

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: P331340-840

Luminaire Tested: **SA2XXDIP-C675D530U840-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331340-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXDIP-C675D530U840-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 530 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

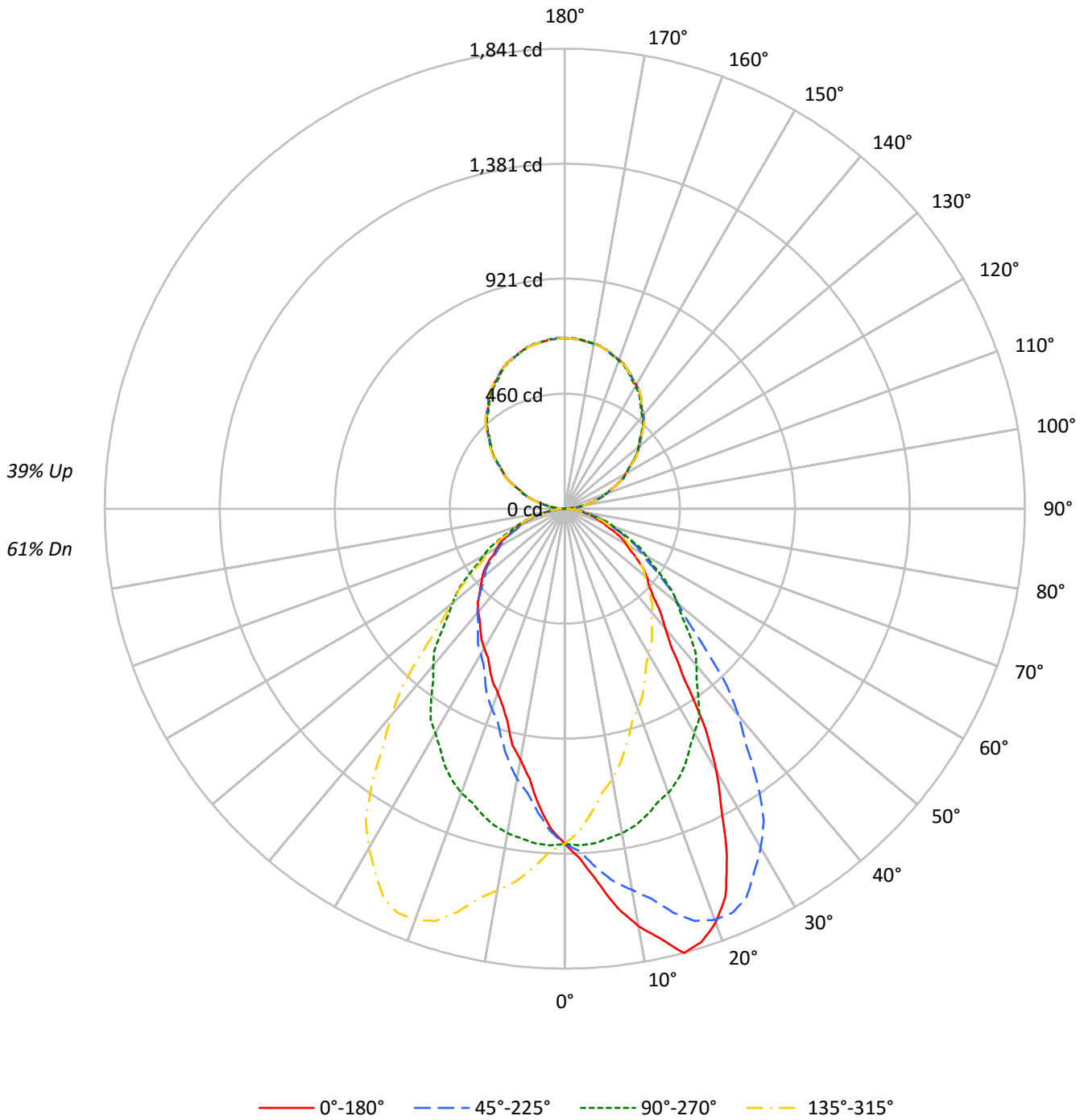
Lumens per Lamp: N/A  
Luminaire Lumens: 4870.2 lumens  
Efficiency: N/A  
Efficacy: 120.8 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 40.3  
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	0
RCR																		
0	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	101	97	93	89	94	91	87	84	79	77	75	69	67	66	59	58	57	52
2	92	85	79	74	86	80	75	70	70	66	63	61	58	56	53	51	49	45
3	85	75	68	62	79	71	65	59	62	58	53	55	51	48	47	45	42	39
4	78	67	59	53	73	63	56	51	56	50	46	49	45	41	43	40	37	34
5	72	60	52	46	67	57	50	44	50	45	40	44	40	36	39	35	33	30
6	66	54	46	41	62	51	44	39	46	40	36	40	36	32	35	32	29	26
7	61	49	41	36	57	47	40	34	42	36	32	37	32	29	33	29	26	24
8	57	45	37	32	54	43	36	31	38	32	28	34	29	26	30	26	24	21
9	53	41	34	29	50	39	32	28	35	30	26	31	27	23	28	24	21	19
10	50	38	31	26	47	36	30	25	33	27	23	29	25	21	26	22	20	18

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

	0°	90°	180°	270°
0°	21658	21658	21658	21658
5°	24280	21797	19316	21797
10°	27824	21620	16718	21620
15°	30780	21224	14770	21224
20°	30311	20797	13464	20797
25°	27332	20232	12636	20232
30°	22585	19328	12033	19328
35°	16462	18382	11606	18382
40°	13148	17266	11367	17266
45°	11488	15972	11040	15972
50°	10798	14722	10826	14722
55°	9956	13453	10536	13453
60°	9122	12103	10091	12103
65°	8309	10892	9650	10892
70°	7544	9711	9007	9711
75°	6687	8390	7973	8390
80°	5755	6946	6425	6946
85°	5169	5169	3816	5169



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.7	2.6
10°-20°	371.4	7.6
20°-30°	539.0	11.1
30°-40°	568.8	11.7
40°-50°	503.6	10.3
50°-60°	401.9	8.3
60°-70°	273.2	5.6
70°-80°	140.0	2.9
80°-90°	36.5	0.7
90°-100°	43.3	0.9
100°-110°	134.3	2.8
110°-120°	229.6	4.7
120°-130°	301.9	6.2
130°-140°	338.8	7.0
140°-150°	332.2	6.8
150°-160°	278.7	5.7
160°-170°	184.8	3.8
170°-180°	64.6	1.3
0°-30°	1038.1	21.3
0°-40°	1606.9	33.0
0°-60°	2512.4	51.6
0°-90°	2962.1	60.8
90°-120°	407.1	8.4
90°-150°	1380.1	28.3
90°-180°	1908.0	39.2
0°-180°	4870.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1341	1341	1341	1341	1341	
5°	1498	1345	1192	1345	1498	150
15°	1841	1270	884	1270	1841	508
25°	1534	1136	709	1136	1534	693
35°	835	933	589	933	835	543
45°	503	700	484	700	503	396
55°	354	478	374	478	354	317
65°	218	285	253	285	218	216
75°	107	134	128	134	107	115
85°	28	28	21	28	28	31
90°	20	1	20	1	20	10
95°	36	30	36	30	36	40
105°	128	124	128	124	128	134
115°	230	230	230	230	230	227
125°	336	335	336	335	336	300
135°	439	434	439	434	439	338
145°	532	526	532	526	532	332
155°	606	602	606	602	606	279
165°	655	655	655	655	655	185
175°	679	681	679	681	679	65
180°	682	682	682	682	682	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1403.2	1403.6	1404.5	1397.9	1397.0	1397.0	1391.3	1386.3	1380.6	1372.7	1373.5
5°	1498.1	1503.8	1505.8	1499.6	1490.4	1489.3	1480.6	1466.1	1452.7	1441.9	1434.2
7.5°	1611.3	1613.6	1608.5	1600.3	1593.5	1581.1	1564.8	1548.8	1526.4	1505.9	1490.7
10°	1697.1	1700.2	1691.4	1679.6	1669.8	1655.4	1631.6	1607.4	1578.0	1549.6	1526.9
12.5°	1762.2	1769.9	1758.7	1757.1	1740.3	1720.5	1692.2	1680.0	1638.6	1599.1	1574.8
15°	1841.4	1840.9	1842.0	1832.2	1819.8	1816.6	1786.8	1754.3	1696.1	1672.8	1632.6
17.5°	1818.6	1826.3	1830.0	1829.9	1829.6	1827.7	1818.1	1797.6	1768.4	1730.7	1684.3
20°	1764.1	1774.4	1775.9	1787.9	1794.5	1803.3	1806.9	1801.2	1783.2	1751.7	1711.5
22.5°	1680.0	1682.8	1687.7	1706.2	1720.7	1742.6	1754.1	1773.2	1766.3	1750.9	1717.3
25°	1534.2	1529.0	1547.1	1556.3	1589.8	1624.9	1650.2	1678.0	1702.7	1717.7	1707.9
27.5°	1359.1	1351.4	1378.4	1403.0	1430.3	1468.2	1507.6	1554.1	1592.8	1641.1	1657.7
30°	1211.4	1216.1	1241.9	1268.2	1309.4	1363.0	1407.3	1458.4	1513.6	1567.7	1605.3
32.5°	1052.3	1070.2	1086.4	1126.7	1163.0	1222.8	1287.8	1351.6	1420.4	1481.9	1540.1
35°	835.2	855.8	878.5	907.9	958.9	1018.1	1081.6	1167.6	1261.5	1345.5	1414.6
37.5°	703.0	699.6	712.7	733.9	775.3	823.0	896.1	981.2	1091.6	1190.3	1287.8
40°	623.8	621.7	631.0	650.6	682.1	717.1	781.0	855.8	958.4	1078.9	1195.0
42.5°	569.4	570.6	575.7	589.6	611.1	640.0	687.8	751.4	845.4	959.0	1083.6
45°	503.1	506.8	512.4	519.2	531.5	555.2	582.0	627.4	701.7	796.5	919.2
47.5°	455.6	455.7	461.4	467.3	474.6	488.0	509.9	538.3	590.7	667.9	773.4
50°	429.9	426.4	430.5	435.0	442.8	452.1	466.6	493.3	528.4	590.8	678.9
52.5°	398.6	398.7	402.4	404.1	411.1	420.3	433.5	452.1	483.8	532.6	605.1
55°	353.7	356.2	358.3	361.3	367.6	374.3	384.6	397.0	421.7	458.3	511.9
57.5°	311.3	312.1	314.3	320.1	324.1	330.2	340.0	351.2	367.4	394.5	434.7
60°	282.5	282.5	286.6	289.2	294.4	300.5	308.3	319.1	333.6	355.7	388.2
62.5°	256.1	255.7	257.3	261.6	265.5	271.2	279.0	288.2	301.7	321.4	348.2
65°	217.5	216.5	219.6	220.7	224.8	230.5	236.6	246.4	257.2	271.7	295.4
67.5°	180.5	181.7	183.3	185.3	187.5	193.5	197.6	204.6	213.7	225.7	241.8
70°	159.8	159.8	159.8	161.4	164.4	167.5	171.7	177.3	186.1	196.4	210.9
72.5°	136.7	138.4	140.0	139.1	143.0	144.8	149.8	153.0	161.4	167.9	180.8
75°	107.2	107.2	107.2	109.8	111.4	112.9	116.0	119.1	123.2	131.5	138.1
77.5°	80.0	79.8	80.3	80.9	82.6	84.4	85.3	88.2	92.0	95.7	101.5
80°	61.9	62.9	63.4	64.4	64.4	65.4	65.9	69.6	72.2	74.7	78.4
82.5°	47.9	48.1	48.2	48.4	48.8	49.4	50.7	51.9	52.8	54.9	57.8
85°	27.9	27.4	27.4	28.4	27.9	27.9	28.9	29.9	29.9	30.4	31.9
87.5°	14.6	14.6	15.0	14.5	14.5	14.9	15.0	14.6	15.1	15.6	15.5
90°	19.6	19.5	19.3	19.2	19.1	19.1	19.4	19.7	19.9	20.2	17.4
92.5°	18.7	18.7	18.6	18.6	18.6	18.5	18.5	18.4	18.4	18.3	17.7
95°	35.7	36.0	36.3	36.5	36.8	36.9	36.9	36.9	36.9	36.9	36.6
97.5°	61.8	61.9	61.9	61.9	61.9	62.0	62.0	62.0	62.0	62.0	61.5
100°	78.9	79.1	79.2	79.3	79.4	79.5	79.5	79.5	79.5	79.5	79.1
102.5°	98.3	98.4	98.5	98.7	98.8	98.8	98.7	98.6	98.5	98.4	97.9
105°	127.8	127.8	127.8	127.8	127.8	127.7	127.4	127.2	126.9	126.7	126.4
107.5°	155.7	156.3	156.9	157.4	158.0	158.3	158.2	158.1	158.0	157.9	157.9
110°	177.3	177.7	178.1	178.5	178.9	179.0	179.0	179.0	179.0	179.0	179.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	198.1	198.3	198.6	198.9	199.2	199.5	199.9	200.2	200.5	200.8	200.9
115°	230.4	230.8	231.2	231.5	231.9	232.2	232.3	232.4	232.6	232.7	232.9
117.5°	261.1	261.5	261.9	262.3	262.7	263.0	263.3	263.6	263.9	264.2	264.9
120°	282.8	283.2	283.6	283.9	284.3	284.5	284.5	284.5	284.5	284.5	285.5
122.5°	304.0	304.3	304.5	304.8	305.1	305.4	305.7	306.0	306.3	306.6	307.3
125°	336.3	336.4	336.6	336.7	336.8	337.1	337.5	337.8	338.2	338.6	339.0
127.5°	365.8	366.2	366.6	367.0	367.4	367.9	368.3	368.8	369.2	369.7	370.2
130°	387.0	387.5	388.0	388.5	389.0	389.4	389.7	389.9	390.2	390.4	390.7
132.5°	407.3	407.7	408.1	408.5	408.9	409.4	409.9	410.5	411.1	411.6	411.6
135°	438.8	439.2	439.6	440.0	440.3	440.6	440.7	440.9	441.0	441.1	440.9
137.5°	467.4	467.9	468.4	468.9	469.4	469.7	469.8	469.9	470.0	470.1	469.8
140°	487.2	487.7	488.2	488.7	489.3	489.5	489.5	489.5	489.5	489.5	488.9
142.5°	505.1	505.6	506.1	506.6	507.2	507.4	507.3	507.2	507.1	507.0	506.5
145°	532.1	532.6	533.1	533.6	534.1	534.3	534.2	534.1	533.9	533.8	533.1
147.5°	556.1	556.6	557.1	557.6	558.2	558.3	558.0	557.6	557.3	557.1	556.5
150°	571.9	572.2	572.6	573.0	573.4	573.4	573.0	572.6	572.2	571.9	571.3
152.5°	586.6	587.0	587.5	588.0	588.5	588.5	588.0	587.5	587.0	586.6	585.9
155°	606.4	606.7	607.1	607.5	607.9	607.8	607.1	606.5	605.9	605.2	604.8
157.5°	623.4	624.1	624.7	625.3	625.9	625.8	624.9	624.0	623.2	622.3	622.1
160°	634.0	634.5	635.1	635.6	636.1	635.9	635.2	634.4	633.7	632.9	632.8
162.5°	643.3	643.9	644.5	645.1	645.7	645.6	644.7	643.8	643.0	642.1	642.0
165°	655.3	656.0	656.6	657.2	657.9	657.7	656.9	656.0	655.1	654.2	654.2
167.5°	665.2	665.9	666.6	667.2	667.9	667.8	666.9	666.0	665.1	664.2	664.2
170°	670.3	671.1	671.9	672.6	673.4	673.3	672.5	671.6	670.7	669.7	669.8
172.5°	674.5	675.2	676.0	676.8	677.5	677.4	676.6	675.7	674.8	673.9	674.0
175°	678.9	679.7	680.4	681.3	682.1	682.0	681.1	680.1	679.2	678.3	678.6
177.5°	681.1	681.7	682.3	682.9	683.5	683.5	682.9	682.3	681.7	681.1	681.3
180°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1376.4	1373.1	1371.1	1363.6	1357.1	1350.5	1348.4	1349.2	1340.2	1331.5	1327.8
5°	1430.1	1419.8	1410.0	1396.0	1379.6	1361.5	1352.2	1344.9	1327.0	1307.4	1296.1
7.5°	1478.1	1463.4	1444.5	1418.3	1394.3	1365.9	1347.9	1331.9	1305.5	1277.9	1260.9
10°	1507.4	1487.2	1463.0	1431.1	1401.7	1367.2	1342.9	1318.7	1287.8	1254.8	1234.2
12.5°	1532.6	1505.4	1481.6	1440.6	1405.8	1362.6	1333.8	1299.7	1267.2	1228.0	1207.8
15°	1592.5	1542.5	1497.0	1450.7	1407.9	1347.6	1315.7	1269.7	1226.9	1178.5	1155.3
17.5°	1638.7	1582.6	1511.1	1452.1	1402.2	1335.4	1288.5	1233.6	1183.0	1127.5	1096.0
20°	1665.2	1600.6	1523.9	1453.8	1393.9	1317.7	1266.7	1210.4	1151.1	1088.7	1054.7
22.5°	1680.8	1613.1	1537.1	1447.5	1377.5	1303.2	1239.0	1177.4	1117.3	1050.1	1014.3
25°	1685.8	1623.9	1543.5	1442.4	1356.9	1272.8	1195.5	1135.7	1063.0	1000.1	948.1
27.5°	1661.2	1616.9	1539.5	1432.7	1333.0	1234.8	1148.6	1080.9	1004.1	935.8	883.5
30°	1631.1	1605.3	1530.0	1422.8	1314.0	1208.4	1113.5	1036.7	960.4	891.3	837.7
32.5°	1584.5	1578.9	1512.8	1408.8	1293.8	1175.0	1076.8	999.2	914.6	846.8	795.7
35°	1493.0	1517.7	1475.9	1377.5	1255.8	1127.4	1021.3	932.6	845.0	780.0	732.1
37.5°	1370.3	1431.7	1420.8	1331.6	1204.5	1075.7	958.5	865.8	782.2	716.7	669.6
40°	1285.7	1364.0	1375.4	1296.6	1168.2	1035.7	911.4	819.2	737.7	677.9	630.5
42.5°	1195.0	1286.6	1317.7	1254.5	1128.5	993.6	869.4	773.8	693.2	635.0	593.0
45°	1042.9	1164.1	1220.2	1184.2	1062.5	924.3	796.5	699.5	626.3	571.7	539.3
47.5°	900.7	1033.1	1108.6	1095.9	989.0	852.1	725.8	632.8	561.5	517.9	488.8
50°	800.1	936.1	1027.4	1031.6	936.1	800.6	673.8	586.1	520.7	480.0	456.3
52.5°	712.7	842.5	942.1	963.9	877.2	747.0	627.2	540.0	482.3	444.8	423.6
55°	598.5	708.3	818.6	858.9	789.2	665.5	554.7	477.9	423.7	398.0	379.4
57.5°	497.6	589.2	691.1	735.5	692.6	586.6	482.7	416.1	372.1	349.5	335.3
60°	444.3	516.5	607.2	660.4	623.3	529.0	438.2	374.8	338.7	318.6	305.2
62.5°	394.9	458.8	535.5	584.1	563.9	474.9	393.6	337.7	306.5	287.6	278.0
65°	325.8	376.4	435.7	480.5	467.1	399.5	333.1	285.1	260.3	245.4	237.6
67.5°	268.3	304.8	345.9	385.2	374.4	326.5	273.2	235.8	217.3	204.5	199.9
70°	232.0	259.8	296.4	327.9	319.1	279.9	237.6	205.7	189.8	178.8	174.2
72.5°	197.3	220.3	248.1	273.9	267.9	235.4	200.2	176.0	163.7	153.7	149.9
75°	149.0	166.5	183.5	200.6	198.9	173.7	153.1	134.5	124.7	117.0	115.4
77.5°	110.0	119.8	131.4	141.5	138.7	124.2	108.1	97.5	90.2	85.0	84.2
80°	84.0	89.7	98.0	105.1	101.6	95.3	82.5	74.7	69.6	64.4	62.4
82.5°	60.9	66.7	71.6	75.4	72.7	67.0	59.0	53.7	50.6	47.2	46.3
85°	31.9	35.0	37.2	38.2	37.2	33.5	29.9	27.9	25.2	23.7	23.2
87.5°	15.2	14.7	14.1	14.5	13.0	12.7	10.7	9.2	9.1	9.0	8.5
90°	14.5	11.7	8.9	6.8	5.2	3.6	2.1	0.6	2.1	3.6	5.2
92.5°	17.0	16.4	15.7	14.7	13.6	12.5	11.4	10.3	11.4	12.5	13.6
95°	36.4	36.1	35.9	35.0	33.8	32.5	31.2	30.0	31.2	32.5	33.8
97.5°	61.0	60.5	60.0	59.2	58.1	57.0	55.8	54.7	55.8	57.0	58.1
100°	78.7	78.4	78.0	77.3	76.2	75.1	74.1	73.1	74.1	75.1	76.2
102.5°	97.4	96.9	96.4	95.7	94.9	94.1	93.3	92.5	93.3	94.1	94.9
105°	126.1	125.9	125.6	125.3	124.9	124.6	124.2	123.8	124.2	124.6	124.9
107.5°	157.9	157.9	157.9	157.6	157.0	156.5	155.9	155.4	155.9	156.5	157.0
110°	179.0	179.0	179.0	178.7	177.9	177.1	176.4	175.6	176.4	177.1	177.9





TEST NUMBER: P331340-840

CATALOG NUMBER: SA2XXDIP-C675D530U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	201.0	201.1	201.2	200.9	200.1	199.2	198.5	197.7	198.5	199.2	200.1
115°	233.2	233.4	233.7	233.4	232.7	231.9	231.2	230.4	231.2	231.9	232.7
117.5°	265.6	266.4	267.1	266.9	265.9	264.9	263.9	262.9	263.9	264.9	265.9
120°	286.5	287.5	288.6	288.6	287.5	286.5	285.5	284.5	285.5	286.5	287.5
122.5°	308.0	308.7	309.4	309.2	308.0	306.8	305.5	304.3	305.5	306.8	308.0
125°	339.4	339.7	340.1	339.7	338.6	337.5	336.3	335.2	336.3	337.5	338.6
127.5°	370.6	371.1	371.5	371.0	369.6	368.1	366.7	365.2	366.7	368.1	369.6
130°	390.9	391.2	391.4	390.7	389.1	387.4	385.8	384.2	385.8	387.4	389.1
132.5°	411.5	411.5	411.4	410.7	409.4	408.0	406.7	405.3	406.7	408.0	409.4
135°	440.6	440.3	440.1	439.3	437.9	436.5	435.0	433.6	435.0	436.5	437.9
137.5°	469.5	469.2	468.8	468.1	467.0	465.7	464.6	463.4	464.6	465.7	467.0
140°	488.2	487.6	487.0	486.0	484.8	483.7	482.6	481.4	482.6	483.7	484.8
142.5°	506.1	505.7	505.2	504.4	503.3	502.2	501.0	499.9	501.0	502.2	503.3
145°	532.3	531.5	530.8	530.0	529.1	528.2	527.3	526.3	527.3	528.2	529.1
147.5°	556.0	555.5	555.0	554.2	553.2	552.1	551.0	550.0	551.0	552.1	553.2
150°	570.8	570.3	569.8	569.2	568.4	567.6	566.8	566.1	566.8	567.6	568.4
152.5°	585.3	584.7	584.1	583.4	582.7	581.9	581.2	580.4	581.2	581.9	582.7
155°	604.5	604.1	603.7	603.3	602.9	602.6	602.2	601.8	602.2	602.6	602.9
157.5°	621.9	621.6	621.4	621.2	620.9	620.6	620.4	620.1	620.4	620.6	620.9
160°	632.6	632.5	632.4	632.2	631.9	631.7	631.4	631.2	631.4	631.7	631.9
162.5°	641.9	641.7	641.6	641.5	641.5	641.4	641.4	641.3	641.4	641.4	641.5
165°	654.2	654.2	654.2	654.3	654.4	654.5	654.6	654.8	654.6	654.5	654.4
167.5°	664.3	664.3	664.3	664.5	664.9	665.3	665.7	666.0	665.7	665.3	664.9
170°	669.9	670.1	670.2	670.6	670.9	671.3	671.7	672.1	671.7	671.3	670.9
172.5°	674.2	674.3	674.4	674.7	675.0	675.4	675.8	676.2	675.8	675.4	675.0
175°	678.9	679.1	679.4	679.7	680.1	680.4	680.9	681.3	680.9	680.4	680.1
177.5°	681.5	681.7	681.9	682.1	682.4	682.7	683.0	683.4	683.0	682.7	682.4
180°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4



TEST NUMBER: P331340-840  
 CATALOG NUMBER: SA2XXDIP-C675D530U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1323.6	1321.2	1312.5	1308.0	1300.5	1293.5	1289.0	1291.1	1292.7	1291.9	1290.6
5°	1285.7	1275.9	1260.9	1248.1	1238.8	1221.7	1214.6	1210.9	1207.9	1204.3	1200.6
7.5°	1240.5	1225.1	1203.7	1185.3	1167.9	1146.8	1134.8	1127.5	1120.1	1112.0	1104.8
10°	1208.4	1186.7	1164.1	1138.2	1117.6	1098.5	1081.6	1070.3	1060.0	1050.2	1042.9
12.5°	1174.6	1149.6	1121.6	1086.3	1063.6	1036.3	1033.7	1013.7	997.6	991.6	983.1
15°	1120.7	1085.7	1050.2	1008.4	990.3	965.5	950.1	934.6	920.7	910.9	908.4
17.5°	1059.6	1014.2	978.9	948.9	919.3	893.9	879.7	867.3	855.9	842.7	841.0
20°	1013.0	973.8	935.1	908.9	878.5	852.6	835.2	822.7	812.9	805.3	798.5
22.5°	968.9	925.9	890.6	861.8	831.8	811.0	797.2	785.3	777.1	768.5	762.2
25°	898.1	864.5	825.9	793.3	768.6	755.3	743.9	733.6	728.4	722.8	715.6
27.5°	836.1	798.8	762.7	737.5	715.8	703.9	695.8	688.8	684.0	680.6	676.6
30°	792.3	754.7	726.4	701.7	683.6	671.8	666.6	662.5	656.8	654.7	652.7
32.5°	750.3	716.4	692.2	670.7	653.5	645.7	641.0	637.3	632.9	630.8	626.6
35°	690.7	662.5	638.7	626.8	613.0	606.2	602.7	597.4	593.4	591.3	590.8
37.5°	634.8	610.2	594.6	579.4	573.5	569.4	564.4	560.9	559.7	559.4	558.9
40°	598.5	578.5	564.5	552.1	549.6	543.3	539.3	536.1	536.1	536.6	536.1
42.5°	565.5	547.4	535.2	524.5	521.5	517.8	513.6	513.4	514.3	516.0	514.3
45°	515.5	502.6	493.8	488.7	483.0	479.4	478.9	480.5	481.0	481.5	483.0
47.5°	469.5	461.0	453.0	447.4	444.8	444.2	443.6	446.4	448.8	449.7	452.1
50°	442.3	432.5	425.9	422.2	420.1	419.1	420.1	423.2	425.3	427.9	429.4
52.5°	411.8	404.9	400.2	397.5	396.7	397.3	397.5	401.0	404.2	405.2	406.0
55°	369.6	364.5	363.5	358.8	360.8	360.3	362.9	365.0	368.1	371.1	371.7
57.5°	327.6	323.5	320.6	321.0	321.6	324.0	326.1	329.7	333.1	336.3	336.6
60°	299.5	297.4	295.9	295.9	296.9	300.0	302.7	306.2	308.3	310.3	311.8
62.5°	274.0	271.9	270.3	271.1	273.9	275.7	278.7	280.6	282.7	284.8	285.5
65°	233.5	232.5	234.1	235.1	235.6	238.1	241.8	243.3	245.4	246.4	250.0
67.5°	196.3	196.5	196.3	197.7	200.8	201.4	204.8	208.3	208.7	210.8	213.1
70°	171.2	172.2	173.2	174.2	176.8	177.8	180.5	182.0	184.0	185.6	187.1
72.5°	148.0	148.2	149.3	149.1	151.3	153.5	155.7	157.2	159.3	161.3	162.8
75°	113.9	113.9	114.9	115.4	118.1	120.7	120.1	121.2	123.2	125.2	126.3
77.5°	83.2	82.1	83.2	83.7	84.5	86.7	87.2	88.6	90.9	90.2	91.4
80°	63.4	61.9	63.4	63.9	63.9	66.6	66.6	67.6	69.1	67.6	69.1
82.5°	45.2	44.5	45.6	45.7	46.6	46.7	47.6	47.8	49.3	48.6	49.3
85°	22.7	22.2	22.7	22.2	22.7	23.2	23.2	22.7	22.7	23.7	22.2
87.5°	8.4	8.4	8.5	9.1	9.3	9.4	8.9	8.9	8.8	8.0	8.0
90°	6.8	8.9	11.7	14.5	17.4	20.2	19.9	19.7	19.4	19.1	19.1
92.5°	14.7	15.7	16.4	17.0	17.7	18.3	18.4	18.4	18.5	18.5	18.6
95°	35.0	35.9	36.1	36.4	36.6	36.9	36.9	36.9	36.9	36.9	36.8
97.5°	59.2	60.0	60.5	61.0	61.5	62.0	62.0	62.0	62.0	62.0	61.9
100°	77.3	78.0	78.4	78.7	79.1	79.5	79.5	79.5	79.5	79.5	79.4
102.5°	95.7	96.4	96.9	97.4	97.9	98.4	98.5	98.6	98.7	98.8	98.8
105°	125.3	125.6	125.9	126.1	126.4	126.7	126.9	127.2	127.4	127.7	127.8
107.5°	157.6	157.9	157.9	157.9	157.9	157.9	158.0	158.1	158.2	158.3	158.0
110°	178.7	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0	178.9



TEST NUMBER: P331340-840

CATALOG NUMBER: SA2XXDIP-C675D530U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	200.9	201.2	201.1	201.0	200.9	200.8	200.5	200.2	199.9	199.5	199.2
115°	233.4	233.7	233.4	233.2	232.9	232.7	232.6	232.4	232.3	232.2	231.9
117.5°	266.9	267.1	266.4	265.6	264.9	264.2	263.9	263.6	263.3	263.0	262.7
120°	288.6	288.6	287.5	286.5	285.5	284.5	284.5	284.5	284.5	284.5	284.3
122.5°	309.2	309.4	308.7	308.0	307.3	306.6	306.3	306.0	305.7	305.4	305.1
125°	339.7	340.1	339.7	339.4	339.0	338.6	338.2	337.8	337.5	337.1	336.8
127.5°	371.0	371.5	371.1	370.6	370.2	369.7	369.2	368.8	368.3	367.9	367.4
130°	390.7	391.4	391.2	390.9	390.7	390.4	390.2	389.9	389.7	389.4	389.0
132.5°	410.7	411.4	411.5	411.5	411.6	411.6	411.1	410.5	409.9	409.4	408.9
135°	439.3	440.1	440.3	440.6	440.9	441.1	441.0	440.9	440.7	440.6	440.3
137.5°	468.1	468.8	469.2	469.5	469.8	470.1	470.0	469.9	469.8	469.7	469.4
140°	486.0	487.0	487.6	488.2	488.9	489.5	489.5	489.5	489.5	489.5	489.3
142.5°	504.4	505.2	505.7	506.1	506.5	507.0	507.1	507.2	507.3	507.4	507.2
145°	530.0	530.8	531.5	532.3	533.1	533.8	533.9	534.1	534.2	534.3	534.1
147.5°	554.2	555.0	555.5	556.0	556.5	557.1	557.3	557.6	558.0	558.3	558.2
150°	569.2	569.8	570.3	570.8	571.3	571.9	572.2	572.6	573.0	573.4	573.4
152.5°	583.4	584.1	584.7	585.3	585.9	586.6	587.0	587.5	588.0	588.5	588.5
155°	603.3	603.7	604.1	604.5	604.8	605.2	605.9	606.5	607.1	607.8	607.9
157.5°	621.2	621.4	621.6	621.9	622.1	622.3	623.2	624.0	624.9	625.8	625.9
160°	632.2	632.4	632.5	632.6	632.8	632.9	633.7	634.4	635.2	635.9	636.1
162.5°	641.5	641.6	641.7	641.9	642.0	642.1	643.0	643.8	644.7	645.6	645.7
165°	654.3	654.2	654.2	654.2	654.2	654.2	655.1	656.0	656.9	657.7	657.9
167.5°	664.5	664.3	664.3	664.3	664.2	664.2	665.1	666.0	666.9	667.8	667.9
170°	670.6	670.2	670.1	669.9	669.8	669.7	670.7	671.6	672.5	673.3	673.4
172.5°	674.7	674.4	674.3	674.2	674.0	673.9	674.8	675.7	676.6	677.4	677.5
175°	679.7	679.4	679.1	678.9	678.6	678.3	679.2	680.1	681.1	682.0	682.1
177.5°	682.1	681.9	681.7	681.5	681.3	681.1	681.7	682.3	682.9	683.5	683.5
180°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4



TEST NUMBER: P331340-840

CATALOG NUMBER: SA2XXDIP-C675D530U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1286.6	1285.7	1285.7	1282.0	1285.7	1285.7	1286.6	1290.6	1291.9	1292.7	1291.1
5°	1193.5	1191.8	1189.3	1191.8	1189.3	1191.8	1193.5	1200.6	1204.3	1207.9	1210.9
7.5°	1101.4	1095.2	1094.3	1088.1	1094.3	1095.2	1101.4	1104.8	1112.0	1120.1	1127.5
10°	1034.1	1030.0	1029.5	1019.7	1029.5	1030.0	1034.1	1042.9	1050.2	1060.0	1070.3
12.5°	983.0	973.1	975.0	969.4	975.0	973.1	983.0	983.1	991.6	997.6	1013.7
15°	894.4	894.4	892.3	883.6	892.3	894.4	894.4	908.4	910.9	920.7	934.6
17.5°	830.8	829.8	824.9	827.3	824.9	829.8	830.8	841.0	842.7	855.9	867.3
20°	792.8	789.8	783.6	783.6	783.6	789.8	792.8	798.5	805.3	812.9	822.7
22.5°	757.0	756.8	750.2	752.2	750.2	756.8	757.0	762.2	768.5	777.1	785.3
25°	715.0	710.9	707.8	709.3	707.8	710.9	715.0	715.6	722.8	728.4	733.6
27.5°	675.2	673.0	672.8	668.5	672.8	673.0	675.2	676.6	680.6	684.0	688.8
30°	652.2	647.0	648.0	645.4	648.0	647.0	652.2	652.7	654.7	656.8	662.5
32.5°	625.7	623.9	622.9	620.7	622.9	623.9	625.7	626.6	630.8	632.9	637.3
35°	589.8	590.3	587.7	588.8	587.7	590.3	589.8	590.8	591.3	593.4	597.4
37.5°	558.4	560.0	558.8	559.1	558.8	560.0	558.4	558.9	559.4	559.7	560.9
40°	537.7	537.7	537.7	539.3	537.7	537.7	537.7	536.1	536.6	536.1	536.1
42.5°	517.9	517.1	516.2	516.1	516.2	517.1	517.9	514.3	516.0	514.3	513.4
45°	484.0	485.6	486.1	483.5	486.1	485.6	484.0	483.0	481.5	481.0	480.5
47.5°	453.4	453.6	453.4	455.8	453.4	453.6	453.4	452.1	449.7	448.8	446.4
50°	432.0	431.0	432.0	431.0	432.0	431.0	432.0	429.4	427.9	425.3	423.2
52.5°	409.3	409.5	408.9	408.7	408.9	409.5	409.3	406.0	405.2	404.2	401.0
55°	373.8	374.8	374.3	374.3	374.3	374.8	373.8	371.7	371.1	368.1	365.0
57.5°	337.0	337.9	338.6	336.3	338.6	337.9	337.0	336.6	336.3	333.1	329.7
60°	311.3	314.0	313.5	312.5	313.5	314.0	311.3	311.8	310.3	308.3	306.2
62.5°	287.9	288.8	288.7	288.5	288.7	288.8	287.9	285.5	284.8	282.7	280.6
65°	251.6	252.6	251.1	252.6	251.1	252.6	251.6	250.0	246.4	245.4	243.3
67.5°	212.5	212.8	214.0	214.7	214.0	212.8	212.5	213.1	210.8	208.7	208.3
70°	188.1	187.6	189.1	190.8	189.1	187.6	188.1	187.1	185.6	184.0	182.0
72.5°	162.6	163.7	163.2	164.3	163.2	163.7	162.6	162.8	161.3	159.3	157.2
75°	125.2	126.8	126.3	127.8	126.3	126.8	125.2	126.3	125.2	123.2	121.2
77.5°	90.5	90.7	90.5	91.4	90.5	90.7	90.5	91.4	90.2	90.9	88.6
80°	69.1	68.1	67.1	69.1	67.1	68.1	69.1	69.1	67.6	69.1	67.6
82.5°	48.1	48.7	47.7	47.7	47.7	48.7	48.1	49.3	48.6	49.3	47.8
85°	22.2	21.6	20.6	20.6	20.6	21.6	22.2	22.2	23.7	22.7	22.7
87.5°	8.0	7.6	7.6	7.2	7.6	7.6	8.0	8.0	8.0	8.8	8.9
90°	19.2	19.3	19.5	19.6	19.5	19.3	19.2	19.1	19.1	19.4	19.7
92.5°	18.6	18.6	18.7	18.7	18.7	18.6	18.6	18.6	18.5	18.5	18.4
95°	36.5	36.3	36.0	35.7	36.0	36.3	36.5	36.8	36.9	36.9	36.9
97.5°	61.9	61.9	61.9	61.8	61.9	61.9	61.9	61.9	62.0	62.0	62.0
100°	79.3	79.2	79.1	78.9	79.1	79.2	79.3	79.4	79.5	79.5	79.5
102.5°	98.7	98.5	98.4	98.3	98.4	98.5	98.7	98.8	98.8	98.7	98.6
105°	127.8	127.8	127.8	127.8	127.8	127.8	127.8	127.8	127.7	127.4	127.2
107.5°	157.4	156.9	156.3	155.7	156.3	156.9	157.4	158.0	158.3	158.2	158.1
110°	178.5	178.1	177.7	177.3	177.7	178.1	178.5	178.9	179.0	179.0	179.0



TEST NUMBER: P331340-840

CATALOG NUMBER: SA2XXDIP-C675D530U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	198.9	198.6	198.3	198.1	198.3	198.6	198.9	199.2	199.5	199.9	200.2
115°	231.5	231.2	230.8	230.4	230.8	231.2	231.5	231.9	232.2	232.3	232.4
117.5°	262.3	261.9	261.5	261.1	261.5	261.9	262.3	262.7	263.0	263.3	263.6
120°	283.9	283.6	283.2	282.8	283.2	283.6	283.9	284.3	284.5	284.5	284.5
122.5°	304.8	304.5	304.3	304.0	304.3	304.5	304.8	305.1	305.4	305.7	306.0
125°	336.7	336.6	336.4	336.3	336.4	336.6	336.7	336.8	337.1	337.5	337.8
127.5°	367.0	366.6	366.2	365.8	366.2	366.6	367.0	367.4	367.9	368.3	368.8
130°	388.5	388.0	387.5	387.0	387.5	388.0	388.5	389.0	389.4	389.7	389.9
132.5°	408.5	408.1	407.7	407.3	407.7	408.1	408.5	408.9	409.4	409.9	410.5
135°	440.0	439.6	439.2	438.8	439.2	439.6	440.0	440.3	440.6	440.7	440.9
137.5°	468.9	468.4	467.9	467.4	467.9	468.4	468.9	469.4	469.7	469.8	469.9
140°	488.7	488.2	487.7	487.2	487.7	488.2	488.7	489.3	489.5	489.5	489.5
142.5°	506.6	506.1	505.6	505.1	505.6	506.1	506.6	507.2	507.4	507.3	507.2
145°	533.6	533.1	532.6	532.1	532.6	533.1	533.6	534.1	534.3	534.2	534.1
147.5°	557.6	557.1	556.6	556.1	556.6	557.1	557.6	558.2	558.3	558.0	557.6
150°	573.0	572.6	572.2	571.9	572.2	572.6	573.0	573.4	573.4	573.0	572.6
152.5°	588.0	587.5	587.0	586.6	587.0	587.5	588.0	588.5	588.5	588.0	587.5
155°	607.5	607.1	606.7	606.4	606.7	607.1	607.5	607.9	607.8	607.1	606.5
157.5°	625.3	624.7	624.1	623.4	624.1	624.7	625.3	625.9	625.8	624.9	624.0
160°	635.6	635.1	634.5	634.0	634.5	635.1	635.6	636.1	635.9	635.2	634.4
162.5°	645.1	644.5	643.9	643.3	643.9	644.5	645.1	645.7	645.6	644.7	643.8
165°	657.2	656.6	656.0	655.3	656.0	656.6	657.2	657.9	657.7	656.9	656.0
167.5°	667.2	666.6	665.9	665.2	665.9	666.6	667.2	667.9	667.8	666.9	666.0
170°	672.6	671.9	671.1	670.3	671.1	671.9	672.6	673.4	673.3	672.5	671.6
172.5°	676.8	676.0	675.2	674.5	675.2	676.0	676.8	677.5	677.4	676.6	675.7
175°	681.3	680.4	679.7	678.9	679.7	680.4	681.3	682.1	682.0	681.1	680.1
177.5°	682.9	682.3	681.7	681.1	681.7	682.3	682.9	683.5	683.5	682.9	682.3
180°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4



TEST NUMBER: P331340-840

CATALOG NUMBER: SA2XXDIP-C675D530U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1289.0	1293.5	1300.5	1308.0	1312.5	1321.2	1323.6	1327.8	1331.5	1340.2	1349.2
5°	1214.6	1221.7	1238.8	1248.1	1260.9	1275.9	1285.7	1296.1	1307.4	1327.0	1344.9
7.5°	1134.8	1146.8	1167.9	1185.3	1203.7	1225.1	1240.5	1260.9	1277.9	1305.5	1331.9
10°	1081.6	1098.5	1117.6	1138.2	1164.1	1186.7	1208.4	1234.2	1254.8	1287.8	1318.7
12.5°	1033.7	1036.3	1063.6	1086.3	1121.6	1149.6	1174.6	1207.8	1228.0	1267.2	1299.7
15°	950.1	965.5	990.3	1008.4	1050.2	1085.7	1120.7	1155.3	1178.5	1226.9	1269.7
17.5°	879.7	893.9	919.3	948.9	978.9	1014.2	1059.6	1096.0	1127.5	1183.0	1233.6
20°	835.2	852.6	878.5	908.9	935.1	973.8	1013.0	1054.7	1088.7	1151.1	1210.4
22.5°	797.2	811.0	831.8	861.8	890.6	925.9	968.9	1014.3	1050.1	1117.3	1177.4
25°	743.9	755.3	768.6	793.3	825.9	864.5	898.1	948.1	1000.1	1063.0	1135.7
27.5°	695.8	703.9	715.8	737.5	762.7	798.8	836.1	883.5	935.8	1004.1	1080.9
30°	666.6	671.8	683.6	701.7	726.4	754.7	792.3	837.7	891.3	960.4	1036.7
32.5°	641.0	645.7	653.5	670.7	692.2	716.4	750.3	795.7	846.8	914.6	999.2
35°	602.7	606.2	613.0	626.8	638.7	662.5	690.7	732.1	780.0	845.0	932.6
37.5°	564.4	569.4	573.5	579.4	594.6	610.2	634.8	669.6	716.7	782.2	865.8
40°	539.3	543.3	549.6	552.1	564.5	578.5	598.5	630.5	677.9	737.7	819.2
42.5°	513.6	517.8	521.5	524.5	535.2	547.4	565.5	593.0	635.0	693.2	773.8
45°	478.9	479.4	483.0	488.7	493.8	502.6	515.5	539.3	571.7	626.3	699.5
47.5°	443.6	444.2	444.8	447.4	453.0	461.0	469.5	488.8	517.9	561.5	632.8
50°	420.1	419.1	420.1	422.2	425.9	432.5	442.3	456.3	480.0	520.7	586.1
52.5°	397.5	397.3	396.7	397.5	400.2	404.9	411.8	423.6	444.8	482.3	540.0
55°	362.9	360.3	360.8	358.8	363.5	364.5	369.6	379.4	398.0	423.7	477.9
57.5°	326.1	324.0	321.6	321.0	320.6	323.5	327.6	335.3	349.5	372.1	416.1
60°	302.7	300.0	296.9	295.9	295.9	297.4	299.5	305.2	318.6	338.7	374.8
62.5°	278.7	275.7	273.9	271.1	270.3	271.9	274.0	278.0	287.6	306.5	337.7
65°	241.8	238.1	235.6	235.1	234.1	232.5	233.5	237.6	245.4	260.3	285.1
67.5°	204.8	201.4	200.8	197.7	196.3	196.5	196.3	199.9	204.5	217.3	235.8
70°	180.5	177.8	176.8	174.2	173.2	172.2	171.2	174.2	178.8	189.8	205.7
72.5°	155.7	153.5	151.3	149.1	149.3	148.2	148.0	149.9	153.7	163.7	176.0
75°	120.1	120.7	118.1	115.4	114.9	113.9	113.9	115.4	117.0	124.7	134.5
77.5°	87.2	86.7	84.5	83.7	83.2	82.1	83.2	84.2	85.0	90.2	97.5
80°	66.6	66.6	63.9	63.9	63.4	61.9	63.4	62.4	64.4	69.6	74.7
82.5°	47.6	46.7	46.6	45.7	45.6	44.5	45.2	46.3	47.2	50.6	53.7
85°	23.2	23.2	22.7	22.2	22.7	22.2	22.7	23.2	23.7	25.2	27.9
87.5°	8.9	9.4	9.3	9.1	8.5	8.4	8.4	8.5	9.0	9.1	9.2
90°	19.9	20.2	17.4	14.5	11.7	8.9	6.8	5.2	3.6	2.1	0.6
92.5°	18.4	18.3	17.7	17.0	16.4	15.7	14.7	13.6	12.5	11.4	10.3
95°	36.9	36.9	36.6	36.4	36.1	35.9	35.0	33.8	32.5	31.2	30.0
97.5°	62.0	62.0	61.5	61.0	60.5	60.0	59.2	58.1	57.0	55.8	54.7
100°	79.5	79.5	79.1	78.7	78.4	78.0	77.3	76.2	75.1	74.1	73.1
102.5°	98.5	98.4	97.9	97.4	96.9	96.4	95.7	94.9	94.1	93.3	92.5
105°	126.9	126.7	126.4	126.1	125.9	125.6	125.3	124.9	124.6	124.2	123.8
107.5°	158.0	157.9	157.9	157.9	157.9	157.9	157.6	157.0	156.5	155.9	155.4
110°	179.0	179.0	179.0	179.0	179.0	179.0	178.7	177.9	177.1	176.4	175.6



TEST NUMBER: P331340-840

CATALOG NUMBER: SA2XXDIP-C675D530U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	200.5	200.8	200.9	201.0	201.1	201.2	200.9	200.1	199.2	198.5	197.7
115°	232.6	232.7	232.9	233.2	233.4	233.7	233.4	232.7	231.9	231.2	230.4
117.5°	263.9	264.2	264.9	265.6	266.4	267.1	266.9	265.9	264.9	263.9	262.9
120°	284.5	284.5	285.5	286.5	287.5	288.6	288.6	287.5	286.5	285.5	284.5
122.5°	306.3	306.6	307.3	308.0	308.7	309.4	309.2	308.0	306.8	305.5	304.3
125°	338.2	338.6	339.0	339.4	339.7	340.1	339.7	338.6	337.5	336.3	335.2
127.5°	369.2	369.7	370.2	370.6	371.1	371.5	371.0	369.6	368.1	366.7	365.2
130°	390.2	390.4	390.7	390.9	391.2	391.4	390.7	389.1	387.4	385.8	384.2
132.5°	411.1	411.6	411.6	411.5	411.5	411.4	410.7	409.4	408.0	406.7	405.3
135°	441.0	441.1	440.9	440.6	440.3	440.1	439.3	437.9	436.5	435.0	433.6
137.5°	470.0	470.1	469.8	469.5	469.2	468.8	468.1	467.0	465.7	464.6	463.4
140°	489.5	489.5	488.9	488.2	487.6	487.0	486.0	484.8	483.7	482.6	481.4
142.5°	507.1	507.0	506.5	506.1	505.7	505.2	504.4	503.3	502.2	501.0	499.9
145°	533.9	533.8	533.1	532.3	531.5	530.8	530.0	529.1	528.2	527.3	526.3
147.5°	557.3	557.1	556.5	556.0	555.5	555.0	554.2	553.2	552.1	551.0	550.0
150°	572.2	571.9	571.3	570.8	570.3	569.8	569.2	568.4	567.6	566.8	566.1
152.5°	587.0	586.6	585.9	585.3	584.7	584.1	583.4	582.7	581.9	581.2	580.4
155°	605.9	605.2	604.8	604.5	604.1	603.7	603.3	602.9	602.6	602.2	601.8
157.5°	623.2	622.3	622.1	621.9	621.6	621.4	621.2	620.9	620.6	620.4	620.1
160°	633.7	632.9	632.8	632.6	632.5	632.4	632.2	631.9	631.7	631.4	631.2
162.5°	643.0	642.1	642.0	641.9	641.7	641.6	641.5	641.5	641.4	641.4	641.3
165°	655.1	654.2	654.2	654.2	654.2	654.2	654.3	654.4	654.5	654.6	654.8
167.5°	665.1	664.2	664.2	664.3	664.3	664.3	664.5	664.9	665.3	665.7	666.0
170°	670.7	669.7	669.8	669.9	670.1	670.2	670.6	670.9	671.3	671.7	672.1
172.5°	674.8	673.9	674.0	674.2	674.3	674.4	674.7	675.0	675.4	675.8	676.2
175°	679.2	678.3	678.6	678.9	679.1	679.4	679.7	680.1	680.4	680.9	681.3
177.5°	681.7	681.1	681.3	681.5	681.7	681.9	682.1	682.4	682.7	683.0	683.4
180°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4



TEST NUMBER: P331340-840

CATALOG NUMBER: SA2XXDIP-C675D530U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1348.4	1350.5	1357.1	1363.6	1371.1	1373.1	1376.4	1373.5	1372.7	1380.6	1386.3
5°	1352.2	1361.5	1379.6	1396.0	1410.0	1419.8	1430.1	1434.2	1441.9	1452.7	1466.1
7.5°	1347.9	1365.9	1394.3	1418.3	1444.5	1463.4	1478.1	1490.7	1505.9	1526.4	1548.8
10°	1342.9	1367.2	1401.7	1431.1	1463.0	1487.2	1507.4	1526.9	1549.6	1578.0	1607.4
12.5°	1333.8	1362.6	1405.8	1440.6	1481.6	1505.4	1532.6	1574.8	1599.1	1638.6	1680.0
15°	1315.7	1347.6	1407.9	1450.7	1497.0	1542.5	1592.5	1632.6	1672.8	1696.1	1754.3
17.5°	1288.5	1335.4	1402.2	1452.1	1511.1	1582.6	1638.7	1684.3	1730.7	1768.4	1797.6
20°	1266.7	1317.7	1393.9	1453.8	1523.9	1600.6	1665.2	1711.5	1751.7	1783.2	1801.2
22.5°	1239.0	1303.2	1377.5	1447.5	1537.1	1613.1	1680.8	1717.3	1750.9	1766.3	1773.2
25°	1195.5	1272.8	1356.9	1442.4	1543.5	1623.9	1685.8	1707.9	1717.7	1702.7	1678.0
27.5°	1148.6	1234.8	1333.0	1432.7	1539.5	1616.9	1661.2	1657.7	1641.1	1592.8	1554.1
30°	1113.5	1208.4	1314.0	1422.8	1530.0	1605.3	1631.1	1605.3	1567.7	1513.6	1458.4
32.5°	1076.8	1175.0	1293.8	1408.8	1512.8	1578.9	1584.5	1540.1	1481.9	1420.4	1351.6
35°	1021.3	1127.4	1255.8	1377.5	1475.9	1517.7	1493.0	1414.6	1345.5	1261.5	1167.6
37.5°	958.5	1075.7	1204.5	1331.6	1420.8	1431.7	1370.3	1287.8	1190.3	1091.6	981.2
40°	911.4	1035.7	1168.2	1296.6	1375.4	1364.0	1285.7	1195.0	1078.9	958.4	855.8
42.5°	869.4	993.6	1128.5	1254.5	1317.7	1286.6	1195.0	1083.6	959.0	845.4	751.4
45°	796.5	924.3	1062.5	1184.2	1220.2	1164.1	1042.9	919.2	796.5	701.7	627.4
47.5°	725.8	852.1	989.0	1095.9	1108.6	1033.1	900.7	773.4	667.9	590.7	538.3
50°	673.8	800.6	936.1	1031.6	1027.4	936.1	800.1	678.9	590.8	528.4	493.3
52.5°	627.2	747.0	877.2	963.9	942.1	842.5	712.7	605.1	532.6	483.8	452.1
55°	554.7	665.5	789.2	858.9	818.6	708.3	598.5	511.9	458.3	421.7	397.0
57.5°	482.7	586.6	692.6	735.5	691.1	589.2	497.6	434.7	394.5	367.4	351.2
60°	438.2	529.0	623.3	660.4	607.2	516.5	444.3	388.2	355.7	333.6	319.1
62.5°	393.6	474.9	563.9	584.1	535.5	458.8	394.9	348.2	321.4	301.7	288.2
65°	333.1	399.5	467.1	480.5	435.7	376.4	325.8	295.4	271.7	257.2	246.4
67.5°	273.2	326.5	374.4	385.2	345.9	304.8	268.3	241.8	225.7	213.7	204.6
70°	237.6	279.9	319.1	327.9	296.4	259.8	232.0	210.9	196.4	186.1	177.3
72.5°	200.2	235.4	267.9	273.9	248.1	220.3	197.3	180.8	167.9	161.4	153.0
75°	153.1	173.7	198.9	200.6	183.5	166.5	149.0	138.1	131.5	123.2	119.1
77.5°	108.1	124.2	138.7	141.5	131.4	119.8	110.0	101.5	95.7	92.0	88.2
80°	82.5	95.3	101.6	105.1	98.0	89.7	84.0	78.4	74.7	72.2	69.6
82.5°	59.0	67.0	72.7	75.4	71.6	66.7	60.9	57.8	54.9	52.8	51.9
85°	29.9	33.5	37.2	38.2	37.2	35.0	31.9	31.9	30.4	29.9	29.9
87.5°	10.7	12.7	13.0	14.5	14.1	14.7	15.2	15.5	15.6	15.1	14.6
90°	2.1	3.6	5.2	6.8	8.9	11.7	14.5	17.4	20.2	19.9	19.7
92.5°	11.4	12.5	13.6	14.7	15.7	16.4	17.0	17.7	18.3	18.4	18.4
95°	31.2	32.5	33.8	35.0	35.9	36.1	36.4	36.6	36.9	36.9	36.9
97.5°	55.8	57.0	58.1	59.2	60.0	60.5	61.0	61.5	62.0	62.0	62.0
100°	74.1	75.1	76.2	77.3	78.0	78.4	78.7	79.1	79.5	79.5	79.5
102.5°	93.3	94.1	94.9	95.7	96.4	96.9	97.4	97.9	98.4	98.5	98.6
105°	124.2	124.6	124.9	125.3	125.6	125.9	126.1	126.4	126.7	126.9	127.2
107.5°	155.9	156.5	157.0	157.6	157.9	157.9	157.9	157.9	157.9	158.0	158.1
110°	176.4	177.1	177.9	178.7	179.0	179.0	179.0	179.0	179.0	179.0	179.0





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	198.5	199.2	200.1	200.9	201.2	201.1	201.0	200.9	200.8	200.5	200.2
115°	231.2	231.9	232.7	233.4	233.7	233.4	233.2	232.9	232.7	232.6	232.4
117.5°	263.9	264.9	265.9	266.9	267.1	266.4	265.6	264.9	264.2	263.9	263.6
120°	285.5	286.5	287.5	288.6	288.6	287.5	286.5	285.5	284.5	284.5	284.5
122.5°	305.5	306.8	308.0	309.2	309.4	308.7	308.0	307.3	306.6	306.3	306.0
125°	336.3	337.5	338.6	339.7	340.1	339.7	339.4	339.0	338.6	338.2	337.8
127.5°	366.7	368.1	369.6	371.0	371.5	371.1	370.6	370.2	369.7	369.2	368.8
130°	385.8	387.4	389.1	390.7	391.4	391.2	390.9	390.7	390.4	390.2	389.9
132.5°	406.7	408.0	409.4	410.7	411.4	411.5	411.5	411.6	411.6	411.1	410.5
135°	435.0	436.5	437.9	439.3	440.1	440.3	440.6	440.9	441.1	441.0	440.9
137.5°	464.6	465.7	467.0	468.1	468.8	469.2	469.5	469.8	470.1	470.0	469.9
140°	482.6	483.7	484.8	486.0	487.0	487.6	488.2	488.9	489.5	489.5	489.5
142.5°	501.0	502.2	503.3	504.4	505.2	505.7	506.1	506.5	507.0	507.1	507.2
145°	527.3	528.2	529.1	530.0	530.8	531.5	532.3	533.1	533.8	533.9	534.1
147.5°	551.0	552.1	553.2	554.2	555.0	555.5	556.0	556.5	557.1	557.3	557.6
150°	566.8	567.6	568.4	569.2	569.8	570.3	570.8	571.3	571.9	572.2	572.6
152.5°	581.2	581.9	582.7	583.4	584.1	584.7	585.3	585.9	586.6	587.0	587.5
155°	602.2	602.6	602.9	603.3	603.7	604.1	604.5	604.8	605.2	605.9	606.5
157.5°	620.4	620.6	620.9	621.2	621.4	621.6	621.9	622.1	622.3	623.2	624.0
160°	631.4	631.7	631.9	632.2	632.4	632.5	632.6	632.8	632.9	633.7	634.4
162.5°	641.4	641.4	641.5	641.5	641.6	641.7	641.9	642.0	642.1	643.0	643.8
165°	654.6	654.5	654.4	654.3	654.2	654.2	654.2	654.2	654.2	655.1	656.0
167.5°	665.7	665.3	664.9	664.5	664.3	664.3	664.3	664.2	664.2	665.1	666.0
170°	671.7	671.3	670.9	670.6	670.2	670.1	669.9	669.8	669.7	670.7	671.6
172.5°	675.8	675.4	675.0	674.7	674.4	674.3	674.2	674.0	673.9	674.8	675.7
175°	680.9	680.4	680.1	679.7	679.4	679.1	678.9	678.6	678.3	679.2	680.1
177.5°	683.0	682.7	682.4	682.1	681.9	681.7	681.5	681.3	681.1	681.7	682.3
180°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1391.3	1397.0	1397.0	1397.9	1404.5	1403.6	1403.2
5°	1480.6	1489.3	1490.4	1499.6	1505.8	1503.8	1498.1
7.5°	1564.8	1581.1	1593.5	1600.3	1608.5	1613.6	1611.3
10°	1631.6	1655.4	1669.8	1679.6	1691.4	1700.2	1697.1
12.5°	1692.2	1720.5	1740.3	1757.1	1758.7	1769.9	1762.2
15°	1786.8	1816.6	1819.8	1832.2	1842.0	1840.9	1841.4
17.5°	1818.1	1827.7	1829.6	1829.9	1830.0	1826.3	1818.6
20°	1806.9	1803.3	1794.5	1787.9	1775.9	1774.4	1764.1
22.5°	1754.1	1742.6	1720.7	1706.2	1687.7	1682.8	1680.0
25°	1650.2	1624.9	1589.8	1556.3	1547.1	1529.0	1534.2
27.5°	1507.6	1468.2	1430.3	1403.0	1378.4	1351.4	1359.1
30°	1407.3	1363.0	1309.4	1268.2	1241.9	1216.1	1211.4
32.5°	1287.8	1222.8	1163.0	1126.7	1086.4	1070.2	1052.3
35°	1081.6	1018.1	958.9	907.9	878.5	855.8	835.2
37.5°	896.1	823.0	775.3	733.9	712.7	699.6	703.0
40°	781.0	717.1	682.1	650.6	631.0	621.7	623.8
42.5°	687.8	640.0	611.1	589.6	575.7	570.6	569.4
45°	582.0	555.2	531.5	519.2	512.4	506.8	503.1
47.5°	509.9	488.0	474.6	467.3	461.4	455.7	455.6
50°	466.6	452.1	442.8	435.0	430.5	426.4	429.9
52.5°	433.5	420.3	411.1	404.1	402.4	398.7	398.6
55°	384.6	374.3	367.6	361.3	358.3	356.2	353.7
57.5°	340.0	330.2	324.1	320.1	314.3	312.1	311.3
60°	308.3	300.5	294.4	289.2	286.6	282.5	282.5
62.5°	279.0	271.2	265.5	261.6	257.3	255.7	256.1
65°	236.6	230.5	224.8	220.7	219.6	216.5	217.5
67.5°	197.6	193.5	187.5	185.3	183.3	181.7	180.5
70°	171.7	167.5	164.4	161.4	159.8	159.8	159.8
72.5°	149.8	144.8	143.0	139.1	140.0	138.4	136.7
75°	116.0	112.9	111.4	109.8	107.2	107.2	107.2
77.5°	85.3	84.4	82.6	80.9	80.3	79.8	80.0
80°	65.9	65.4	64.4	64.4	63.4	62.9	61.9
82.5°	50.7	49.4	48.8	48.4	48.2	48.1	47.9
85°	28.9	27.9	27.9	28.4	27.4	27.4	27.9
87.5°	15.0	14.9	14.5	14.5	15.0	14.6	14.6
90°	19.4	19.1	19.1	19.2	19.3	19.5	19.6
92.5°	18.5	18.5	18.6	18.6	18.6	18.7	18.7
95°	36.9	36.9	36.8	36.5	36.3	36.0	35.7
97.5°	62.0	62.0	61.9	61.9	61.9	61.9	61.8
100°	79.5	79.5	79.4	79.3	79.2	79.1	78.9
102.5°	98.7	98.8	98.8	98.7	98.5	98.4	98.3
105°	127.4	127.7	127.8	127.8	127.8	127.8	127.8
107.5°	158.2	158.3	158.0	157.4	156.9	156.3	155.7
110°	179.0	179.0	178.9	178.5	178.1	177.7	177.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	199.9	199.5	199.2	198.9	198.6	198.3	198.1
115°	232.3	232.2	231.9	231.5	231.2	230.8	230.4
117.5°	263.3	263.0	262.7	262.3	261.9	261.5	261.1
120°	284.5	284.5	284.3	283.9	283.6	283.2	282.8
122.5°	305.7	305.4	305.1	304.8	304.5	304.3	304.0
125°	337.5	337.1	336.8	336.7	336.6	336.4	336.3
127.5°	368.3	367.9	367.4	367.0	366.6	366.2	365.8
130°	389.7	389.4	389.0	388.5	388.0	387.5	387.0
132.5°	409.9	409.4	408.9	408.5	408.1	407.7	407.3
135°	440.7	440.6	440.3	440.0	439.6	439.2	438.8
137.5°	469.8	469.7	469.4	468.9	468.4	467.9	467.4
140°	489.5	489.5	489.3	488.7	488.2	487.7	487.2
142.5°	507.3	507.4	507.2	506.6	506.1	505.6	505.1
145°	534.2	534.3	534.1	533.6	533.1	532.6	532.1
147.5°	558.0	558.3	558.2	557.6	557.1	556.6	556.1
150°	573.0	573.4	573.4	573.0	572.6	572.2	571.9
152.5°	588.0	588.5	588.5	588.0	587.5	587.0	586.6
155°	607.1	607.8	607.9	607.5	607.1	606.7	606.4
157.5°	624.9	625.8	625.9	625.3	624.7	624.1	623.4
160°	635.2	635.9	636.1	635.6	635.1	634.5	634.0
162.5°	644.7	645.6	645.7	645.1	644.5	643.9	643.3
165°	656.9	657.7	657.9	657.2	656.6	656.0	655.3
167.5°	666.9	667.8	667.9	667.2	666.6	665.9	665.2
170°	672.5	673.3	673.4	672.6	671.9	671.1	670.3
172.5°	676.6	677.4	677.5	676.8	676.0	675.2	674.5
175°	681.1	682.0	682.1	681.3	680.4	679.7	678.9
177.5°	682.9	683.5	683.5	682.9	682.3	681.7	681.1
180°	682.4	682.4	682.4	682.4	682.4	682.4	682.4

(END OF REPORT)