

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: P331341-840

Luminaire Tested: **SA2XXDIP-C675D530U840-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331341-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C675D530U840-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 530 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

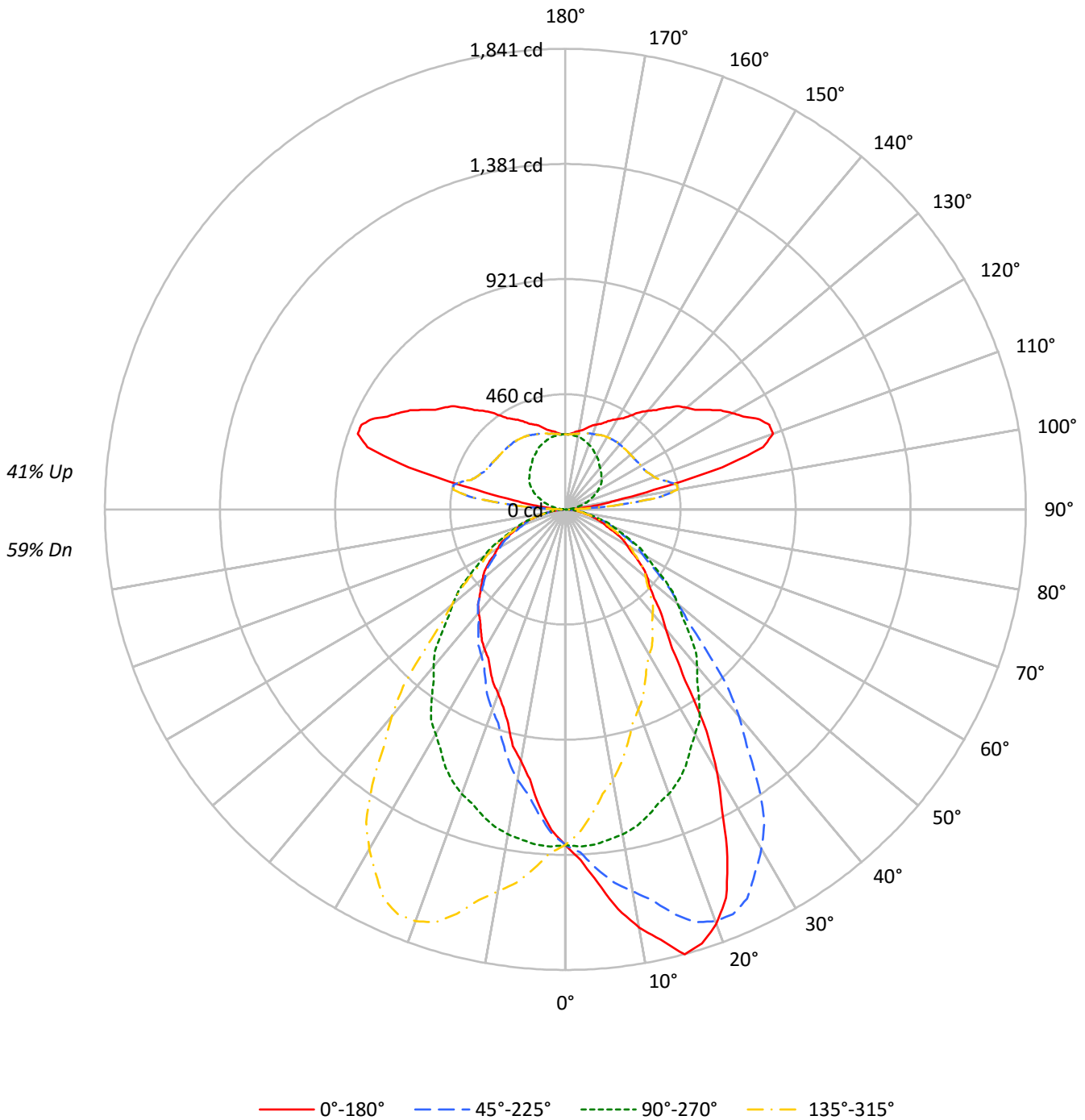
Lumens per Lamp: N/A
Luminaire Lumens: 5046.0 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	96	92	89	93	90	87	84	78	76	74	67	66	64	58	56	55	51
2	92	85	79	74	85	79	74	70	69	65	62	60	57	54	51	49	47	43
3	84	75	68	62	78	70	64	59	62	57	53	53	50	47	46	43	41	37
4	77	67	59	53	72	63	56	50	55	50	45	48	44	41	41	38	36	33
5	71	60	52	46	66	56	49	44	50	44	40	43	39	36	38	34	32	29
6	66	54	46	40	61	51	44	38	45	39	35	40	35	32	34	31	28	25
7	61	49	41	36	57	46	39	34	41	35	31	36	32	28	32	28	25	23
8	57	45	37	32	53	42	35	30	38	32	28	33	29	25	29	26	23	21
9	53	41	33	28	50	39	32	27	35	29	25	31	26	23	27	23	21	19
10	50	38	31	26	46	36	29	25	32	27	23	28	24	21	25	22	19	17

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	2.5
10°-20°	371.4	7.4
20°-30°	539.0	10.7
30°-40°	568.8	11.3
40°-50°	503.6	10.0
50°-60°	401.9	8.0
60°-70°	273.2	5.4
70°-80°	140.0	2.8
80°-90°	36.5	0.7
90°-100°	119.7	2.4
100°-110°	406.3	8.1
110°-120°	431.7	8.6
120°-130°	355.4	7.0
130°-140°	285.4	5.7
140°-150°	215.7	4.3
150°-160°	151.6	3.0
160°-170°	89.2	1.8
170°-180°	29.0	0.6
0°-30°	1038.1	20.6
0°-40°	1606.9	31.8
0°-60°	2512.4	49.8
0°-90°	2962.1	58.7
90°-120°	957.8	19.0
90°-150°	1814.1	36.0
90°-180°	2084.0	41.3
0°-180°	5046.0	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°	19	1	19	1	19	12
95°	66	20	66	20	66	85
105°	649	70	649	70	649	628
115°	854	124	854	124	854	836
125°	693	173	693	173	693	626
135°	574	203	574	203	574	446
145°	458	232	458	232	458	291
155°	385	263	385	263	385	180
165°	338	287	338	287	338	97
175°	305	299	305	299	305	30
180°	299	299	299	299	299	



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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°	14.5	14.5	14.9	14.5	14.5	14.8	14.5	14.4	14.9	15.5	15.8
90°	19.0	19.0	19.0	19.0	19.0	18.4	17.3	18.4	19.0	19.6	19.0
92.5°	31.9	32.8	32.4	34.2	34.6	38.3	43.1	50.2	63.2	74.8	73.8
95°	65.6	65.0	66.9	71.4	78.9	91.6	115.7	150.9	197.5	225.8	199.9
97.5°	129.3	134.1	142.5	156.6	184.2	225.8	288.1	352.1	404.2	385.4	290.2
100°	206.2	216.5	233.3	258.0	305.8	375.5	454.4	525.8	537.9	454.9	313.3
102.5°	362.8	376.9	397.7	440.0	491.9	565.8	623.5	639.6	587.6	457.3	304.6
105°	649.0	657.1	681.9	717.6	753.3	772.3	764.8	699.7	580.0	426.8	287.4
107.5°	829.1	839.8	844.8	846.7	842.2	814.4	754.5	656.4	529.4	394.0	278.8
110°	883.4	884.0	878.9	867.9	843.1	795.9	722.2	619.1	497.6	378.4	277.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	882.5	879.4	869.6	851.3	816.9	762.8	684.0	585.0	475.4	368.2	277.5
115°	854.0	848.9	833.9	807.4	766.6	707.2	631.8	543.1	448.1	357.1	279.9
117.5°	803.2	798.9	783.2	755.2	713.5	657.8	589.4	511.5	430.8	351.6	284.1
120°	770.5	764.8	748.1	721.0	680.8	628.3	567.2	495.8	421.6	348.4	286.8
122.5°	736.5	731.6	716.8	690.1	654.0	606.6	548.9	483.4	413.7	346.6	290.0
125°	692.9	688.2	673.8	652.0	618.5	575.3	524.6	465.3	402.5	343.3	294.9
127.5°	654.6	650.9	638.4	617.9	588.9	549.0	501.2	447.5	392.2	341.3	299.8
130°	632.9	628.3	616.8	597.2	569.0	531.0	485.5	436.0	385.3	340.3	303.5
132.5°	610.4	606.2	595.6	576.0	548.3	512.6	470.8	425.0	379.7	339.9	307.2
135°	574.2	571.9	561.5	542.5	517.8	485.5	447.5	409.5	372.0	339.2	311.5
137.5°	538.7	535.2	526.1	509.8	487.3	459.1	429.0	397.2	366.6	339.1	315.5
140°	514.3	510.8	502.2	487.3	468.8	443.4	417.0	389.3	363.5	338.6	317.3
142.5°	489.9	489.2	481.5	467.9	450.4	429.2	406.4	382.8	360.2	338.6	318.7
145°	458.4	456.7	450.9	441.1	427.4	410.6	392.7	373.8	355.9	337.5	320.2
147.5°	432.0	431.0	427.1	419.3	407.9	395.7	381.7	366.8	351.5	335.4	320.6
150°	416.4	415.8	412.3	405.5	396.8	386.5	374.4	361.6	347.9	334.1	320.2
152.5°	403.0	402.9	400.4	394.4	387.6	378.6	368.4	356.6	344.7	331.7	319.3
155°	385.3	386.5	384.2	380.1	373.8	367.4	358.8	349.6	338.6	327.7	317.9
157.5°	370.2	370.2	369.2	365.8	361.3	356.4	349.1	341.4	333.0	323.6	315.3
160°	360.5	360.5	359.9	357.1	353.0	349.0	342.6	336.3	328.8	320.8	313.9
162.5°	351.3	351.7	351.2	349.2	345.2	342.1	336.7	331.2	325.2	318.5	312.5
165°	338.1	338.6	338.6	336.3	334.1	331.7	327.7	323.7	319.0	313.9	309.8
167.5°	325.9	326.6	326.7	325.4	324.4	322.2	319.5	316.4	313.1	309.8	307.2
170°	318.5	319.6	320.2	318.5	317.9	316.8	314.5	312.8	309.8	307.5	305.8
172.5°	312.5	313.2	313.8	313.0	312.4	311.6	309.8	308.6	306.6	304.8	304.0
175°	304.7	305.8	306.4	305.8	305.8	305.3	304.7	304.1	302.4	301.7	301.2
177.5°	299.9	300.8	301.3	301.3	301.3	301.3	300.8	300.8	299.9	299.4	299.9
180°	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4



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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°	15.5	14.6	14.1	14.5	13.1	12.9	10.8	9.2	9.1	9.2	8.6
90°	15.6	11.5	8.7	6.9	5.8	4.6	2.3	0.6	2.3	4.6	5.8
92.5°	57.5	39.2	26.2	20.7	16.9	14.2	10.1	7.1	10.1	14.2	16.9
95°	133.0	82.9	56.5	42.6	33.4	28.2	22.4	20.2	22.4	28.2	33.4
97.5°	179.3	109.5	76.1	60.5	49.9	42.0	36.0	32.8	36.0	42.0	49.9
100°	188.9	118.7	88.2	72.0	60.5	51.3	46.0	44.3	46.0	51.3	60.5
102.5°	189.3	126.9	98.7	82.6	70.6	61.4	56.2	54.9	56.2	61.4	70.6
105°	192.4	141.1	114.0	97.9	85.2	76.5	72.6	70.3	72.6	76.5	85.2
107.5°	200.3	155.6	129.4	113.1	100.6	92.6	88.7	86.8	88.7	92.6	100.6
110°	206.7	165.3	140.0	123.2	111.2	103.7	100.2	97.9	100.2	103.7	111.2



TEST NUMBER: P331341-840

CATALOG NUMBER: SA2XXDIP-C675D530U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	213.7	174.5	150.1	132.9	121.3	114.2	110.4	108.1	110.4	114.2	121.3
115°	224.0	188.9	164.1	148.6	137.0	130.2	126.7	123.8	126.7	130.2	137.0
117.5°	235.1	202.2	179.3	163.1	152.1	145.9	142.5	140.2	142.5	145.9	152.1
120°	242.5	211.4	188.9	172.8	161.3	156.0	152.6	150.3	152.6	156.0	161.3
122.5°	248.9	220.2	199.0	182.5	171.0	165.3	161.9	160.0	161.9	165.3	171.0
125°	259.1	233.3	212.5	196.4	184.9	177.9	174.5	172.8	174.5	177.9	184.9
127.5°	268.7	245.5	225.3	208.7	197.6	190.1	185.2	182.9	185.2	190.1	197.6
130°	274.7	252.9	232.7	216.5	205.0	196.9	191.2	188.9	191.2	196.9	205.0
132.5°	280.7	259.2	240.0	223.9	212.0	203.4	197.2	194.4	197.2	203.4	212.0
135°	288.5	268.4	249.9	233.8	220.6	212.0	205.0	202.7	205.0	212.0	220.6
137.5°	294.5	275.8	257.5	242.6	229.4	220.3	213.3	210.6	213.3	220.3	229.4
140°	297.7	279.9	262.7	247.6	235.0	225.8	218.8	216.5	218.8	225.8	235.0
142.5°	300.5	283.2	266.3	252.3	240.0	230.9	224.4	222.6	224.4	230.9	240.0
145°	304.1	287.9	272.4	259.7	248.2	239.5	233.8	231.6	233.8	239.5	248.2
147.5°	306.1	291.9	277.2	266.0	256.4	248.4	242.9	241.2	242.9	248.4	256.4
150°	307.0	293.7	280.4	270.1	261.5	254.0	249.3	247.6	249.3	254.0	261.5
152.5°	307.4	295.6	283.7	274.3	266.1	259.5	254.9	254.1	254.9	259.5	266.1
155°	308.1	298.3	288.5	279.9	273.6	267.2	263.8	263.2	263.8	267.2	273.6
157.5°	308.1	300.2	292.0	284.8	279.6	274.2	271.4	270.7	271.4	274.2	279.6
160°	308.1	301.2	294.3	287.9	283.4	278.7	276.4	275.9	276.4	278.7	283.4
162.5°	307.6	301.6	295.7	290.7	286.6	282.9	280.5	280.9	280.5	282.9	286.6
165°	306.4	302.4	297.2	293.7	290.8	287.4	286.2	286.8	286.2	287.4	290.8
167.5°	305.6	302.3	298.4	296.3	294.2	292.0	290.9	291.6	290.9	292.0	294.2
170°	304.7	301.7	298.9	297.2	296.0	294.3	293.7	294.9	293.7	294.3	296.0
172.5°	303.3	301.3	299.3	298.1	297.4	295.7	296.0	296.7	296.0	295.7	297.4
175°	301.7	300.6	299.4	298.9	298.9	297.7	298.3	298.9	298.3	297.7	298.9
177.5°	300.8	299.9	299.4	299.4	299.4	298.5	299.0	299.9	299.0	298.5	299.4
180°	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4



TEST NUMBER: P331341-840

CATALOG NUMBER: SA2XXDIP-C675D530U840-4F0-1E-UDD-A4

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	8.3	8.5	9.3	9.6	9.3	8.8	8.7	8.4	7.8	7.9
90°	6.9	8.7	11.5	15.6	19.0	19.6	19.0	18.4	17.3	18.4	19.0
92.5°	20.7	26.2	39.2	57.5	73.8	74.8	63.2	50.2	43.1	38.3	34.6
95°	42.6	56.5	82.9	133.0	199.9	225.8	197.5	150.9	115.7	91.6	78.9
97.5°	60.5	76.1	109.5	179.3	290.2	385.4	404.2	352.1	288.1	225.8	184.2
100°	72.0	88.2	118.7	188.9	313.3	454.9	537.9	525.8	454.4	375.5	305.8
102.5°	82.6	98.7	126.9	189.3	304.6	457.3	587.6	639.6	623.5	565.8	491.9
105°	97.9	114.0	141.1	192.4	287.4	426.8	580.0	699.7	764.8	772.3	753.3
107.5°	113.1	129.4	155.6	200.3	278.8	394.0	529.4	656.4	754.5	814.4	842.2
110°	123.2	140.0	165.3	206.7	277.0	378.4	497.6	619.1	722.2	795.9	843.1



TEST NUMBER: P331341-840

CATALOG NUMBER: SA2XXDIP-C675D530U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	132.9	150.1	174.5	213.7	277.5	368.2	475.4	585.0	684.0	762.8	816.9
115°	148.6	164.1	188.9	224.0	279.9	357.1	448.1	543.1	631.8	707.2	766.6
117.5°	163.1	179.3	202.2	235.1	284.1	351.6	430.8	511.5	589.4	657.8	713.5
120°	172.8	188.9	211.4	242.5	286.8	348.4	421.6	495.8	567.2	628.3	680.8
122.5°	182.5	199.0	220.2	248.9	290.0	346.6	413.7	483.4	548.9	606.6	654.0
125°	196.4	212.5	233.3	259.1	294.9	343.3	402.5	465.3	524.6	575.3	618.5
127.5°	208.7	225.3	245.5	268.7	299.8	341.3	392.2	447.5	501.2	549.0	588.9
130°	216.5	232.7	252.9	274.7	303.5	340.3	385.3	436.0	485.5	531.0	569.0
132.5°	223.9	240.0	259.2	280.7	307.2	339.9	379.7	425.0	470.8	512.6	548.3
135°	233.8	249.9	268.4	288.5	311.5	339.2	372.0	409.5	447.5	485.5	517.8
137.5°	242.6	257.5	275.8	294.5	315.5	339.1	366.6	397.2	429.0	459.1	487.3
140°	247.6	262.7	279.9	297.7	317.3	338.6	363.5	389.3	417.0	443.4	468.8
142.5°	252.3	266.3	283.2	300.5	318.7	338.6	360.2	382.8	406.4	429.2	450.4
145°	259.7	272.4	287.9	304.1	320.2	337.5	355.9	373.8	392.7	410.6	427.4
147.5°	266.0	277.2	291.9	306.1	320.6	335.4	351.5	366.8	381.7	395.7	407.9
150°	270.1	280.4	293.7	307.0	320.2	334.1	347.9	361.6	374.4	386.5	396.8
152.5°	274.3	283.7	295.6	307.4	319.3	331.7	344.7	356.6	368.4	378.6	387.6
155°	279.9	288.5	298.3	308.1	317.9	327.7	338.6	349.6	358.8	367.4	373.8
157.5°	284.8	292.0	300.2	308.1	315.3	323.6	333.0	341.4	349.1	356.4	361.3
160°	287.9	294.3	301.2	308.1	313.9	320.8	328.8	336.3	342.6	349.0	353.0
162.5°	290.7	295.7	301.6	307.6	312.5	318.5	325.2	331.2	336.7	342.1	345.2
165°	293.7	297.2	302.4	306.4	309.8	313.9	319.0	323.7	327.7	331.7	334.1
167.5°	296.3	298.4	302.3	305.6	307.2	309.8	313.1	316.4	319.5	322.2	324.4
170°	297.2	298.9	301.7	304.7	305.8	307.5	309.8	312.8	314.5	316.8	317.9
172.5°	298.1	299.3	301.3	303.3	304.0	304.8	306.6	308.6	309.8	311.6	312.4
175°	298.9	299.4	300.6	301.7	301.2	301.7	302.4	304.1	304.7	305.3	305.8
177.5°	299.4	299.4	299.9	300.8	299.9	299.4	299.9	300.8	300.8	301.3	301.3
180°	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4



TEST NUMBER: P331341-840
 CATALOG NUMBER: SA2XXDIP-C675D530U840-4F0-1E-UDD-A4

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°	7.9	7.5	7.5	7.1	7.5	7.5	7.9	7.9	7.8	8.4	8.7
90°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	18.4	17.3	18.4
92.5°	34.2	32.4	32.8	31.9	32.8	32.4	34.2	34.6	38.3	43.1	50.2
95°	71.4	66.9	65.0	65.6	65.0	66.9	71.4	78.9	91.6	115.7	150.9
97.5°	156.6	142.5	134.1	129.3	134.1	142.5	156.6	184.2	225.8	288.1	352.1
100°	258.0	233.3	216.5	206.2	216.5	233.3	258.0	305.8	375.5	454.4	525.8
102.5°	440.0	397.7	376.9	362.8	376.9	397.7	440.0	491.9	565.8	623.5	639.6
105°	717.6	681.9	657.1	649.0	657.1	681.9	717.6	753.3	772.3	764.8	699.7
107.5°	846.7	844.8	839.8	829.1	839.8	844.8	846.7	842.2	814.4	754.5	656.4
110°	867.9	878.9	884.0	883.4	884.0	878.9	867.9	843.1	795.9	722.2	619.1



TEST NUMBER: P331341-840

CATALOG NUMBER: SA2XXDIP-C675D530U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	851.3	869.6	879.4	882.5	879.4	869.6	851.3	816.9	762.8	684.0	585.0
115°	807.4	833.9	848.9	854.0	848.9	833.9	807.4	766.6	707.2	631.8	543.1
117.5°	755.2	783.2	798.9	803.2	798.9	783.2	755.2	713.5	657.8	589.4	511.5
120°	721.0	748.1	764.8	770.5	764.8	748.1	721.0	680.8	628.3	567.2	495.8
122.5°	690.1	716.8	731.6	736.5	731.6	716.8	690.1	654.0	606.6	548.9	483.4
125°	652.0	673.8	688.2	692.9	688.2	673.8	652.0	618.5	575.3	524.6	465.3
127.5°	617.9	638.4	650.9	654.6	650.9	638.4	617.9	588.9	549.0	501.2	447.5
130°	597.2	616.8	628.3	632.9	628.3	616.8	597.2	569.0	531.0	485.5	436.0
132.5°	576.0	595.6	606.2	610.4	606.2	595.6	576.0	548.3	512.6	470.8	425.0
135°	542.5	561.5	571.9	574.2	571.9	561.5	542.5	517.8	485.5	447.5	409.5
137.5°	509.8	526.1	535.2	538.7	535.2	526.1	509.8	487.3	459.1	429.0	397.2
140°	487.3	502.2	510.8	514.3	510.8	502.2	487.3	468.8	443.4	417.0	389.3
142.5°	467.9	481.5	489.2	489.9	489.2	481.5	467.9	450.4	429.2	406.4	382.8
145°	441.1	450.9	456.7	458.4	456.7	450.9	441.1	427.4	410.6	392.7	373.8
147.5°	419.3	427.1	431.0	432.0	431.0	427.1	419.3	407.9	395.7	381.7	366.8
150°	405.5	412.3	415.8	416.4	415.8	412.3	405.5	396.8	386.5	374.4	361.6
152.5°	394.4	400.4	402.9	403.0	402.9	400.4	394.4	387.6	378.6	368.4	356.6
155°	380.1	384.2	386.5	385.3	386.5	384.2	380.1	373.8	367.4	358.8	349.6
157.5°	365.8	369.2	370.2	370.2	370.2	369.2	365.8	361.3	356.4	349.1	341.4
160°	357.1	359.9	360.5	360.5	360.5	359.9	357.1	353.0	349.0	342.6	336.3
162.5°	349.2	351.2	351.7	351.3	351.7	351.2	349.2	345.2	342.1	336.7	331.2
165°	336.3	338.6	338.6	338.1	338.6	338.6	336.3	334.1	331.7	327.7	323.7
167.5°	325.4	326.7	326.6	325.9	326.6	326.7	325.4	324.4	322.2	319.5	316.4
170°	318.5	320.2	319.6	318.5	319.6	320.2	318.5	317.9	316.8	314.5	312.8
172.5°	313.0	313.8	313.2	312.5	313.2	313.8	313.0	312.4	311.6	309.8	308.6
175°	305.8	306.4	305.8	304.7	305.8	306.4	305.8	305.8	305.3	304.7	304.1
177.5°	301.3	301.3	300.8	299.9	300.8	301.3	301.3	301.3	301.3	300.8	300.8
180°	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4



TEST NUMBER: P331341-840

CATALOG NUMBER: SA2XXDIP-C675D530U840-4F0-1E-UDD-A4

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°	8.8	9.3	9.6	9.3	8.5	8.3	8.4	8.6	9.2	9.1	9.2
90°	19.0	19.6	19.0	15.6	11.5	8.7	6.9	5.8	4.6	2.3	0.6
92.5°	63.2	74.8	73.8	57.5	39.2	26.2	20.7	16.9	14.2	10.1	7.1
95°	197.5	225.8	199.9	133.0	82.9	56.5	42.6	33.4	28.2	22.4	20.2
97.5°	404.2	385.4	290.2	179.3	109.5	76.1	60.5	49.9	42.0	36.0	32.8
100°	537.9	454.9	313.3	188.9	118.7	88.2	72.0	60.5	51.3	46.0	44.3
102.5°	587.6	457.3	304.6	189.3	126.9	98.7	82.6	70.6	61.4	56.2	54.9
105°	580.0	426.8	287.4	192.4	141.1	114.0	97.9	85.2	76.5	72.6	70.3
107.5°	529.4	394.0	278.8	200.3	155.6	129.4	113.1	100.6	92.6	88.7	86.8
110°	497.6	378.4	277.0	206.7	165.3	140.0	123.2	111.2	103.7	100.2	97.9



TEST NUMBER: P331341-840

CATALOG NUMBER: SA2XXDIP-C675D530U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	475.4	368.2	277.5	213.7	174.5	150.1	132.9	121.3	114.2	110.4	108.1
115°	448.1	357.1	279.9	224.0	188.9	164.1	148.6	137.0	130.2	126.7	123.8
117.5°	430.8	351.6	284.1	235.1	202.2	179.3	163.1	152.1	145.9	142.5	140.2
120°	421.6	348.4	286.8	242.5	211.4	188.9	172.8	161.3	156.0	152.6	150.3
122.5°	413.7	346.6	290.0	248.9	220.2	199.0	182.5	171.0	165.3	161.9	160.0
125°	402.5	343.3	294.9	259.1	233.3	212.5	196.4	184.9	177.9	174.5	172.8
127.5°	392.2	341.3	299.8	268.7	245.5	225.3	208.7	197.6	190.1	185.2	182.9
130°	385.3	340.3	303.5	274.7	252.9	232.7	216.5	205.0	196.9	191.2	188.9
132.5°	379.7	339.9	307.2	280.7	259.2	240.0	223.9	212.0	203.4	197.2	194.4
135°	372.0	339.2	311.5	288.5	268.4	249.9	233.8	220.6	212.0	205.0	202.7
137.5°	366.6	339.1	315.5	294.5	275.8	257.5	242.6	229.4	220.3	213.3	210.6
140°	363.5	338.6	317.3	297.7	279.9	262.7	247.6	235.0	225.8	218.8	216.5
142.5°	360.2	338.6	318.7	300.5	283.2	266.3	252.3	240.0	230.9	224.4	222.6
145°	355.9	337.5	320.2	304.1	287.9	272.4	259.7	248.2	239.5	233.8	231.6
147.5°	351.5	335.4	320.6	306.1	291.9	277.2	266.0	256.4	248.4	242.9	241.2
150°	347.9	334.1	320.2	307.0	293.7	280.4	270.1	261.5	254.0	249.3	247.6
152.5°	344.7	331.7	319.3	307.4	295.6	283.7	274.3	266.1	259.5	254.9	254.1
155°	338.6	327.7	317.9	308.1	298.3	288.5	279.9	273.6	267.2	263.8	263.2
157.5°	333.0	323.6	315.3	308.1	300.2	292.0	284.8	279.6	274.2	271.4	270.7
160°	328.8	320.8	313.9	308.1	301.2	294.3	287.9	283.4	278.7	276.4	275.9
162.5°	325.2	318.5	312.5	307.6	301.6	295.7	290.7	286.6	282.9	280.5	280.9
165°	319.0	313.9	309.8	306.4	302.4	297.2	293.7	290.8	287.4	286.2	286.8
167.5°	313.1	309.8	307.2	305.6	302.3	298.4	296.3	294.2	292.0	290.9	291.6
170°	309.8	307.5	305.8	304.7	301.7	298.9	297.2	296.0	294.3	293.7	294.9
172.5°	306.6	304.8	304.0	303.3	301.3	299.3	298.1	297.4	295.7	296.0	296.7
175°	302.4	301.7	301.2	301.7	300.6	299.4	298.9	298.9	297.7	298.3	298.9
177.5°	299.9	299.4	299.9	300.8	299.9	299.4	299.4	299.4	298.5	299.0	299.9
180°	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4



TEST NUMBER: P331341-840

CATALOG NUMBER: SA2XXDIP-C675D530U840-4F0-1E-UDD-A4

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°	10.8	12.9	13.1	14.5	14.1	14.6	15.5	15.8	15.5	14.9	14.4
90°	2.3	4.6	5.8	6.9	8.7	11.5	15.6	19.0	19.6	19.0	18.4
92.5°	10.1	14.2	16.9	20.7	26.2	39.2	57.5	73.8	74.8	63.2	50.2
95°	22.4	28.2	33.4	42.6	56.5	82.9	133.0	199.9	225.8	197.5	150.9
97.5°	36.0	42.0	49.9	60.5	76.1	109.5	179.3	290.2	385.4	404.2	352.1
100°	46.0	51.3	60.5	72.0	88.2	118.7	188.9	313.3	454.9	537.9	525.8
102.5°	56.2	61.4	70.6	82.6	98.7	126.9	189.3	304.6	457.3	587.6	639.6
105°	72.6	76.5	85.2	97.9	114.0	141.1	192.4	287.4	426.8	580.0	699.7
107.5°	88.7	92.6	100.6	113.1	129.4	155.6	200.3	278.8	394.0	529.4	656.4
110°	100.2	103.7	111.2	123.2	140.0	165.3	206.7	277.0	378.4	497.6	619.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	110.4	114.2	121.3	132.9	150.1	174.5	213.7	277.5	368.2	475.4	585.0
115°	126.7	130.2	137.0	148.6	164.1	188.9	224.0	279.9	357.1	448.1	543.1
117.5°	142.5	145.9	152.1	163.1	179.3	202.2	235.1	284.1	351.6	430.8	511.5
120°	152.6	156.0	161.3	172.8	188.9	211.4	242.5	286.8	348.4	421.6	495.8
122.5°	161.9	165.3	171.0	182.5	199.0	220.2	248.9	290.0	346.6	413.7	483.4
125°	174.5	177.9	184.9	196.4	212.5	233.3	259.1	294.9	343.3	402.5	465.3
127.5°	185.2	190.1	197.6	208.7	225.3	245.5	268.7	299.8	341.3	392.2	447.5
130°	191.2	196.9	205.0	216.5	232.7	252.9	274.7	303.5	340.3	385.3	436.0
132.5°	197.2	203.4	212.0	223.9	240.0	259.2	280.7	307.2	339.9	379.7	425.0
135°	205.0	212.0	220.6	233.8	249.9	268.4	288.5	311.5	339.2	372.0	409.5
137.5°	213.3	220.3	229.4	242.6	257.5	275.8	294.5	315.5	339.1	366.6	397.2
140°	218.8	225.8	235.0	247.6	262.7	279.9	297.7	317.3	338.6	363.5	389.3
142.5°	224.4	230.9	240.0	252.3	266.3	283.2	300.5	318.7	338.6	360.2	382.8
145°	233.8	239.5	248.2	259.7	272.4	287.9	304.1	320.2	337.5	355.9	373.8
147.5°	242.9	248.4	256.4	266.0	277.2	291.9	306.1	320.6	335.4	351.5	366.8
150°	249.3	254.0	261.5	270.1	280.4	293.7	307.0	320.2	334.1	347.9	361.6
152.5°	254.9	259.5	266.1	274.3	283.7	295.6	307.4	319.3	331.7	344.7	356.6
155°	263.8	267.2	273.6	279.9	288.5	298.3	308.1	317.9	327.7	338.6	349.6
157.5°	271.4	274.2	279.6	284.8	292.0	300.2	308.1	315.3	323.6	333.0	341.4
160°	276.4	278.7	283.4	287.9	294.3	301.2	308.1	313.9	320.8	328.8	336.3
162.5°	280.5	282.9	286.6	290.7	295.7	301.6	307.6	312.5	318.5	325.2	331.2
165°	286.2	287.4	290.8	293.7	297.2	302.4	306.4	309.8	313.9	319.0	323.7
167.5°	290.9	292.0	294.2	296.3	298.4	302.3	305.6	307.2	309.8	313.1	316.4
170°	293.7	294.3	296.0	297.2	298.9	301.7	304.7	305.8	307.5	309.8	312.8
172.5°	296.0	295.7	297.4	298.1	299.3	301.3	303.3	304.0	304.8	306.6	308.6
175°	298.3	297.7	298.9	298.9	299.4	300.6	301.7	301.2	301.7	302.4	304.1
177.5°	299.0	298.5	299.4	299.4	299.4	299.9	300.8	299.9	299.4	299.9	300.8
180°	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4



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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°	14.5	14.8	14.5	14.5	14.9	14.5	14.5
90°	17.3	18.4	19.0	19.0	19.0	19.0	19.0
92.5°	43.1	38.3	34.6	34.2	32.4	32.8	31.9
95°	115.7	91.6	78.9	71.4	66.9	65.0	65.6
97.5°	288.1	225.8	184.2	156.6	142.5	134.1	129.3
100°	454.4	375.5	305.8	258.0	233.3	216.5	206.2
102.5°	623.5	565.8	491.9	440.0	397.7	376.9	362.8
105°	764.8	772.3	753.3	717.6	681.9	657.1	649.0
107.5°	754.5	814.4	842.2	846.7	844.8	839.8	829.1
110°	722.2	795.9	843.1	867.9	878.9	884.0	883.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	684.0	762.8	816.9	851.3	869.6	879.4	882.5
115°	631.8	707.2	766.6	807.4	833.9	848.9	854.0
117.5°	589.4	657.8	713.5	755.2	783.2	798.9	803.2
120°	567.2	628.3	680.8	721.0	748.1	764.8	770.5
122.5°	548.9	606.6	654.0	690.1	716.8	731.6	736.5
125°	524.6	575.3	618.5	652.0	673.8	688.2	692.9
127.5°	501.2	549.0	588.9	617.9	638.4	650.9	654.6
130°	485.5	531.0	569.0	597.2	616.8	628.3	632.9
132.5°	470.8	512.6	548.3	576.0	595.6	606.2	610.4
135°	447.5	485.5	517.8	542.5	561.5	571.9	574.2
137.5°	429.0	459.1	487.3	509.8	526.1	535.2	538.7
140°	417.0	443.4	468.8	487.3	502.2	510.8	514.3
142.5°	406.4	429.2	450.4	467.9	481.5	489.2	489.9
145°	392.7	410.6	427.4	441.1	450.9	456.7	458.4
147.5°	381.7	395.7	407.9	419.3	427.1	431.0	432.0
150°	374.4	386.5	396.8	405.5	412.3	415.8	416.4
152.5°	368.4	378.6	387.6	394.4	400.4	402.9	403.0
155°	358.8	367.4	373.8	380.1	384.2	386.5	385.3
157.5°	349.1	356.4	361.3	365.8	369.2	370.2	370.2
160°	342.6	349.0	353.0	357.1	359.9	360.5	360.5
162.5°	336.7	342.1	345.2	349.2	351.2	351.7	351.3
165°	327.7	331.7	334.1	336.3	338.6	338.6	338.1
167.5°	319.5	322.2	324.4	325.4	326.7	326.6	325.9
170°	314.5	316.8	317.9	318.5	320.2	319.6	318.5
172.5°	309.8	311.6	312.4	313.0	313.8	313.2	312.5
175°	304.7	305.3	305.8	305.8	306.4	305.8	304.7
177.5°	300.8	301.3	301.3	301.3	301.3	300.8	299.9
180°	299.4	299.4	299.4	299.4	299.4	299.4	299.4

(END OF REPORT)