3	725.3	732.9
25°	667.3	663.5	660.6	662.0	660.6	663.5	667.3	667.9	674.6	679.9	684.7
27.5°	630.2	628.1	627.9	624.0	627.9	628.1	630.2	631.5	635.3	638.4	642.9
30°	608.7	603.9	604.8	602.4	604.8	603.9	608.7	609.2	611.1	613.0	618.3
32.5°	584.0	582.3	581.4	579.3	581.4	582.3	584.0	584.8	588.7	590.7	594.8
35°	550.4	550.9	548.6	549.5	548.6	550.9	550.4	551.4	551.9	553.8	557.6
37.5°	521.1	522.6	521.5	521.8	521.5	522.6	521.1	521.6	522.1	522.4	523.5
40°	501.8	501.8	501.8	503.3	501.8	501.8	501.8	500.4	500.9	500.4	500.4
42.5°	483.3	482.6	481.8	481.7	481.8	482.6	483.3	480.0	481.6	480.0	479.2
45°	451.8	453.3	453.7	451.3	453.7	453.3	451.8	450.8	449.4	448.9	448.5
47.5°	423.2	423.4	423.2	425.4	423.2	423.4	423.2	422.0	419.7	418.9	416.6
50°	403.2	402.3	403.2	402.3	403.2	402.3	403.2	400.8	399.4	396.9	395.0
52.5°	382.0	382.2	381.6	381.4	381.6	382.2	382.0	378.9	378.1	377.3	374.3
55°	348.8	349.8	349.3	349.3	349.3	349.8	348.8	346.9	346.4	343.6	340.6
57.5°	314.5	315.4	316.0	313.9	316.0	315.4	314.5	314.1	313.9	310.9	307.7
60°	290.6	293.0	292.6	291.6	292.6	293.0	290.6	291.1	289.6	287.8	285.8
62.5°	268.7	269.6	269.5	269.3	269.5	269.6	268.7	266.5	265.8	263.8	261.9
65°	234.8	235.7	234.3	235.7	234.3	235.7	234.8	233.4	230.0	229.0	227.1
67.5°	198.3	198.6	199.7	200.4	199.7	198.6	198.3	198.9	196.7	194.8	194.4
70°	175.6	175.1	176.5	178.0	176.5	175.1	175.6	174.7	173.2	171.7	169.8
72.5°	151.7	152.8	152.3	153.4	152.3	152.8	151.7	151.9	150.5	148.6	146.8
75°	116.9	118.4	117.9	119.3	117.9	118.4	116.9	117.9	116.9	115.0	113.1
77.5°	84.5	84.6	84.5	85.3	84.5	84.6	84.5	85.3	84.2	84.8	82.7
80°	64.5	63.5	62.6	64.5	62.6	63.5	64.5	64.5	63.1	64.5	63.1
82.5°	44.9	45.4	44.5	44.5	44.5	45.4	44.9	46.0	45.3	46.0	44.6
85°	20.7	20.2	19.2	19.2	19.2	20.2	20.7	20.7	22.1	21.2	21.2
87.5°	5.4	5.1	5.1	4.7	5.1	5.1	5.4	5.4	5.4	6.0	5.9
90°	7.8	7.9	8.1	8.2	8.1	7.9	7.8	7.7	7.4	7.1	6.8
92.5°	8.0	8.1	8.1	8.2	8.1	8.1	8.0	7.9	7.7	7.6	7.4
95°	13.3	13.2	13.2	13.1	13.2	13.2	13.3	13.4	13.2	12.9	12.5
97.5°	17.2	17.3	17.4	17.5	17.4	17.3	17.2	17.2	17.0	16.7	16.5
100°	20.0	20.2	20.3	20.5	20.3	20.2	20.0	19.9	19.5	19.0	18.5
102.5°	21.3	21.5	21.7	21.9	21.7	21.5	21.3	21.1	20.6	20.0	19.2
105°	22.3	22.6	22.9	23.2	22.9	22.6	22.3	22.1	21.6	20.8	20.1
107.5°	23.0	23.3	23.6	23.8	23.6	23.3	23.0	22.7	23.0	23.8	24.5
110°	23.3	23.6	23.8	24.0	23.8	23.6	23.3	23.0	26.2	33.0	39.8



TEST NUMBER: P331330-830

CATALOG NUMBER: SA2XXDIP-C675D330U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	23.7	23.8	24.1	24.3	24.1	23.8	23.7	23.5	35.7	60.4	85.1
115°	39.6	34.8	29.9	25.0	29.9	34.8	39.6	44.5	62.6	94.0	125.4
117.5°	150.1	134.1	118.1	102.1	118.1	134.1	150.1	166.2	178.0	185.5	193.1
120°	213.3	204.2	195.0	185.9	195.0	204.2	213.3	222.4	226.6	225.8	225.0
122.5°	237.3	235.5	233.8	232.0	233.8	235.5	237.3	239.0	239.7	239.2	238.7
125°	260.0	260.1	260.3	260.5	260.3	260.1	260.0	259.8	259.4	258.9	258.4
127.5°	278.5	278.5	278.5	278.6	278.5	278.5	278.5	278.4	278.1	277.4	276.7
130°	290.0	289.9	289.9	289.8	289.9	289.9	290.0	290.1	289.7	289.0	288.2
132.5°	301.0	301.0	300.9	300.8	300.9	301.0	301.0	301.0	300.8	300.1	299.5
135°	317.1	316.9	316.8	316.6	316.8	316.9	317.1	317.2	316.9	316.2	315.6
137.5°	331.8	331.6	331.3	331.1	331.3	331.6	331.8	332.0	331.8	331.1	330.5
140°	341.1	340.8	340.4	340.1	340.4	340.8	341.1	341.5	341.3	340.7	340.1
142.5°	349.9	349.6	349.2	348.8	349.2	349.6	349.9	350.2	350.2	349.6	349.0
145°	362.1	361.8	361.5	361.1	361.5	361.8	362.1	362.5	362.4	361.9	361.5
147.5°	372.8	372.5	372.2	371.9	372.2	372.5	372.8	373.1	373.1	372.7	372.3
150°	379.6	379.2	378.8	378.5	378.8	379.2	379.6	379.8	379.8	379.4	379.0
152.5°	385.4	385.0	384.6	384.1	384.6	385.0	385.4	385.9	385.9	385.5	385.1
155°	393.5	393.0	392.5	391.9	392.5	393.0	393.5	394.1	394.2	393.7	393.3
157.5°	400.6	400.1	399.5	399.1	399.5	400.1	400.6	401.1	401.1	400.8	400.3
160°	404.6	404.2	403.7	403.2	403.7	404.2	404.6	405.1	405.1	404.7	404.4
162.5°	408.3	407.7	407.2	406.6	407.2	407.7	408.3	409.0	409.0	408.5	408.0
165°	413.1	412.6	412.2	411.7	412.2	412.6	413.1	413.6	413.6	413.1	412.6
167.5°	416.8	416.1	415.6	414.9	415.6	416.1	416.8	417.4	417.5	417.0	416.5
170°	418.8	418.1	417.5	416.9	417.5	418.1	418.8	419.3	419.4	419.0	418.5
172.5°	420.2	419.6	419.0	418.4	419.0	419.6	420.2	420.8	420.8	420.4	419.9
175°	421.7	421.0	420.3	419.6	420.3	421.0	421.7	422.4	422.4	422.0	421.5
177.5°	421.9	421.4	420.9	420.5	420.9	421.4	421.9	422.4	422.4	422.1	421.7
180°	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1



TEST NUMBER: P331330-830

CATALOG NUMBER: SA2XXDIP-C675D330U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1203.1	1207.3	1213.8	1220.8	1225.0	1233.1	1235.4	1239.3	1242.7	1250.8	1259.2
5°	1133.6	1140.3	1156.2	1164.9	1176.9	1190.8	1200.0	1209.7	1220.2	1238.5	1255.3
7.5°	1059.1	1070.4	1090.1	1106.3	1123.4	1143.4	1157.8	1176.9	1192.7	1218.4	1243.1
10°	1009.5	1025.3	1043.1	1062.3	1086.5	1107.6	1127.8	1151.9	1171.1	1201.9	1230.8
12.5°	964.8	967.2	992.7	1013.9	1046.8	1073.0	1096.3	1127.3	1146.1	1182.7	1213.1
15°	886.7	901.2	924.3	941.1	980.1	1013.3	1046.0	1078.3	1099.9	1145.1	1185.1
17.5°	821.0	834.3	858.0	885.6	913.6	946.6	988.9	1022.9	1052.3	1104.1	1151.3
20°	779.5	795.8	819.9	848.3	872.8	908.9	945.5	984.4	1016.2	1074.4	1129.7
22.5°	744.0	757.0	776.4	804.4	831.2	864.2	904.3	946.7	980.1	1042.8	1098.9
25°	694.3	704.9	717.4	740.5	770.8	806.9	838.2	884.9	933.4	992.1	1060.0
27.5°	649.4	657.0	668.1	688.3	711.8	745.6	780.3	824.6	873.5	937.2	1008.8
30°	622.2	627.0	638.0	654.9	678.0	704.4	739.5	781.8	831.9	896.4	967.6
32.5°	598.2	602.7	609.9	625.9	646.0	668.6	700.3	742.6	790.3	853.7	932.6
35°	562.5	565.8	572.1	585.0	596.2	618.3	644.7	683.2	728.0	788.6	870.4
37.5°	526.8	531.4	535.3	540.7	555.0	569.5	592.5	625.0	668.9	730.1	808.0
40°	503.3	507.1	512.9	515.3	526.9	539.9	558.6	588.4	632.7	688.5	764.6
42.5°	479.4	483.2	486.7	489.6	499.5	511.0	527.8	553.5	592.7	647.0	722.2
45°	447.0	447.4	450.8	456.1	460.9	469.1	481.2	503.3	533.6	584.6	652.9
47.5°	414.1	414.6	415.2	417.5	422.8	430.3	438.2	456.2	483.3	524.1	590.6
50°	392.1	391.2	392.1	394.1	397.5	403.7	412.8	425.8	448.0	486.0	547.1
52.5°	371.0	370.8	370.2	371.0	373.5	377.9	384.4	395.4	415.2	450.2	504.0
55°	338.7	336.3	336.8	334.9	339.2	340.2	345.0	354.1	371.5	395.5	446.0
57.5°	304.3	302.4	300.2	299.6	299.3	301.9	305.8	312.9	326.2	347.3	388.3
60°	282.5	280.0	277.1	276.2	276.2	277.6	279.6	284.8	297.4	316.1	349.8
62.5°	260.1	257.3	255.6	253.1	252.3	253.7	255.7	259.5	268.4	286.1	315.2
65°	225.6	222.3	219.9	219.4	218.5	217.0	217.9	221.8	229.0	243.0	266.1
67.5°	191.1	187.9	187.4	184.5	183.2	183.4	183.2	186.5	190.9	202.8	220.1
70°	168.4	166.0	165.0	162.6	161.6	160.7	159.8	162.6	166.9	177.1	192.0
72.5°	145.3	143.3	141.2	139.1	139.3	138.4	138.2	139.9	143.5	152.8	164.3
75°	112.1	112.6	110.2	107.7	107.3	106.3	106.3	107.7	109.2	116.4	125.5
77.5°	81.3	81.0	78.9	78.1	77.7	76.6	77.7	78.6	79.4	84.2	91.0
80°	62.1	62.1	59.7	59.7	59.2	57.8	59.2	58.2	60.1	64.9	69.7
82.5°	44.4	43.5	43.5	42.7	42.6	41.6	42.2	43.2	44.0	47.2	50.1
85°	21.7	21.7	21.2	20.7	21.2	20.7	21.2	21.7	22.1	23.6	26.0
87.5°	5.9	6.2	6.5	6.8	6.7	7.0	7.2	7.4	8.0	8.3	8.5
90°	6.4	6.1	5.6	5.0	4.4	4.0	3.3	2.5	1.8	1.0	0.3
92.5°	7.3	7.1	6.8	6.5	6.2	6.0	5.8	5.9	6.0	6.1	6.1
95°	12.3	11.9	11.4	10.9	10.5	10.0	10.8	13.1	15.4	17.5	19.8
97.5°	16.2	15.9	14.8	13.7	12.6	11.5	14.1	20.5	26.7	33.0	39.3
100°	17.9	17.3	16.2	15.1	13.9	12.7	16.9	26.1	35.3	44.7	53.9
102.5°	18.6	17.8	27.5	37.1	46.8	56.4	62.2	64.2	66.1	68.1	70.0
105°	19.3	18.6	37.0	55.6	74.1	92.6	100.8	98.8	96.7	94.6	92.7
107.5°	25.3	26.0	48.2	70.4	92.6	114.7	125.0	123.4	121.7	120.1	118.4
110°	46.6	53.3	72.9	92.5	112.1	131.6	140.7	139.3	137.9	136.4	135.0



TEST NUMBER: P331330-830

CATALOG NUMBER: SA2XXDIP-C675D330U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	109.8	134.5	139.3	144.2	149.0	153.8	155.6	154.4	153.2	151.8	150.6
115°	156.7	188.0	186.3	184.6	182.9	181.3	179.8	178.7	177.6	176.3	175.2
117.5°	200.7	208.3	207.1	205.9	204.8	203.6	202.4	201.1	199.8	198.5	197.3
120°	224.2	223.4	222.2	220.9	219.7	218.5	217.4	216.4	215.4	214.3	213.3
122.5°	238.3	237.8	236.5	235.1	233.8	232.4	231.3	230.2	229.1	228.1	227.0
125°	258.0	257.5	256.2	255.0	253.6	252.4	251.3	250.4	249.5	248.6	247.8
127.5°	276.0	275.3	274.4	273.4	272.4	271.5	270.5	269.6	268.5	267.6	266.6
130°	287.5	286.8	286.1	285.3	284.6	283.8	282.9	281.8	280.7	279.7	278.5
132.5°	298.9	298.2	297.5	296.7	296.0	295.2	294.5	293.5	292.6	291.6	290.8
135°	314.9	314.2	313.6	313.0	312.4	311.8	310.9	309.8	308.8	307.6	306.6
137.5°	329.8	329.1	328.5	327.7	327.1	326.4	325.6	324.9	324.1	323.4	322.6
140°	339.5	338.8	338.2	337.4	336.7	335.9	335.3	334.7	334.1	333.7	333.1
142.5°	348.5	347.9	347.0	346.2	345.3	344.5	343.8	343.4	342.8	342.3	341.9
145°	361.0	360.5	359.4	358.3	357.0	355.9	355.3	355.4	355.5	355.6	355.6
147.5°	371.9	371.6	370.5	369.4	368.2	367.0	366.6	366.8	367.1	367.4	367.7
150°	378.6	378.2	377.1	376.1	374.9	373.9	373.5	374.0	374.5	374.9	375.4
152.5°	384.7	384.3	383.2	382.2	381.2	380.1	379.9	380.4	381.0	381.5	382.0
155°	392.9	392.5	391.7	390.9	390.1	389.3	389.2	389.7	390.4	391.0	391.6
157.5°	399.8	399.4	398.8	398.2	397.7	397.1	397.0	397.6	398.0	398.6	399.1
160°	403.9	403.5	403.1	402.7	402.3	401.9	401.9	402.3	402.7	403.1	403.5
162.5°	407.6	407.2	406.8	406.4	406.0	405.8	405.8	406.1	406.6	407.0	407.4
165°	412.2	411.7	411.5	411.3	411.1	410.9	411.0	411.4	411.8	412.3	412.6
167.5°	416.0	415.6	415.4	415.2	415.0	414.8	414.9	415.3	415.8	416.1	416.5
170°	418.0	417.5	417.4	417.3	417.1	417.0	417.1	417.5	417.9	418.3	418.8
172.5°	419.4	419.0	418.9	418.7	418.6	418.4	418.6	419.0	419.3	419.8	420.2
175°	421.0	420.6	420.5	420.3	420.2	420.0	420.2	420.7	421.1	421.6	422.1
177.5°	421.3	420.9	420.8	420.8	420.8	420.8	420.8	421.2	421.6	422.0	422.4
180°	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1



TEST NUMBER: P331330-830
 CATALOG NUMBER: SA2XXDIP-C675D330U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1258.5	1260.5	1266.6	1272.7	1279.7	1281.6	1284.7	1282.0	1281.2	1288.5	1293.9
5°	1262.1	1270.7	1287.6	1303.0	1316.0	1325.1	1334.7	1338.6	1345.8	1355.8	1368.4
7.5°	1258.0	1274.9	1301.4	1323.7	1348.2	1365.8	1379.6	1391.3	1405.5	1424.7	1445.6
10°	1253.4	1276.0	1308.2	1335.7	1365.5	1388.1	1406.9	1425.1	1446.3	1472.8	1500.2
12.5°	1244.9	1271.8	1312.1	1344.5	1382.8	1405.0	1430.4	1469.8	1492.5	1529.4	1568.0
15°	1227.9	1257.7	1314.0	1354.0	1397.2	1439.6	1486.3	1523.8	1561.3	1583.0	1637.4
17.5°	1202.6	1246.4	1308.7	1355.3	1410.3	1477.1	1529.5	1572.0	1615.3	1650.5	1677.7
20°	1182.2	1229.8	1301.0	1356.9	1422.3	1493.9	1554.2	1597.4	1634.9	1664.3	1681.1
22.5°	1156.4	1216.4	1285.6	1351.0	1434.6	1505.5	1568.8	1602.8	1634.2	1648.5	1655.0
25°	1115.8	1188.0	1266.4	1346.2	1440.6	1515.6	1573.4	1594.0	1603.2	1589.2	1566.1
27.5°	1072.0	1152.4	1244.2	1337.2	1436.9	1509.1	1550.5	1547.2	1531.7	1486.6	1450.5
30°	1039.2	1127.8	1226.4	1327.9	1428.0	1498.3	1522.4	1498.3	1463.2	1412.7	1361.2
32.5°	1005.0	1096.6	1207.6	1314.8	1411.9	1473.7	1478.8	1437.5	1383.1	1325.7	1261.5
35°	953.2	1052.3	1172.1	1285.6	1377.5	1416.5	1393.5	1320.3	1255.8	1177.4	1089.8
37.5°	894.6	1004.0	1124.2	1242.8	1326.1	1336.2	1278.9	1201.9	1111.0	1018.8	915.8
40°	850.6	966.7	1090.3	1210.1	1283.7	1273.1	1200.0	1115.3	1007.0	894.5	798.7
42.5°	811.4	927.4	1053.3	1170.8	1229.8	1200.8	1115.3	1011.3	895.0	789.0	701.3
45°	743.4	862.7	991.6	1105.2	1138.9	1086.5	973.4	857.9	743.4	654.9	585.6
47.5°	677.4	795.3	923.0	1022.8	1034.7	964.2	840.7	721.8	623.4	551.3	502.4
50°	628.9	747.2	873.7	962.8	958.9	873.7	746.8	633.7	551.4	493.1	460.4
52.5°	585.4	697.2	818.7	899.7	879.3	786.4	665.2	564.8	497.1	451.6	422.0
55°	517.7	621.1	736.6	801.6	764.0	661.1	558.6	477.8	427.7	393.6	370.5
57.5°	450.5	547.5	646.4	686.5	645.0	549.9	464.4	405.8	368.2	342.9	327.8
60°	409.0	493.7	581.7	616.3	566.8	482.1	414.7	362.3	332.0	311.3	297.8
62.5°	367.4	443.3	526.3	545.2	499.8	428.2	368.5	325.0	300.0	281.6	269.0
65°	310.9	372.9	435.9	448.5	406.6	351.3	304.1	275.7	253.5	240.1	230.0
67.5°	255.0	304.7	349.4	359.5	322.8	284.5	250.4	225.6	210.7	199.4	191.0
70°	221.8	261.3	297.8	306.0	276.6	242.5	216.5	196.8	183.3	173.7	165.5
72.5°	186.8	219.7	250.1	255.6	231.6	205.6	184.2	168.7	156.7	150.6	142.8
75°	142.9	162.1	185.7	187.2	171.3	155.4	139.0	128.9	122.7	115.0	111.1
77.5°	100.9	115.9	129.4	132.1	122.6	111.8	102.6	94.7	89.4	85.9	82.3
80°	77.0	89.0	94.8	98.1	91.4	83.7	78.4	73.1	69.7	67.4	64.9
82.5°	55.0	62.5	67.9	70.4	66.8	62.2	56.8	53.9	51.3	49.3	48.4
85°	27.9	31.3	34.7	35.6	34.7	32.7	29.8	29.8	28.4	27.9	27.9
87.5°	9.8	11.5	11.7	13.0	12.3	12.4	12.5	12.3	12.0	11.7	11.4
90°	1.0	1.8	2.5	3.3	4.0	4.4	5.0	5.6	6.1	6.4	6.8
92.5°	6.1	6.0	5.9	5.8	6.0	6.2	6.5	6.8	7.1	7.3	7.4
95°	17.5	15.4	13.1	10.8	10.0	10.5	10.9	11.4	11.9	12.3	12.5
97.5°	33.0	26.7	20.5	14.1	11.5	12.6	13.7	14.8	15.9	16.2	16.5
100°	44.7	35.3	26.1	16.9	12.7	13.9	15.1	16.2	17.3	17.9	18.5
102.5°	68.1	66.1	64.2	62.2	56.4	46.8	37.1	27.5	17.8	18.6	19.2
105°	94.6	96.7	98.8	100.8	92.6	74.1	55.6	37.0	18.6	19.3	20.1
107.5°	120.1	121.7	123.4	125.0	114.7	92.6	70.4	48.2	26.0	25.3	24.5
110°	136.4	137.9	139.3	140.7	131.6	112.1	92.5	72.9	53.3	46.6	39.8



TEST NUMBER: P331330-830

CATALOG NUMBER: SA2XXDIP-C675D330U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	151.8	153.2	154.4	155.6	153.8	149.0	144.2	139.3	134.5	109.8	85.1
115°	176.3	177.6	178.7	179.8	181.3	182.9	184.6	186.3	188.0	156.7	125.4
117.5°	198.5	199.8	201.1	202.4	203.6	204.8	205.9	207.1	208.3	200.7	193.1
120°	214.3	215.4	216.4	217.4	218.5	219.7	220.9	222.2	223.4	224.2	225.0
122.5°	228.1	229.1	230.2	231.3	232.4	233.8	235.1	236.5	237.8	238.3	238.7
125°	248.6	249.5	250.4	251.3	252.4	253.6	255.0	256.2	257.5	258.0	258.4
127.5°	267.6	268.5	269.6	270.5	271.5	272.4	273.4	274.4	275.3	276.0	276.7
130°	279.7	280.7	281.8	282.9	283.8	284.6	285.3	286.1	286.8	287.5	288.2
132.5°	291.6	292.6	293.5	294.5	295.2	296.0	296.7	297.5	298.2	298.9	299.5
135°	307.6	308.8	309.8	310.9	311.8	312.4	313.0	313.6	314.2	314.9	315.6
137.5°	323.4	324.1	324.9	325.6	326.4	327.1	327.7	328.5	329.1	329.8	330.5
140°	333.7	334.1	334.7	335.3	335.9	336.7	337.4	338.2	338.8	339.5	340.1
142.5°	342.3	342.8	343.4	343.8	344.5	345.3	346.2	347.0	347.9	348.5	349.0
145°	355.6	355.5	355.4	355.3	355.9	357.0	358.3	359.4	360.5	361.0	361.5
147.5°	367.4	367.1	366.8	366.6	367.0	368.2	369.4	370.5	371.6	371.9	372.3
150°	374.9	374.5	374.0	373.5	373.9	374.9	376.1	377.1	378.2	378.6	379.0
152.5°	381.5	381.0	380.4	379.9	380.1	381.2	382.2	383.2	384.3	384.7	385.1
155°	391.0	390.4	389.7	389.2	389.3	390.1	390.9	391.7	392.5	392.9	393.3
157.5°	398.6	398.0	397.6	397.0	397.1	397.7	398.2	398.8	399.4	399.8	400.3
160°	403.1	402.7	402.3	401.9	401.9	402.3	402.7	403.1	403.5	403.9	404.4
162.5°	407.0	406.6	406.1	405.8	405.8	406.0	406.4	406.8	407.2	407.6	408.0
165°	412.3	411.8	411.4	411.0	410.9	411.1	411.3	411.5	411.7	412.2	412.6
167.5°	416.1	415.8	415.3	414.9	414.8	415.0	415.2	415.4	415.6	416.0	416.5
170°	418.3	417.9	417.5	417.1	417.0	417.1	417.3	417.4	417.5	418.0	418.5
172.5°	419.8	419.3	419.0	418.6	418.4	418.6	418.7	418.9	419.0	419.4	419.9
175°	421.6	421.1	420.7	420.2	420.0	420.2	420.3	420.5	420.6	421.0	421.5
177.5°	422.0	421.6	421.2	420.8	420.8	420.8	420.8	420.8	420.9	421.3	421.7
180°	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1



TEST NUMBER: P331330-830
 CATALOG NUMBER: SA2XXDIP-C675D330U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1298.5	1303.9	1303.9	1304.7	1310.9	1310.0	1309.7
5°	1381.9	1390.1	1391.0	1399.7	1405.4	1403.5	1398.3
7.5°	1460.5	1475.7	1487.2	1493.6	1501.3	1506.0	1503.9
10°	1522.9	1545.0	1558.5	1567.6	1578.7	1586.9	1583.9
12.5°	1579.4	1605.8	1624.3	1639.9	1641.4	1651.9	1644.7
15°	1667.6	1695.5	1698.5	1710.1	1719.2	1718.2	1718.6
17.5°	1696.9	1705.8	1707.6	1707.9	1708.0	1704.6	1697.3
20°	1686.4	1683.1	1674.9	1668.7	1657.6	1656.1	1646.5
22.5°	1637.2	1626.5	1606.0	1592.4	1575.2	1570.7	1568.0
25°	1540.2	1516.6	1483.8	1452.6	1444.0	1427.1	1431.9
27.5°	1407.1	1370.4	1334.9	1309.5	1286.5	1261.3	1268.5
30°	1313.5	1272.1	1222.1	1183.6	1159.1	1135.0	1130.7
32.5°	1201.9	1141.3	1085.4	1051.6	1014.0	998.8	982.1
35°	1009.5	950.3	894.9	847.3	819.9	798.7	779.5
37.5°	836.3	768.2	723.6	684.9	665.2	653.0	656.1
40°	729.0	669.3	636.6	607.2	588.9	580.2	582.2
42.5°	642.0	597.3	570.3	550.3	537.3	532.5	531.4
45°	543.2	518.2	496.1	484.6	478.2	473.0	469.6
47.5°	475.9	455.4	443.0	436.1	430.6	425.3	425.2
50°	435.5	422.0	413.3	406.0	401.8	397.9	401.2
52.5°	404.6	392.3	383.7	377.2	375.6	372.1	372.0
55°	358.9	349.3	343.1	337.2	334.4	332.4	330.1
57.5°	317.4	308.2	302.5	298.8	293.3	291.3	290.6
60°	287.8	280.5	274.8	269.9	267.5	263.6	263.6
62.5°	260.4	253.2	247.8	244.1	240.2	238.7	239.0
65°	220.8	215.1	209.8	205.9	205.0	202.1	203.0
67.5°	184.5	180.6	175.0	173.0	171.1	169.6	168.4
70°	160.2	156.4	153.4	150.6	149.1	149.1	149.1
72.5°	139.8	135.2	133.5	129.8	130.6	129.1	127.6
75°	108.3	105.4	104.0	102.5	100.1	100.1	100.1
77.5°	79.6	78.8	77.1	75.5	74.9	74.5	74.6
80°	61.5	61.1	60.1	60.1	59.2	58.7	57.8
82.5°	47.3	46.1	45.5	45.1	45.0	44.9	44.7
85°	27.0	26.0	26.0	26.5	25.5	25.5	26.0
87.5°	11.8	11.9	11.5	11.6	12.0	11.6	11.7
90°	7.1	7.4	7.7	7.8	7.9	8.1	8.2
92.5°	7.6	7.7	7.9	8.0	8.1	8.1	8.2
95°	12.9	13.2	13.4	13.3	13.2	13.2	13.1
97.5°	16.7	17.0	17.2	17.2	17.3	17.4	17.5
100°	19.0	19.5	19.9	20.0	20.2	20.3	20.5
102.5°	20.0	20.6	21.1	21.3	21.5	21.7	21.9
105°	20.8	21.6	22.1	22.3	22.6	22.9	23.2
107.5°	23.8	23.0	22.7	23.0	23.3	23.6	23.8
110°	33.0	26.2	23.0	23.3	23.6	23.8	24.0



TEST NUMBER: P331330-830

CATALOG NUMBER: SA2XXDIP-C675D330U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	60.4	35.7	23.5	23.7	23.8	24.1	24.3
115°	94.0	62.6	44.5	39.6	34.8	29.9	25.0
117.5°	185.5	178.0	166.2	150.1	134.1	118.1	102.1
120°	225.8	226.6	222.4	213.3	204.2	195.0	185.9
122.5°	239.2	239.7	239.0	237.3	235.5	233.8	232.0
125°	258.9	259.4	259.8	260.0	260.1	260.3	260.5
127.5°	277.4	278.1	278.4	278.5	278.5	278.5	278.6
130°	289.0	289.7	290.1	290.0	289.9	289.9	289.8
132.5°	300.1	300.8	301.0	301.0	301.0	300.9	300.8
135°	316.2	316.9	317.2	317.1	316.9	316.8	316.6
137.5°	331.1	331.8	332.0	331.8	331.6	331.3	331.1
140°	340.7	341.3	341.5	341.1	340.8	340.4	340.1
142.5°	349.6	350.2	350.2	349.9	349.6	349.2	348.8
145°	361.9	362.4	362.5	362.1	361.8	361.5	361.1
147.5°	372.7	373.1	373.1	372.8	372.5	372.2	371.9
150°	379.4	379.8	379.8	379.6	379.2	378.8	378.5
152.5°	385.5	385.9	385.9	385.4	385.0	384.6	384.1
155°	393.7	394.2	394.1	393.5	393.0	392.5	391.9
157.5°	400.8	401.1	401.1	400.6	400.1	399.5	399.1
160°	404.7	405.1	405.1	404.6	404.2	403.7	403.2
162.5°	408.5	409.0	409.0	408.3	407.7	407.2	406.6
165°	413.1	413.6	413.6	413.1	412.6	412.2	411.7
167.5°	417.0	417.5	417.4	416.8	416.1	415.6	414.9
170°	419.0	419.4	419.3	418.8	418.1	417.5	416.9
172.5°	420.4	420.8	420.8	420.2	419.6	419.0	418.4
175°	422.0	422.4	422.4	421.7	421.0	420.3	419.6
177.5°	422.1	422.4	422.4	421.9	421.4	420.9	420.5
180°	421.1	421.1	421.1	421.1	421.1	421.1	421.1

(END OF REPORT)