

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: P332555

Luminaire Tested: **SA4XXDIP-C575D810U835-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332555
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-C575D810U835-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 575 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 810 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

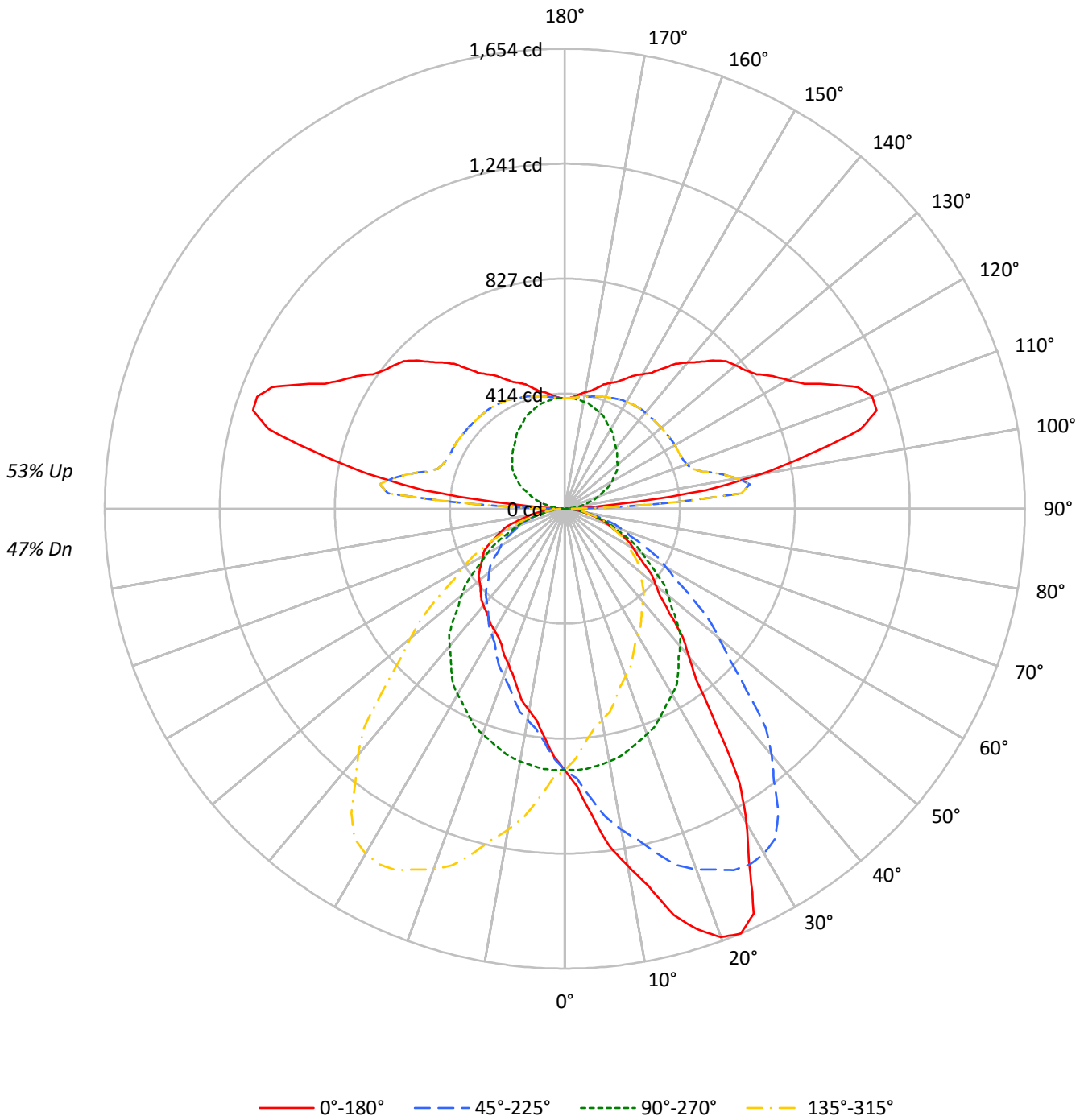
Lumens per Lamp: N/A
Luminaire Lumens: 5488.2 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 38.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	106	106	106	106	98	98	98	98	82	82	82	67	67	67	54	54	54	47				47
1	97	93	89	86	89	86	83	80	72	70	68	59	58	56	48	47	46				40	
2	89	82	76	71	81	75	70	66	63	60	56	52	50	47	42	40	39				34	
3	81	72	65	59	74	66	60	55	56	51	48	46	43	40	38	35	33				29	
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29				25	
5	68	57	49	43	63	53	46	40	45	39	35	37	33	30	30	28	25				22	
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22				19	
7	58	46	38	33	53	43	36	31	37	31	27	31	27	23	25	22	20				17	
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18				15	
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	18	16				14	
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15				13	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7582	7582	7582	7582
5°	8930	7602	6710	7602
10°	10691	7569	6041	7569
15°	12649	7492	5548	7492
20°	14086	7414	5107	7414
25°	14313	7299	4804	7299
30°	12179	7189	4708	7189
35°	9363	7009	4709	7009
40°	7299	6798	4797	6798
45°	6085	6481	4877	6481
50°	5355	6094	5043	6094
55°	4906	5630	5246	5630
60°	4598	5214	5491	5214
65°	4281	4749	5692	4749
70°	3911	4289	5823	4289
75°	3497	3774	5752	3774
80°	2929	3092	5570	3092
85°	2158	2232	5335	2232



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.5	1.7
10°-20°	282.0	5.1
20°-30°	447.2	8.1
30°-40°	497.7	9.1
40°-50°	453.1	8.3
50°-60°	370.2	6.7
60°-70°	264.3	4.8
70°-80°	145.5	2.7
80°-90°	41.9	0.8
90°-100°	287.5	5.2
100°-110°	598.3	10.9
110°-120°	535.9	9.8
120°-130°	450.8	8.2
130°-140°	375.9	6.8
140°-150°	287.1	5.2
150°-160°	201.8	3.7
160°-170°	118.7	2.2
170°-180°	38.6	0.7
0°-30°	820.8	15.0
0°-40°	1318.5	24.0
0°-60°	2141.8	39.0
0°-90°	2593.6	47.3
90°-120°	1421.6	25.9
90°-150°	2535.4	46.2
90°-180°	2895.0	52.7
0°-180°	5488.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	939	939	939	939	939	
5°	1102	938	828	938	1102	112
15°	1514	896	664	896	1514	428
25°	1607	819	539	819	1607	708
35°	950	711	478	711	950	603
45°	533	568	427	568	533	420
55°	349	400	373	400	349	315
65°	224	249	298	249	224	222
75°	112	121	184	121	112	119
85°	23	24	58	24	23	29
90°	16	1	16	1	16	14
95°	191	26	191	26	191	296
105°	1100	92	1100	92	1100	1088
115°	1056	161	1056	161	1056	1049
125°	843	224	843	224	843	766
135°	754	267	754	267	754	582
145°	615	307	615	307	615	390
155°	515	350	515	350	515	240
165°	450	381	450	381	450	129
175°	405	397	405	397	405	39
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°	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2
2.5°	999.6	999.3	996.2	995.6	993.4	990.6	990.0	985.0	975.0	970.4	969.1
5°	1101.9	1109.7	1099.5	1097.6	1096.4	1083.6	1077.0	1069.2	1051.3	1040.8	1032.6
7.5°	1223.9	1224.8	1220.4	1216.8	1206.9	1195.7	1178.9	1161.0	1139.7	1117.5	1100.8
10°	1304.2	1307.3	1302.3	1301.5	1281.6	1269.2	1244.3	1223.3	1199.1	1172.3	1147.8
12.5°	1388.9	1384.5	1381.9	1365.3	1361.6	1338.9	1310.0	1288.3	1251.1	1220.2	1187.6
15°	1513.5	1505.0	1499.5	1476.6	1465.3	1433.8	1403.0	1379.3	1330.7	1284.4	1249.3
17.5°	1586.7	1595.2	1582.6	1573.2	1544.0	1521.9	1490.5	1440.7	1402.6	1345.1	1300.9
20°	1639.6	1640.4	1633.4	1623.6	1600.7	1572.7	1538.4	1484.0	1438.4	1381.2	1320.5
22.5°	1653.9	1654.1	1651.1	1642.0	1624.6	1601.9	1567.4	1521.9	1466.8	1404.6	1343.9
25°	1606.9	1605.4	1608.9	1619.0	1612.4	1605.4	1585.5	1551.7	1500.3	1434.5	1369.2
27.5°	1432.3	1443.0	1462.8	1487.7	1511.7	1529.9	1535.1	1528.2	1496.3	1442.2	1373.8
30°	1306.5	1319.8	1334.5	1359.5	1407.7	1435.3	1465.7	1488.6	1475.8	1432.6	1368.8
32.5°	1168.3	1171.6	1193.5	1221.9	1266.1	1319.2	1367.3	1413.9	1429.4	1406.8	1353.5
35°	950.1	955.6	979.3	1007.3	1061.4	1126.4	1198.8	1263.3	1316.7	1338.1	1310.8
37.5°	775.4	791.0	807.7	837.8	885.5	944.0	1019.2	1102.7	1182.2	1235.4	1244.4
40°	692.6	702.3	714.4	737.3	777.8	835.4	899.9	995.7	1080.1	1156.4	1181.3
42.5°	627.2	632.9	640.3	661.0	691.9	749.1	808.1	892.3	977.1	1068.3	1110.0
45°	533.0	538.9	551.3	563.4	586.7	626.4	681.3	750.5	835.7	923.7	1000.7
47.5°	465.0	468.8	476.2	489.1	508.9	535.1	579.7	637.5	716.5	801.9	884.0
50°	426.4	429.5	435.4	447.1	462.2	485.6	522.1	576.2	638.1	724.1	804.6
52.5°	395.9	397.2	401.5	409.4	421.5	441.1	471.1	515.8	573.4	650.0	730.2
55°	348.6	350.2	354.1	359.9	370.4	382.9	405.8	439.3	489.5	556.0	625.6
57.5°	309.7	310.8	314.1	316.3	325.0	335.1	352.7	376.6	414.7	471.1	533.3
60°	284.8	284.0	287.9	289.9	295.7	304.3	317.9	340.8	373.9	419.4	476.6
62.5°	260.5	259.4	262.7	265.3	268.6	275.9	287.1	305.0	331.9	373.1	422.5
65°	224.1	222.6	224.5	227.6	230.7	234.6	242.8	258.7	280.1	309.7	347.4
67.5°	187.5	189.2	189.5	191.0	192.8	198.1	203.7	215.0	230.1	253.8	285.7
70°	165.7	166.1	167.7	167.7	168.9	173.5	178.2	184.8	199.6	221.4	247.5
72.5°	144.0	145.6	145.0	146.2	147.1	150.2	153.6	159.9	172.5	188.7	210.7
75°	112.1	113.2	113.2	113.6	114.8	115.9	118.7	123.3	132.3	144.3	159.5
77.5°	81.7	81.9	82.4	83.8	83.8	85.7	87.7	91.4	95.9	104.1	113.4
80°	63.0	63.8	63.4	64.2	64.2	65.8	66.5	71.2	73.1	78.6	86.0
82.5°	46.2	47.0	46.9	48.0	48.6	48.9	50.0	51.9	53.8	58.7	61.7
85°	23.3	24.1	23.3	24.1	25.3	25.7	26.8	27.2	28.8	30.0	32.7
87.5°	10.1	11.1	11.2	11.4	11.8	12.2	12.3	11.8	12.9	13.4	14.3
90°	16.4	16.4	17.2	16.4	15.6	15.6	14.9	14.1	13.3	14.1	12.5
92.5°	60.2	60.2	62.9	67.1	76.3	92.0	115.6	153.6	206.6	248.0	217.1
95°	190.8	201.0	215.0	239.3	277.6	353.4	458.2	579.4	655.3	637.3	480.9
97.5°	510.0	526.2	549.7	596.8	652.9	734.5	811.0	856.0	823.2	671.2	450.1
100°	717.0	723.3	746.7	794.4	862.5	920.3	958.6	943.0	828.8	628.7	408.2
102.5°	897.2	902.2	926.9	961.5	1003.2	1027.3	1016.2	938.6	781.9	575.5	380.0
105°	1100.2	1104.9	1115.8	1122.1	1120.5	1088.4	1011.0	875.8	696.7	512.9	355.8
107.5°	1175.5	1173.5	1165.7	1147.9	1109.2	1039.5	930.5	786.5	627.9	477.9	351.4
110°	1176.8	1169.8	1155.7	1122.8	1067.3	981.3	867.9	732.7	593.5	466.0	352.6



TEST NUMBER: P332555

CATALOG NUMBER: SA4XXDIP-C575D810U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1139.9	1128.5	1108.8	1069.0	1006.0	920.0	812.9	693.3	574.1	460.4	356.4
115°	1056.4	1050.1	1025.1	978.2	916.4	841.3	749.9	653.7	555.9	457.4	363.6
117.5°	971.8	966.9	941.6	902.2	849.5	785.8	713.9	634.3	547.8	456.6	371.3
120°	924.2	915.6	895.3	860.9	816.3	760.8	698.3	625.5	543.4	456.6	376.9
122.5°	886.7	878.1	860.9	831.5	793.8	745.2	688.2	618.0	538.4	456.0	382.5
125°	842.9	838.2	823.4	800.7	769.4	726.4	672.5	605.2	530.1	455.1	391.0
127.5°	817.3	812.6	800.1	779.9	748.5	707.6	653.8	589.6	519.0	453.4	397.7
130°	802.3	797.6	785.1	765.5	733.4	692.0	638.8	577.1	512.2	452.7	402.7
132.5°	785.4	780.7	768.8	746.7	715.3	673.9	621.9	563.9	505.9	452.1	407.1
135°	753.8	749.1	736.6	714.7	683.4	644.3	596.6	545.8	496.5	451.2	413.6
137.5°	714.7	709.0	698.7	677.1	647.9	612.6	572.4	529.4	488.4	451.0	417.5
140°	686.5	680.3	669.3	652.1	624.8	591.9	556.7	520.0	484.0	450.4	420.7
142.5°	656.5	652.1	642.4	626.5	602.2	573.8	543.6	511.2	480.3	450.4	423.2
145°	615.4	611.5	603.6	590.4	570.8	548.9	525.5	498.9	473.8	448.8	424.6
147.5°	578.9	577.5	571.6	560.2	545.8	528.6	509.8	488.7	468.1	446.0	425.4
150°	558.3	557.5	552.8	542.7	530.1	516.1	500.4	482.4	463.7	444.1	425.4
152.5°	539.5	538.7	535.9	527.6	517.0	505.4	491.0	475.6	458.7	441.0	424.1
155°	515.3	515.3	512.9	506.7	498.9	489.5	477.8	465.2	451.2	436.3	422.2
157.5°	494.0	494.0	492.6	487.9	482.0	474.5	464.6	454.1	443.5	431.5	420.2
160°	480.9	480.9	480.1	475.4	470.7	464.5	455.9	447.3	437.9	427.7	418.3
162.5°	468.4	469.0	468.2	463.5	460.1	454.5	447.7	440.4	432.9	424.0	416.5
165°	449.6	450.4	451.2	448.0	444.9	441.0	435.5	430.8	424.6	418.3	412.9
167.5°	434.7	435.4	435.5	433.5	431.9	429.6	425.2	421.6	417.1	412.7	409.1
170°	425.4	425.4	426.1	425.4	423.8	421.5	418.3	416.0	412.1	408.9	406.6
172.5°	416.0	417.2	418.0	417.2	416.3	414.6	412.7	411.0	407.7	405.2	404.1
175°	405.0	406.6	408.2	406.6	406.6	406.6	405.0	404.3	402.7	401.1	401.1
177.5°	398.6	399.9	401.1	400.5	401.1	400.5	400.5	399.9	399.2	398.6	398.6
180°	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0



TEST NUMBER: P332555

CATALOG NUMBER: SA4XXDIP-C575D810U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2
2.5°	969.4	965.1	962.0	959.5	952.6	948.6	945.5	941.1	936.1	930.8	924.3
5°	1024.5	1011.2	1001.5	986.7	972.7	961.0	949.0	938.1	924.8	910.5	899.9
7.5°	1082.3	1062.6	1037.4	1015.5	990.9	969.5	950.4	930.8	910.4	890.6	872.5
10°	1119.0	1093.7	1065.7	1032.6	1001.5	973.9	948.2	923.3	899.2	875.0	854.4
12.5°	1158.5	1127.0	1085.6	1046.9	1012.1	975.1	944.1	913.6	884.5	859.2	835.1
15°	1211.6	1166.1	1118.2	1066.5	1020.6	977.4	935.0	896.4	863.8	830.3	807.0
17.5°	1244.2	1187.9	1133.2	1079.1	1023.5	969.0	923.3	878.9	837.9	804.7	775.3
20°	1265.7	1209.7	1141.6	1087.5	1021.3	965.3	912.4	863.0	820.2	784.8	754.4
22.5°	1284.4	1219.6	1151.5	1080.3	1014.5	955.0	897.1	847.4	803.7	766.4	737.3
25°	1294.5	1220.2	1146.2	1075.4	1000.7	930.3	877.8	819.4	772.7	733.4	702.3
27.5°	1295.6	1216.1	1132.5	1053.8	976.7	911.1	844.8	792.6	744.2	702.6	672.7
30°	1292.1	1209.3	1119.4	1034.2	956.8	885.5	828.0	771.2	721.7	680.5	649.4
32.5°	1281.2	1194.9	1102.6	1012.4	932.2	862.5	803.1	749.1	700.9	660.3	627.6
35°	1249.7	1164.5	1066.1	972.3	890.2	819.8	766.1	711.2	663.0	624.5	593.0
37.5°	1200.5	1123.4	1023.4	926.3	845.7	775.0	721.7	672.2	628.7	589.5	557.2
40°	1157.5	1089.8	989.4	894.9	807.7	740.4	690.6	645.1	601.9	564.9	534.2
42.5°	1108.0	1049.0	956.4	856.3	772.2	704.6	656.1	615.2	574.5	540.4	509.6
45°	1019.8	980.9	893.7	801.1	713.6	649.8	603.5	567.7	533.4	500.0	474.3
47.5°	918.3	899.0	825.6	737.7	654.6	591.7	551.6	518.5	488.5	460.1	437.5
50°	850.1	840.8	777.4	692.6	613.2	554.1	513.6	485.2	459.5	434.6	413.2
52.5°	782.9	782.6	725.4	647.7	574.3	517.3	477.2	450.6	428.4	408.1	388.9
55°	680.1	691.0	646.3	577.0	511.3	459.9	423.7	400.0	384.4	367.7	353.3
57.5°	585.7	603.8	566.9	505.9	451.0	403.7	372.2	354.4	337.8	327.7	317.2
60°	524.1	541.2	512.4	461.1	409.3	368.8	338.9	322.9	308.5	301.5	294.1
62.5°	469.3	484.6	463.2	415.6	370.7	331.8	306.5	291.2	281.5	273.8	268.9
65°	391.0	403.9	385.6	351.0	312.4	281.3	260.7	248.6	239.3	236.2	230.7
67.5°	316.1	327.8	317.9	288.5	257.6	234.0	217.9	206.3	200.8	198.0	194.2
70°	271.6	283.3	272.7	247.1	223.3	203.5	188.3	181.7	175.9	174.7	169.3
72.5°	233.9	241.9	231.3	211.3	191.0	174.2	162.5	155.6	152.5	150.4	147.5
75°	175.5	182.5	175.5	159.9	145.5	133.8	123.7	121.0	117.5	116.3	114.4
77.5°	124.2	130.3	124.9	115.2	104.4	95.4	90.0	86.5	85.7	83.7	84.6
80°	94.9	98.8	93.8	87.2	78.6	72.4	68.5	66.5	64.2	63.4	65.0
82.5°	68.2	69.9	67.3	62.9	56.5	52.4	49.8	47.5	47.1	47.2	47.2
85°	35.4	35.0	34.6	30.7	28.8	26.1	24.5	24.1	23.7	24.5	25.3
87.5°	14.0	14.3	13.1	11.8	10.7	9.7	8.9	8.2	8.9	9.7	10.1
90°	10.9	10.9	6.3	6.3	5.5	4.7	2.3	0.8	2.3	4.7	5.5
92.5°	157.9	97.3	57.5	41.3	29.9	20.3	13.0	8.9	13.0	20.3	29.9
95°	294.0	165.8	97.7	64.9	46.1	36.0	28.1	25.8	28.1	36.0	46.1
97.5°	264.3	158.4	106.0	78.5	62.4	53.0	46.3	46.3	46.3	53.0	62.4
100°	248.7	160.3	114.2	89.1	74.3	64.9	59.4	59.4	59.4	64.9	74.3
102.5°	244.3	166.5	124.8	101.0	86.8	78.0	73.2	71.9	73.2	78.0	86.8
105°	246.3	181.4	143.9	121.2	107.1	97.7	93.8	91.5	93.8	97.7	107.1
107.5°	257.9	198.8	164.4	142.0	128.5	118.5	114.6	113.1	114.6	118.5	128.5
110°	266.6	211.9	177.5	156.4	142.3	132.9	129.0	127.5	129.0	132.9	142.3



TEST NUMBER: P332555

CATALOG NUMBER: SA4XXDIP-C575D810U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	276.0	224.4	191.3	170.1	156.1	147.3	142.8	141.2	142.8	147.3	156.1
115°	290.9	244.0	212.7	191.6	176.7	168.9	163.4	161.1	163.4	168.9	176.7
117.5°	306.0	262.9	233.2	211.3	197.4	188.8	183.9	181.7	183.9	188.8	197.4
120°	316.7	276.0	246.3	224.4	211.1	202.5	197.0	195.5	197.0	202.5	211.1
122.5°	326.7	288.5	258.8	237.5	223.0	215.0	209.6	208.0	209.6	215.0	223.0
125°	341.7	305.7	277.6	255.7	240.8	232.2	227.5	224.4	227.5	232.2	240.8
127.5°	354.7	321.7	294.5	272.4	256.9	247.1	241.5	239.0	241.5	247.1	256.9
130°	362.8	332.3	305.7	283.1	268.2	256.5	250.2	247.1	250.2	256.5	268.2
132.5°	370.9	341.1	314.5	293.1	277.0	265.9	257.7	255.2	257.7	265.9	277.0
135°	381.6	353.4	327.6	307.3	290.9	277.6	269.8	266.6	269.8	277.6	290.9
137.5°	389.1	362.8	338.7	319.3	302.3	289.6	281.0	278.1	281.0	289.6	302.3
140°	394.1	369.1	345.6	326.8	310.4	297.1	288.5	286.2	288.5	297.1	310.4
142.5°	397.8	374.7	351.9	333.7	317.9	305.3	297.3	294.9	297.3	305.3	317.9
145°	401.9	380.8	360.5	343.3	328.4	317.5	309.6	307.3	309.6	317.5	328.4
147.5°	405.5	387.1	368.0	352.5	340.1	328.9	322.0	321.2	322.0	328.9	340.1
150°	407.4	390.2	373.0	358.1	346.4	337.0	330.8	330.0	330.8	337.0	346.4
152.5°	408.6	392.7	377.4	363.8	353.3	344.5	338.3	338.1	338.3	344.5	353.3
155°	409.7	396.4	383.1	371.4	362.8	355.0	350.3	349.5	350.3	355.0	362.8
157.5°	409.7	399.1	387.8	378.6	371.1	365.0	360.6	360.6	360.6	365.0	371.1
160°	409.7	400.3	391.0	382.4	376.1	370.6	367.5	367.5	367.5	370.6	376.1
162.5°	409.7	401.6	392.8	386.1	380.5	375.6	373.1	373.8	373.1	375.6	380.5
165°	408.2	401.9	394.9	390.2	386.3	382.4	380.8	380.8	380.8	382.4	386.3
167.5°	406.3	401.8	396.6	393.0	390.8	387.8	387.1	387.8	387.1	387.8	390.8
170°	405.0	401.1	397.2	394.9	393.3	391.0	390.2	391.0	390.2	391.0	393.3
172.5°	403.8	400.5	397.8	396.1	395.2	393.5	393.3	394.1	393.3	393.5	395.2
175°	401.9	399.6	398.0	398.0	397.2	396.4	396.4	397.2	396.4	396.4	397.2
177.5°	399.9	398.6	398.0	398.0	398.0	397.4	398.0	398.6	398.0	397.4	398.0
180°	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0



TEST NUMBER: P332555

CATALOG NUMBER: SA4XXDIP-C575D810U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2
2.5°	921.2	918.4	914.3	908.7	904.1	899.1	897.8	896.0	899.7	896.6	895.7
5°	891.0	882.8	872.3	860.3	853.3	843.1	841.2	837.3	833.4	833.0	829.1
7.5°	859.0	847.0	833.3	821.0	809.6	798.6	791.3	789.8	784.0	780.7	776.8
10°	838.5	823.7	807.7	796.1	782.8	771.2	763.0	758.3	754.4	750.1	746.3
12.5°	814.2	798.5	785.3	772.7	757.0	748.1	734.7	726.6	725.8	725.9	715.8
15°	785.9	770.4	750.1	732.3	723.7	706.6	699.2	689.8	684.0	678.2	673.5
17.5°	753.7	734.3	718.5	697.9	681.6	668.0	658.2	652.6	643.9	635.6	629.6
20°	733.4	712.8	696.1	674.3	656.4	639.7	631.5	623.7	617.1	610.1	603.5
22.5°	712.9	691.3	670.9	649.7	633.0	615.4	607.5	596.9	590.6	586.7	580.1
25°	680.5	657.2	633.8	613.6	596.5	580.9	570.4	562.2	555.2	552.1	547.8
27.5°	645.3	622.1	599.6	576.6	557.2	545.9	537.5	531.3	527.3	523.2	521.2
30°	622.9	598.8	574.7	553.3	535.4	524.1	516.3	512.0	508.9	507.0	505.0
32.5°	600.2	576.4	551.0	531.5	515.5	505.4	499.5	495.2	493.7	493.0	492.3
35°	563.8	539.7	516.3	498.8	483.6	479.7	474.7	472.3	471.6	474.3	475.5
37.5°	528.5	506.1	484.6	467.7	457.7	452.0	450.3	450.4	453.2	455.6	458.4
40°	505.8	484.0	463.8	449.0	439.7	436.2	435.4	437.3	440.4	443.2	446.3
42.5°	483.7	462.2	443.9	430.0	423.5	420.3	420.8	422.7	427.1	430.4	435.1
45°	449.4	431.5	413.6	402.3	396.9	397.6	397.6	401.1	405.4	410.5	415.5
47.5°	417.1	399.0	384.3	374.8	372.0	371.3	373.5	378.1	384.3	390.5	397.6
50°	395.3	378.2	365.3	356.8	353.7	354.8	358.0	362.2	369.6	377.4	384.8
52.5°	373.2	357.6	345.7	337.8	335.6	337.7	340.8	347.6	354.1	362.5	371.4
55°	338.9	325.7	316.3	310.5	309.7	310.9	314.4	321.8	331.1	341.6	350.2
57.5°	304.7	293.7	285.1	281.1	281.5	282.6	288.3	297.1	307.1	318.3	329.3
60°	281.7	271.6	264.6	261.5	261.9	264.2	271.2	279.4	291.8	302.7	314.4
62.5°	259.9	251.0	244.3	241.5	241.0	246.1	252.8	261.3	273.8	285.9	298.5
65°	224.9	217.9	212.4	210.9	212.0	215.9	224.5	235.8	246.3	259.1	272.4
67.5°	190.6	184.9	181.2	181.9	183.3	189.0	196.2	205.9	217.8	231.1	244.2
70°	168.9	163.4	160.3	160.7	163.0	170.0	176.3	186.0	198.8	212.4	223.3
72.5°	146.5	142.9	140.1	141.7	144.0	148.9	156.6	166.4	177.7	190.3	201.9
75°	112.4	112.4	110.9	112.1	115.6	120.2	126.1	136.2	147.5	157.6	166.9
77.5°	83.4	82.6	83.6	85.0	87.0	92.5	99.2	106.5	114.9	125.1	132.8
80°	63.8	64.2	66.1	68.5	69.3	73.5	80.5	87.2	93.8	102.3	109.7
82.5°	47.9	48.3	49.3	52.3	53.1	57.7	62.2	68.8	74.8	80.5	86.7
85°	26.1	26.1	28.0	29.2	31.1	34.2	37.0	40.9	46.3	50.2	56.0
87.5°	11.2	11.2	13.4	14.0	15.3	17.1	17.6	21.2	22.6	24.3	27.1
90°	6.3	6.3	10.9	10.9	12.5	14.1	13.3	14.1	14.9	15.6	15.6
92.5°	41.3	57.5	97.3	157.9	217.1	248.0	206.6	153.6	115.6	92.0	76.3
95°	64.9	97.7	165.8	294.0	480.9	637.3	655.3	579.4	458.2	353.4	277.6
97.5°	78.5	106.0	158.4	264.3	450.1	671.2	823.2	856.0	811.0	734.5	652.9
100°	89.1	114.2	160.3	248.7	408.2	628.7	828.8	943.0	958.6	920.3	862.5
102.5°	101.0	124.8	166.5	244.3	380.0	575.5	781.9	938.6	1016.2	1027.3	1003.2
105°	121.2	143.9	181.4	246.3	355.8	512.9	696.7	875.8	1011.0	1088.4	1120.5
107.5°	142.0	164.4	198.8	257.9	351.4	477.9	627.9	786.5	930.5	1039.5	1109.2
110°	156.4	177.5	211.9	266.6	352.6	466.0	593.5	732.7	867.9	981.3	1067.3



TEST NUMBER: P332555

CATALOG NUMBER: SA4XXDIP-C575D810U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	170.1	191.3	224.4	276.0	356.4	460.4	574.1	693.3	812.9	920.0	1006.0
115°	191.6	212.7	244.0	290.9	363.6	457.4	555.9	653.7	749.9	841.3	916.4
117.5°	211.3	233.2	262.9	306.0	371.3	456.6	547.8	634.3	713.9	785.8	849.5
120°	224.4	246.3	276.0	316.7	376.9	456.6	543.4	625.5	698.3	760.8	816.3
122.5°	237.5	258.8	288.5	326.7	382.5	456.0	538.4	618.0	688.2	745.2	793.8
125°	255.7	277.6	305.7	341.7	391.0	455.1	530.1	605.2	672.5	726.4	769.4
127.5°	272.4	294.5	321.7	354.7	397.7	453.4	519.0	589.6	653.8	707.6	748.5
130°	283.1	305.7	332.3	362.8	402.7	452.7	512.2	577.1	638.8	692.0	733.4
132.5°	293.1	314.5	341.1	370.9	407.1	452.1	505.9	563.9	621.9	673.9	715.3
135°	307.3	327.6	353.4	381.6	413.6	451.2	496.5	545.8	596.6	644.3	683.4
137.5°	319.3	338.7	362.8	389.1	417.5	451.0	488.4	529.4	572.4	612.6	647.9
140°	326.8	345.6	369.1	394.1	420.7	450.4	484.0	520.0	556.7	591.9	624.8
142.5°	333.7	351.9	374.7	397.8	423.2	450.4	480.3	511.2	543.6	573.8	602.2
145°	343.3	360.5	380.8	401.9	424.6	448.8	473.8	498.9	525.5	548.9	570.8
147.5°	352.5	368.0	387.1	405.5	425.4	446.0	468.1	488.7	509.8	528.6	545.8
150°	358.1	373.0	390.2	407.4	425.4	444.1	463.7	482.4	500.4	516.1	530.1
152.5°	363.8	377.4	392.7	408.6	424.1	441.0	458.7	475.6	491.0	505.4	517.0
155°	371.4	383.1	396.4	409.7	422.2	436.3	451.2	465.2	477.8	489.5	498.9
157.5°	378.6	387.8	399.1	409.7	420.2	431.5	443.5	454.1	464.6	474.5	482.0
160°	382.4	391.0	400.3	409.7	418.3	427.7	437.9	447.3	455.9	464.5	470.7
162.5°	386.1	392.8	401.6	409.7	416.5	424.0	432.9	440.4	447.7	454.5	460.1
165°	390.2	394.9	401.9	408.2	412.9	418.3	424.6	430.8	435.5	441.0	444.9
167.5°	393.0	396.6	401.8	406.3	409.1	412.7	417.1	421.6	425.2	429.6	431.9
170°	394.9	397.2	401.1	405.0	406.6	408.9	412.1	416.0	418.3	421.5	423.8
172.5°	396.1	397.8	400.5	403.8	404.1	405.2	407.7	411.0	412.7	414.6	416.3
175°	398.0	398.0	399.6	401.9	401.1	401.1	402.7	404.3	405.0	406.6	406.6
177.5°	398.0	398.0	398.6	399.9	398.6	398.6	399.2	399.9	400.5	400.5	401.1
180°	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0



TEST NUMBER: P332555

CATALOG NUMBER: SA4XXDIP-C575D810U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2
2.5°	895.0	894.4	892.2	891.9	892.2	894.4	895.0	895.7	896.6	899.7	896.0
5°	826.8	824.9	823.7	828.0	823.7	824.9	826.8	829.1	833.0	833.4	837.3
7.5°	775.4	773.8	770.4	769.3	770.4	773.8	775.4	776.8	780.7	784.0	789.8
10°	742.4	740.8	737.7	736.9	737.7	740.8	742.4	746.3	750.1	754.4	758.3
12.5°	710.6	707.5	706.9	707.7	706.9	707.5	710.6	715.8	725.9	725.8	726.6
15°	668.4	666.9	662.6	663.8	662.6	666.9	668.4	673.5	678.2	684.0	689.8
17.5°	626.9	625.0	619.8	624.4	619.8	625.0	626.9	629.6	635.6	643.9	652.6
20°	600.7	597.6	594.9	594.5	594.9	597.6	600.7	603.5	610.1	617.1	623.7
22.5°	575.8	573.0	572.8	570.2	572.8	573.0	575.8	580.1	586.7	590.6	596.9
25°	544.7	542.0	541.2	539.3	541.2	542.0	544.7	547.8	552.1	555.2	562.2
27.5°	520.8	519.5	518.1	518.7	518.1	519.5	520.8	521.2	523.2	527.3	531.3
30°	506.2	505.8	505.0	505.0	505.0	505.8	506.2	505.0	507.0	508.9	512.0
32.5°	494.1	494.0	494.4	494.4	494.4	494.0	494.1	492.3	493.0	493.7	495.2
35°	477.0	478.2	479.0	477.8	479.0	478.2	477.0	475.5	474.3	471.6	472.3
37.5°	461.6	462.8	463.9	465.2	463.9	462.8	461.6	458.4	455.6	453.2	450.4
40°	449.8	452.5	453.3	455.2	453.3	452.5	449.8	446.3	443.2	440.4	437.3
42.5°	438.6	441.6	443.6	444.0	443.6	441.6	438.6	435.1	430.4	427.1	422.7
45°	421.4	424.5	427.2	427.2	427.2	424.5	421.4	415.5	410.5	405.4	401.1
47.5°	403.6	408.1	410.8	411.5	410.8	408.1	403.6	397.6	390.5	384.3	378.1
50°	391.4	396.9	399.6	401.5	399.6	396.9	391.4	384.8	377.4	369.6	362.2
52.5°	379.6	385.0	388.7	389.7	388.7	385.0	379.6	371.4	362.5	354.1	347.6
55°	359.1	366.9	371.2	372.7	371.2	366.9	359.1	350.2	341.6	331.1	321.8
57.5°	339.8	347.0	352.0	353.1	352.0	347.0	339.8	329.3	318.3	307.1	297.1
60°	324.9	332.7	338.9	340.1	338.9	332.7	324.9	314.4	302.7	291.8	279.4
62.5°	309.6	317.7	323.3	326.4	323.3	317.7	309.6	298.5	285.9	273.8	261.3
65°	283.3	291.4	296.9	298.0	296.9	291.4	283.3	272.4	259.1	246.3	235.8
67.5°	254.5	262.6	266.2	268.5	266.2	262.6	254.5	244.2	231.1	217.8	205.9
70°	234.2	240.8	244.7	246.7	244.7	240.8	234.2	223.3	212.4	198.8	186.0
72.5°	211.2	218.1	222.6	223.0	222.6	218.1	211.2	201.9	190.3	177.7	166.4
75°	175.9	182.1	184.4	184.4	184.4	182.1	175.9	166.9	157.6	147.5	136.2
77.5°	139.2	142.4	145.4	146.0	145.4	142.4	139.2	132.8	125.1	114.9	106.5
80°	115.6	117.5	119.8	119.8	119.8	117.5	115.6	109.7	102.3	93.8	87.2
82.5°	91.3	92.9	95.2	94.9	95.2	92.9	91.3	86.7	80.5	74.8	68.8
85°	55.2	58.8	58.4	57.6	58.4	58.8	55.2	56.0	50.2	46.3	40.9
87.5°	28.2	28.7	29.4	30.1	29.4	28.7	28.2	27.1	24.3	22.6	21.2
90°	16.4	17.2	16.4	16.4	16.4	17.2	16.4	15.6	15.6	14.9	14.1
92.5°	67.1	62.9	60.2	60.2	60.2	62.9	67.1	76.3	92.0	115.6	153.6
95°	239.3	215.0	201.0	190.8	201.0	215.0	239.3	277.6	353.4	458.2	579.4
97.5°	596.8	549.7	526.2	510.0	526.2	549.7	596.8	652.9	734.5	811.0	856.0
100°	794.4	746.7	723.3	717.0	723.3	746.7	794.4	862.5	920.3	958.6	943.0
102.5°	961.5	926.9	902.2	897.2	902.2	926.9	961.5	1003.2	1027.3	1016.2	938.6
105°	1122.1	1115.8	1104.9	1100.2	1104.9	1115.8	1122.1	1120.5	1088.4	1011.0	875.8
107.5°	1147.9	1165.7	1173.5	1175.5	1173.5	1165.7	1147.9	1109.2	1039.5	930.5	786.5
110°	1122.8	1155.7	1169.8	1176.8	1169.8	1155.7	1122.8	1067.3	981.3	867.9	732.7



TEST NUMBER: P332555

CATALOG NUMBER: SA4XXDIP-C575D810U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1069.0	1108.8	1128.5	1139.9	1128.5	1108.8	1069.0	1006.0	920.0	812.9	693.3
115°	978.2	1025.1	1050.1	1056.4	1050.1	1025.1	978.2	916.4	841.3	749.9	653.7
117.5°	902.2	941.6	966.9	971.8	966.9	941.6	902.2	849.5	785.8	713.9	634.3
120°	860.9	895.3	915.6	924.2	915.6	895.3	860.9	816.3	760.8	698.3	625.5
122.5°	831.5	860.9	878.1	886.7	878.1	860.9	831.5	793.8	745.2	688.2	618.0
125°	800.7	823.4	838.2	842.9	838.2	823.4	800.7	769.4	726.4	672.5	605.2
127.5°	779.9	800.1	812.6	817.3	812.6	800.1	779.9	748.5	707.6	653.8	589.6
130°	765.5	785.1	797.6	802.3	797.6	785.1	765.5	733.4	692.0	638.8	577.1
132.5°	746.7	768.8	780.7	785.4	780.7	768.8	746.7	715.3	673.9	621.9	563.9
135°	714.7	736.6	749.1	753.8	749.1	736.6	714.7	683.4	644.3	596.6	545.8
137.5°	677.1	698.7	709.0	714.7	709.0	698.7	677.1	647.9	612.6	572.4	529.4
140°	652.1	669.3	680.3	686.5	680.3	669.3	652.1	624.8	591.9	556.7	520.0
142.5°	626.5	642.4	652.1	656.5	652.1	642.4	626.5	602.2	573.8	543.6	511.2
145°	590.4	603.6	611.5	615.4	611.5	603.6	590.4	570.8	548.9	525.5	498.9
147.5°	560.2	571.6	577.5	578.9	577.5	571.6	560.2	545.8	528.6	509.8	488.7
150°	542.7	552.8	557.5	558.3	557.5	552.8	542.7	530.1	516.1	500.4	482.4
152.5°	527.6	535.9	538.7	539.5	538.7	535.9	527.6	517.0	505.4	491.0	475.6
155°	506.7	512.9	515.3	515.3	515.3	512.9	506.7	498.9	489.5	477.8	465.2
157.5°	487.9	492.6	494.0	494.0	494.0	492.6	487.9	482.0	474.5	464.6	454.1
160°	475.4	480.1	480.9	480.9	480.9	480.1	475.4	470.7	464.5	455.9	447.3
162.5°	463.5	468.2	469.0	468.4	469.0	468.2	463.5	460.1	454.5	447.7	440.4
165°	448.0	451.2	450.4	449.6	450.4	451.2	448.0	444.9	441.0	435.5	430.8
167.5°	433.5	435.5	435.4	434.7	435.4	435.5	433.5	431.9	429.6	425.2	421.6
170°	425.4	426.1	425.4	425.4	425.4	426.1	425.4	423.8	421.5	418.3	416.0
172.5°	417.2	418.0	417.2	416.0	417.2	418.0	417.2	416.3	414.6	412.7	411.0
175°	406.6	408.2	406.6	405.0	406.6	408.2	406.6	406.6	406.6	405.0	404.3
177.5°	400.5	401.1	399.9	398.6	399.9	401.1	400.5	401.1	400.5	400.5	399.9
180°	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0



TEST NUMBER: P332555
 CATALOG NUMBER: SA4XXDIP-C575D810U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2
2.5°	897.8	899.1	904.1	908.7	914.3	918.4	921.2	924.3	930.8	936.1	941.1
5°	841.2	843.1	853.3	860.3	872.3	882.8	891.0	899.9	910.5	924.8	938.1
7.5°	791.3	798.6	809.6	821.0	833.3	847.0	859.0	872.5	890.6	910.4	930.8
10°	763.0	771.2	782.8	796.1	807.7	823.7	838.5	854.4	875.0	899.2	923.3
12.5°	734.7	748.1	757.0	772.7	785.3	798.5	814.2	835.1	859.2	884.5	913.6
15°	699.2	706.6	723.7	732.3	750.1	770.4	785.9	807.0	830.3	863.8	896.4
17.5°	658.2	668.0	681.6	697.9	718.5	734.3	753.7	775.3	804.7	837.9	878.9
20°	631.5	639.7	656.4	674.3	696.1	712.8	733.4	754.4	784.8	820.2	863.0
22.5°	607.5	615.4	633.0	649.7	670.9	691.3	712.9	737.3	766.4	803.7	847.4
25°	570.4	580.9	596.5	613.6	633.8	657.2	680.5	702.3	733.4	772.7	819.4
27.5°	537.5	545.9	557.2	576.6	599.6	622.1	645.3	672.7	702.6	744.2	792.6
30°	516.3	524.1	535.4	553.3	574.7	598.8	622.9	649.4	680.5	721.7	771.2
32.5°	499.5	505.4	515.5	531.5	551.0	576.4	600.2	627.6	660.3	700.9	749.1
35°	474.7	479.7	483.6	498.8	516.3	539.7	563.8	593.0	624.5	663.0	711.2
37.5°	450.3	452.0	457.7	467.7	484.6	506.1	528.5	557.2	589.5	628.7	672.2
40°	435.4	436.2	439.7	449.0	463.8	484.0	505.8	534.2	564.9	601.9	645.1
42.5°	420.8	420.3	423.5	430.0	443.9	462.2	483.7	509.6	540.4	574.5	615.2
45°	397.6	397.6	396.9	402.3	413.6	431.5	449.4	474.3	500.0	533.4	567.7
47.5°	373.5	371.3	372.0	374.8	384.3	399.0	417.1	437.5	460.1	488.5	518.5
50°	358.0	354.8	353.7	356.8	365.3	378.2	395.3	413.2	434.6	459.5	485.2
52.5°	340.8	337.7	335.6	337.8	345.7	357.6	373.2	388.9	408.1	428.4	450.6
55°	314.4	310.9	309.7	310.5	316.3	325.7	338.9	353.3	367.7	384.4	400.0
57.5°	288.3	282.6	281.5	281.1	285.1	293.7	304.7	317.2	327.7	337.8	354.4
60°	271.2	264.2	261.9	261.5	264.6	271.6	281.7	294.1	301.5	308.5	322.9
62.5°	252.8	246.1	241.0	241.5	244.3	251.0	259.9	268.9	273.8	281.5	291.2
65°	224.5	215.9	212.0	210.9	212.4	217.9	224.9	230.7	236.2	239.3	248.6
67.5°	196.2	189.0	183.3	181.9	181.2	184.9	190.6	194.2	198.0	200.8	206.3
70°	176.3	170.0	163.0	160.7	160.3	163.4	168.9	169.3	174.7	175.9	181.7
72.5°	156.6	148.9	144.0	141.7	140.1	142.9	146.5	147.5	150.4	152.5	155.6
75°	126.1	120.2	115.6	112.1	110.9	112.4	112.4	114.4	116.3	117.5	121.0
77.5°	99.2	92.5	87.0	85.0	83.6	82.6	83.4	84.6	83.7	85.7	86.5
80°	80.5	73.5	69.3	68.5	66.1	64.2	63.8	65.0	63.4	64.2	66.5
82.5°	62.2	57.7	53.1	52.3	49.3	48.3	47.9	47.2	47.2	47.1	47.5
85°	37.0	34.2	31.1	29.2	28.0	26.1	26.1	25.3	24.5	23.7	24.1
87.5°	17.6	17.1	15.3	14.0	13.4	11.2	11.2	10.1	9.7	8.9	8.2
90°	13.3	14.1	12.5	10.9	10.9	6.3	6.3	5.5	4.7	2.3	0.8
92.5°	206.6	248.0	217.1	157.9	97.3	57.5	41.3	29.9	20.3	13.0	8.9
95°	655.3	637.3	480.9	294.0	165.8	97.7	64.9	46.1	36.0	28.1	25.8
97.5°	823.2	671.2	450.1	264.3	158.4	106.0	78.5	62.4	53.0	46.3	46.3
100°	828.8	628.7	408.2	248.7	160.3	114.2	89.1	74.3	64.9	59.4	59.4
102.5°	781.9	575.5	380.0	244.3	166.5	124.8	101.0	86.8	78.0	73.2	71.9
105°	696.7	512.9	355.8	246.3	181.4	143.9	121.2	107.1	97.7	93.8	91.5
107.5°	627.9	477.9	351.4	257.9	198.8	164.4	142.0	128.5	118.5	114.6	113.1
110°	593.5	466.0	352.6	266.6	211.9	177.5	156.4	142.3	132.9	129.0	127.5



TEST NUMBER: P332555

CATALOG NUMBER: SA4XXDIP-C575D810U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	574.1	460.4	356.4	276.0	224.4	191.3	170.1	156.1	147.3	142.8	141.2
115°	555.9	457.4	363.6	290.9	244.0	212.7	191.6	176.7	168.9	163.4	161.1
117.5°	547.8	456.6	371.3	306.0	262.9	233.2	211.3	197.4	188.8	183.9	181.7
120°	543.4	456.6	376.9	316.7	276.0	246.3	224.4	211.1	202.5	197.0	195.5
122.5°	538.4	456.0	382.5	326.7	288.5	258.8	237.5	223.0	215.0	209.6	208.0
125°	530.1	455.1	391.0	341.7	305.7	277.6	255.7	240.8	232.2	227.5	224.4
127.5°	519.0	453.4	397.7	354.7	321.7	294.5	272.4	256.9	247.1	241.5	239.0
130°	512.2	452.7	402.7	362.8	332.3	305.7	283.1	268.2	256.5	250.2	247.1
132.5°	505.9	452.1	407.1	370.9	341.1	314.5	293.1	277.0	265.9	257.7	255.2
135°	496.5	451.2	413.6	381.6	353.4	327.6	307.3	290.9	277.6	269.8	266.6
137.5°	488.4	451.0	417.5	389.1	362.8	338.7	319.3	302.3	289.6	281.0	278.1
140°	484.0	450.4	420.7	394.1	369.1	345.6	326.8	310.4	297.1	288.5	286.2
142.5°	480.3	450.4	423.2	397.8	374.7	351.9	333.7	317.9	305.3	297.3	294.9
145°	473.8	448.8	424.6	401.9	380.8	360.5	343.3	328.4	317.5	309.6	307.3
147.5°	468.1	446.0	425.4	405.5	387.1	368.0	352.5	340.1	328.9	322.0	321.2
150°	463.7	444.1	425.4	407.4	390.2	373.0	358.1	346.4	337.0	330.8	330.0
152.5°	458.7	441.0	424.1	408.6	392.7	377.4	363.8	353.3	344.5	338.3	338.1
155°	451.2	436.3	422.2	409.7	396.4	383.1	371.4	362.8	355.0	350.3	349.5
157.5°	443.5	431.5	420.2	409.7	399.1	387.8	378.6	371.1	365.0	360.6	360.6
160°	437.9	427.7	418.3	409.7	400.3	391.0	382.4	376.1	370.6	367.5	367.5
162.5°	432.9	424.0	416.5	409.7	401.6	392.8	386.1	380.5	375.6	373.1	373.8
165°	424.6	418.3	412.9	408.2	401.9	394.9	390.2	386.3	382.4	380.8	380.8
167.5°	417.1	412.7	409.1	406.3	401.8	396.6	393.0	390.8	387.8	387.1	387.8
170°	412.1	408.9	406.6	405.0	401.1	397.2	394.9	393.3	391.0	390.2	391.0
172.5°	407.7	405.2	404.1	403.8	400.5	397.8	396.1	395.2	393.5	393.3	394.1
175°	402.7	401.1	401.1	401.9	399.6	398.0	398.0	397.2	396.4	396.4	397.2
177.5°	399.2	398.6	398.6	399.9	398.6	398.0	398.0	398.0	397.4	398.0	398.6
180°	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0



TEST NUMBER: P332555

CATALOG NUMBER: SA4XXDIP-C575D810U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2
2.5°	945.5	948.6	952.6	959.5	962.0	965.1	969.4	969.1	970.4	975.0	985.0
5°	949.0	961.0	972.7	986.7	1001.5	1011.2	1024.5	1032.6	1040.8	1051.3	1069.2
7.5°	950.4	969.5	990.9	1015.5	1037.4	1062.6	1082.3	1100.8	1117.5	1139.7	1161.0
10°	948.2	973.9	1001.5	1032.6	1065.7	1093.7	1119.0	1147.8	1172.3	1199.1	1223.3
12.5°	944.1	975.1	1012.1	1046.9	1085.6	1127.0	1158.5	1187.6	1220.2	1251.1	1288.3
15°	935.0	977.4	1020.6	1066.5	1118.2	1166.1	1211.6	1249.3	1284.4	1330.7	1379.3
17.5°	923.3	969.0	1023.5	1079.1	1133.2	1187.9	1244.2	1300.9	1345.1	1402.6	1440.7
20°	912.4	965.3	1021.3	1087.5	1141.6	1209.7	1265.7	1320.5	1381.2	1438.4	1484.0
22.5°	897.1	955.0	1014.5	1080.3	1151.5	1219.6	1284.4	1343.9	1404.6	1466.8	1521.9
25°	877.8	930.3	1000.7	1075.4	1146.2	1220.2	1294.5	1369.2	1434.5	1500.3	1551.7
27.5°	844.8	911.1	976.7	1053.8	1132.5	1216.1	1295.6	1373.8	1442.2	1496.3	1528.2
30°	828.0	885.5	956.8	1034.2	1119.4	1209.3	1292.1	1368.8	1432.6	1475.8	1488.6
32.5°	803.1	862.5	932.2	1012.4	1102.6	1194.9	1281.2	1353.5	1406.8	1429.4	1413.9
35°	766.1	819.8	890.2	972.3	1066.1	1164.5	1249.7	1310.8	1338.1	1316.7	1263.3
37.5°	721.7	775.0	845.7	926.3	1023.4	1123.4	1200.5	1244.4	1235.4	1182.2	1102.7
40°	690.6	740.4	807.7	894.9	989.4	1089.8	1157.5	1181.3	1156.4	1080.1	995.7
42.5°	656.1	704.6	772.2	856.3	956.4	1049.0	1108.0	1110.0	1068.3	977.1	892.3
45°	603.5	649.8	713.6	801.1	893.7	980.9	1019.8	1000.7	923.7	835.7	750.5
47.5°	551.6	591.7	654.6	737.7	825.6	899.0	918.3	884.0	801.9	716.5	637.5
50°	513.6	554.1	613.2	692.6	777.4	840.8	850.1	804.6	724.1	638.1	576.2
52.5°	477.2	517.3	574.3	647.7	725.4	782.6	782.9	730.2	650.0	573.4	515.8
55°	423.7	459.9	511.3	577.0	646.3	691.0	680.1	625.6	556.0	489.5	439.3
57.5°	372.2	403.7	451.0	505.9	566.9	603.8	585.7	533.3	471.1	414.7	376.6
60°	338.9	368.8	409.3	461.1	512.4	541.2	524.1	476.6	419.4	373.9	340.8
62.5°	306.5	331.8	370.7	415.6	463.2	484.6	469.3	422.5	373.1	331.9	305.0
65°	260.7	281.3	312.4	351.0	385.6	403.9	391.0	347.4	309.7	280.1	258.7
67.5°	217.9	234.0	257.6	288.5	317.9	327.8	316.1	285.7	253.8	230.1	215.0
70°	188.3	203.5	223.3	247.1	272.7	283.3	271.6	247.5	221.4	199.6	184.8
72.5°	162.5	174.2	191.0	211.3	231.3	241.9	233.9	210.7	188.7	172.5	159.9
75°	123.7	133.8	145.5	159.9	175.5	182.5	175.5	159.5	144.3	132.3	123.3
77.5°	90.0	95.4	104.4	115.2	124.9	130.3	124.2	113.4	104.1	95.9	91.4
80°	68.5	72.4	78.6	87.2	93.8	98.8	94.9	86.0	78.6	73.1	71.2
82.5°	49.8	52.4	56.5	62.9	67.3	69.9	68.2	61.7	58.7	53.8	51.9
85°	24.5	26.1	28.8	30.7	34.6	35.0	35.4	32.7	30.0	28.8	27.2
87.5°	8.9	9.7	10.7	11.8	13.1	14.3	14.0	14.3	13.4	12.9	11.8
90°	2.3	4.7	5.5	6.3	6.3	10.9	10.9	12.5	14.1	13.3	14.1
92.5°	13.0	20.3	29.9	41.3	57.5	97.3	157.9	217.1	248.0	206.6	153.6
95°	28.1	36.0	46.1	64.9	97.7	165.8	294.0	480.9	637.3	655.3	579.4
97.5°	46.3	53.0	62.4	78.5	106.0	158.4	264.3	450.1	671.2	823.2	856.0
100°	59.4	64.9	74.3	89.1	114.2	160.3	248.7	408.2	628.7	828.8	943.0
102.5°	73.2	78.0	86.8	101.0	124.8	166.5	244.3	380.0	575.5	781.9	938.6
105°	93.8	97.7	107.1	121.2	143.9	181.4	246.3	355.8	512.9	696.7	875.8
107.5°	114.6	118.5	128.5	142.0	164.4	198.8	257.9	351.4	477.9	627.9	786.5
110°	129.0	132.9	142.3	156.4	177.5	211.9	266.6	352.6	466.0	593.5	732.7



TEST NUMBER: P332555

CATALOG NUMBER: SA4XXDIP-C575D810U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	142.8	147.3	156.1	170.1	191.3	224.4	276.0	356.4	460.4	574.1	693.3
115°	163.4	168.9	176.7	191.6	212.7	244.0	290.9	363.6	457.4	555.9	653.7
117.5°	183.9	188.8	197.4	211.3	233.2	262.9	306.0	371.3	456.6	547.8	634.3
120°	197.0	202.5	211.1	224.4	246.3	276.0	316.7	376.9	456.6	543.4	625.5
122.5°	209.6	215.0	223.0	237.5	258.8	288.5	326.7	382.5	456.0	538.4	618.0
125°	227.5	232.2	240.8	255.7	277.6	305.7	341.7	391.0	455.1	530.1	605.2
127.5°	241.5	247.1	256.9	272.4	294.5	321.7	354.7	397.7	453.4	519.0	589.6
130°	250.2	256.5	268.2	283.1	305.7	332.3	362.8	402.7	452.7	512.2	577.1
132.5°	257.7	265.9	277.0	293.1	314.5	341.1	370.9	407.1	452.1	505.9	563.9
135°	269.8	277.6	290.9	307.3	327.6	353.4	381.6	413.6	451.2	496.5	545.8
137.5°	281.0	289.6	302.3	319.3	338.7	362.8	389.1	417.5	451.0	488.4	529.4
140°	288.5	297.1	310.4	326.8	345.6	369.1	394.1	420.7	450.4	484.0	520.0
142.5°	297.3	305.3	317.9	333.7	351.9	374.7	397.8	423.2	450.4	480.3	511.2
145°	309.6	317.5	328.4	343.3	360.5	380.8	401.9	424.6	448.8	473.8	498.9
147.5°	322.0	328.9	340.1	352.5	368.0	387.1	405.5	425.4	446.0	468.1	488.7
150°	330.8	337.0	346.4	358.1	373.0	390.2	407.4	425.4	444.1	463.7	482.4
152.5°	338.3	344.5	353.3	363.8	377.4	392.7	408.6	424.1	441.0	458.7	475.6
155°	350.3	355.0	362.8	371.4	383.1	396.4	409.7	422.2	436.3	451.2	465.2
157.5°	360.6	365.0	371.1	378.6	387.8	399.1	409.7	420.2	431.5	443.5	454.1
160°	367.5	370.6	376.1	382.4	391.0	400.3	409.7	418.3	427.7	437.9	447.3
162.5°	373.1	375.6	380.5	386.1	392.8	401.6	409.7	416.5	424.0	432.9	440.4
165°	380.8	382.4	386.3	390.2	394.9	401.9	408.2	412.9	418.3	424.6	430.8
167.5°	387.1	387.8	390.8	393.0	396.6	401.8	406.3	409.1	412.7	417.1	421.6
170°	390.2	391.0	393.3	394.9	397.2	401.1	405.0	406.6	408.9	412.1	416.0
172.5°	393.3	393.5	395.2	396.1	397.8	400.5	403.8	404.1	405.2	407.7	411.0
175°	396.4	396.4	397.2	398.0	398.0	399.6	401.9	401.1	401.1	402.7	404.3
177.5°	398.0	397.4	398.0	398.0	398.0	398.6	399.9	398.6	398.6	399.2	399.9
180°	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0



TEST NUMBER: P332555

CATALOG NUMBER: SA4XXDIP-C575D810U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	939.2	939.2	939.2	939.2	939.2	939.2	939.2
2.5°	990.0	990.6	993.4	995.6	996.2	999.3	999.6
5°	1077.0	1083.6	1096.4	1097.6	1099.5	1109.7	1101.9
7.5°	1178.9	1195.7	1206.9	1216.8	1220.4	1224.8	1223.9
10°	1244.3	1269.2	1281.6	1301.5	1302.3	1307.3	1304.2
12.5°	1310.0	1338.9	1361.6	1365.3	1381.9	1384.5	1388.9
15°	1403.0	1433.8	1465.3	1476.6	1499.5	1505.0	1513.5
17.5°	1490.5	1521.9	1544.0	1573.2	1582.6	1595.2	1586.7
20°	1538.4	1572.7	1600.7	1623.6	1633.4	1640.4	1639.6
22.5°	1567.4	1601.9	1624.6	1642.0	1651.1	1654.1	1653.9
25°	1585.5	1605.4	1612.4	1619.0	1608.9	1605.4	1606.9
27.5°	1535.1	1529.9	1511.7	1487.7	1462.8	1443.0	1432.3
30°	1465.7	1435.3	1407.7	1359.5	1334.5	1319.8	1306.5
32.5°	1367.3	1319.2	1266.1	1221.9	1193.5	1171.6	1168.3
35°	1198.8	1126.4	1061.4	1007.3	979.3	955.6	950.1
37.5°	1019.2	944.0	885.5	837.8	807.7	791.0	775.4
40°	899.9	835.4	777.8	737.3	714.4	702.3	692.6
42.5°	808.1	749.1	691.9	661.0	640.3	632.9	627.2
45°	681.3	626.4	586.7	563.4	551.3	538.9	533.0
47.5°	579.7	535.1	508.9	489.1	476.2	468.8	465.0
50°	522.1	485.6	462.2	447.1	435.4	429.5	426.4
52.5°	471.1	441.1	421.5	409.4	401.5	397.2	395.9
55°	405.8	382.9	370.4	359.9	354.1	350.2	348.6
57.5°	352.7	335.1	325.0	316.3	314.1	310.8	309.7
60°	317.9	304.3	295.7	289.9	287.9	284.0	284.8
62.5°	287.1	275.9	268.6	265.3	262.7	259.4	260.5
65°	242.8	234.6	230.7	227.6	224.5	222.6	224.1
67.5°	203.7	198.1	192.8	191.0	189.5	189.2	187.5
70°	178.2	173.5	168.9	167.7	167.7	166.1	165.7
72.5°	153.6	150.2	147.1	146.2	145.0	145.6	144.0
75°	118.7	115.9	114.8	113.6	113.2	113.2	112.1
77.5°	87.7	85.7	83.8	83.8	82.4	81.9	81.7
80°	66.5	65.8	64.2	64.2	63.4	63.8	63.0
82.5°	50.0	48.9	48.6	48.0	46.9	47.0	46.2
85°	26.8	25.7	25.3	24.1	23.3	24.1	23.3
87.5°	12.3	12.2	11.8	11.4	11.2	11.1	10.1
90°	14.9	15.6	15.6	16.4	17.2	16.4	16.4
92.5°	115.6	92.0	76.3	67.1	62.9	60.2	60.2
95°	458.2	353.4	277.6	239.3	215.0	201.0	190.8
97.5°	811.0	734.5	652.9	596.8	549.7	526.2	510.0
100°	958.6	920.3	862.5	794.4	746.7	723.3	717.0
102.5°	1016.2	1027.3	1003.2	961.5	926.9	902.2	897.2
105°	1011.0	1088.4	1120.5	1122.1	1115.8	1104.9	1100.2
107.5°	930.5	1039.5	1109.2	1147.9	1165.7	1173.5	1175.5
110°	867.9	981.3	1067.3	1122.8	1155.7	1169.8	1176.8



TEST NUMBER: P332555

CATALOG NUMBER: SA4XXDIP-C575D810U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	812.9	920.0	1006.0	1069.0	1108.8	1128.5	1139.9
115°	749.9	841.3	916.4	978.2	1025.1	1050.1	1056.4
117.5°	713.9	785.8	849.5	902.2	941.6	966.9	971.8
120°	698.3	760.8	816.3	860.9	895.3	915.6	924.2
122.5°	688.2	745.2	793.8	831.5	860.9	878.1	886.7
125°	672.5	726.4	769.4	800.7	823.4	838.2	842.9
127.5°	653.8	707.6	748.5	779.9	800.1	812.6	817.3
130°	638.8	692.0	733.4	765.5	785.1	797.6	802.3
132.5°	621.9	673.9	715.3	746.7	768.8	780.7	785.4
135°	596.6	644.3	683.4	714.7	736.6	749.1	753.8
137.5°	572.4	612.6	647.9	677.1	698.7	709.0	714.7
140°	556.7	591.9	624.8	652.1	669.3	680.3	686.5
142.5°	543.6	573.8	602.2	626.5	642.4	652.1	656.5
145°	525.5	548.9	570.8	590.4	603.6	611.5	615.4
147.5°	509.8	528.6	545.8	560.2	571.6	577.5	578.9
150°	500.4	516.1	530.1	542.7	552.8	557.5	558.3
152.5°	491.0	505.4	517.0	527.6	535.9	538.7	539.5
155°	477.8	489.5	498.9	506.7	512.9	515.3	515.3
157.5°	464.6	474.5	482.0	487.9	492.6	494.0	494.0
160°	455.9	464.5	470.7	475.4	480.1	480.9	480.9
162.5°	447.7	454.5	460.1	463.5	468.2	469.0	468.4
165°	435.5	441.0	444.9	448.0	451.2	450.4	449.6
167.5°	425.2	429.6	431.9	433.5	435.5	435.4	434.7
170°	418.3	421.5	423.8	425.4	426.1	425.4	425.4
172.5°	412.7	414.6	416.3	417.2	418.0	417.2	416.0
175°	405.0	406.6	406.6	406.6	408.2	406.6	405.0
177.5°	400.5	400.5	401.1	400.5	401.1	399.9	398.6
180°	398.0	398.0	398.0	398.0	398.0	398.0	398.0

(END OF REPORT)