

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: P331675-940

Luminaire Tested: **SA2XXRDIP-C675D330U940-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331675-940
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: SA2XXRDIP-C675D330U940-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 330 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3432.6 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

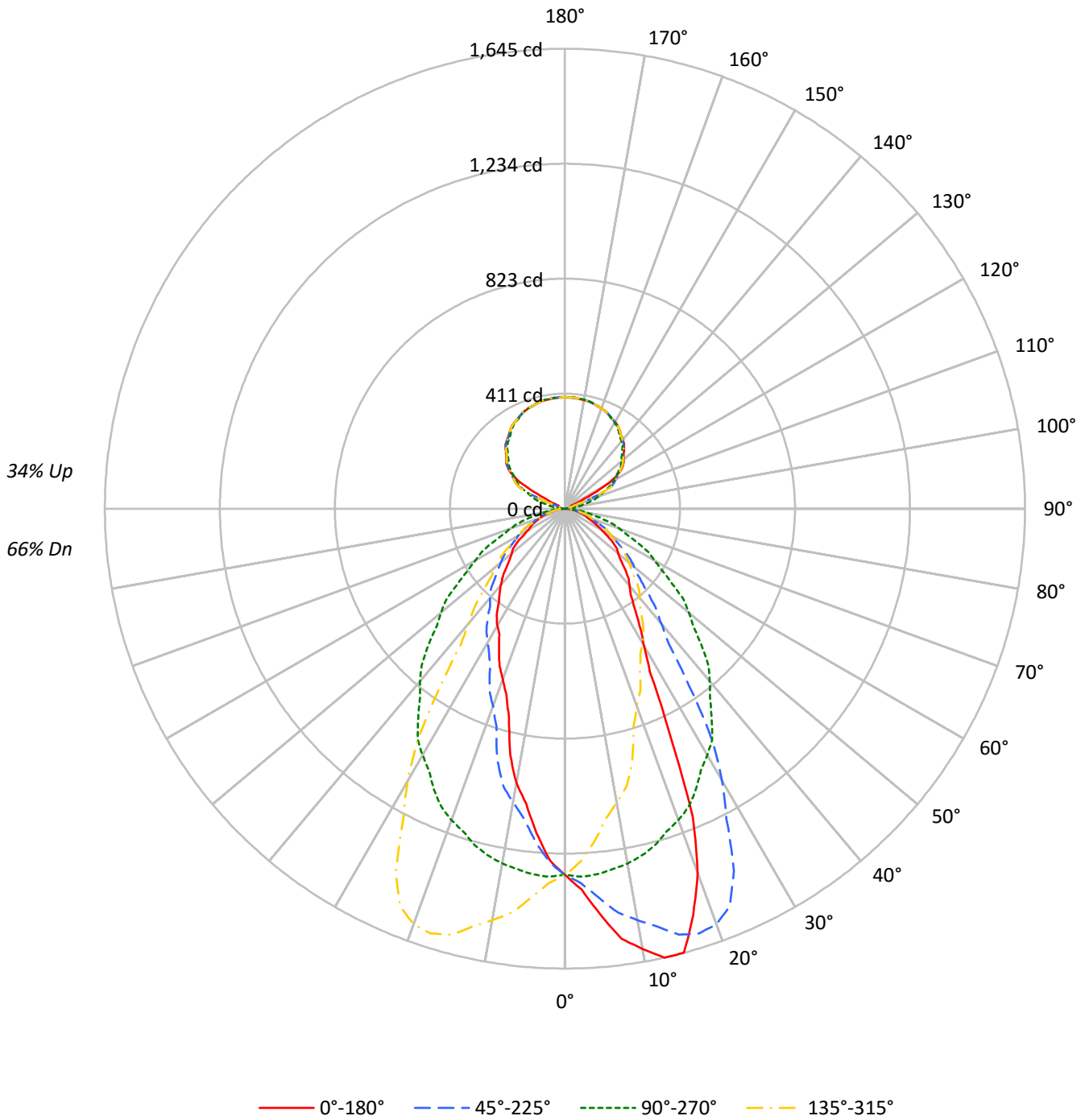
Input Watts (W): 35
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66		
1	102	98	95	91	96	93	90	87	82	80	78	73	71	70	64	63	62	58		
2	94	87	81	77	88	82	77	73	74	70	66	65	62	60	58	56	54	50		
3	87	78	71	65	81	74	67	62	66	61	57	59	55	52	52	49	47	44		
4	80	70	62	56	75	66	59	54	59	54	50	53	49	46	48	44	42	39		
5	74	63	55	49	70	60	53	47	54	48	44	49	44	40	43	40	37	34		
6	69	57	49	44	65	54	47	42	49	43	39	44	40	36	40	36	33	31		
7	64	52	44	39	60	50	43	38	45	39	35	41	36	33	37	33	30	28		
8	60	48	40	35	56	46	39	34	42	36	32	38	33	30	34	30	28	25		
9	56	44	37	32	53	42	35	31	38	33	29	35	30	27	32	28	25	23		
10	52	41	34	29	50	39	32	28	36	30	26	33	28	25	30	26	23	21		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	21151	21151	21151	21151
5°	23622	21284	18870	21284
10°	26209	21135	16357	21135
15°	27497	20824	12889	20824
20°	23838	20366	11153	20366
25°	15634	19737	9957	19737
30°	10524	18975	9012	18975
35°	8523	18015	8129	18015
40°	7579	16971	7522	16971
45°	6859	15746	6715	15746
50°	6242	14531	6219	14531
55°	5869	13185	5790	13185
60°	4908	11951	4850	11951
65°	4138	10850	4695	10850
70°	3829	9692	4428	9692
75°	3575	8434	4086	8434
80°	3301	6936	3636	6936
85°	3038	5483	3205	5483



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.2	3.6
10°-20°	346.0	10.1
20°-30°	445.9	13.0
30°-40°	423.7	12.3
40°-50°	363.0	10.6
50°-60°	276.4	8.1
60°-70°	174.7	5.1
70°-80°	87.3	2.5
80°-90°	23.7	0.7
90°-100°	13.3	0.4
100°-110°	48.7	1.4
110°-120°	130.3	3.8
120°-130°	215.1	6.3
130°-140°	228.7	6.7
140°-150°	212.6	6.2
150°-160°	170.9	5.0
160°-170°	110.1	3.2
170°-180°	37.9	1.1
0°-30°	916.1	26.7
0°-40°	1339.8	39.0
0°-60°	1979.2	57.7
0°-90°	2264.9	66.0
90°-120°	192.3	5.6
90°-150°	848.7	24.7
90°-180°	1168.0	34.0
0°-180°	3432.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1310	1310	1310	1310	1310	
5°	1458	1313	1164	1313	1458	144
15°	1645	1246	771	1246	1645	444
25°	878	1108	559	1108	878	416
35°	432	914	412	914	432	277
45°	300	690	294	690	300	232
55°	208	468	206	468	208	183
65°	108	284	123	284	108	110
75°	57	135	66	135	57	61
85°	16	30	17	30	16	18
90°	8	0	8	0	8	4
95°	12	19	12	19	12	12
105°	22	88	22	88	22	23
115°	24	166	24	166	24	59
125°	246	234	246	234	246	213
135°	300	290	300	290	300	231
145°	342	336	342	336	342	214
155°	371	370	371	370	371	171
165°	390	390	390	390	390	110
175°	397	399	397	399	397	38
180°	398	398	398	398	398	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0
2.5°	1363.2	1364.2	1365.4	1362.8	1362.8	1360.6	1355.8	1352.3	1342.0	1340.6	1340.6
5°	1457.5	1456.5	1458.4	1452.5	1444.3	1442.4	1433.8	1422.5	1410.6	1397.4	1394.6
7.5°	1551.2	1549.9	1546.2	1545.2	1538.9	1525.2	1511.3	1496.5	1476.8	1457.6	1448.0
10°	1598.6	1613.6	1604.5	1588.6	1591.8	1570.4	1559.0	1539.4	1523.0	1494.3	1488.0
12.5°	1645.2	1651.1	1648.2	1639.1	1635.0	1620.2	1604.9	1587.9	1557.6	1531.9	1509.5
15°	1645.0	1653.7	1655.9	1653.2	1655.5	1654.6	1646.4	1632.3	1605.9	1577.6	1553.1
17.5°	1523.6	1529.6	1544.5	1554.6	1567.4	1594.3	1607.6	1612.7	1608.8	1592.8	1575.5
20°	1387.4	1377.3	1419.2	1440.6	1458.8	1504.3	1543.5	1558.5	1582.6	1582.2	1577.6
22.5°	1194.4	1196.8	1236.4	1261.9	1315.0	1360.5	1405.2	1461.7	1508.3	1539.2	1557.3
25°	877.6	894.9	934.5	969.1	1028.2	1112.9	1189.8	1279.1	1363.2	1429.7	1493.0
27.5°	659.1	660.4	691.8	723.7	758.8	828.2	925.1	1031.6	1151.6	1250.7	1364.7
30°	564.5	561.7	574.9	594.5	624.5	678.2	751.0	855.8	975.4	1124.7	1257.7
32.5°	497.4	497.6	507.6	522.0	547.0	583.2	633.0	718.1	831.3	978.0	1133.8
35°	432.4	431.9	439.3	449.7	460.2	483.4	517.5	562.1	640.0	776.9	936.3
37.5°	385.8	387.8	391.4	397.9	409.5	422.4	442.9	472.9	528.2	609.3	743.2
40°	359.6	360.5	365.5	371.0	377.8	387.8	404.7	428.7	469.3	534.0	631.8
42.5°	335.6	336.4	340.0	345.1	350.4	360.5	374.4	395.3	428.1	478.6	559.3
45°	300.4	300.4	303.6	305.9	311.8	320.9	332.3	349.6	372.4	409.7	463.3
47.5°	267.4	267.5	269.7	273.6	277.3	284.4	295.6	309.7	326.3	355.2	401.0
50°	248.5	249.0	250.3	253.5	255.8	262.2	270.8	283.1	300.4	322.7	361.0
52.5°	233.3	232.9	234.7	236.0	237.6	242.2	248.6	259.5	274.9	294.4	326.0
55°	208.5	206.6	209.4	211.7	213.0	214.8	218.5	225.3	238.5	254.9	278.6
57.5°	177.5	176.8	178.7	180.8	185.1	190.0	193.1	197.4	204.3	216.1	239.5
60°	152.0	152.0	156.1	157.5	162.5	168.9	175.2	178.9	185.7	193.4	210.7
62.5°	129.5	129.8	131.7	133.1	135.9	143.7	152.7	160.7	167.1	174.5	186.0
65°	108.3	109.2	109.2	110.1	112.0	113.8	117.4	123.8	135.2	145.6	154.3
67.5°	91.9	92.2	92.5	93.4	93.9	95.9	97.3	100.1	102.8	112.7	123.4
70°	81.1	82.4	81.9	82.8	83.3	84.2	86.1	87.4	91.5	93.8	100.1
72.5°	70.8	71.8	71.7	72.3	73.5	73.7	75.1	76.5	79.1	81.1	84.4
75°	57.3	56.9	57.3	58.2	58.7	59.2	59.2	61.0	62.3	64.2	66.4
77.5°	44.2	44.7	44.6	44.7	44.8	45.6	45.5	46.4	47.7	48.6	49.7
80°	35.5	35.9	35.5	35.9	36.4	36.8	36.4	36.8	38.3	39.1	39.1
82.5°	27.5	27.6	27.8	27.9	28.0	28.1	28.8	28.9	29.9	29.7	30.1
85°	16.4	16.0	16.0	16.0	16.4	16.9	16.4	16.4	16.9	16.9	16.9
87.5°	7.4	7.8	7.7	7.7	7.7	7.6	7.6	7.8	7.4	7.7	7.2
90°	7.8	7.7	7.5	7.4	7.3	7.0	6.7	6.4	6.1	5.8	5.3
92.5°	7.8	7.7	7.7	7.6	7.5	7.3	7.2	7.0	6.9	6.7	6.4
95°	12.4	12.5	12.5	12.6	12.7	12.5	12.2	11.9	11.6	11.2	10.8
97.5°	16.6	16.5	16.4	16.3	16.2	16.1	15.8	15.6	15.3	15.1	14.0
100°	19.4	19.2	19.1	18.9	18.8	18.5	18.0	17.5	16.9	16.4	15.3
102.5°	20.7	20.5	20.3	20.2	20.0	19.5	18.9	18.2	17.6	16.9	26.0
105°	21.9	21.7	21.4	21.1	20.9	20.4	19.7	19.0	18.3	17.6	35.0
107.5°	22.6	22.3	22.0	21.8	21.5	21.8	22.5	23.2	23.9	24.6	45.6
110°	22.7	22.6	22.3	22.0	21.8	24.8	31.2	37.6	44.1	50.5	68.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	23.0	22.8	22.6	22.4	22.2	33.8	57.2	80.5	103.9	127.2	131.8
115°	23.6	28.3	32.9	37.5	42.1	59.2	88.9	118.6	148.2	177.9	176.3
117.5°	96.6	111.7	126.9	142.0	157.2	168.4	175.5	182.7	189.8	197.1	195.9
120°	175.8	184.5	193.1	201.8	210.4	214.4	213.7	212.9	212.1	211.3	210.2
122.5°	219.5	221.1	222.8	224.5	226.1	226.8	226.3	225.9	225.4	225.0	223.7
125°	246.5	246.3	246.1	245.9	245.8	245.4	245.0	244.5	244.1	243.6	242.4
127.5°	263.6	263.5	263.5	263.5	263.4	263.1	262.4	261.8	261.1	260.5	259.6
130°	274.2	274.3	274.3	274.4	274.5	274.1	273.4	272.7	272.0	271.3	270.6
132.5°	284.5	284.6	284.7	284.7	284.8	284.5	283.9	283.4	282.8	282.1	281.4
135°	299.5	299.7	299.8	300.0	300.1	299.8	299.2	298.5	297.9	297.3	296.7
137.5°	313.3	313.4	313.7	313.9	314.1	313.9	313.3	312.6	312.0	311.4	310.8
140°	321.7	322.1	322.4	322.7	323.1	322.9	322.4	321.7	321.2	320.6	319.9
142.5°	330.0	330.4	330.7	331.0	331.4	331.3	330.7	330.2	329.7	329.1	328.3
145°	341.6	342.0	342.3	342.6	343.0	342.9	342.4	342.0	341.5	341.1	340.0
147.5°	351.9	352.1	352.4	352.7	352.9	352.9	352.6	352.2	351.9	351.6	350.5
150°	358.1	358.4	358.7	359.1	359.4	359.4	358.9	358.6	358.2	357.8	356.8
152.5°	363.4	363.8	364.3	364.6	365.1	365.1	364.7	364.4	363.9	363.6	362.6
155°	370.8	371.3	371.8	372.3	372.8	372.9	372.5	372.1	371.8	371.3	370.6
157.5°	377.6	378.0	378.5	379.0	379.5	379.5	379.2	378.7	378.3	377.8	377.3
160°	381.5	381.9	382.4	382.8	383.3	383.3	382.9	382.5	382.1	381.7	381.4
162.5°	384.7	385.2	385.8	386.3	386.9	386.9	386.5	386.0	385.7	385.2	384.9
165°	389.5	389.9	390.4	390.8	391.3	391.3	390.8	390.4	389.9	389.5	389.3
167.5°	392.5	393.2	393.7	394.3	394.8	394.9	394.5	394.0	393.6	393.2	393.0
170°	394.4	395.0	395.6	396.2	396.7	396.8	396.4	395.9	395.5	395.0	394.8
172.5°	395.8	396.4	397.0	397.5	398.1	398.1	397.7	397.3	396.8	396.4	396.3
175°	397.0	397.6	398.3	399.0	399.6	399.7	399.2	398.8	398.3	397.9	397.8
177.5°	397.8	398.2	398.7	399.1	399.6	399.7	399.3	399.0	398.6	398.2	398.1
180°	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0
2.5°	1341.3	1338.4	1335.9	1329.3	1326.1	1318.8	1317.7	1317.3	1307.8	1298.7	1296.2
5°	1387.4	1380.1	1369.1	1356.4	1343.2	1329.5	1320.4	1313.2	1294.9	1277.6	1267.7
7.5°	1433.8	1418.2	1399.3	1375.2	1355.0	1332.5	1315.7	1300.7	1274.9	1250.1	1233.4
10°	1468.4	1442.9	1417.9	1384.6	1358.7	1333.2	1309.6	1289.1	1259.9	1227.2	1203.9
12.5°	1489.9	1461.9	1427.4	1394.8	1361.3	1328.8	1297.2	1270.9	1236.6	1202.7	1175.2
15°	1518.9	1488.9	1447.0	1400.6	1357.4	1315.0	1278.6	1245.8	1201.2	1160.7	1127.0
17.5°	1542.7	1501.4	1456.3	1402.7	1352.6	1298.8	1251.9	1210.1	1160.4	1111.5	1071.8
20°	1550.3	1509.4	1457.5	1403.7	1344.6	1281.3	1230.8	1185.3	1132.0	1078.8	1033.2
22.5°	1545.6	1513.8	1456.0	1391.8	1331.1	1264.9	1207.8	1155.0	1096.0	1041.6	988.8
25°	1513.5	1502.5	1448.0	1377.8	1308.7	1231.7	1165.7	1107.9	1040.5	982.3	924.9
27.5°	1438.5	1462.1	1428.3	1353.6	1276.7	1194.2	1120.0	1054.2	984.3	918.7	861.6
30°	1366.5	1420.6	1406.0	1336.9	1250.8	1169.8	1086.5	1017.8	943.2	875.7	819.3
32.5°	1267.7	1357.3	1371.5	1313.6	1224.6	1135.6	1048.3	979.9	902.0	831.0	776.0
35°	1110.6	1244.5	1305.9	1269.0	1179.8	1083.8	993.6	914.0	835.7	765.6	711.0
37.5°	923.2	1105.5	1207.8	1210.5	1128.5	1028.7	930.6	851.5	771.3	702.5	643.5
40°	801.6	999.1	1132.5	1162.1	1092.9	985.0	885.7	805.2	726.9	659.5	591.7
42.5°	692.3	889.1	1053.1	1104.6	1049.5	942.4	842.8	758.6	682.5	618.8	549.5
45°	559.9	731.9	912.7	1004.6	974.1	874.9	769.7	689.6	618.1	563.0	496.6
47.5°	472.3	593.5	768.4	892.8	892.2	801.6	698.2	621.5	555.3	503.6	449.8
50°	422.4	528.0	675.9	817.1	828.8	752.9	654.5	578.5	516.7	462.4	419.2
52.5°	377.6	464.7	597.6	732.9	766.6	700.8	605.4	535.2	475.1	425.3	388.3
55°	319.1	386.5	487.5	614.0	665.0	618.6	534.0	468.4	419.6	377.8	345.9
57.5°	269.9	320.5	401.5	503.5	562.8	533.6	463.7	410.5	368.8	330.9	305.8
60°	239.0	280.4	349.1	434.3	499.8	479.3	419.6	370.1	334.6	301.8	278.1
62.5°	209.8	245.4	304.3	373.4	433.5	425.1	376.3	334.7	303.6	273.8	253.7
65°	168.9	194.8	240.8	295.0	343.2	347.3	312.3	284.0	256.3	232.6	214.8
67.5°	134.5	151.4	183.8	229.4	265.6	278.5	257.1	235.5	213.5	195.2	179.8
70°	113.3	127.0	150.7	187.5	220.8	234.4	222.1	205.3	186.2	171.1	157.9
72.5°	91.8	105.1	122.6	149.6	178.2	192.9	188.6	176.6	161.0	148.6	136.1
75°	69.2	73.3	85.2	103.3	125.6	138.4	141.6	135.2	122.9	113.3	106.0
77.5°	51.2	53.6	59.3	68.8	83.4	94.8	99.4	98.7	90.2	84.6	77.8
80°	40.9	42.4	45.0	49.1	60.1	71.4	74.6	74.6	68.8	66.4	59.7
82.5°	31.1	32.1	33.8	36.0	41.1	51.1	54.7	55.4	51.6	48.6	43.2
85°	17.7	17.3	18.2	19.5	20.5	23.2	28.7	29.6	28.7	25.1	23.6
87.5°	7.1	7.4	7.3	6.8	7.0	7.2	8.9	10.6	9.3	8.4	7.8
90°	4.7	4.2	3.7	3.1	2.4	1.7	1.0	0.3	1.0	1.7	2.4
92.5°	6.2	5.9	5.7	5.5	5.6	5.7	5.8	5.8	5.8	5.7	5.6
95°	10.3	9.9	9.5	10.3	12.4	14.5	16.6	18.7	16.6	14.5	12.4
97.5°	12.9	11.9	10.9	13.4	19.4	25.2	31.2	37.2	31.2	25.2	19.4
100°	14.3	13.2	12.0	16.0	24.7	33.4	42.3	51.0	42.3	33.4	24.7
102.5°	35.1	44.2	53.3	58.9	60.7	62.5	64.4	66.3	64.4	62.5	60.7
105°	52.6	70.1	87.6	95.3	93.5	91.5	89.5	87.7	89.5	91.5	93.5
107.5°	66.6	87.6	108.5	118.2	116.7	115.1	113.6	112.0	113.6	115.1	116.7
110°	87.5	106.0	124.5	133.1	131.8	130.5	129.0	127.7	129.0	130.5	131.8



TEST NUMBER: P331675-940

CATALOG NUMBER: SA2XXRDIP-C675D330U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	136.4	141.0	145.5	147.2	146.1	144.9	143.7	142.5	143.7	144.9	146.1
115°	174.7	173.1	171.5	170.1	169.1	168.0	166.8	165.8	166.8	168.0	169.1
117.5°	194.8	193.8	192.6	191.5	190.3	189.0	187.8	186.6	187.8	189.0	190.3
120°	209.0	207.9	206.7	205.6	204.7	203.8	202.8	201.8	202.8	203.8	204.7
122.5°	222.4	221.1	219.9	218.8	217.8	216.8	215.8	214.7	215.8	216.8	217.8
125°	241.2	240.0	238.8	237.7	236.9	236.0	235.2	234.4	235.2	236.0	236.9
127.5°	258.7	257.7	256.8	255.9	255.0	254.0	253.2	252.2	253.2	254.0	255.0
130°	269.9	269.2	268.5	267.6	266.6	265.6	264.6	263.5	264.6	265.6	266.6
132.5°	280.7	280.0	279.3	278.6	277.7	276.8	275.9	275.1	275.9	276.8	277.7
135°	296.1	295.5	295.0	294.2	293.1	292.1	291.1	290.1	291.1	292.1	293.1
137.5°	310.0	309.4	308.8	308.1	307.4	306.7	305.9	305.2	305.9	306.7	307.4
140°	319.2	318.5	317.8	317.2	316.6	316.1	315.7	315.1	315.7	316.1	316.6
142.5°	327.5	326.7	325.9	325.3	324.9	324.3	323.9	323.4	323.9	324.3	324.9
145°	338.9	337.8	336.7	336.2	336.3	336.4	336.4	336.4	336.4	336.4	336.3
147.5°	349.5	348.3	347.2	346.9	347.1	347.3	347.6	347.9	347.6	347.3	347.1
150°	355.8	354.7	353.7	353.4	353.8	354.3	354.7	355.2	354.7	354.3	353.8
152.5°	361.6	360.6	359.6	359.4	359.9	360.4	361.0	361.4	361.0	360.4	359.9
155°	369.8	369.1	368.3	368.2	368.7	369.3	369.9	370.5	369.9	369.3	368.7
157.5°	376.7	376.2	375.7	375.6	376.1	376.6	377.1	377.6	377.1	376.6	376.1
160°	380.9	380.6	380.2	380.2	380.6	380.9	381.4	381.7	381.4	380.9	380.6
162.5°	384.5	384.1	383.9	383.9	384.2	384.7	385.0	385.4	385.0	384.7	384.2
165°	389.1	389.0	388.8	388.9	389.2	389.6	390.0	390.4	390.0	389.6	389.2
167.5°	392.8	392.6	392.4	392.5	392.9	393.3	393.7	394.0	393.7	393.3	392.9
170°	394.8	394.6	394.5	394.6	395.0	395.4	395.7	396.2	395.7	395.4	395.0
172.5°	396.1	396.0	395.8	396.0	396.4	396.7	397.2	397.5	397.2	396.7	396.4
175°	397.6	397.5	397.3	397.5	398.0	398.4	398.9	399.3	398.9	398.4	398.0
177.5°	398.1	398.1	398.1	398.1	398.5	398.9	399.2	399.6	399.2	398.9	398.5
180°	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4



TEST NUMBER: P331675-940

CATALOG NUMBER: SA2XXRDIP-C675D330U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0
2.5°	1291.5	1288.9	1284.2	1276.8	1272.5	1264.8	1259.7	1262.7	1263.4	1262.7	1261.9
5°	1256.8	1247.1	1233.9	1221.2	1209.4	1196.7	1189.4	1186.2	1179.8	1176.2	1174.4
7.5°	1214.8	1198.3	1179.6	1157.4	1138.5	1118.8	1108.8	1103.7	1090.7	1083.6	1077.4
10°	1183.5	1157.5	1138.9	1109.7	1092.0	1066.0	1048.3	1048.7	1031.0	1020.9	1013.7
12.5°	1148.9	1120.3	1089.3	1063.1	1038.4	1017.6	996.2	987.6	968.7	959.0	939.4
15°	1091.5	1058.3	1025.6	990.0	965.0	932.6	901.7	863.9	833.4	807.0	799.8
17.5°	1028.9	987.7	954.8	913.2	870.3	815.9	780.1	758.1	739.8	725.9	715.4
20°	985.9	944.1	909.0	846.1	788.4	751.5	725.1	708.3	689.1	674.1	665.9
22.5°	940.8	897.1	849.3	779.2	734.1	704.5	681.0	661.6	648.7	636.9	629.5
25°	876.6	828.8	750.1	701.9	665.5	634.5	618.1	606.3	592.6	576.7	569.4
27.5°	809.0	732.9	676.4	640.5	605.7	585.6	570.9	553.2	541.0	533.9	526.3
30°	758.3	682.3	638.2	599.1	574.4	552.1	534.8	524.9	513.0	500.7	495.7
32.5°	701.9	641.1	598.9	566.2	541.3	522.3	508.6	492.4	483.8	476.3	465.8
35°	631.8	585.9	547.2	520.8	497.0	481.6	465.7	456.1	440.6	434.3	430.2
37.5°	572.4	532.5	503.7	475.8	457.1	440.0	430.3	415.0	408.3	399.5	390.8
40°	539.0	499.8	472.0	449.2	428.3	415.5	403.3	391.0	380.9	376.9	366.4
42.5°	504.7	472.9	445.1	420.1	406.1	392.6	377.1	368.1	357.7	351.1	344.6
45°	457.4	429.3	405.6	385.0	369.6	355.5	345.4	330.5	324.6	311.3	305.9
47.5°	416.0	389.7	367.1	347.7	332.5	323.3	308.7	296.9	287.5	279.4	272.4
50°	386.5	364.6	342.8	325.5	311.8	298.6	283.6	277.7	263.1	259.0	254.9
52.5°	359.5	338.8	318.7	301.8	288.1	275.3	262.1	254.3	244.5	240.4	237.5
55°	321.8	301.8	282.7	267.6	254.0	240.8	232.6	223.0	218.5	215.3	211.7
57.5°	283.9	265.9	251.3	236.0	222.3	211.9	202.3	196.6	191.9	187.7	183.3
60°	259.9	242.6	229.4	215.3	201.2	192.5	185.3	178.4	173.0	166.6	164.8
62.5°	234.4	219.3	207.2	193.4	181.2	173.3	166.3	159.9	153.3	144.0	141.4
65°	199.4	187.5	174.8	163.5	152.5	144.7	134.7	127.4	124.8	123.8	123.3
67.5°	167.7	156.5	145.5	133.9	123.9	116.8	111.7	110.6	108.7	108.2	106.9
70°	146.6	136.1	125.2	114.2	104.7	103.3	101.5	99.7	97.4	96.5	95.6
72.5°	127.6	116.8	105.8	97.1	93.0	91.3	89.5	87.7	86.1	85.2	84.6
75°	97.8	87.8	80.6	77.4	75.1	73.7	71.0	69.6	68.8	67.3	66.9
77.5°	70.4	64.8	61.4	59.5	57.1	55.6	54.0	52.7	51.7	51.5	50.7
80°	53.7	51.0	48.7	46.0	45.0	43.2	42.8	41.5	41.9	40.5	40.5
82.5°	41.7	38.3	36.3	35.0	34.2	32.7	32.2	31.6	31.7	30.7	30.7
85°	21.4	20.5	19.5	18.6	18.6	17.3	17.7	17.3	17.3	16.4	16.0
87.5°	7.6	7.3	6.7	6.8	6.9	6.6	6.7	6.4	6.4	6.5	6.2
90°	3.1	3.7	4.2	4.7	5.3	5.8	6.1	6.4	6.7	7.0	7.3
92.5°	5.5	5.7	5.9	6.2	6.4	6.7	6.9	7.0	7.2	7.3	7.5
95°	10.3	9.5	9.9	10.3	10.8	11.2	11.6	11.9	12.2	12.5	12.7
97.5°	13.4	10.9	11.9	12.9	14.0	15.1	15.3	15.6	15.8	16.1	16.2
100°	16.0	12.0	13.2	14.3	15.3	16.4	16.9	17.5	18.0	18.5	18.8
102.5°	58.9	53.3	44.2	35.1	26.0	16.9	17.6	18.2	18.9	19.5	20.0
105°	95.3	87.6	70.1	52.6	35.0	17.6	18.3	19.0	19.7	20.4	20.9
107.5°	118.2	108.5	87.6	66.6	45.6	24.6	23.9	23.2	22.5	21.8	21.5
110°	133.1	124.5	106.0	87.5	68.9	50.5	44.1	37.6	31.2	24.8	21.8



TEST NUMBER: P331675-940

CATALOG NUMBER: SA2XXRDIP-C675D330U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	147.2	145.5	141.0	136.4	131.8	127.2	103.9	80.5	57.2	33.8	22.2
115°	170.1	171.5	173.1	174.7	176.3	177.9	148.2	118.6	88.9	59.2	42.1
117.5°	191.5	192.6	193.8	194.8	195.9	197.1	189.8	182.7	175.5	168.4	157.2
120°	205.6	206.7	207.9	209.0	210.2	211.3	212.1	212.9	213.7	214.4	210.4
122.5°	218.8	219.9	221.1	222.4	223.7	225.0	225.4	225.9	226.3	226.8	226.1
125°	237.7	238.8	240.0	241.2	242.4	243.6	244.1	244.5	245.0	245.4	245.8
127.5°	255.9	256.8	257.7	258.7	259.6	260.5	261.1	261.8	262.4	263.1	263.4
130°	267.6	268.5	269.2	269.9	270.6	271.3	272.0	272.7	273.4	274.1	274.5
132.5°	278.6	279.3	280.0	280.7	281.4	282.1	282.8	283.4	283.9	284.5	284.8
135°	294.2	295.0	295.5	296.1	296.7	297.3	297.9	298.5	299.2	299.8	300.1
137.5°	308.1	308.8	309.4	310.0	310.8	311.4	312.0	312.6	313.3	313.9	314.1
140°	317.2	317.8	318.5	319.2	319.9	320.6	321.2	321.7	322.4	322.9	323.1
142.5°	325.3	325.9	326.7	327.5	328.3	329.1	329.7	330.2	330.7	331.3	331.4
145°	336.2	336.7	337.8	338.9	340.0	341.1	341.5	342.0	342.4	342.9	343.0
147.5°	346.9	347.2	348.3	349.5	350.5	351.6	351.9	352.2	352.6	352.9	352.9
150°	353.4	353.7	354.7	355.8	356.8	357.8	358.2	358.6	358.9	359.4	359.4
152.5°	359.4	359.6	360.6	361.6	362.6	363.6	363.9	364.4	364.7	365.1	365.1
155°	368.2	368.3	369.1	369.8	370.6	371.3	371.8	372.1	372.5	372.9	372.8
157.5°	375.6	375.7	376.2	376.7	377.3	377.8	378.3	378.7	379.2	379.5	379.5
160°	380.2	380.2	380.6	380.9	381.4	381.7	382.1	382.5	382.9	383.3	383.3
162.5°	383.9	383.9	384.1	384.5	384.9	385.2	385.7	386.0	386.5	386.9	386.9
165°	388.9	388.8	389.0	389.1	389.3	389.5	389.9	390.4	390.8	391.3	391.3
167.5°	392.5	392.4	392.6	392.8	393.0	393.2	393.6	394.0	394.5	394.9	394.8
170°	394.6	394.5	394.6	394.8	394.8	395.0	395.5	395.9	396.4	396.8	396.7
172.5°	396.0	395.8	396.0	396.1	396.3	396.4	396.8	397.3	397.7	398.1	398.1
175°	397.5	397.3	397.5	397.6	397.8	397.9	398.3	398.8	399.2	399.7	399.6
177.5°	398.1	398.1	398.1	398.1	398.1	398.2	398.6	399.0	399.3	399.7	399.6
180°	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4



TEST NUMBER: P331675-940

CATALOG NUMBER: SA2XXRDIP-C675D330U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0
2.5°	1257.9	1258.6	1257.6	1258.3	1257.6	1258.6	1257.9	1261.9	1262.7	1263.4	1262.7
5°	1172.1	1166.6	1165.7	1164.3	1165.7	1166.6	1172.1	1174.4	1176.2	1179.8	1186.2
7.5°	1069.6	1068.7	1066.5	1063.3	1066.5	1068.7	1069.6	1077.4	1083.6	1090.7	1103.7
10°	1003.6	1001.4	1000.9	997.7	1000.9	1001.4	1003.6	1013.7	1020.9	1031.0	1048.7
12.5°	926.5	911.8	910.3	902.3	910.3	911.8	926.5	939.4	959.0	968.7	987.6
15°	788.8	786.1	776.9	771.1	776.9	786.1	788.8	799.8	807.0	833.4	863.9
17.5°	710.2	701.2	698.4	697.1	698.4	701.2	710.2	715.4	725.9	739.8	758.1
20°	659.5	651.4	650.0	649.1	650.0	651.4	659.5	665.9	674.1	689.1	708.3
22.5°	624.6	616.0	612.5	609.8	612.5	616.0	624.6	629.5	636.9	648.7	661.6
25°	564.9	561.7	559.9	558.9	559.9	561.7	564.9	569.4	576.7	592.6	606.3
27.5°	518.2	511.1	509.8	507.5	509.8	511.1	518.2	526.3	533.9	541.0	553.2
30°	491.6	489.3	486.2	483.4	486.2	489.3	491.6	495.7	500.7	513.0	524.9
32.5°	460.3	458.3	455.6	454.2	455.6	458.3	460.3	465.8	476.3	483.8	492.4
35°	425.6	419.2	416.5	412.4	416.5	419.2	425.6	430.2	434.3	440.6	456.1
37.5°	388.9	385.6	381.7	383.1	381.7	385.6	388.9	390.8	399.5	408.3	415.0
40°	360.5	358.2	357.3	356.9	357.3	358.2	360.5	366.4	376.9	380.9	391.0
42.5°	338.0	331.6	329.3	329.2	329.3	331.6	338.0	344.6	351.1	357.7	368.1
45°	303.6	297.7	293.6	294.1	293.6	297.7	303.6	305.9	311.3	324.6	330.5
47.5°	268.5	268.3	265.7	266.5	265.7	268.3	268.5	272.4	279.4	287.5	296.9
50°	251.7	249.0	247.2	247.6	247.2	249.0	251.7	254.9	259.0	263.1	277.7
52.5°	235.7	233.4	231.8	233.8	231.8	233.4	235.7	237.5	240.4	244.5	254.3
55°	209.4	206.6	206.2	205.7	206.2	206.6	209.4	211.7	215.3	218.5	223.0
57.5°	179.9	178.2	175.4	174.2	175.4	178.2	179.9	183.3	187.7	191.9	196.6
60°	158.8	155.2	150.7	150.2	150.7	155.2	158.8	164.8	166.6	173.0	178.4
62.5°	139.6	138.8	137.9	137.9	137.9	138.8	139.6	141.4	144.0	153.3	159.9
65°	122.4	122.0	122.4	122.9	122.4	122.0	122.4	123.3	123.8	124.8	127.4
67.5°	106.7	105.8	105.0	105.4	105.0	105.8	106.7	106.9	108.2	108.7	110.6
70°	94.7	94.3	93.8	93.8	93.8	94.3	94.7	95.6	96.5	97.4	99.7
72.5°	83.0	82.9	82.5	82.1	82.5	82.9	83.0	84.6	85.2	86.1	87.7
75°	66.4	65.5	65.5	65.5	65.5	65.5	66.4	66.9	67.3	68.8	69.6
77.5°	50.6	50.2	49.7	49.3	49.7	50.2	50.6	50.7	51.5	51.7	52.7
80°	40.0	39.6	39.1	39.1	39.1	39.6	40.0	40.5	40.5	41.9	41.5
82.5°	30.6	30.1	30.1	29.7	30.1	30.1	30.6	30.7	30.7	31.7	31.6
85°	16.4	16.9	16.4	17.3	16.4	16.9	16.4	16.0	16.4	17.3	17.3
87.5°	6.2	5.9	6.2	5.9	6.2	5.9	6.2	6.2	6.5	6.4	6.4
90°	7.4	7.5	7.7	7.8	7.7	7.5	7.4	7.3	7.0	6.7	6.4
92.5°	7.6	7.7	7.7	7.8	7.7	7.7	7.6	7.5	7.3	7.2	7.0
95°	12.6	12.5	12.5	12.4	12.5	12.5	12.6	12.7	12.5	12.2	11.9
97.5°	16.3	16.4	16.5	16.6	16.5	16.4	16.3	16.2	16.1	15.8	15.6
100°	18.9	19.1	19.2	19.4	19.2	19.1	18.9	18.8	18.5	18.0	17.5
102.5°	20.2	20.3	20.5	20.7	20.5	20.3	20.2	20.0	19.5	18.9	18.2
105°	21.1	21.4	21.7	21.9	21.7	21.4	21.1	20.9	20.4	19.7	19.0
107.5°	21.8	22.0	22.3	22.6	22.3	22.0	21.8	21.5	21.8	22.5	23.2
110°	22.0	22.3	22.6	22.7	22.6	22.3	22.0	21.8	24.8	31.2	37.6



TEST NUMBER: P331675-940

CATALOG NUMBER: SA2XXRDIP-C675D330U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	22.4	22.6	22.8	23.0	22.8	22.6	22.4	22.2	33.8	57.2	80.5
115°	37.5	32.9	28.3	23.6	28.3	32.9	37.5	42.1	59.2	88.9	118.6
117.5°	142.0	126.9	111.7	96.6	111.7	126.9	142.0	157.2	168.4	175.5	182.7
120°	201.8	193.1	184.5	175.8	184.5	193.1	201.8	210.4	214.4	213.7	212.9
122.5°	224.5	222.8	221.1	219.5	221.1	222.8	224.5	226.1	226.8	226.3	225.9
125°	245.9	246.1	246.3	246.5	246.3	246.1	245.9	245.8	245.4	245.0	244.5
127.5°	263.5	263.5	263.5	263.6	263.5	263.5	263.5	263.4	263.1	262.4	261.8
130°	274.4	274.3	274.3	274.2	274.3	274.3	274.4	274.5	274.1	273.4	272.7
132.5°	284.7	284.7	284.6	284.5	284.6	284.7	284.7	284.8	284.5	283.9	283.4
135°	300.0	299.8	299.7	299.5	299.7	299.8	300.0	300.1	299.8	299.2	298.5
137.5°	313.9	313.7	313.4	313.3	313.4	313.7	313.9	314.1	313.9	313.3	312.6
140°	322.7	322.4	322.1	321.7	322.1	322.4	322.7	323.1	322.9	322.4	321.7
142.5°	331.0	330.7	330.4	330.0	330.4	330.7	331.0	331.4	331.3	330.7	330.2
145°	342.6	342.3	342.0	341.6	342.0	342.3	342.6	343.0	342.9	342.4	342.0
147.5°	352.7	352.4	352.1	351.9	352.1	352.4	352.7	352.9	352.9	352.6	352.2
150°	359.1	358.7	358.4	358.1	358.4	358.7	359.1	359.4	359.4	358.9	358.6
152.5°	364.6	364.3	363.8	363.4	363.8	364.3	364.6	365.1	365.1	364.7	364.4
155°	372.3	371.8	371.3	370.8	371.3	371.8	372.3	372.8	372.9	372.5	372.1
157.5°	379.0	378.5	378.0	377.6	378.0	378.5	379.0	379.5	379.5	379.2	378.7
160°	382.8	382.4	381.9	381.5	381.9	382.4	382.8	383.3	383.3	382.9	382.5
162.5°	386.3	385.8	385.2	384.7	385.2	385.8	386.3	386.9	386.9	386.5	386.0
165°	390.8	390.4	389.9	389.5	389.9	390.4	390.8	391.3	391.3	390.8	390.4
167.5°	394.3	393.7	393.2	392.5	393.2	393.7	394.3	394.8	394.9	394.5	394.0
170°	396.2	395.6	395.0	394.4	395.0	395.6	396.2	396.7	396.8	396.4	395.9
172.5°	397.5	397.0	396.4	395.8	396.4	397.0	397.5	398.1	398.1	397.7	397.3
175°	399.0	398.3	397.6	397.0	397.6	398.3	399.0	399.6	399.7	399.2	398.8
177.5°	399.1	398.7	398.2	397.8	398.2	398.7	399.1	399.6	399.7	399.3	399.0
180°	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4



TEST NUMBER: P331675-940

CATALOG NUMBER: SA2XXRDIP-C675D330U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0
2.5°	1259.7	1264.8	1272.5	1276.8	1284.2	1288.9	1291.5	1296.2	1298.7	1307.8	1317.3
5°	1189.4	1196.7	1209.4	1221.2	1233.9	1247.1	1256.8	1267.7	1277.6	1294.9	1313.2
7.5°	1108.8	1118.8	1138.5	1157.4	1179.6	1198.3	1214.8	1233.4	1250.1	1274.9	1300.7
10°	1048.3	1066.0	1092.0	1109.7	1138.9	1157.5	1183.5	1203.9	1227.2	1259.9	1289.1
12.5°	996.2	1017.6	1038.4	1063.1	1089.3	1120.3	1148.9	1175.2	1202.7	1236.6	1270.9
15°	901.7	932.6	965.0	990.0	1025.6	1058.3	1091.5	1127.0	1160.7	1201.2	1245.8
17.5°	780.1	815.9	870.3	913.2	954.8	987.7	1028.9	1071.8	1111.5	1160.4	1210.1
20°	725.1	751.5	788.4	846.1	909.0	944.1	985.9	1033.2	1078.8	1132.0	1185.3
22.5°	681.0	704.5	734.1	779.2	849.3	897.1	940.8	988.8	1041.6	1096.0	1155.0
25°	618.1	634.5	665.5	701.9	750.1	828.8	876.6	924.9	982.3	1040.5	1107.9
27.5°	570.9	585.6	605.7	640.5	676.4	732.9	809.0	861.6	918.7	984.3	1054.2
30°	534.8	552.1	574.4	599.1	638.2	682.3	758.3	819.3	875.7	943.2	1017.8
32.5°	508.6	522.3	541.3	566.2	598.9	641.1	701.9	776.0	831.0	902.0	979.9
35°	465.7	481.6	497.0	520.8	547.2	585.9	631.8	711.0	765.6	835.7	914.0
37.5°	430.3	440.0	457.1	475.8	503.7	532.5	572.4	643.5	702.5	771.3	851.5
40°	403.3	415.5	428.3	449.2	472.0	499.8	539.0	591.7	659.5	726.9	805.2
42.5°	377.1	392.6	406.1	420.1	445.1	472.9	504.7	549.5	618.8	682.5	758.6
45°	345.4	355.5	369.6	385.0	405.6	429.3	457.4	496.6	563.0	618.1	689.6
47.5°	308.7	323.3	332.5	347.7	367.1	389.7	416.0	449.8	503.6	555.3	621.5
50°	283.6	298.6	311.8	325.5	342.8	364.6	386.5	419.2	462.4	516.7	578.5
52.5°	262.1	275.3	288.1	301.8	318.7	338.8	359.5	388.3	425.3	475.1	535.2
55°	232.6	240.8	254.0	267.6	282.7	301.8	321.8	345.9	377.8	419.6	468.4
57.5°	202.3	211.9	222.3	236.0	251.3	265.9	283.9	305.8	330.9	368.8	410.5
60°	185.3	192.5	201.2	215.3	229.4	242.6	259.9	278.1	301.8	334.6	370.1
62.5°	166.3	173.3	181.2	193.4	207.2	219.3	234.4	253.7	273.8	303.6	334.7
65°	134.7	144.7	152.5	163.5	174.8	187.5	199.4	214.8	232.6	256.3	284.0
67.5°	111.7	116.8	123.9	133.9	145.5	156.5	167.7	179.8	195.2	213.5	235.5
70°	101.5	103.3	104.7	114.2	125.2	136.1	146.6	157.9	171.1	186.2	205.3
72.5°	89.5	91.3	93.0	97.1	105.8	116.8	127.6	136.1	148.6	161.0	176.6
75°	71.0	73.7	75.1	77.4	80.6	87.8	97.8	106.0	113.3	122.9	135.2
77.5°	54.0	55.6	57.1	59.5	61.4	64.8	70.4	77.8	84.6	90.2	98.7
80°	42.8	43.2	45.0	46.0	48.7	51.0	53.7	59.7	66.4	68.8	74.6
82.5°	32.2	32.7	34.2	35.0	36.3	38.3	41.7	43.2	48.6	51.6	55.4
85°	17.7	17.3	18.6	18.6	19.5	20.5	21.4	23.6	25.1	28.7	29.6
87.5°	6.7	6.6	6.9	6.8	6.7	7.3	7.6	7.8	8.4	9.3	10.6
90°	6.1	5.8	5.3	4.7	4.2	3.7	3.1	2.4	1.7	1.0	0.3
92.5°	6.9	6.7	6.4	6.2	5.9	5.7	5.5	5.6	5.7	5.8	5.8
95°	11.6	11.2	10.8	10.3	9.9	9.5	10.3	12.4	14.5	16.6	18.7
97.5°	15.3	15.1	14.0	12.9	11.9	10.9	13.4	19.4	25.2	31.2	37.2
100°	16.9	16.4	15.3	14.3	13.2	12.0	16.0	24.7	33.4	42.3	51.0
102.5°	17.6	16.9	26.0	35.1	44.2	53.3	58.9	60.7	62.5	64.4	66.3
105°	18.3	17.6	35.0	52.6	70.1	87.6	95.3	93.5	91.5	89.5	87.7
107.5°	23.9	24.6	45.6	66.6	87.6	108.5	118.2	116.7	115.1	113.6	112.0
110°	44.1	50.5	68.9	87.5	106.0	124.5	133.1	131.8	130.5	129.0	127.7



TEST NUMBER: P331675-940

CATALOG NUMBER: SA2XXRDIP-C675D330U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	103.9	127.2	131.8	136.4	141.0	145.5	147.2	146.1	144.9	143.7	142.5
115°	148.2	177.9	176.3	174.7	173.1	171.5	170.1	169.1	168.0	166.8	165.8
117.5°	189.8	197.1	195.9	194.8	193.8	192.6	191.5	190.3	189.0	187.8	186.6
120°	212.1	211.3	210.2	209.0	207.9	206.7	205.6	204.7	203.8	202.8	201.8
122.5°	225.4	225.0	223.7	222.4	221.1	219.9	218.8	217.8	216.8	215.8	214.7
125°	244.1	243.6	242.4	241.2	240.0	238.8	237.7	236.9	236.0	235.2	234.4
127.5°	261.1	260.5	259.6	258.7	257.7	256.8	255.9	255.0	254.0	253.2	252.2
130°	272.0	271.3	270.6	269.9	269.2	268.5	267.6	266.6	265.6	264.6	263.5
132.5°	282.8	282.1	281.4	280.7	280.0	279.3	278.6	277.7	276.8	275.9	275.1
135°	297.9	297.3	296.7	296.1	295.5	295.0	294.2	293.1	292.1	291.1	290.1
137.5°	312.0	311.4	310.8	310.0	309.4	308.8	308.1	307.4	306.7	305.9	305.2
140°	321.2	320.6	319.9	319.2	318.5	317.8	317.2	316.6	316.1	315.7	315.1
142.5°	329.7	329.1	328.3	327.5	326.7	325.9	325.3	324.9	324.3	323.9	323.4
145°	341.5	341.1	340.0	338.9	337.8	336.7	336.2	336.3	336.4	336.4	336.4
147.5°	351.9	351.6	350.5	349.5	348.3	347.2	346.9	347.1	347.3	347.6	347.9
150°	358.2	357.8	356.8	355.8	354.7	353.7	353.4	353.8	354.3	354.7	355.2
152.5°	363.9	363.6	362.6	361.6	360.6	359.6	359.4	359.9	360.4	361.0	361.4
155°	371.8	371.3	370.6	369.8	369.1	368.3	368.2	368.7	369.3	369.9	370.5
157.5°	378.3	377.8	377.3	376.7	376.2	375.7	375.6	376.1	376.6	377.1	377.6
160°	382.1	381.7	381.4	380.9	380.6	380.2	380.2	380.6	380.9	381.4	381.7
162.5°	385.7	385.2	384.9	384.5	384.1	383.9	383.9	384.2	384.7	385.0	385.4
165°	389.9	389.5	389.3	389.1	389.0	388.8	388.9	389.2	389.6	390.0	390.4
167.5°	393.6	393.2	393.0	392.8	392.6	392.4	392.5	392.9	393.3	393.7	394.0
170°	395.5	395.0	394.8	394.8	394.6	394.5	394.6	395.0	395.4	395.7	396.2
172.5°	396.8	396.4	396.3	396.1	396.0	395.8	396.0	396.4	396.7	397.2	397.5
175°	398.3	397.9	397.8	397.6	397.5	397.3	397.5	398.0	398.4	398.9	399.3
177.5°	398.6	398.2	398.1	398.1	398.1	398.1	398.1	398.5	398.9	399.2	399.6
180°	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4



TEST NUMBER: P331675-940

CATALOG NUMBER: SA2XXRDIP-C675D330U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0
2.5°	1317.7	1318.8	1326.1	1329.3	1335.9	1338.4	1341.3	1340.6	1340.6	1342.0	1352.3
5°	1320.4	1329.5	1343.2	1356.4	1369.1	1380.1	1387.4	1394.6	1397.4	1410.6	1422.5
7.5°	1315.7	1332.5	1355.0	1375.2	1399.3	1418.2	1433.8	1448.0	1457.6	1476.8	1496.5
10°	1309.6	1333.2	1358.7	1384.6	1417.9	1442.9	1468.4	1488.0	1494.3	1523.0	1539.4
12.5°	1297.2	1328.8	1361.3	1394.8	1427.4	1461.9	1489.9	1509.5	1531.9	1557.6	1587.9
15°	1278.6	1315.0	1357.4	1400.6	1447.0	1488.9	1518.9	1553.1	1577.6	1605.9	1632.3
17.5°	1251.9	1298.8	1352.6	1402.7	1456.3	1501.4	1542.7	1575.5	1592.8	1608.8	1612.7
20°	1230.8	1281.3	1344.6	1403.7	1457.5	1509.4	1550.3	1577.6	1582.2	1582.6	1558.5
22.5°	1207.8	1264.9	1331.1	1391.8	1456.0	1513.8	1545.6	1557.3	1539.2	1508.3	1461.7
25°	1165.7	1231.7	1308.7	1377.8	1448.0	1502.5	1513.5	1493.0	1429.7	1363.2	1279.1
27.5°	1120.0	1194.2	1276.7	1353.6	1428.3	1462.1	1438.5	1364.7	1250.7	1151.6	1031.6
30°	1086.5	1169.8	1250.8	1336.9	1406.0	1420.6	1366.5	1257.7	1124.7	975.4	855.8
32.5°	1048.3	1135.6	1224.6	1313.6	1371.5	1357.3	1267.7	1133.8	978.0	831.3	718.1
35°	993.6	1083.8	1179.8	1269.0	1305.9	1244.5	1110.6	936.3	776.9	640.0	562.1
37.5°	930.6	1028.7	1128.5	1210.5	1207.8	1105.5	923.2	743.2	609.3	528.2	472.9
40°	885.7	985.0	1092.9	1162.1	1132.5	999.1	801.6	631.8	534.0	469.3	428.7
42.5°	842.8	942.4	1049.5	1104.6	1053.1	889.1	692.3	559.3	478.6	428.1	395.3
45°	769.7	874.9	974.1	1004.6	912.7	731.9	559.9	463.3	409.7	372.4	349.6
47.5°	698.2	801.6	892.2	892.8	768.4	593.5	472.3	401.0	355.2	326.3	309.7
50°	654.5	752.9	828.8	817.1	675.9	528.0	422.4	361.0	322.7	300.4	283.1
52.5°	605.4	700.8	766.6	732.9	597.6	464.7	377.6	326.0	294.4	274.9	259.5
55°	534.0	618.6	665.0	614.0	487.5	386.5	319.1	278.6	254.9	238.5	225.3
57.5°	463.7	533.6	562.8	503.5	401.5	320.5	269.9	239.5	216.1	204.3	197.4
60°	419.6	479.3	499.8	434.3	349.1	280.4	239.0	210.7	193.4	185.7	178.9
62.5°	376.3	425.1	433.5	373.4	304.3	245.4	209.8	186.0	174.5	167.1	160.7
65°	312.3	347.3	343.2	295.0	240.8	194.8	168.9	154.3	145.6	135.2	123.8
67.5°	257.1	278.5	265.6	229.4	183.8	151.4	134.5	123.4	112.7	102.8	100.1
70°	222.1	234.4	220.8	187.5	150.7	127.0	113.3	100.1	93.8	91.5	87.4
72.5°	188.6	192.9	178.2	149.6	122.6	105.1	91.8	84.4	81.1	79.1	76.5
75°	141.6	138.4	125.6	103.3	85.2	73.3	69.2	66.4	64.2	62.3	61.0
77.5°	99.4	94.8	83.4	68.8	59.3	53.6	51.2	49.7	48.6	47.7	46.4
80°	74.6	71.4	60.1	49.1	45.0	42.4	40.9	39.1	39.1	38.3	36.8
82.5°	54.7	51.1	41.1	36.0	33.8	32.1	31.1	30.1	29.7	29.9	28.9
85°	28.7	23.2	20.5	19.5	18.2	17.3	17.7	16.9	16.9	16.9	16.4
87.5°	8.9	7.2	7.0	6.8	7.3	7.4	7.1	7.2	7.7	7.4	7.8
90°	1.0	1.7	2.4	3.1	3.7	4.2	4.7	5.3	5.8	6.1	6.4
92.5°	5.8	5.7	5.6	5.5	5.7	5.9	6.2	6.4	6.7	6.9	7.0
95°	16.6	14.5	12.4	10.3	9.5	9.9	10.3	10.8	11.2	11.6	11.9
97.5°	31.2	25.2	19.4	13.4	10.9	11.9	12.9	14.0	15.1	15.3	15.6
100°	42.3	33.4	24.7	16.0	12.0	13.2	14.3	15.3	16.4	16.9	17.5
102.5°	64.4	62.5	60.7	58.9	53.3	44.2	35.1	26.0	16.9	17.6	18.2
105°	89.5	91.5	93.5	95.3	87.6	70.1	52.6	35.0	17.6	18.3	19.0
107.5°	113.6	115.1	116.7	118.2	108.5	87.6	66.6	45.6	24.6	23.9	23.2
110°	129.0	130.5	131.8	133.1	124.5	106.0	87.5	68.9	50.5	44.1	37.6



TEST NUMBER: P331675-940

CATALOG NUMBER: SA2XXRDIP-C675D330U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	143.7	144.9	146.1	147.2	145.5	141.0	136.4	131.8	127.2	103.9	80.5
115°	166.8	168.0	169.1	170.1	171.5	173.1	174.7	176.3	177.9	148.2	118.6
117.5°	187.8	189.0	190.3	191.5	192.6	193.8	194.8	195.9	197.1	189.8	182.7
120°	202.8	203.8	204.7	205.6	206.7	207.9	209.0	210.2	211.3	212.1	212.9
122.5°	215.8	216.8	217.8	218.8	219.9	221.1	222.4	223.7	225.0	225.4	225.9
125°	235.2	236.0	236.9	237.7	238.8	240.0	241.2	242.4	243.6	244.1	244.5
127.5°	253.2	254.0	255.0	255.9	256.8	257.7	258.7	259.6	260.5	261.1	261.8
130°	264.6	265.6	266.6	267.6	268.5	269.2	269.9	270.6	271.3	272.0	272.7
132.5°	275.9	276.8	277.7	278.6	279.3	280.0	280.7	281.4	282.1	282.8	283.4
135°	291.1	292.1	293.1	294.2	295.0	295.5	296.1	296.7	297.3	297.9	298.5
137.5°	305.9	306.7	307.4	308.1	308.8	309.4	310.0	310.8	311.4	312.0	312.6
140°	315.7	316.1	316.6	317.2	317.8	318.5	319.2	319.9	320.6	321.2	321.7
142.5°	323.9	324.3	324.9	325.3	325.9	326.7	327.5	328.3	329.1	329.7	330.2
145°	336.4	336.4	336.3	336.2	336.7	337.8	338.9	340.0	341.1	341.5	342.0
147.5°	347.6	347.3	347.1	346.9	347.2	348.3	349.5	350.5	351.6	351.9	352.2
150°	354.7	354.3	353.8	353.4	353.7	354.7	355.8	356.8	357.8	358.2	358.6
152.5°	361.0	360.4	359.9	359.4	359.6	360.6	361.6	362.6	363.6	363.9	364.4
155°	369.9	369.3	368.7	368.2	368.3	369.1	369.8	370.6	371.3	371.8	372.1
157.5°	377.1	376.6	376.1	375.6	375.7	376.2	376.7	377.3	377.8	378.3	378.7
160°	381.4	380.9	380.6	380.2	380.2	380.6	380.9	381.4	381.7	382.1	382.5
162.5°	385.0	384.7	384.2	383.9	383.9	384.1	384.5	384.9	385.2	385.7	386.0
165°	390.0	389.6	389.2	388.9	388.8	389.0	389.1	389.3	389.5	389.9	390.4
167.5°	393.7	393.3	392.9	392.5	392.4	392.6	392.8	393.0	393.2	393.6	394.0
170°	395.7	395.4	395.0	394.6	394.5	394.6	394.8	394.8	395.0	395.5	395.9
172.5°	397.2	396.7	396.4	396.0	395.8	396.0	396.1	396.3	396.4	396.8	397.3
175°	398.9	398.4	398.0	397.5	397.3	397.5	397.6	397.8	397.9	398.3	398.8
177.5°	399.2	398.9	398.5	398.1	398.1	398.1	398.1	398.1	398.2	398.6	399.0
180°	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0
2.5°	1355.8	1360.6	1362.8	1362.8	1365.4	1364.2	1363.2
5°	1433.8	1442.4	1444.3	1452.5	1458.4	1456.5	1457.5
7.5°	1511.3	1525.2	1538.9	1545.2	1546.2	1549.9	1551.2
10°	1559.0	1570.4	1591.8	1588.6	1604.5	1613.6	1598.6
12.5°	1604.9	1620.2	1635.0	1639.1	1648.2	1651.1	1645.2
15°	1646.4	1654.6	1655.5	1653.2	1655.9	1653.7	1645.0
17.5°	1607.6	1594.3	1567.4	1554.6	1544.5	1529.6	1523.6
20°	1543.5	1504.3	1458.8	1440.6	1419.2	1377.3	1387.4
22.5°	1405.2	1360.5	1315.0	1261.9	1236.4	1196.8	1194.4
25°	1189.8	1112.9	1028.2	969.1	934.5	894.9	877.6
27.5°	925.1	828.2	758.8	723.7	691.8	660.4	659.1
30°	751.0	678.2	624.5	594.5	574.9	561.7	564.5
32.5°	633.0	583.2	547.0	522.0	507.6	497.6	497.4
35°	517.5	483.4	460.2	449.7	439.3	431.9	432.4
37.5°	442.9	422.4	409.5	397.9	391.4	387.8	385.8
40°	404.7	387.8	377.8	371.0	365.5	360.5	359.6
42.5°	374.4	360.5	350.4	345.1	340.0	336.4	335.6
45°	332.3	320.9	311.8	305.9	303.6	300.4	300.4
47.5°	295.6	284.4	277.3	273.6	269.7	267.5	267.4
50°	270.8	262.2	255.8	253.5	250.3	249.0	248.5
52.5°	248.6	242.2	237.6	236.0	234.7	232.9	233.3
55°	218.5	214.8	213.0	211.7	209.4	206.6	208.5
57.5°	193.1	190.0	185.1	180.8	178.7	176.8	177.5
60°	175.2	168.9	162.5	157.5	156.1	152.0	152.0
62.5°	152.7	143.7	135.9	133.1	131.7	129.8	129.5
65°	117.4	113.8	112.0	110.1	109.2	109.2	108.3
67.5°	97.3	95.9	93.9	93.4	92.5	92.2	91.9
70°	86.1	84.2	83.3	82.8	81.9	82.4	81.1
72.5°	75.1	73.7	73.5	72.3	71.7	71.8	70.8
75°	59.2	59.2	58.7	58.2	57.3	56.9	57.3
77.5°	45.5	45.6	44.8	44.7	44.6	44.7	44.2
80°	36.4	36.8	36.4	35.9	35.5	35.9	35.5
82.5°	28.8	28.1	28.0	27.9	27.8	27.6	27.5
85°	16.4	16.9	16.4	16.0	16.0	16.0	16.4
87.5°	7.6	7.6	7.7	7.7	7.7	7.8	7.4
90°	6.7	7.0	7.3	7.4	7.5	7.7	7.8
92.5°	7.2	7.3	7.5	7.6	7.7	7.7	7.8
95°	12.2	12.5	12.7	12.6	12.5	12.5	12.4
97.5°	15.8	16.1	16.2	16.3	16.4	16.5	16.6
100°	18.0	18.5	18.8	18.9	19.1	19.2	19.4
102.5°	18.9	19.5	20.0	20.2	20.3	20.5	20.7
105°	19.7	20.4	20.9	21.1	21.4	21.7	21.9
107.5°	22.5	21.8	21.5	21.8	22.0	22.3	22.6
110°	31.2	24.8	21.8	22.0	22.3	22.6	22.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	57.2	33.8	22.2	22.4	22.6	22.8	23.0
115°	88.9	59.2	42.1	37.5	32.9	28.3	23.6
117.5°	175.5	168.4	157.2	142.0	126.9	111.7	96.6
120°	213.7	214.4	210.4	201.8	193.1	184.5	175.8
122.5°	226.3	226.8	226.1	224.5	222.8	221.1	219.5
125°	245.0	245.4	245.8	245.9	246.1	246.3	246.5
127.5°	262.4	263.1	263.4	263.5	263.5	263.5	263.6
130°	273.4	274.1	274.5	274.4	274.3	274.3	274.2
132.5°	283.9	284.5	284.8	284.7	284.7	284.6	284.5
135°	299.2	299.8	300.1	300.0	299.8	299.7	299.5
137.5°	313.3	313.9	314.1	313.9	313.7	313.4	313.3
140°	322.4	322.9	323.1	322.7	322.4	322.1	321.7
142.5°	330.7	331.3	331.4	331.0	330.7	330.4	330.0
145°	342.4	342.9	343.0	342.6	342.3	342.0	341.6
147.5°	352.6	352.9	352.9	352.7	352.4	352.1	351.9
150°	358.9	359.4	359.4	359.1	358.7	358.4	358.1
152.5°	364.7	365.1	365.1	364.6	364.3	363.8	363.4
155°	372.5	372.9	372.8	372.3	371.8	371.3	370.8
157.5°	379.2	379.5	379.5	379.0	378.5	378.0	377.6
160°	382.9	383.3	383.3	382.8	382.4	381.9	381.5
162.5°	386.5	386.9	386.9	386.3	385.8	385.2	384.7
165°	390.8	391.3	391.3	390.8	390.4	389.9	389.5
167.5°	394.5	394.9	394.8	394.3	393.7	393.2	392.5
170°	396.4	396.8	396.7	396.2	395.6	395.0	394.4
172.5°	397.7	398.1	398.1	397.5	397.0	396.4	395.8
175°	399.2	399.7	399.6	399.0	398.3	397.6	397.0
177.5°	399.3	399.7	399.6	399.1	398.7	398.2	397.8
180°	398.4	398.4	398.4	398.4	398.4	398.4	398.4

(END OF REPORT)