

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: P332564-840

Luminaire Tested: **SA4XXDIP-C575D1035U840-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332564-840  
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-C575D1035U840-4F0-1E-UDD-A4  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 575 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1035 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

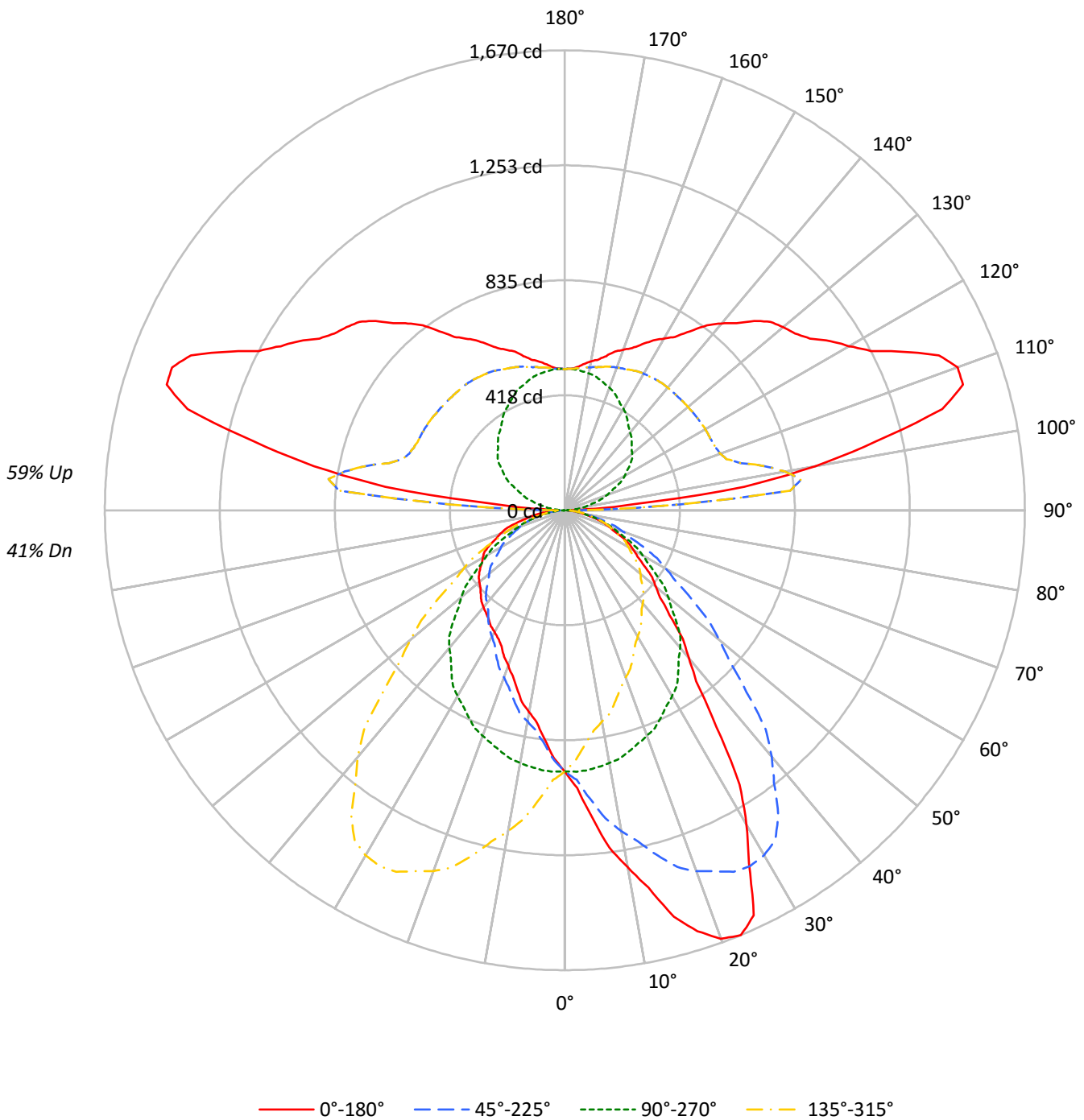
Lumens per Lamp: N/A  
Luminaire Lumens: 6351.9 lumens  
Efficiency: N/A  
Efficacy: 142.7 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 44.5  
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	105	105	105	105	96	96	96	96	78	78	78	63	63	63	48	48	48	41				
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	43	42	41	35				
2	88	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	30				
3	80	71	64	58	73	65	59	54	54	49	45	43	40	37	34	32	30	25				
4	73	63	55	49	67	58	51	46	48	43	39	39	35	32	30	28	26	22				
5	67	56	48	42	61	51	44	39	43	38	34	35	31	28	27	25	23	19				
6	62	50	42	37	56	46	39	34	39	33	29	31	28	25	25	22	20	17				
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15				
8	53	41	33	28	48	38	31	26	32	27	23	26	22	19	21	18	16	13				
9	49	37	30	25	45	35	28	24	29	24	20	24	20	17	19	16	14	12				
10	46	34	27	23	42	32	25	21	27	22	18	22	18	16	18	15	13	11				

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

	0°	90°	180°	270°
0°	7657	7657	7657	7657
5°	9018	7678	6776	7678
10°	10797	7643	6101	7643
15°	12774	7565	5602	7565
20°	14225	7487	5158	7487
25°	14455	7371	4851	7371
30°	12299	7260	4754	7260
35°	9456	7078	4755	7078
40°	7371	6866	4845	6866
45°	6146	6545	4925	6545
50°	5408	6154	5093	6154
55°	4954	5685	5298	5685
60°	4644	5265	5546	5265
65°	4323	4797	5748	4797
70°	3949	4331	5880	4331
75°	3531	3812	5808	3812
80°	2957	3124	5625	3124
85°	2177	2251	5391	2251



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.4	1.5
10°-20°	284.8	4.5
20°-30°	451.7	7.1
30°-40°	502.6	7.9
40°-50°	457.5	7.2
50°-60°	373.9	5.9
60°-70°	266.9	4.2
70°-80°	147.0	2.3
80°-90°	43.0	0.7
90°-100°	370.6	5.8
100°-110°	771.4	12.1
110°-120°	690.9	10.9
120°-130°	581.2	9.2
130°-140°	484.6	7.6
140°-150°	370.2	5.8
150°-160°	260.2	4.1
160°-170°	153.1	2.4
170°-180°	49.8	0.8
0°-30°	828.9	13.0
0°-40°	1331.5	21.0
0°-60°	2162.9	34.1
0°-90°	2619.8	41.2
90°-120°	1833.0	28.9
90°-150°	3269.0	51.5
90°-180°	3732.0	58.8
0°-180°	6351.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	948	948	948	948	948	
5°	1113	947	836	947	1113	113
15°	1528	905	670	905	1528	432
25°	1623	828	545	828	1623	715
35°	960	718	482	718	960	609
45°	538	573	431	573	538	424
55°	352	404	376	404	352	318
65°	226	251	301	251	226	224
75°	113	122	186	122	113	120
85°	24	24	58	24	24	29
90°	21	1	21	1	21	18
95°	246	33	246	33	246	382
105°	1418	118	1418	118	1418	1402
115°	1362	208	1362	208	1362	1352
125°	1087	289	1087	289	1087	988
135°	972	344	972	344	972	750
145°	794	396	794	396	794	503
155°	664	451	664	451	664	310
165°	580	491	580	491	580	166
175°	522	512	522	512	522	51
180°	513	513	513	513	513	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5
2.5°	1009.5	1009.2	1006.0	1005.4	1003.2	1000.4	999.8	994.7	984.6	980.0	978.7
5°	1112.8	1120.6	1110.3	1108.4	1107.2	1094.3	1087.6	1079.7	1061.7	1051.1	1042.8
7.5°	1236.0	1236.9	1232.4	1228.8	1218.8	1207.5	1190.5	1172.5	1150.9	1128.5	1111.7
10°	1317.1	1320.2	1315.1	1314.3	1294.2	1281.7	1256.6	1235.4	1210.9	1183.9	1159.1
12.5°	1402.6	1398.2	1395.5	1378.8	1375.0	1352.1	1322.9	1301.0	1263.4	1232.2	1199.3
15°	1528.4	1519.8	1514.3	1491.2	1479.8	1447.9	1416.8	1392.9	1343.8	1297.1	1261.6
17.5°	1602.4	1610.9	1598.2	1588.7	1559.2	1536.9	1505.2	1454.9	1416.4	1358.4	1313.7
20°	1655.8	1656.6	1649.5	1639.6	1616.5	1588.2	1553.6	1498.6	1452.6	1394.8	1333.5
22.5°	1670.2	1670.4	1667.4	1658.2	1640.6	1617.7	1582.9	1536.9	1481.3	1418.5	1357.2
25°	1622.8	1621.2	1624.8	1635.0	1628.3	1621.2	1601.1	1567.0	1515.1	1448.7	1382.7
27.5°	1446.4	1457.2	1477.2	1502.4	1526.6	1545.0	1550.2	1543.3	1511.1	1456.4	1387.4
30°	1319.4	1332.8	1347.7	1372.9	1421.6	1449.5	1480.2	1503.3	1490.4	1446.7	1382.3
32.5°	1179.8	1183.2	1205.3	1234.0	1278.6	1332.2	1380.8	1427.8	1443.5	1420.7	1366.9
35°	959.5	965.0	989.0	1017.2	1071.9	1137.5	1210.6	1275.8	1329.7	1351.3	1323.7
37.5°	783.0	798.8	815.7	846.1	894.2	953.3	1029.3	1113.6	1193.9	1247.6	1256.7
40°	699.4	709.2	721.4	744.6	785.5	843.6	908.8	1005.5	1090.8	1167.8	1193.0
42.5°	633.4	639.1	646.6	667.5	698.7	756.5	816.1	901.1	986.7	1078.8	1121.0
45°	538.3	544.2	556.7	569.0	592.5	632.6	688.0	757.9	843.9	932.8	1010.6
47.5°	469.6	473.4	480.9	493.9	513.9	540.4	585.4	643.8	723.6	809.8	892.7
50°	430.6	433.7	439.7	451.5	466.8	490.4	527.3	581.9	644.4	731.2	812.5
52.5°	399.8	401.1	405.5	413.4	425.7	445.5	475.7	520.9	579.1	656.4	737.4
55°	352.0	353.7	357.6	363.5	374.1	386.7	409.8	443.6	494.3	561.5	631.8
57.5°	312.8	313.9	317.2	319.4	328.2	338.4	356.2	380.3	418.8	475.7	538.6
60°	287.6	286.8	290.7	292.8	298.6	307.3	321.0	344.2	377.6	423.5	481.3
62.5°	263.1	262.0	265.3	267.9	271.2	278.6	289.9	308.0	335.2	376.8	426.7
65°	226.3	224.8	226.7	229.8	233.0	236.9	245.2	261.3	282.9	312.8	350.8
67.5°	189.3	191.1	191.4	192.9	194.7	200.1	205.7	217.1	232.4	256.3	288.5
70°	167.3	167.7	169.4	169.4	170.6	175.2	180.0	186.6	201.6	223.6	249.9
72.5°	145.4	147.0	146.4	147.6	148.6	151.7	155.1	161.5	174.2	190.6	212.8
75°	113.2	114.3	114.3	114.7	115.9	117.0	119.9	124.5	133.6	145.7	161.1
77.5°	82.5	82.7	83.2	84.6	84.6	86.5	88.6	92.3	96.8	105.1	114.5
80°	63.6	64.4	64.0	64.8	64.8	66.4	67.2	71.9	73.8	79.4	86.8
82.5°	46.7	47.5	47.4	48.5	49.1	49.4	50.5	52.4	54.3	59.3	62.3
85°	23.5	24.3	23.5	24.3	25.5	26.0	27.1	27.5	29.1	30.3	33.0
87.5°	11.1	12.1	12.3	12.4	12.8	13.1	13.2	12.7	13.8	14.3	15.1
90°	21.2	21.2	22.2	21.2	20.2	20.2	19.2	18.2	17.2	18.2	16.2
92.5°	77.7	77.7	81.1	86.5	98.4	118.6	149.1	198.0	266.4	319.8	279.8
95°	246.0	259.1	277.2	308.5	357.9	455.7	590.8	747.0	844.9	821.6	620.1
97.5°	657.5	678.5	708.7	769.4	841.8	947.1	1045.6	1103.8	1061.4	865.4	580.3
100°	924.5	932.5	962.8	1024.3	1112.0	1186.6	1236.0	1215.9	1068.6	810.5	526.2
102.5°	1156.8	1163.3	1195.1	1239.6	1293.4	1324.5	1310.2	1210.2	1008.1	742.0	490.0
105°	1418.5	1424.5	1438.7	1446.7	1444.7	1403.3	1303.5	1129.1	898.3	661.4	458.7
107.5°	1515.7	1513.1	1503.0	1480.0	1430.2	1340.3	1199.7	1014.0	809.5	616.2	453.0
110°	1517.3	1508.2	1490.1	1447.7	1376.1	1265.3	1119.0	944.6	765.2	600.9	454.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1469.7	1455.0	1429.6	1378.4	1297.1	1186.2	1048.0	893.8	740.2	593.6	459.5
115°	1362.0	1353.9	1321.7	1261.2	1181.5	1084.8	966.8	842.8	716.8	589.8	468.8
117.5°	1252.9	1246.7	1214.1	1163.3	1095.3	1013.2	920.5	817.8	706.3	588.8	478.7
120°	1191.6	1180.5	1154.4	1109.9	1052.5	981.0	900.3	806.5	700.6	588.8	485.9
122.5°	1143.3	1132.2	1109.9	1072.1	1023.5	960.8	887.4	796.9	694.2	587.9	493.2
125°	1086.8	1080.8	1061.6	1032.4	992.0	936.5	867.0	780.3	683.6	586.7	504.1
127.5°	1053.7	1047.6	1031.6	1005.5	965.0	912.4	843.0	760.1	669.2	584.5	512.7
130°	1034.4	1028.3	1012.2	986.9	945.6	892.2	823.6	744.1	660.4	583.7	519.2
132.5°	1012.6	1006.5	991.2	962.8	922.3	868.8	801.9	727.1	652.3	582.9	524.8
135°	971.9	965.8	949.7	921.5	881.1	830.7	769.2	703.7	640.2	581.7	533.3
137.5°	921.5	914.2	900.9	873.0	835.4	789.8	738.0	682.6	629.7	581.5	538.4
140°	885.1	877.1	863.0	840.8	805.5	763.2	717.8	670.4	624.1	580.7	542.4
142.5°	846.5	840.8	828.3	807.7	776.5	739.8	700.8	659.1	619.2	580.7	545.6
145°	793.5	788.4	778.3	761.1	736.0	707.7	677.5	643.2	611.0	578.7	547.4
147.5°	746.4	744.7	737.0	722.3	703.7	681.6	657.3	630.1	603.5	575.0	548.5
150°	719.8	718.8	712.8	699.6	683.6	665.4	645.2	622.1	597.8	572.6	548.5
152.5°	695.6	694.6	690.9	680.3	666.6	651.7	633.1	613.2	591.4	568.6	546.8
155°	664.4	664.4	661.4	653.3	643.2	631.1	616.0	599.9	581.7	562.6	544.4
157.5°	636.9	636.9	635.1	629.0	621.5	611.8	599.1	585.5	571.8	556.3	541.8
160°	620.1	620.1	619.0	613.0	606.9	598.8	587.7	576.6	564.6	551.5	539.4
162.5°	603.9	604.7	603.7	597.6	593.2	585.9	577.2	567.7	558.2	546.6	536.9
165°	579.7	580.7	581.7	577.6	573.6	568.6	561.6	555.5	547.4	539.4	532.3
167.5°	560.6	561.4	561.6	559.0	556.9	553.9	548.3	543.6	537.8	532.1	527.5
170°	548.5	548.5	549.5	548.5	546.4	543.4	539.4	536.3	531.3	527.3	524.2
172.5°	536.3	538.0	539.0	538.0	536.7	534.5	532.1	529.9	525.6	522.4	521.0
175°	522.2	524.2	526.2	524.2	524.2	524.2	522.2	521.2	519.2	517.2	517.2
177.5°	513.9	515.5	517.2	516.3	517.2	516.3	516.3	515.5	514.7	513.9	513.9
180°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5
2.5°	979.0	974.6	971.5	969.0	962.0	958.0	954.8	950.4	945.3	940.0	933.4
5°	1034.6	1021.2	1011.4	996.4	982.3	970.5	958.4	947.4	933.9	919.5	908.8
7.5°	1093.0	1073.1	1047.6	1025.5	1000.7	979.1	959.8	940.0	919.4	899.4	881.1
10°	1130.0	1104.5	1076.2	1042.8	1011.4	983.5	957.6	932.4	908.1	883.6	862.8
12.5°	1169.9	1138.1	1096.3	1057.2	1022.1	984.7	953.4	922.6	893.2	867.7	843.3
15°	1223.6	1177.6	1129.2	1077.0	1030.7	987.0	944.2	905.2	872.3	838.5	815.0
17.5°	1256.5	1199.6	1144.4	1089.7	1033.6	978.6	932.4	887.6	846.2	812.6	782.9
20°	1278.2	1221.6	1152.9	1098.2	1031.4	974.8	921.4	871.5	828.3	792.5	761.8
22.5°	1297.1	1231.6	1162.9	1091.0	1024.5	964.4	905.9	855.8	811.6	774.0	744.6
25°	1307.3	1232.2	1157.5	1086.0	1010.6	939.5	886.5	827.5	780.3	740.6	709.2
27.5°	1308.4	1228.1	1143.7	1064.2	986.3	920.1	853.1	800.4	751.5	709.5	679.3
30°	1304.8	1221.2	1130.4	1044.4	966.2	894.2	836.2	778.8	728.8	687.2	655.8
32.5°	1293.8	1206.7	1113.5	1022.4	941.4	871.0	811.0	756.5	707.8	666.8	633.8
35°	1262.0	1176.0	1076.6	981.9	899.0	827.9	773.7	718.2	669.5	630.7	598.8
37.5°	1212.3	1134.5	1033.5	935.4	854.0	782.6	728.8	678.8	634.9	595.3	562.7
40°	1168.9	1100.6	999.2	903.7	815.7	747.7	697.4	651.5	607.8	570.5	539.5
42.5°	1118.9	1059.3	965.8	864.7	779.8	711.6	662.6	621.3	580.2	545.7	514.6
45°	1029.9	990.6	902.5	809.0	720.6	656.2	609.5	573.3	538.7	504.9	479.0
47.5°	927.4	907.9	833.7	745.0	661.1	597.5	557.0	523.6	493.3	464.6	441.8
50°	858.5	849.1	785.1	699.4	619.2	559.6	518.7	490.0	464.0	438.9	417.3
52.5°	790.6	790.3	732.6	654.1	580.0	522.4	481.9	455.0	432.6	412.1	392.7
55°	686.8	697.8	652.7	582.7	516.3	464.4	427.9	403.9	388.2	371.3	356.8
57.5°	591.5	609.8	572.5	510.9	455.4	407.7	375.9	357.9	341.1	330.9	320.3
60°	529.3	546.5	517.5	465.6	413.3	372.4	342.2	326.1	311.5	304.5	297.0
62.5°	473.9	489.4	467.8	419.7	374.4	335.1	309.5	294.1	284.3	276.5	271.6
65°	394.9	407.9	389.4	354.5	315.5	284.1	263.3	251.1	241.7	238.5	233.0
67.5°	319.2	331.0	321.0	291.3	260.1	236.3	220.0	208.3	202.8	200.0	196.1
70°	274.3	286.1	275.4	249.5	225.5	205.5	190.2	183.5	177.6	176.4	171.0
72.5°	236.2	244.3	233.6	213.4	192.9	175.9	164.1	157.1	154.0	151.9	149.0
75°	177.2	184.3	177.2	161.5	146.9	135.1	124.9	122.2	118.7	117.4	115.5
77.5°	125.4	131.6	126.1	116.3	105.4	96.3	90.9	87.4	86.5	84.5	85.4
80°	95.8	99.8	94.7	88.1	79.4	73.1	69.2	67.2	64.8	64.0	65.6
82.5°	68.9	70.6	68.0	63.5	57.1	52.9	50.3	48.0	47.6	47.7	47.7
85°	35.7	35.3	34.9	31.0	29.1	26.4	24.7	24.3	23.9	24.7	25.5
87.5°	14.7	15.0	13.5	12.3	11.1	10.0	9.1	8.4	9.1	10.0	10.5
90°	14.1	14.1	8.1	8.1	7.1	6.1	3.0	1.0	3.0	6.1	7.1
92.5°	203.7	125.4	74.2	53.2	38.5	26.3	16.8	11.5	16.8	26.3	38.5
95°	379.1	213.7	126.0	83.7	59.5	46.4	36.3	33.2	36.3	46.4	59.5
97.5°	340.7	204.3	136.7	101.2	80.5	68.4	59.7	59.7	59.7	68.4	80.5
100°	320.6	206.7	147.2	114.9	95.7	83.7	76.6	76.6	76.6	83.7	95.7
102.5°	315.0	214.7	160.9	130.3	111.9	100.6	94.3	92.7	94.3	100.6	111.9
105°	317.6	233.9	185.5	156.2	138.1	126.0	121.0	118.0	121.0	126.0	138.1
107.5°	332.4	256.3	211.9	183.1	165.7	152.8	147.8	145.8	147.8	152.8	165.7
110°	343.8	273.2	228.8	201.7	183.5	171.4	166.3	164.3	166.3	171.4	183.5





TEST NUMBER: P332564-840

CATALOG NUMBER: SA4XXDIP-C575D1035U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	355.9	289.3	246.6	219.3	201.3	190.0	184.1	182.1	184.1	190.0	201.3
115°	375.1	314.6	274.2	247.0	227.8	217.7	210.7	207.7	210.7	217.7	227.8
117.5°	394.6	338.9	300.6	272.4	254.5	243.4	237.1	234.3	237.1	243.4	254.5
120°	408.3	355.9	317.6	289.3	272.2	261.2	254.1	252.1	254.1	261.2	272.2
122.5°	421.2	372.0	333.7	306.3	287.5	277.2	270.1	268.2	270.1	277.2	287.5
125°	440.6	394.2	357.9	329.6	310.5	299.4	293.4	289.3	293.4	299.4	310.5
127.5°	457.3	414.8	379.7	351.2	331.2	318.6	311.3	308.1	311.3	318.6	331.2
130°	467.8	428.5	394.2	365.0	345.8	330.6	322.7	318.6	322.7	330.6	345.8
132.5°	478.3	439.8	405.5	377.9	357.1	342.7	332.2	329.0	332.2	342.7	357.1
135°	492.0	455.7	422.4	396.2	375.1	357.9	347.8	343.8	347.8	357.9	375.1
137.5°	501.7	467.8	436.8	411.7	389.7	373.4	362.3	358.5	362.3	373.4	389.7
140°	508.1	475.8	445.7	421.4	400.2	383.1	372.0	369.0	372.0	383.1	400.2
142.5°	512.9	483.1	453.6	430.3	409.9	393.5	383.3	380.3	383.3	393.5	409.9
145°	518.2	491.0	464.7	442.6	423.4	409.3	399.2	396.2	399.2	409.3	423.4
147.5°	522.8	499.1	474.4	454.4	438.6	424.0	415.2	414.1	415.2	424.0	438.6
150°	525.2	503.1	480.9	461.7	446.7	434.5	426.5	425.5	426.5	434.5	446.7
152.5°	526.8	506.3	486.6	469.0	455.4	444.2	436.2	436.0	436.2	444.2	455.4
155°	528.3	511.1	494.0	478.9	467.8	457.7	451.6	450.6	451.6	457.7	467.8
157.5°	528.3	514.5	500.1	488.2	478.5	470.6	464.9	464.9	464.9	470.6	478.5
160°	528.3	516.1	504.1	493.0	484.9	477.9	473.8	473.8	473.8	477.9	484.9
162.5°	528.3	517.8	506.5	497.9	490.6	484.3	481.1	481.9	481.1	484.3	490.6
165°	526.2	518.2	509.1	503.1	498.1	493.0	491.0	491.0	491.0	493.0	498.1
167.5°	523.8	518.0	511.3	506.8	503.9	500.1	499.1	500.1	499.1	500.1	503.9
170°	522.2	517.2	512.1	509.1	507.2	504.1	503.1	504.1	503.1	504.1	507.2
172.5°	520.6	516.3	512.9	510.7	509.5	507.3	507.2	508.1	507.2	507.3	509.5
175°	518.2	515.1	513.1	513.1	512.1	511.1	511.1	512.1	511.1	511.1	512.1
177.5°	515.5	513.9	513.1	513.1	513.1	512.3	513.1	513.9	513.1	512.3	513.1
180°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1



TEST NUMBER: P332564-840

CATALOG NUMBER: SA4XXDIP-C575D1035U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5
2.5°	930.3	927.5	923.3	917.7	913.0	908.0	906.7	904.8	908.6	905.4	904.5
5°	899.8	891.5	880.9	868.8	861.7	851.4	849.5	845.6	841.6	841.2	837.3
7.5°	867.5	855.4	841.5	829.1	817.6	806.5	799.1	797.6	791.7	788.4	784.5
10°	846.8	831.8	815.7	804.0	790.5	778.8	770.5	765.8	761.8	757.5	753.7
12.5°	822.2	806.4	793.0	780.3	764.5	755.5	741.9	733.8	733.0	733.1	722.9
15°	793.7	778.0	757.5	739.5	730.8	713.6	706.1	696.6	690.7	684.9	680.1
17.5°	761.1	741.5	725.6	704.8	688.3	674.6	664.7	659.0	650.3	641.9	635.8
20°	740.6	719.8	703.0	681.0	662.9	646.0	637.7	629.9	623.2	616.1	609.5
22.5°	719.9	698.1	677.5	656.1	639.2	621.5	613.5	602.8	596.4	592.5	585.8
25°	687.2	663.7	640.1	619.7	602.4	586.6	576.0	567.7	560.7	557.5	553.2
27.5°	651.7	628.2	605.5	582.3	562.7	551.3	542.8	536.5	532.5	528.4	526.3
30°	629.0	604.7	580.4	558.8	540.7	529.3	521.4	517.1	513.9	512.0	510.0
32.5°	606.1	582.1	556.4	536.7	520.6	510.4	504.4	500.1	498.6	497.9	497.2
35°	569.4	545.0	521.4	503.7	488.4	484.4	479.4	477.0	476.3	479.0	480.2
37.5°	533.7	511.1	489.4	472.3	462.2	456.5	454.7	454.8	457.7	460.1	462.9
40°	510.8	488.8	468.4	453.4	444.0	440.5	439.7	441.6	444.7	447.6	450.7
42.5°	488.5	466.8	448.3	434.2	427.7	424.4	425.0	426.9	431.3	434.6	439.4
45°	453.8	435.8	417.7	406.3	400.8	401.5	401.5	405.1	409.4	414.5	419.6
47.5°	421.2	402.9	388.1	378.5	375.7	375.0	377.2	381.8	388.1	394.4	401.5
50°	399.2	381.9	368.9	360.3	357.2	358.3	361.5	365.8	373.2	381.1	388.6
52.5°	376.9	361.1	349.1	341.1	338.9	341.0	344.2	351.0	357.6	366.1	375.1
55°	342.2	328.9	319.4	313.6	312.8	314.0	317.5	325.0	334.4	345.0	353.7
57.5°	307.7	296.6	287.9	283.9	284.3	285.4	291.1	300.0	310.1	321.4	332.5
60°	284.5	274.3	267.2	264.1	264.5	266.8	273.9	282.2	294.7	305.7	317.5
62.5°	262.5	253.5	246.7	243.9	243.4	248.5	255.3	263.9	276.5	288.7	301.4
65°	227.1	220.0	214.5	213.0	214.1	218.0	226.7	238.1	248.7	261.7	275.1
67.5°	192.5	186.7	183.0	183.7	185.1	190.9	198.1	207.9	219.9	233.4	246.6
70°	170.6	165.0	161.9	162.3	164.6	171.7	178.0	187.8	200.8	214.5	225.5
72.5°	147.9	144.3	141.5	143.1	145.4	150.4	158.1	168.0	179.5	192.2	203.9
75°	113.5	113.5	112.0	113.2	116.7	121.4	127.3	137.5	149.0	159.2	168.5
77.5°	84.2	83.4	84.4	85.8	87.9	93.4	100.2	107.6	116.0	126.3	134.1
80°	64.4	64.8	66.8	69.2	70.0	74.2	81.3	88.1	94.7	103.3	110.8
82.5°	48.4	48.8	49.8	52.8	53.6	58.3	62.8	69.5	75.5	81.3	87.6
85°	26.4	26.4	28.3	29.5	31.4	34.5	37.4	41.3	46.8	50.7	56.6
87.5°	11.7	11.7	14.1	14.7	16.2	18.1	18.5	22.2	23.6	25.4	28.3
90°	8.1	8.1	14.1	14.1	16.2	18.2	17.2	18.2	19.2	20.2	20.2
92.5°	53.2	74.2	125.4	203.7	279.8	319.8	266.4	198.0	149.1	118.6	98.4
95°	83.7	126.0	213.7	379.1	620.1	821.6	844.9	747.0	590.8	455.7	357.9
97.5°	101.2	136.7	204.3	340.7	580.3	865.4	1061.4	1103.8	1045.6	947.1	841.8
100°	114.9	147.2	206.7	320.6	526.2	810.5	1068.6	1215.9	1236.0	1186.6	1112.0
102.5°	130.3	160.9	214.7	315.0	490.0	742.0	1008.1	1210.2	1310.2	1324.5	1293.4
105°	156.2	185.5	233.9	317.6	458.7	661.4	898.3	1129.1	1303.5	1403.3	1444.7
107.5°	183.1	211.9	256.3	332.4	453.0	616.2	809.5	1014.0	1199.7	1340.3	1430.2
110°	201.7	228.8	273.2	343.8	454.6	600.9	765.2	944.6	1119.0	1265.3	1376.1



TEST NUMBER: P332564-840

CATALOG NUMBER: SA4XXDIP-C575D1035U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	219.3	246.6	289.3	355.9	459.5	593.6	740.2	893.8	1048.0	1186.2	1297.1
115°	247.0	274.2	314.6	375.1	468.8	589.8	716.8	842.8	966.8	1084.8	1181.5
117.5°	272.4	300.6	338.9	394.6	478.7	588.8	706.3	817.8	920.5	1013.2	1095.3
120°	289.3	317.6	355.9	408.3	485.9	588.8	700.6	806.5	900.3	981.0	1052.5
122.5°	306.3	333.7	372.0	421.2	493.2	587.9	694.2	796.9	887.4	960.8	1023.5
125°	329.6	357.9	394.2	440.6	504.1	586.7	683.6	780.3	867.0	936.5	992.0
127.5°	351.2	379.7	414.8	457.3	512.7	584.5	669.2	760.1	843.0	912.4	965.0
130°	365.0	394.2	428.5	467.8	519.2	583.7	660.4	744.1	823.6	892.2	945.6
132.5°	377.9	405.5	439.8	478.3	524.8	582.9	652.3	727.1	801.9	868.8	922.3
135°	396.2	422.4	455.7	492.0	533.3	581.7	640.2	703.7	769.2	830.7	881.1
137.5°	411.7	436.8	467.8	501.7	538.4	581.5	629.7	682.6	738.0	789.8	835.4
140°	421.4	445.7	475.8	508.1	542.4	580.7	624.1	670.4	717.8	763.2	805.5
142.5°	430.3	453.6	483.1	512.9	545.6	580.7	619.2	659.1	700.8	739.8	776.5
145°	442.6	464.7	491.0	518.2	547.4	578.7	611.0	643.2	677.5	707.7	736.0
147.5°	454.4	474.4	499.1	522.8	548.5	575.0	603.5	630.1	657.3	681.6	703.7
150°	461.7	480.9	503.1	525.2	548.5	572.6	597.8	622.1	645.2	665.4	683.6
152.5°	469.0	486.6	506.3	526.8	546.8	568.6	591.4	613.2	633.1	651.7	666.6
155°	478.9	494.0	511.1	528.3	544.4	562.6	581.7	599.9	616.0	631.1	643.2
157.5°	488.2	500.1	514.5	528.3	541.8	556.3	571.8	585.5	599.1	611.8	621.5
160°	493.0	504.1	516.1	528.3	539.4	551.5	564.6	576.6	587.7	598.8	606.9
162.5°	497.9	506.5	517.8	528.3	536.9	546.6	558.2	567.7	577.2	585.9	593.2
165°	503.1	509.1	518.2	526.2	532.3	539.4	547.4	555.5	561.6	568.6	573.6
167.5°	506.8	511.3	518.0	523.8	527.5	532.1	537.8	543.6	548.3	553.9	556.9
170°	509.1	512.1	517.2	522.2	524.2	527.3	531.3	536.3	539.4	543.4	546.4
172.5°	510.7	512.9	516.3	520.6	521.0	522.4	525.6	529.9	532.1	534.5	536.7
175°	513.1	513.1	515.1	518.2	517.2	517.2	519.2	521.2	522.2	524.2	524.2
177.5°	513.1	513.1	513.9	515.5	513.9	513.9	514.7	515.5	516.3	516.3	517.2
180°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1



TEST NUMBER: P332564-840

CATALOG NUMBER: SA4XXDIP-C575D1035U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5
2.5°	903.8	903.2	901.0	900.7	901.0	903.2	903.8	904.5	905.4	908.6	904.8
5°	835.0	833.0	831.8	836.2	831.8	833.0	835.0	837.3	841.2	841.6	845.6
7.5°	783.0	781.4	778.0	776.9	778.0	781.4	783.0	784.5	788.4	791.7	797.6
10°	749.7	748.1	745.0	744.2	745.0	748.1	749.7	753.7	757.5	761.8	765.8
12.5°	717.6	714.5	713.9	714.7	713.9	714.5	717.6	722.9	733.1	733.0	733.8
15°	675.0	673.5	669.1	670.3	669.1	673.5	675.0	680.1	684.9	690.7	696.6
17.5°	633.1	631.2	625.9	630.6	625.9	631.2	633.1	635.8	641.9	650.3	659.0
20°	606.6	603.5	600.8	600.4	600.8	603.5	606.6	609.5	616.1	623.2	629.9
22.5°	581.5	578.7	578.5	575.8	578.5	578.7	581.5	585.8	592.5	596.4	602.8
25°	550.1	547.3	546.5	544.6	546.5	547.3	550.1	553.2	557.5	560.7	567.7
27.5°	525.9	524.6	523.2	523.8	523.2	524.6	525.9	526.3	528.4	532.5	536.5
30°	511.2	510.8	510.0	510.0	510.0	510.8	511.2	510.0	512.0	513.9	517.1
32.5°	499.0	498.9	499.3	499.3	499.3	498.9	499.0	497.2	497.9	498.6	500.1
35°	481.7	482.9	483.7	482.5	483.7	482.9	481.7	480.2	479.0	476.3	477.0
37.5°	466.2	467.4	468.5	469.8	468.5	467.4	466.2	462.9	460.1	457.7	454.8
40°	454.2	457.0	457.8	459.7	457.8	457.0	454.2	450.7	447.6	444.7	441.6
42.5°	442.9	446.0	448.0	448.4	448.0	446.0	442.9	439.4	434.6	431.3	426.9
45°	425.6	428.7	431.4	431.4	431.4	428.7	425.6	419.6	414.5	409.4	405.1
47.5°	407.6	412.1	414.9	415.6	414.9	412.1	407.6	401.5	394.4	388.1	381.8
50°	395.3	400.8	403.5	405.5	403.5	400.8	395.3	388.6	381.1	373.2	365.8
52.5°	383.3	388.8	392.5	393.5	392.5	388.8	383.3	375.1	366.1	357.6	351.0
55°	362.6	370.5	374.9	376.4	374.9	370.5	362.6	353.7	345.0	334.4	325.0
57.5°	343.2	350.4	355.5	356.6	355.5	350.4	343.2	332.5	321.4	310.1	300.0
60°	328.1	336.0	342.2	343.5	342.2	336.0	328.1	317.5	305.7	294.7	282.2
62.5°	312.7	320.8	326.5	329.6	326.5	320.8	312.7	301.4	288.7	276.5	263.9
65°	286.1	294.3	299.8	300.9	299.8	294.3	286.1	275.1	261.7	248.7	238.1
67.5°	257.0	265.2	268.8	271.1	268.8	265.2	257.0	246.6	233.4	219.9	207.9
70°	236.5	243.2	247.1	249.1	247.1	243.2	236.5	225.5	214.5	200.8	187.8
72.5°	213.3	220.3	224.8	225.2	224.8	220.3	213.3	203.9	192.2	179.5	168.0
75°	177.6	183.9	186.2	186.2	186.2	183.9	177.6	168.5	159.2	149.0	137.5
77.5°	140.6	143.8	146.8	147.4	146.8	143.8	140.6	134.1	126.3	116.0	107.6
80°	116.7	118.7	121.0	121.0	121.0	118.7	116.7	110.8	103.3	94.7	88.1
82.5°	92.2	93.8	96.1	95.8	96.1	93.8	92.2	87.6	81.3	75.5	69.5
85°	55.7	59.4	59.0	58.2	59.0	59.4	55.7	56.6	50.7	46.8	41.3
87.5°	29.4	29.9	30.6	31.3	30.6	29.9	29.4	28.3	25.4	23.6	22.2
90°	21.2	22.2	21.2	21.2	21.2	22.2	21.2	20.2	20.2	19.2	18.2
92.5°	86.5	81.1	77.7	77.7	77.7	81.1	86.5	98.4	118.6	149.1	198.0
95°	308.5	277.2	259.1	246.0	259.1	277.2	308.5	357.9	455.7	590.8	747.0
97.5°	769.4	708.7	678.5	657.5	678.5	708.7	769.4	841.8	947.1	1045.6	1103.8
100°	1024.3	962.8	932.5	924.5	932.5	962.8	1024.3	1112.0	1186.6	1236.0	1215.9
102.5°	1239.6	1195.1	1163.3	1156.8	1163.3	1195.1	1239.6	1293.4	1324.5	1310.2	1210.2
105°	1446.7	1438.7	1424.5	1418.5	1424.5	1438.7	1446.7	1444.7	1403.3	1303.5	1129.1
107.5°	1480.0	1503.0	1513.1	1515.7	1513.1	1503.0	1480.0	1430.2	1340.3	1199.7	1014.0
110°	1447.7	1490.1	1508.2	1517.3	1508.2	1490.1	1447.7	1376.1	1265.3	1119.0	944.6



TEST NUMBER: P332564-840

CATALOG NUMBER: SA4XXDIP-C575D1035U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1378.4	1429.6	1455.0	1469.7	1455.0	1429.6	1378.4	1297.1	1186.2	1048.0	893.8
115°	1261.2	1321.7	1353.9	1362.0	1353.9	1321.7	1261.2	1181.5	1084.8	966.8	842.8
117.5°	1163.3	1214.1	1246.7	1252.9	1246.7	1214.1	1163.3	1095.3	1013.2	920.5	817.8
120°	1109.9	1154.4	1180.5	1191.6	1180.5	1154.4	1109.9	1052.5	981.0	900.3	806.5
122.5°	1072.1	1109.9	1132.2	1143.3	1132.2	1109.9	1072.1	1023.5	960.8	887.4	796.9
125°	1032.4	1061.6	1080.8	1086.8	1080.8	1061.6	1032.4	992.0	936.5	867.0	780.3
127.5°	1005.5	1031.6	1047.6	1053.7	1047.6	1031.6	1005.5	965.0	912.4	843.0	760.1
130°	986.9	1012.2	1028.3	1034.4	1028.3	1012.2	986.9	945.6	892.2	823.6	744.1
132.5°	962.8	991.2	1006.5	1012.6	1006.5	991.2	962.8	922.3	868.8	801.9	727.1
135°	921.5	949.7	965.8	971.9	965.8	949.7	921.5	881.1	830.7	769.2	703.7
137.5°	873.0	900.9	914.2	921.5	914.2	900.9	873.0	835.4	789.8	738.0	682.6
140°	840.8	863.0	877.1	885.1	877.1	863.0	840.8	805.5	763.2	717.8	670.4
142.5°	807.7	828.3	840.8	846.5	840.8	828.3	807.7	776.5	739.8	700.8	659.1
145°	761.1	778.3	788.4	793.5	788.4	778.3	761.1	736.0	707.7	677.5	643.2
147.5°	722.3	737.0	744.7	746.4	744.7	737.0	722.3	703.7	681.6	657.3	630.1
150°	699.6	712.8	718.8	719.8	718.8	712.8	699.6	683.6	665.4	645.2	622.1
152.5°	680.3	690.9	694.6	695.6	694.6	690.9	680.3	666.6	651.7	633.1	613.2
155°	653.3	661.4	664.4	664.4	664.4	661.4	653.3	643.2	631.1	616.0	599.9
157.5°	629.0	635.1	636.9	636.9	636.9	635.1	629.0	621.5	611.8	599.1	585.5
160°	613.0	619.0	620.1	620.1	620.1	619.0	613.0	606.9	598.8	587.7	576.6
162.5°	597.6	603.7	604.7	603.9	604.7	603.7	597.6	593.2	585.9	577.2	567.7
165°	577.6	581.7	580.7	579.7	580.7	581.7	577.6	573.6	568.6	561.6	555.5
167.5°	559.0	561.6	561.4	560.6	561.4	561.6	559.0	556.9	553.9	548.3	543.6
170°	548.5	549.5	548.5	548.5	548.5	549.5	548.5	546.4	543.4	539.4	536.3
172.5°	538.0	539.0	538.0	536.3	538.0	539.0	538.0	536.7	534.5	532.1	529.9
175°	524.2	526.2	524.2	522.2	524.2	526.2	524.2	524.2	524.2	522.2	521.2
177.5°	516.3	517.2	515.5	513.9	515.5	517.2	516.3	517.2	516.3	516.3	515.5
180°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1



TEST NUMBER: P332564-840

CATALOG NUMBER: SA4XXDIP-C575D1035U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5
2.5°	906.7	908.0	913.0	917.7	923.3	927.5	930.3	933.4	940.0	945.3	950.4
5°	849.5	851.4	861.7	868.8	880.9	891.5	899.8	908.8	919.5	933.9	947.4
7.5°	799.1	806.5	817.6	829.1	841.5	855.4	867.5	881.1	899.4	919.4	940.0
10°	770.5	778.8	790.5	804.0	815.7	831.8	846.8	862.8	883.6	908.1	932.4
12.5°	741.9	755.5	764.5	780.3	793.0	806.4	822.2	843.3	867.7	893.2	922.6
15°	706.1	713.6	730.8	739.5	757.5	778.0	793.7	815.0	838.5	872.3	905.2
17.5°	664.7	674.6	688.3	704.8	725.6	741.5	761.1	782.9	812.6	846.2	887.6
20°	637.7	646.0	662.9	681.0	703.0	719.8	740.6	761.8	792.5	828.3	871.5
22.5°	613.5	621.5	639.2	656.1	677.5	698.1	719.9	744.6	774.0	811.6	855.8
25°	576.0	586.6	602.4	619.7	640.1	663.7	687.2	709.2	740.6	780.3	827.5
27.5°	542.8	551.3	562.7	582.3	605.5	628.2	651.7	679.3	709.5	751.5	800.4
30°	521.4	529.3	540.7	558.8	580.4	604.7	629.0	655.8	687.2	728.8	778.8
32.5°	504.4	510.4	520.6	536.7	556.4	582.1	606.1	633.8	666.8	707.8	756.5
35°	479.4	484.4	488.4	503.7	521.4	545.0	569.4	598.8	630.7	669.5	718.2
37.5°	454.7	456.5	462.2	472.3	489.4	511.1	533.7	562.7	595.3	634.9	678.8
40°	439.7	440.5	444.0	453.4	468.4	488.8	510.8	539.5	570.5	607.8	651.5
42.5°	425.0	424.4	427.7	434.2	448.3	466.8	488.5	514.6	545.7	580.2	621.3
45°	401.5	401.5	400.8	406.3	417.7	435.8	453.8	479.0	504.9	538.7	573.3
47.5°	377.2	375.0	375.7	378.5	388.1	402.9	421.2	441.8	464.6	493.3	523.6
50°	361.5	358.3	357.2	360.3	368.9	381.9	399.2	417.3	438.9	464.0	490.0
52.5°	344.2	341.0	338.9	341.1	349.1	361.1	376.9	392.7	412.1	432.6	455.0
55°	317.5	314.0	312.8	313.6	319.4	328.9	342.2	356.8	371.3	388.2	403.9
57.5°	291.1	285.4	284.3	283.9	287.9	296.6	307.7	320.3	330.9	341.1	357.9
60°	273.9	266.8	264.5	264.1	267.2	274.3	284.5	297.0	304.5	311.5	326.1
62.5°	255.3	248.5	243.4	243.9	246.7	253.5	262.5	271.6	276.5	284.3	294.1
65°	226.7	218.0	214.1	213.0	214.5	220.0	227.1	233.0	238.5	241.7	251.1
67.5°	198.1	190.9	185.1	183.7	183.0	186.7	192.5	196.1	200.0	202.8	208.3
70°	178.0	171.7	164.6	162.3	161.9	165.0	170.6	171.0	176.4	177.6	183.5
72.5°	158.1	150.4	145.4	143.1	141.5	144.3	147.9	149.0	151.9	154.0	157.1
75°	127.3	121.4	116.7	113.2	112.0	113.5	113.5	115.5	117.4	118.7	122.2
77.5°	100.2	93.4	87.9	85.8	84.4	83.4	84.2	85.4	84.5	86.5	87.4
80°	81.3	74.2	70.0	69.2	66.8	64.8	64.4	65.6	64.0	64.8	67.2
82.5°	62.8	58.3	53.6	52.8	49.8	48.8	48.4	47.7	47.7	47.6	48.0
85°	37.4	34.5	31.4	29.5	28.3	26.4	26.4	25.5	24.7	23.9	24.3
87.5°	18.5	18.1	16.2	14.7	14.1	11.7	11.7	10.5	10.0	9.1	8.4
90°	17.2	18.2	16.2	14.1	14.1	8.1	8.1	7.1	6.1	3.0	1.0
92.5°	266.4	319.8	279.8	203.7	125.4	74.2	53.2	38.5	26.3	16.8	11.5
95°	844.9	821.6	620.1	379.1	213.7	126.0	83.7	59.5	46.4	36.3	33.2
97.5°	1061.4	865.4	580.3	340.7	204.3	136.7	101.2	80.5	68.4	59.7	59.7
100°	1068.6	810.5	526.2	320.6	206.7	147.2	114.9	95.7	83.7	76.6	76.6
102.5°	1008.1	742.0	490.0	315.0	214.7	160.9	130.3	111.9	100.6	94.3	92.7
105°	898.3	661.4	458.7	317.6	233.9	185.5	156.2	138.1	126.0	121.0	118.0
107.5°	809.5	616.2	453.0	332.4	256.3	211.9	183.1	165.7	152.8	147.8	145.8
110°	765.2	600.9	454.6	343.8	273.2	228.8	201.7	183.5	171.4	166.3	164.3



TEST NUMBER: P332564-840

CATALOG NUMBER: SA4XXDIP-C575D1035U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	740.2	593.6	459.5	355.9	289.3	246.6	219.3	201.3	190.0	184.1	182.1
115°	716.8	589.8	468.8	375.1	314.6	274.2	247.0	227.8	217.7	210.7	207.7
117.5°	706.3	588.8	478.7	394.6	338.9	300.6	272.4	254.5	243.4	237.1	234.3
120°	700.6	588.8	485.9	408.3	355.9	317.6	289.3	272.2	261.2	254.1	252.1
122.5°	694.2	587.9	493.2	421.2	372.0	333.7	306.3	287.5	277.2	270.1	268.2
125°	683.6	586.7	504.1	440.6	394.2	357.9	329.6	310.5	299.4	293.4	289.3
127.5°	669.2	584.5	512.7	457.3	414.8	379.7	351.2	331.2	318.6	311.3	308.1
130°	660.4	583.7	519.2	467.8	428.5	394.2	365.0	345.8	330.6	322.7	318.6
132.5°	652.3	582.9	524.8	478.3	439.8	405.5	377.9	357.1	342.7	332.2	329.0
135°	640.2	581.7	533.3	492.0	455.7	422.4	396.2	375.1	357.9	347.8	343.8
137.5°	629.7	581.5	538.4	501.7	467.8	436.8	411.7	389.7	373.4	362.3	358.5
140°	624.1	580.7	542.4	508.1	475.8	445.7	421.4	400.2	383.1	372.0	369.0
142.5°	619.2	580.7	545.6	512.9	483.1	453.6	430.3	409.9	393.5	383.3	380.3
145°	611.0	578.7	547.4	518.2	491.0	464.7	442.6	423.4	409.3	399.2	396.2
147.5°	603.5	575.0	548.5	522.8	499.1	474.4	454.4	438.6	424.0	415.2	414.1
150°	597.8	572.6	548.5	525.2	503.1	480.9	461.7	446.7	434.5	426.5	425.5
152.5°	591.4	568.6	546.8	526.8	506.3	486.6	469.0	455.4	444.2	436.2	436.0
155°	581.7	562.6	544.4	528.3	511.1	494.0	478.9	467.8	457.7	451.6	450.6
157.5°	571.8	556.3	541.8	528.3	514.5	500.1	488.2	478.5	470.6	464.9	464.9
160°	564.6	551.5	539.4	528.3	516.1	504.1	493.0	484.9	477.9	473.8	473.8
162.5°	558.2	546.6	536.9	528.3	517.8	506.5	497.9	490.6	484.3	481.1	481.9
165°	547.4	539.4	532.3	526.2	518.2	509.1	503.1	498.1	493.0	491.0	491.0
167.5°	537.8	532.1	527.5	523.8	518.0	511.3	506.8	503.9	500.1	499.1	500.1
170°	531.3	527.3	524.2	522.2	517.2	512.1	509.1	507.2	504.1	503.1	504.1
172.5°	525.6	522.4	521.0	520.6	516.3	512.9	510.7	509.5	507.3	507.2	508.1
175°	519.2	517.2	517.2	518.2	515.1	513.1	513.1	512.1	511.1	511.1	512.1
177.5°	514.7	513.9	513.9	515.5	513.9	513.1	513.1	513.1	512.3	513.1	513.9
180°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1



TEST NUMBER: P332564-840

CATALOG NUMBER: SA4XXDIP-C575D1035U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5
2.5°	954.8	958.0	962.0	969.0	971.5	974.6	979.0	978.7	980.0	984.6	994.7
5°	958.4	970.5	982.3	996.4	1011.4	1021.2	1034.6	1042.8	1051.1	1061.7	1079.7
7.5°	959.8	979.1	1000.7	1025.5	1047.6	1073.1	1093.0	1111.7	1128.5	1150.9	1172.5
10°	957.6	983.5	1011.4	1042.8	1076.2	1104.5	1130.0	1159.1	1183.9	1210.9	1235.4
12.5°	953.4	984.7	1022.1	1057.2	1096.3	1138.1	1169.9	1199.3	1232.2	1263.4	1301.0
15°	944.2	987.0	1030.7	1077.0	1129.2	1177.6	1223.6	1261.6	1297.1	1343.8	1392.9
17.5°	932.4	978.6	1033.6	1089.7	1144.4	1199.6	1256.5	1313.7	1358.4	1416.4	1454.9
20°	921.4	974.8	1031.4	1098.2	1152.9	1221.6	1278.2	1333.5	1394.8	1452.6	1498.6
22.5°	905.9	964.4	1024.5	1091.0	1162.9	1231.6	1297.1	1357.2	1418.5	1481.3	1536.9
25°	886.5	939.5	1010.6	1086.0	1157.5	1232.2	1307.3	1382.7	1448.7	1515.1	1567.0
27.5°	853.1	920.1	986.3	1064.2	1143.7	1228.1	1308.4	1387.4	1456.4	1511.1	1543.3
30°	836.2	894.2	966.2	1044.4	1130.4	1221.2	1304.8	1382.3	1446.7	1490.4	1503.3
32.5°	811.0	871.0	941.4	1022.4	1113.5	1206.7	1293.8	1366.9	1420.7	1443.5	1427.8
35°	773.7	827.9	899.0	981.9	1076.6	1176.0	1262.0	1323.7	1351.3	1329.7	1275.8
37.5°	728.8	782.6	854.0	935.4	1033.5	1134.5	1212.3	1256.7	1247.6	1193.9	1113.6
40°	697.4	747.7	815.7	903.7	999.2	1100.6	1168.9	1193.0	1167.8	1090.8	1005.5
42.5°	662.6	711.6	779.8	864.7	965.8	1059.3	1118.9	1121.0	1078.8	986.7	901.1
45°	609.5	656.2	720.6	809.0	902.5	990.6	1029.9	1010.6	932.8	843.9	757.9
47.5°	557.0	597.5	661.1	745.0	833.7	907.9	927.4	892.7	809.8	723.6	643.8
50°	518.7	559.6	619.2	699.4	785.1	849.1	858.5	812.5	731.2	644.4	581.9
52.5°	481.9	522.4	580.0	654.1	732.6	790.3	790.6	737.4	656.4	579.1	520.9
55°	427.9	464.4	516.3	582.7	652.7	697.8	686.8	631.8	561.5	494.3	443.6
57.5°	375.9	407.7	455.4	510.9	572.5	609.8	591.5	538.6	475.7	418.8	380.3
60°	342.2	372.4	413.3	465.6	517.5	546.5	529.3	481.3	423.5	377.6	344.2
62.5°	309.5	335.1	374.4	419.7	467.8	489.4	473.9	426.7	376.8	335.2	308.0
65°	263.3	284.1	315.5	354.5	389.4	407.9	394.9	350.8	312.8	282.9	261.3
67.5°	220.0	236.3	260.1	291.3	321.0	331.0	319.2	288.5	256.3	232.4	217.1
70°	190.2	205.5	225.5	249.5	275.4	286.1	274.3	249.9	223.6	201.6	186.6
72.5°	164.1	175.9	192.9	213.4	233.6	244.3	236.2	212.8	190.6	174.2	161.5
75°	124.9	135.1	146.9	161.5	177.2	184.3	177.2	161.1	145.7	133.6	124.5
77.5°	90.9	96.3	105.4	116.3	126.1	131.6	125.4	114.5	105.1	96.8	92.3
80°	69.2	73.1	79.4	88.1	94.7	99.8	95.8	86.8	79.4	73.8	71.9
82.5°	50.3	52.9	57.1	63.5	68.0	70.6	68.9	62.3	59.3	54.3	52.4
85°	24.7	26.4	29.1	31.0	34.9	35.3	35.7	33.0	30.3	29.1	27.5
87.5°	9.1	10.0	11.1	12.3	13.5	15.0	14.7	15.1	14.3	13.8	12.7
90°	3.0	6.1	7.1	8.1	8.1	14.1	14.1	16.2	18.2	17.2	18.2
92.5°	16.8	26.3	38.5	53.2	74.2	125.4	203.7	279.8	319.8	266.4	198.0
95°	36.3	46.4	59.5	83.7	126.0	213.7	379.1	620.1	821.6	844.9	747.0
97.5°	59.7	68.4	80.5	101.2	136.7	204.3	340.7	580.3	865.4	1061.4	1103.8
100°	76.6	83.7	95.7	114.9	147.2	206.7	320.6	526.2	810.5	1068.6	1215.9
102.5°	94.3	100.6	111.9	130.3	160.9	214.7	315.0	490.0	742.0	1008.1	1210.2
105°	121.0	126.0	138.1	156.2	185.5	233.9	317.6	458.7	661.4	898.3	1129.1
107.5°	147.8	152.8	165.7	183.1	211.9	256.3	332.4	453.0	616.2	809.5	1014.0
110°	166.3	171.4	183.5	201.7	228.8	273.2	343.8	454.6	600.9	765.2	944.6





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	184.1	190.0	201.3	219.3	246.6	289.3	355.9	459.5	593.6	740.2	893.8
115°	210.7	217.7	227.8	247.0	274.2	314.6	375.1	468.8	589.8	716.8	842.8
117.5°	237.1	243.4	254.5	272.4	300.6	338.9	394.6	478.7	588.8	706.3	817.8
120°	254.1	261.2	272.2	289.3	317.6	355.9	408.3	485.9	588.8	700.6	806.5
122.5°	270.1	277.2	287.5	306.3	333.7	372.0	421.2	493.2	587.9	694.2	796.9
125°	293.4	299.4	310.5	329.6	357.9	394.2	440.6	504.1	586.7	683.6	780.3
127.5°	311.3	318.6	331.2	351.2	379.7	414.8	457.3	512.7	584.5	669.2	760.1
130°	322.7	330.6	345.8	365.0	394.2	428.5	467.8	519.2	583.7	660.4	744.1
132.5°	332.2	342.7	357.1	377.9	405.5	439.8	478.3	524.8	582.9	652.3	727.1
135°	347.8	357.9	375.1	396.2	422.4	455.7	492.0	533.3	581.7	640.2	703.7
137.5°	362.3	373.4	389.7	411.7	436.8	467.8	501.7	538.4	581.5	629.7	682.6
140°	372.0	383.1	400.2	421.4	445.7	475.8	508.1	542.4	580.7	624.1	670.4
142.5°	383.3	393.5	409.9	430.3	453.6	483.1	512.9	545.6	580.7	619.2	659.1
145°	399.2	409.3	423.4	442.6	464.7	491.0	518.2	547.4	578.7	611.0	643.2
147.5°	415.2	424.0	438.6	454.4	474.4	499.1	522.8	548.5	575.0	603.5	630.1
150°	426.5	434.5	446.7	461.7	480.9	503.1	525.2	548.5	572.6	597.8	622.1
152.5°	436.2	444.2	455.4	469.0	486.6	506.3	526.8	546.8	568.6	591.4	613.2
155°	451.6	457.7	467.8	478.9	494.0	511.1	528.3	544.4	562.6	581.7	599.9
157.5°	464.9	470.6	478.5	488.2	500.1	514.5	528.3	541.8	556.3	571.8	585.5
160°	473.8	477.9	484.9	493.0	504.1	516.1	528.3	539.4	551.5	564.6	576.6
162.5°	481.1	484.3	490.6	497.9	506.5	517.8	528.3	536.9	546.6	558.2	567.7
165°	491.0	493.0	498.1	503.1	509.1	518.2	526.2	532.3	539.4	547.4	555.5
167.5°	499.1	500.1	503.9	506.8	511.3	518.0	523.8	527.5	532.1	537.8	543.6
170°	503.1	504.1	507.2	509.1	512.1	517.2	522.2	524.2	527.3	531.3	536.3
172.5°	507.2	507.3	509.5	510.7	512.9	516.3	520.6	521.0	522.4	525.6	529.9
175°	511.1	511.1	512.1	513.1	513.1	515.1	518.2	517.2	517.2	519.2	521.2
177.5°	513.1	512.3	513.1	513.1	513.1	513.9	515.5	513.9	513.9	514.7	515.5
180°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	948.5	948.5	948.5	948.5	948.5	948.5	948.5
2.5°	999.8	1000.4	1003.2	1005.4	1006.0	1009.2	1009.5
5°	1087.6	1094.3	1107.2	1108.4	1110.3	1120.6	1112.8
7.5°	1190.5	1207.5	1218.8	1228.8	1232.4	1236.9	1236.0
10°	1256.6	1281.7	1294.2	1314.3	1315.1	1320.2	1317.1
12.5°	1322.9	1352.1	1375.0	1378.8	1395.5	1398.2	1402.6
15°	1416.8	1447.9	1479.8	1491.2	1514.3	1519.8	1528.4
17.5°	1505.2	1536.9	1559.2	1588.7	1598.2	1610.9	1602.4
20°	1553.6	1588.2	1616.5	1639.6	1649.5	1656.6	1655.8
22.5°	1582.9	1617.7	1640.6	1658.2	1667.4	1670.4	1670.2
25°	1601.1	1621.2	1628.3	1635.0	1624.8	1621.2	1622.8
27.5°	1550.2	1545.0	1526.6	1502.4	1477.2	1457.2	1446.4
30°	1480.2	1449.5	1421.6	1372.9	1347.7	1332.8	1319.4
32.5°	1380.8	1332.2	1278.6	1234.0	1205.3	1183.2	1179.8
35°	1210.6	1137.5	1071.9	1017.2	989.0	965.0	959.5
37.5°	1029.3	953.3	894.2	846.1	815.7	798.8	783.0
40°	908.8	843.6	785.5	744.6	721.4	709.2	699.4
42.5°	816.1	756.5	698.7	667.5	646.6	639.1	633.4
45°	688.0	632.6	592.5	569.0	556.7	544.2	538.3
47.5°	585.4	540.4	513.9	493.9	480.9	473.4	469.6
50°	527.3	490.4	466.8	451.5	439.7	433.7	430.6
52.5°	475.7	445.5	425.7	413.4	405.5	401.1	399.8
55°	409.8	386.7	374.1	363.5	357.6	353.7	352.0
57.5°	356.2	338.4	328.2	319.4	317.2	313.9	312.8
60°	321.0	307.3	298.6	292.8	290.7	286.8	287.6
62.5°	289.9	278.6	271.2	267.9	265.3	262.0	263.1
65°	245.2	236.9	233.0	229.8	226.7	224.8	226.3
67.5°	205.7	200.1	194.7	192.9	191.4	191.1	189.3
70°	180.0	175.2	170.6	169.4	169.4	167.7	167.3
72.5°	155.1	151.7	148.6	147.6	146.4	147.0	145.4
75°	119.9	117.0	115.9	114.7	114.3	114.3	113.2
77.5°	88.6	86.5	84.6	84.6	83.2	82.7	82.5
80°	67.2	66.4	64.8	64.8	64.0	64.4	63.6
82.5°	50.5	49.4	49.1	48.5	47.4	47.5	46.7
85°	27.1	26.0	25.5	24.3	23.5	24.3	23.5
87.5°	13.2	13.1	12.8	12.4	12.3	12.1	11.1
90°	19.2	20.2	20.2	21.2	22.2	21.2	21.2
92.5°	149.1	118.6	98.4	86.5	81.1	77.7	77.7
95°	590.8	455.7	357.9	308.5	277.2	259.1	246.0
97.5°	1045.6	947.1	841.8	769.4	708.7	678.5	657.5
100°	1236.0	1186.6	1112.0	1024.3	962.8	932.5	924.5
102.5°	1310.2	1324.5	1293.4	1239.6	1195.1	1163.3	1156.8
105°	1303.5	1403.3	1444.7	1446.7	1438.7	1424.5	1418.5
107.5°	1199.7	1340.3	1430.2	1480.0	1503.0	1513.1	1515.7
110°	1119.0	1265.3	1376.1	1447.7	1490.1	1508.2	1517.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	1048.0	1186.2	1297.1	1378.4	1429.6	1455.0	1469.7
115°	966.8	1084.8	1181.5	1261.2	1321.7	1353.9	1362.0
117.5°	920.5	1013.2	1095.3	1163.3	1214.1	1246.7	1252.9
120°	900.3	981.0	1052.5	1109.9	1154.4	1180.5	1191.6
122.5°	887.4	960.8	1023.5	1072.1	1109.9	1132.2	1143.3
125°	867.0	936.5	992.0	1032.4	1061.6	1080.8	1086.8
127.5°	843.0	912.4	965.0	1005.5	1031.6	1047.6	1053.7
130°	823.6	892.2	945.6	986.9	1012.2	1028.3	1034.4
132.5°	801.9	868.8	922.3	962.8	991.2	1006.5	1012.6
135°	769.2	830.7	881.1	921.5	949.7	965.8	971.9
137.5°	738.0	789.8	835.4	873.0	900.9	914.2	921.5
140°	717.8	763.2	805.5	840.8	863.0	877.1	885.1
142.5°	700.8	739.8	776.5	807.7	828.3	840.8	846.5
145°	677.5	707.7	736.0	761.1	778.3	788.4	793.5
147.5°	657.3	681.6	703.7	722.3	737.0	744.7	746.4
150°	645.2	665.4	683.6	699.6	712.8	718.8	719.8
152.5°	633.1	651.7	666.6	680.3	690.9	694.6	695.6
155°	616.0	631.1	643.2	653.3	661.4	664.4	664.4
157.5°	599.1	611.8	621.5	629.0	635.1	636.9	636.9
160°	587.7	598.8	606.9	613.0	619.0	620.1	620.1
162.5°	577.2	585.9	593.2	597.6	603.7	604.7	603.9
165°	561.6	568.6	573.6	577.6	581.7	580.7	579.7
167.5°	548.3	553.9	556.9	559.0	561.6	561.4	560.6
170°	539.4	543.4	546.4	548.5	549.5	548.5	548.5
172.5°	532.1	534.5	536.7	538.0	539.0	538.0	536.3
175°	522.2	524.2	524.2	524.2	526.2	524.2	522.2
177.5°	516.3	516.3	517.2	516.3	517.2	515.5	513.9
180°	513.1	513.1	513.1	513.1	513.1	513.1	513.1

(END OF REPORT)