

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: P332901-840

Luminaire Tested: **SA4XXRDIP-C575D590U840-4F0-1E-UDD-A**

Issue Date: 10/7/2019

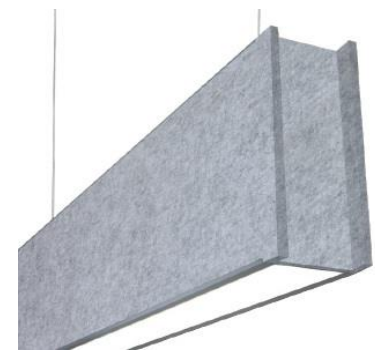
**Test Information**

Test Method: LM-79-08  
Report Number: P332901-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA4XXRDIP-C575D590U840-4F0-1E-UDD-A  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 575 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 590 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

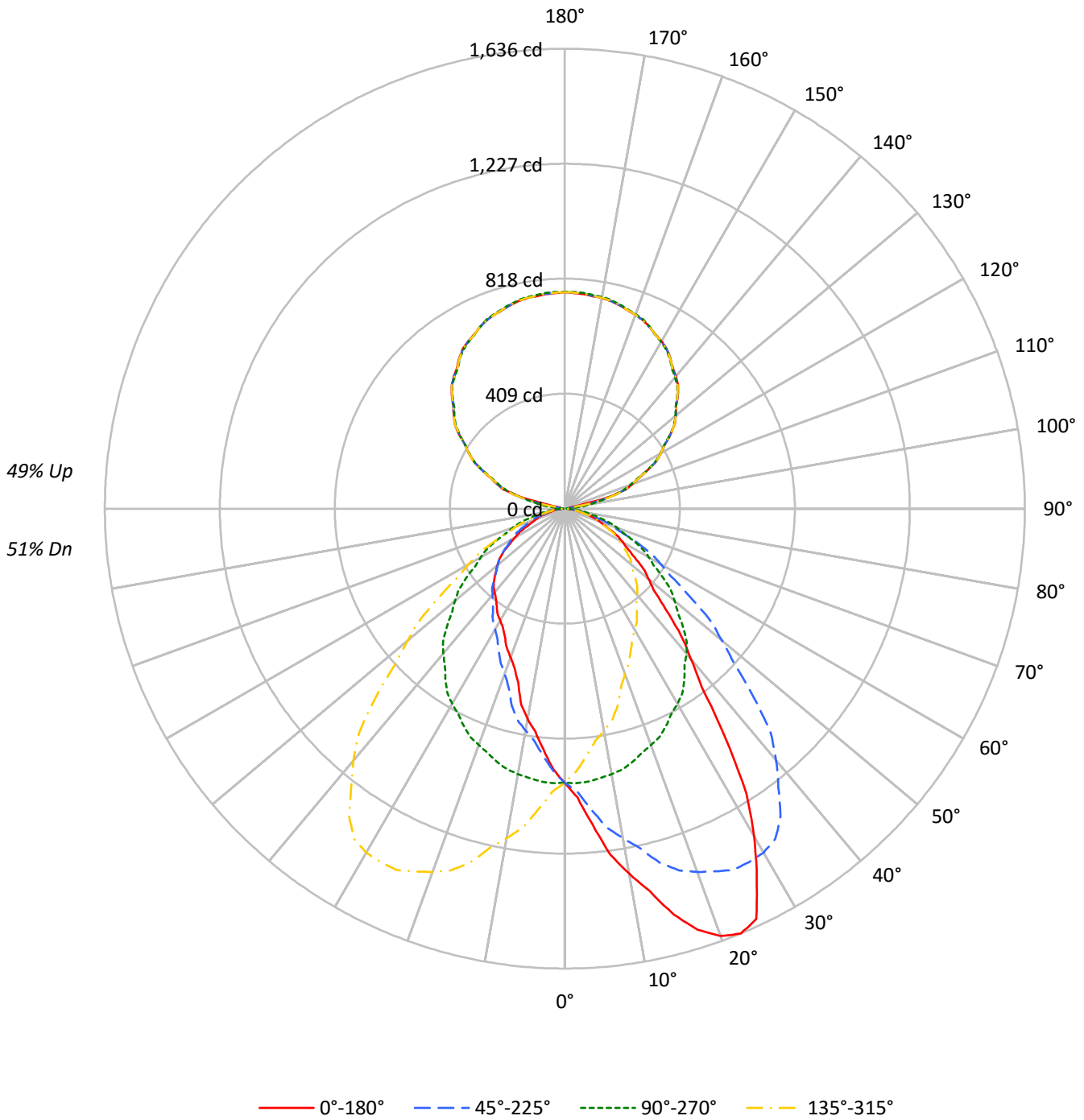
Lumens per Lamp: N/A  
Luminaire Lumens: 4849.8 lumens  
Efficiency: N/A  
Efficacy: 147.9 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 32.8  
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	50	30	10	50	30	10	0																			
RCR																																														
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51									51																			
1	98	94	91	87	91	87	84	81	74	72	70	62	61	59	51	50	49	44									44																			
2	90	83	77	72	83	77	72	67	66	62	59	55	52	50	45	44	42	37									37																			
3	82	73	66	60	76	68	62	57	58	54	50	49	46	43	41	38	36	32									32																			
4	76	65	57	52	70	61	54	49	52	47	43	44	40	37	37	34	32	28									28																			
5	70	58	50	44	64	54	47	42	47	41	37	40	36	32	33	30	28	25									25																			
6	64	52	44	39	59	49	42	37	42	37	33	36	32	29	30	27	25	22									22																			
7	59	47	40	34	55	44	37	32	38	33	29	33	29	25	28	24	22	19									19																			
8	55	43	35	30	51	40	33	29	35	30	26	30	26	23	25	22	20	17									17																			
9	51	39	32	27	48	37	30	26	32	27	23	28	24	20	24	20	18	16									16																			
10	48	36	29	24	44	34	27	23	30	24	21	26	21	19	22	19	16	14									14																			

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

	0°	90°	180°	270°
0°	7873	7873	7873	7873
5°	9132	7896	6980	7896
10°	10803	7862	6229	7862
15°	12479	7789	5353	7789
20°	13894	7689	4840	7689
25°	14343	7591	4494	7591
30°	12557	7471	4285	7471
35°	9773	7295	4159	7295
40°	7330	7093	4091	7093
45°	5787	6769	4055	6769
50°	4886	6395	3939	6395
55°	4259	5985	3727	5985
60°	3831	5557	3299	5557
65°	3377	5096	2839	5096
70°	3043	4619	2561	4619
75°	2548	4095	2183	4095
80°	2157	3487	2046	3487
85°	1825	2732	1825	2732



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.5	1.9
10°-20°	285.0	5.9
20°-30°	445.8	9.2
30°-40°	495.6	10.2
40°-50°	439.7	9.1
50°-60°	342.6	7.1
60°-70°	224.3	4.6
70°-80°	110.3	2.3
80°-90°	29.5	0.6
90°-100°	26.3	0.5
100°-110°	168.0	3.5
110°-120°	321.3	6.6
120°-130°	407.9	8.4
130°-140°	436.4	9.0
140°-150°	408.1	8.4
150°-160°	329.1	6.8
160°-170°	212.2	4.4
170°-180°	73.2	1.5
0°-30°	825.3	17.0
0°-40°	1320.9	27.2
0°-60°	2103.3	43.4
0°-90°	2467.4	50.9
90°-120°	515.6	10.6
90°-150°	1767.9	36.5
90°-180°	2382.0	49.1
0°-180°	4849.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	975	975	975	975	975	
5°	1127	974	861	974	1127	114
15°	1493	932	640	932	1493	425
25°	1610	852	504	852	1610	714
35°	992	740	422	740	992	622
45°	507	593	355	593	507	401
55°	303	425	265	425	303	275
65°	177	267	149	267	177	178
75°	82	131	70	131	82	90
85°	20	30	20	30	20	23
90°	17	2	17	2	17	8
95°	17	32	17	32	17	13
105°	164	173	164	173	164	143
115°	326	324	326	324	326	323
125°	459	455	459	455	459	408
135°	569	564	569	564	569	438
145°	654	651	654	651	654	409
155°	713	714	713	714	713	329
165°	749	753	749	753	749	212
175°	766	770	766	770	766	73
180°	770	770	770	770	770	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2
2.5°	1028.6	1031.5	1028.6	1028.3	1025.2	1024.3	1023.0	1019.0	1011.4	1006.9	1007.9
5°	1126.9	1136.7	1131.3	1130.4	1121.8	1113.2	1107.6	1095.1	1081.7	1072.7	1065.2
7.5°	1240.5	1246.2	1242.7	1237.2	1223.2	1215.3	1202.5	1186.0	1162.1	1143.7	1127.0
10°	1317.9	1322.5	1321.0	1310.8	1300.6	1279.7	1268.0	1244.8	1214.5	1190.5	1168.1
12.5°	1393.9	1399.0	1385.1	1385.6	1366.2	1349.8	1331.1	1302.0	1267.0	1236.1	1208.1
15°	1493.1	1486.8	1486.8	1478.9	1457.3	1434.5	1415.3	1384.6	1340.6	1303.7	1264.9
17.5°	1570.7	1573.0	1569.7	1551.2	1534.2	1510.7	1475.3	1439.6	1398.7	1349.1	1309.4
20°	1617.3	1617.3	1613.8	1601.1	1579.1	1554.0	1515.9	1477.0	1425.1	1375.2	1330.4
22.5°	1636.1	1637.4	1633.3	1622.9	1603.1	1578.5	1546.1	1506.5	1453.1	1396.9	1341.4
25°	1610.2	1617.6	1618.4	1615.7	1609.8	1594.9	1567.0	1526.5	1478.5	1417.6	1358.0
27.5°	1478.3	1487.7	1496.0	1509.5	1527.6	1537.1	1538.3	1517.7	1475.9	1417.3	1357.3
30°	1347.0	1354.7	1380.3	1413.7	1439.7	1463.2	1483.7	1489.1	1465.6	1412.9	1349.7
32.5°	1201.0	1211.7	1237.3	1273.2	1316.5	1356.3	1402.3	1425.6	1425.0	1393.4	1334.9
35°	991.7	999.6	1023.2	1060.9	1112.8	1172.0	1244.8	1301.3	1339.9	1337.1	1301.3
37.5°	799.8	808.7	832.5	863.8	914.1	987.5	1057.9	1135.9	1207.1	1247.1	1235.1
40°	695.5	695.9	719.0	751.2	798.4	862.4	939.1	1025.5	1104.9	1169.7	1182.2
42.5°	613.1	613.2	628.5	663.3	697.2	757.5	830.6	916.5	1009.4	1084.2	1117.5
45°	506.9	510.4	523.0	543.8	570.5	621.6	680.1	759.9	864.0	952.8	1008.2
47.5°	429.2	434.4	442.4	459.4	480.7	514.7	563.1	634.8	719.5	817.2	896.1
50°	389.0	389.8	400.0	409.4	427.9	455.0	497.5	557.1	635.0	728.8	816.5
52.5°	354.5	354.3	360.4	372.3	387.4	408.5	442.7	497.2	566.1	650.3	740.7
55°	302.6	304.5	309.2	318.6	330.0	345.0	372.1	412.9	467.2	539.1	621.2
57.5°	263.1	264.1	267.8	271.9	282.3	293.2	313.5	341.8	387.6	446.5	523.0
60°	237.3	237.7	238.9	244.8	253.1	263.3	277.0	300.9	339.5	393.3	453.8
62.5°	212.2	212.9	214.7	219.0	225.4	232.5	246.8	266.1	298.0	344.0	398.5
65°	176.8	177.2	180.0	181.6	186.6	192.9	203.5	216.5	238.5	277.0	318.3
67.5°	147.7	147.7	147.8	150.1	153.6	157.7	164.1	174.5	191.1	214.7	251.1
70°	128.9	128.9	129.7	130.9	132.8	136.3	139.9	147.7	160.0	179.2	207.0
72.5°	111.3	111.6	112.4	112.6	113.6	116.5	119.2	124.1	133.2	147.7	170.3
75°	81.7	82.9	84.8	86.4	88.4	88.1	90.8	93.9	96.6	105.3	118.3
77.5°	60.8	60.2	60.4	61.8	62.0	62.4	64.3	66.8	68.9	72.9	77.6
80°	46.4	46.4	47.6	48.0	47.6	48.0	49.9	51.1	51.9	53.4	57.8
82.5°	35.0	35.6	35.2	35.6	36.0	36.4	38.0	38.2	39.0	39.6	41.4
85°	19.7	20.0	20.4	19.7	19.7	19.7	20.4	20.8	21.6	21.2	22.0
87.5°	10.4	10.0	10.3	10.2	10.5	10.1	10.2	10.7	9.9	10.1	9.9
90°	17.3	17.1	16.8	16.6	16.3	15.8	14.9	14.2	13.4	12.6	11.6
92.5°	15.9	15.9	15.8	15.8	15.7	15.2	14.5	13.7	13.0	12.2	11.2
95°	16.7	16.6	16.5	16.4	16.2	15.8	14.9	14.2	13.4	12.6	12.5
97.5°	16.2	16.0	15.9	15.8	15.7	15.6	15.5	15.3	15.2	15.2	29.5
100°	16.2	16.0	15.9	15.8	15.7	16.7	18.8	21.0	23.1	25.3	43.0
102.5°	16.6	16.6	16.6	16.6	16.5	28.2	51.7	75.1	98.7	122.1	124.4
105°	164.2	168.7	173.4	178.0	182.6	184.3	183.2	182.1	180.9	179.8	179.0
107.5°	228.8	228.3	227.8	227.3	226.8	226.3	225.8	225.2	224.7	224.1	223.2
110°	256.9	256.5	256.1	255.8	255.4	255.1	254.8	254.6	254.3	254.1	253.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	285.0	284.6	284.1	283.6	283.1	282.9	283.0	283.0	283.1	283.1	282.8
115°	326.1	326.1	326.1	326.1	326.1	325.9	325.7	325.4	325.2	324.9	325.0
117.5°	367.8	367.8	367.9	367.9	368.0	368.0	368.1	368.1	368.2	368.2	367.9
120°	394.0	394.3	394.6	394.8	395.1	395.1	394.8	394.6	394.3	394.0	394.2
122.5°	419.8	420.1	420.3	420.6	420.8	420.9	420.7	420.6	420.4	420.3	420.1
125°	458.6	458.4	458.3	458.2	458.1	457.8	457.4	457.0	456.7	456.3	456.5
127.5°	492.5	492.6	492.7	492.8	492.9	493.0	493.1	493.2	493.2	493.3	492.7
130°	515.5	515.5	515.5	515.5	515.5	515.5	515.3	515.2	515.1	515.0	514.6
132.5°	536.7	536.8	536.9	537.0	537.1	537.1	537.0	536.9	536.7	536.6	536.1
135°	568.6	568.4	568.0	567.7	567.5	567.2	567.0	566.7	566.5	566.2	565.7
137.5°	595.7	595.8	595.9	596.0	596.0	595.9	595.7	595.4	595.1	594.8	594.3
140°	614.6	614.5	614.4	614.3	614.1	613.9	613.5	613.1	612.7	612.4	612.1
142.5°	630.4	630.3	630.3	630.3	630.3	630.1	629.8	629.4	629.2	628.9	628.7
145°	654.4	654.2	653.9	653.6	653.4	653.2	653.1	652.9	652.8	652.7	652.7
147.5°	674.3	674.2	674.1	674.0	673.8	673.7	673.6	673.5	673.4	673.3	673.4
150°	687.2	687.1	687.0	686.8	686.7	686.6	686.6	686.6	686.6	686.6	686.8
152.5°	698.3	698.3	698.4	698.5	698.6	698.5	698.3	698.1	697.9	697.7	697.9
155°	713.2	713.6	713.9	714.3	714.7	714.6	714.1	713.6	713.1	712.6	713.0
157.5°	725.6	726.3	726.9	727.6	728.2	728.2	727.6	726.9	726.3	725.6	726.0
160°	733.9	734.7	735.4	736.2	737.0	737.0	736.2	735.4	734.7	733.9	734.0
162.5°	740.3	741.2	742.0	743.0	743.9	743.9	743.1	742.4	741.5	740.8	740.9
165°	749.4	750.6	751.7	752.9	754.1	754.2	753.1	752.0	751.0	750.0	750.0
167.5°	756.3	757.5	758.8	760.1	761.3	761.4	760.3	759.2	758.1	756.9	757.0
170°	760.4	761.6	763.0	764.3	765.5	765.7	764.6	763.6	762.5	761.5	761.4
172.5°	762.7	764.1	765.5	766.9	768.2	768.4	767.4	766.4	765.4	764.3	764.2
175°	765.6	767.1	768.6	770.2	771.7	771.9	770.7	769.6	768.4	767.3	767.2
177.5°	767.4	768.6	769.9	771.1	772.3	772.5	771.7	770.9	770.1	769.2	769.0
180°	770.2	770.2	770.2	770.2	770.2	770.2	770.2	770.2	770.2	770.2	770.2



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2
2.5°	1004.8	1000.4	998.2	993.1	987.1	984.0	981.2	977.1	971.8	966.1	962.0
5°	1055.8	1046.3	1034.5	1020.4	1007.8	995.6	985.0	974.4	962.3	949.7	937.2
7.5°	1108.1	1089.5	1069.5	1046.3	1023.8	1003.3	984.4	966.3	945.9	927.6	910.9
10°	1144.6	1119.4	1091.6	1062.1	1032.6	1007.0	981.9	959.1	933.9	911.6	892.7
12.5°	1174.2	1144.6	1111.1	1074.3	1038.8	1007.9	979.1	949.4	920.8	896.5	871.3
15°	1223.1	1182.7	1137.5	1093.5	1047.5	1005.5	966.5	932.0	899.4	865.3	841.2
17.5°	1256.9	1208.8	1154.0	1101.1	1046.7	997.1	952.3	911.1	873.4	838.6	810.0
20°	1277.0	1224.0	1163.1	1102.9	1042.0	989.0	940.7	895.0	856.2	818.5	789.0
22.5°	1288.3	1229.6	1163.1	1100.0	1037.0	979.6	926.6	879.1	836.7	799.0	766.4
25°	1291.9	1229.0	1161.0	1088.7	1019.7	958.8	903.7	852.2	805.1	767.4	732.8
27.5°	1286.9	1212.8	1143.3	1069.0	997.7	933.5	875.8	821.6	774.5	734.0	698.5
30°	1279.3	1200.0	1125.3	1048.3	976.0	914.3	853.4	801.5	752.5	710.4	674.7
32.5°	1263.0	1184.3	1104.0	1025.0	951.8	888.3	830.5	778.3	730.1	687.1	649.1
35°	1230.6	1150.8	1063.6	982.7	910.8	844.8	790.5	740.2	694.3	648.3	608.2
37.5°	1187.9	1106.5	1019.7	931.1	859.1	796.8	747.0	699.8	654.9	613.0	568.6
40°	1147.7	1073.5	983.9	895.9	822.0	761.8	715.9	673.1	627.9	586.2	541.8
42.5°	1099.0	1035.7	945.2	856.9	784.0	726.0	683.2	641.4	600.3	559.9	513.5
45°	1017.6	969.8	884.8	800.0	726.5	669.1	629.9	592.9	556.7	518.3	474.6
47.5°	924.4	892.0	818.8	731.8	663.9	612.3	574.3	544.1	513.5	475.0	436.8
50°	859.7	838.9	768.2	688.8	624.0	576.4	537.6	509.2	483.7	446.8	412.5
52.5°	790.5	779.5	719.7	643.8	581.2	534.6	501.4	475.9	450.1	419.4	387.4
55°	685.3	691.2	640.5	574.8	515.9	476.7	446.4	425.2	403.1	377.2	352.4
57.5°	577.5	599.2	565.1	507.5	452.2	416.0	393.1	375.3	356.9	335.3	314.2
60°	513.1	531.2	512.0	461.3	412.9	379.2	358.0	344.2	325.7	306.1	289.9
62.5°	450.3	469.6	458.2	417.3	372.4	343.4	324.7	311.8	298.1	280.9	264.2
65°	371.3	383.8	378.4	350.1	318.3	293.5	276.2	266.8	254.2	241.7	226.7
67.5°	284.4	308.7	305.5	290.4	263.0	243.6	232.3	224.0	212.5	203.2	193.0
70°	233.8	256.2	255.8	243.6	228.6	210.6	202.8	195.7	185.4	176.4	168.1
72.5°	191.4	211.9	214.9	205.6	195.4	181.7	174.1	169.3	159.4	153.2	146.4
75°	134.0	149.0	152.9	152.9	148.1	141.1	134.4	131.3	124.1	118.7	114.7
77.5°	87.9	97.3	103.4	104.8	105.5	103.2	97.7	95.4	90.1	88.1	84.3
80°	62.1	68.4	75.4	77.8	79.8	79.0	76.6	75.0	70.0	68.0	66.4
82.5°	42.9	46.4	52.2	57.4	56.9	58.9	56.9	55.5	51.7	51.0	49.4
85°	22.4	22.8	23.5	27.1	29.1	29.9	30.3	29.5	28.3	28.3	25.5
87.5°	9.7	9.2	9.6	9.3	9.4	10.3	11.0	11.0	10.4	9.7	9.1
90°	10.6	9.6	8.6	7.4	6.0	4.5	3.1	1.7	3.1	4.5	6.0
92.5°	10.2	9.2	8.1	7.6	7.5	7.4	7.4	7.3	7.4	7.4	7.5
95°	12.4	12.3	12.1	14.2	18.6	23.0	27.4	31.7	27.4	23.0	18.6
97.5°	43.8	58.1	72.3	78.2	75.4	72.7	70.0	67.3	70.0	72.7	75.4
100°	60.7	78.4	96.0	103.7	101.4	99.1	96.7	94.4	96.7	99.1	101.4
102.5°	126.7	129.1	131.4	131.7	130.0	128.3	126.5	124.9	126.5	128.3	130.0
105°	178.4	177.8	177.1	176.4	175.7	174.9	174.2	173.4	174.2	174.9	175.7
107.5°	222.4	221.5	220.6	219.9	219.5	219.2	218.8	218.4	218.8	219.2	219.5
110°	252.5	251.8	251.0	250.3	250.0	249.6	249.2	248.8	249.2	249.6	250.0





TEST NUMBER: P332901-840

CATALOG NUMBER: SA4XXRDIP-C575D590U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	282.4	282.0	281.7	281.1	280.4	279.7	279.0	278.3	279.0	279.7	280.4
115°	325.2	325.3	325.4	325.3	324.9	324.5	324.2	323.8	324.2	324.5	324.9
117.5°	367.7	367.4	367.1	366.7	366.2	365.7	365.2	364.7	365.2	365.7	366.2
120°	394.3	394.5	394.6	394.4	393.8	393.3	392.8	392.3	392.8	393.3	393.8
122.5°	419.9	419.8	419.6	419.3	419.0	418.7	418.4	418.1	418.4	418.7	419.0
125°	456.8	457.0	457.3	457.2	456.7	456.2	455.6	455.0	455.6	456.2	456.7
127.5°	492.1	491.6	491.0	490.6	490.5	490.4	490.2	490.1	490.2	490.4	490.5
130°	514.2	513.8	513.4	513.2	513.1	512.9	512.8	512.7	512.8	512.9	513.1
132.5°	535.6	535.2	534.7	534.3	534.1	533.9	533.6	533.4	533.6	533.9	534.1
135°	565.2	564.7	564.2	564.0	564.1	564.3	564.4	564.5	564.4	564.3	564.1
137.5°	593.7	593.1	592.6	592.3	592.2	592.2	592.1	592.1	592.1	592.2	592.2
140°	611.9	611.6	611.3	611.1	610.8	610.6	610.3	610.1	610.3	610.6	610.8
142.5°	628.6	628.4	628.3	628.0	627.5	627.1	626.6	626.2	626.6	627.1	627.5
145°	652.7	652.7	652.7	652.5	652.1	651.7	651.4	651.0	651.4	651.7	652.1
147.5°	673.6	673.7	673.8	673.5	672.8	672.1	671.4	670.7	671.4	672.1	672.8
150°	686.9	687.0	687.2	687.0	686.5	686.0	685.4	684.9	685.4	686.0	686.5
152.5°	698.2	698.4	698.6	698.5	698.1	697.7	697.3	696.9	697.3	697.7	698.1
155°	713.4	713.8	714.1	714.3	714.1	714.0	713.9	713.8	713.9	714.0	714.1
157.5°	726.5	726.9	727.3	727.6	727.7	727.7	727.8	727.9	727.8	727.7	727.7
160°	734.2	734.3	734.4	734.7	735.1	735.4	735.8	736.2	735.8	735.4	735.1
162.5°	741.0	741.1	741.3	741.6	742.1	742.6	743.1	743.6	743.1	742.6	742.1
165°	750.0	750.0	750.0	750.3	750.9	751.6	752.2	752.9	752.2	751.6	750.9
167.5°	757.1	757.2	757.2	757.6	758.3	758.9	759.6	760.2	759.6	758.9	758.3
170°	761.2	761.1	761.0	761.3	762.1	762.9	763.7	764.5	763.7	762.9	762.1
172.5°	764.1	764.0	763.8	764.2	764.9	765.7	766.4	767.2	766.4	765.7	764.9
175°	767.1	766.9	766.8	767.1	767.9	768.6	769.4	770.2	769.4	768.6	767.9
177.5°	768.8	768.6	768.4	768.7	769.4	770.1	770.8	771.5	770.8	770.1	769.4
180°	770.2	770.2	770.2	770.2	770.2	770.2	770.2	770.2	770.2	770.2	770.2



TEST NUMBER: P332901-840

CATALOG NUMBER: SA4XXRDIP-C575D590U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2
2.5°	957.7	954.5	950.4	945.6	940.0	935.0	932.8	934.6	935.6	933.1	932.8
5°	928.5	918.7	910.8	899.0	889.6	881.7	876.2	873.8	874.6	868.4	866.8
7.5°	895.6	884.0	871.2	857.2	844.1	832.6	826.6	823.2	816.6	813.7	808.9
10°	874.6	858.9	846.4	829.8	815.0	801.1	794.5	789.0	782.3	779.1	772.4
12.5°	852.9	834.8	820.9	803.8	788.5	771.9	765.6	755.4	744.9	738.3	729.7
15°	822.3	800.4	783.5	763.1	745.0	726.1	709.2	690.3	683.3	668.3	659.7
17.5°	786.6	764.3	743.4	716.0	688.1	664.7	646.6	628.6	617.7	608.2	603.8
20°	763.1	742.7	713.6	681.8	650.7	624.7	610.2	598.4	586.6	580.0	575.2
22.5°	740.7	714.7	680.9	646.5	615.5	595.2	582.9	570.8	561.2	554.8	548.6
25°	703.4	669.1	633.4	594.1	572.9	555.2	541.8	532.0	526.1	517.9	514.7
27.5°	664.9	623.5	584.0	557.6	535.5	519.4	507.8	500.4	492.9	487.6	483.5
30°	635.3	593.3	558.0	532.8	510.4	497.1	487.6	479.0	473.1	468.8	465.6
32.5°	606.1	564.1	534.3	507.4	489.7	476.7	466.6	460.1	455.4	449.9	448.0
35°	563.8	526.5	500.6	476.3	458.2	446.4	438.5	431.8	427.9	426.4	425.2
37.5°	523.2	492.6	464.7	444.7	428.7	419.4	410.1	406.9	404.1	401.3	402.6
40°	497.5	468.8	444.0	422.8	409.8	399.6	394.0	390.2	387.8	387.8	387.8
42.5°	475.1	447.1	422.9	403.9	390.9	382.3	376.2	372.8	372.1	371.7	373.7
45°	440.5	414.5	390.2	374.5	363.5	354.8	351.2	348.5	348.5	350.1	350.5
47.5°	406.2	381.8	362.2	344.7	334.6	329.2	326.1	324.7	324.9	326.4	328.2
50°	385.1	361.1	341.8	326.1	316.7	311.5	308.8	308.0	308.8	308.8	311.5
52.5°	362.1	340.6	321.7	308.5	297.8	293.1	291.5	290.4	290.9	292.2	293.4
55°	328.5	309.2	291.1	278.6	270.7	267.6	264.1	264.5	263.7	264.5	264.5
57.5°	294.8	277.5	260.6	250.6	243.8	239.2	235.4	236.4	235.3	235.1	234.5
60°	273.1	254.2	240.9	231.9	224.0	220.0	216.5	217.3	216.1	215.3	213.8
62.5°	249.5	233.8	221.1	212.4	206.0	201.5	197.9	197.1	194.4	191.8	188.2
65°	215.3	202.4	191.0	182.7	176.8	173.3	170.6	168.1	162.3	156.0	152.9
67.5°	182.1	172.7	162.1	155.1	150.4	145.7	140.5	136.4	130.9	127.4	125.5
70°	160.7	151.7	142.6	135.9	130.9	126.5	120.6	117.9	113.9	112.4	110.4
72.5°	140.3	131.9	123.4	117.4	112.0	108.6	104.0	101.2	99.5	98.9	96.8
75°	109.3	102.6	96.2	90.8	86.4	84.1	82.1	80.2	79.4	75.8	73.8
77.5°	79.7	75.2	71.4	67.5	64.3	62.8	59.0	56.8	55.4	53.7	53.3
80°	62.1	59.0	55.0	52.6	48.4	46.8	45.1	44.8	44.4	44.0	43.6
82.5°	46.7	43.5	39.6	38.2	37.1	36.1	35.1	34.7	34.3	34.5	34.5
85°	23.5	22.0	22.0	21.6	21.2	20.8	20.4	20.4	20.0	20.4	20.0
87.5°	9.3	9.3	9.5	9.1	9.6	9.8	9.6	9.8	10.2	9.8	9.9
90°	7.4	8.6	9.6	10.6	11.6	12.6	13.4	14.2	14.9	15.8	16.3
92.5°	7.6	8.1	9.2	10.2	11.2	12.2	13.0	13.7	14.5	15.2	15.7
95°	14.2	12.1	12.3	12.4	12.5	12.6	13.4	14.2	14.9	15.8	16.2
97.5°	78.2	72.3	58.1	43.8	29.5	15.2	15.2	15.3	15.5	15.6	15.7
100°	103.7	96.0	78.4	60.7	43.0	25.3	23.1	21.0	18.8	16.7	15.7
102.5°	131.7	131.4	129.1	126.7	124.4	122.1	98.7	75.1	51.7	28.2	16.5
105°	176.4	177.1	177.8	178.4	179.0	179.8	180.9	182.1	183.2	184.3	182.6
107.5°	219.9	220.6	221.5	222.4	223.2	224.1	224.7	225.2	225.8	226.3	226.8
110°	250.3	251.0	251.8	252.5	253.3	254.1	254.3	254.6	254.8	255.1	255.4



TEST NUMBER: P332901-840

CATALOG NUMBER: SA4XXRDIP-C575D590U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	281.1	281.7	282.0	282.4	282.8	283.1	283.1	283.0	283.0	282.9	283.1
115°	325.3	325.4	325.3	325.2	325.0	324.9	325.2	325.4	325.7	325.9	326.1
117.5°	366.7	367.1	367.4	367.7	367.9	368.2	368.2	368.1	368.1	368.0	368.0
120°	394.4	394.6	394.5	394.3	394.2	394.0	394.3	394.6	394.8	395.1	395.1
122.5°	419.3	419.6	419.8	419.9	420.1	420.3	420.4	420.6	420.7	420.9	420.8
125°	457.2	457.3	457.0	456.8	456.5	456.3	456.7	457.0	457.4	457.8	458.1
127.5°	490.6	491.0	491.6	492.1	492.7	493.3	493.2	493.2	493.1	493.0	492.9
130°	513.2	513.4	513.8	514.2	514.6	515.0	515.1	515.2	515.3	515.5	515.5
132.5°	534.3	534.7	535.2	535.6	536.1	536.6	536.7	536.9	537.0	537.1	537.1
135°	564.0	564.2	564.7	565.2	565.7	566.2	566.5	566.7	567.0	567.2	567.5
137.5°	592.3	592.6	593.1	593.7	594.3	594.8	595.1	595.4	595.7	595.9	596.0
140°	611.1	611.3	611.6	611.9	612.1	612.4	612.7	613.1	613.5	613.9	614.1
142.5°	628.0	628.3	628.4	628.6	628.7	628.9	629.2	629.4	629.8	630.1	630.3
145°	652.5	652.7	652.7	652.7	652.7	652.7	652.8	652.9	653.1	653.2	653.4
147.5°	673.5	673.8	673.7	673.6	673.4	673.3	673.4	673.5	673.6	673.7	673.8
150°	687.0	687.2	687.0	686.9	686.8	686.6	686.6	686.6	686.6	686.6	686.7
152.5°	698.5	698.6	698.4	698.2	697.9	697.7	697.9	698.1	698.3	698.5	698.6
155°	714.3	714.1	713.8	713.4	713.0	712.6	713.1	713.6	714.1	714.6	714.7
157.5°	727.6	727.3	726.9	726.5	726.0	725.6	726.3	726.9	727.6	728.2	728.2
160°	734.7	734.4	734.3	734.2	734.0	733.9	734.7	735.4	736.2	737.0	737.0
162.5°	741.6	741.3	741.1	741.0	740.9	740.8	741.5	742.4	743.1	743.9	743.9
165°	750.3	750.0	750.0	750.0	750.0	750.0	751.0	752.0	753.1	754.2	754.1
167.5°	757.6	757.2	757.2	757.1	757.0	756.9	758.1	759.2	760.3	761.4	761.3
170°	761.3	761.0	761.1	761.2	761.4	761.5	762.5	763.6	764.6	765.7	765.5
172.5°	764.2	763.8	764.0	764.1	764.2	764.3	765.4	766.4	767.4	768.4	768.2
175°	767.1	766.8	766.9	767.1	767.2	767.3	768.4	769.6	770.7	771.9	771.7
177.5°	768.7	768.4	768.6	768.8	769.0	769.2	770.1	770.9	771.7	772.5	772.3
180°	770.2	770.2	770.2	770.2	770.2	770.2	770.2	770.2	770.2	770.2	770.2



TEST NUMBER: P332901-840

CATALOG NUMBER: SA4XXRDIP-C575D590U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2
2.5°	930.9	931.5	929.4	928.7	929.4	931.5	930.9	932.8	933.1	935.6	934.6
5°	863.6	862.8	860.9	861.3	860.9	862.8	863.6	866.8	868.4	874.6	873.8
7.5°	806.1	803.0	804.0	800.7	804.0	803.0	806.1	808.9	813.7	816.6	823.2
10°	770.9	766.6	763.1	759.9	763.1	766.6	770.9	772.4	779.1	782.3	789.0
12.5°	722.9	719.1	714.3	715.3	714.3	719.1	722.9	729.7	738.3	744.9	755.4
15°	654.6	648.7	639.2	640.5	639.2	648.7	654.6	659.7	668.3	683.3	690.3
17.5°	596.8	596.9	592.6	593.6	592.6	596.9	596.8	603.8	608.2	617.7	628.6
20°	566.9	564.2	564.6	563.4	564.6	564.2	566.9	575.2	580.0	586.6	598.4
22.5°	546.2	542.9	540.1	537.7	540.1	542.9	546.2	548.6	554.8	561.2	570.8
25°	511.2	508.9	505.3	504.5	505.3	508.9	511.2	514.7	517.9	526.1	532.0
27.5°	480.4	479.9	478.5	476.7	478.5	479.9	480.4	483.5	487.6	492.9	500.4
30°	462.4	461.7	460.9	459.7	460.9	461.7	462.4	465.6	468.8	473.1	479.0
32.5°	446.5	446.0	445.1	445.2	445.1	446.0	446.5	448.0	449.9	455.4	460.1
35°	423.5	423.1	422.4	422.0	422.4	423.1	423.5	425.2	426.4	427.9	431.8
37.5°	402.2	403.2	402.7	402.6	402.7	403.2	402.2	402.6	401.3	404.1	406.9
40°	387.4	387.8	388.6	388.2	388.6	387.8	387.4	387.8	387.8	387.8	390.2
42.5°	375.2	375.3	376.4	375.0	376.4	375.3	375.2	373.7	371.7	372.1	372.8
45°	353.3	355.6	355.2	355.2	355.2	355.6	353.3	350.5	350.1	348.5	348.5
47.5°	329.2	331.3	331.8	331.7	331.8	331.3	329.2	328.2	326.4	324.9	324.7
50°	313.6	312.8	314.0	313.6	314.0	312.8	313.6	311.5	308.8	308.8	308.0
52.5°	294.4	294.6	294.5	294.1	294.5	294.6	294.4	293.4	292.2	290.9	290.4
55°	264.8	265.2	264.5	264.8	264.5	265.2	264.8	264.5	264.5	263.7	264.5
57.5°	232.8	230.9	231.7	230.8	231.7	230.9	232.8	234.5	235.1	235.3	236.4
60°	209.8	206.7	205.9	204.3	205.9	206.7	209.8	213.8	215.3	216.1	217.3
62.5°	184.0	181.9	179.2	180.5	179.2	181.9	184.0	188.2	191.8	194.4	197.1
65°	149.7	148.1	146.9	148.6	146.9	148.1	149.7	152.9	156.0	162.3	168.1
67.5°	123.9	123.1	123.1	122.3	123.1	123.1	123.9	125.5	127.4	130.9	136.4
70°	110.4	109.3	109.3	108.5	109.3	109.3	110.4	110.4	112.4	113.9	117.9
72.5°	96.5	95.4	95.7	95.2	95.7	95.4	96.5	96.8	98.9	99.5	101.2
75°	71.5	69.6	69.6	70.0	69.6	69.6	71.5	73.8	75.8	79.4	80.2
77.5°	53.3	52.9	53.5	52.8	53.5	52.9	53.3	53.3	53.7	55.4	56.8
80°	43.6	43.2	42.8	44.0	42.8	43.2	43.6	43.6	44.0	44.4	44.8
82.5°	33.8	33.8	33.7	35.2	33.7	33.8	33.8	34.5	34.5	34.3	34.7
85°	20.4	19.7	20.4	19.7	20.4	19.7	20.4	20.0	20.4	20.0	20.4
87.5°	10.5	10.3	10.0	10.4	10.0	10.3	10.5	9.9	9.8	10.2	9.8
90°	16.6	16.8	17.1	17.3	17.1	16.8	16.6	16.3	15.8	14.9	14.2
92.5°	15.8	15.8	15.9	15.9	15.9	15.8	15.8	15.7	15.2	14.5	13.7
95°	16.4	16.5	16.6	16.7	16.6	16.5	16.4	16.2	15.8	14.9	14.2
97.5°	15.8	15.9	16.0	16.2	16.0	15.9	15.8	15.7	15.6	15.5	15.3
100°	15.8	15.9	16.0	16.2	16.0	15.9	15.8	15.7	16.7	18.8	21.0
102.5°	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.5	28.2	51.7	75.1
105°	178.0	173.4	168.7	164.2	168.7	173.4	178.0	182.6	184.3	183.2	182.1
107.5°	227.3	227.8	228.3	228.8	228.3	227.8	227.3	226.8	226.3	225.8	225.2
110°	255.8	256.1	256.5	256.9	256.5	256.1	255.8	255.4	255.1	254.8	254.6



TEST NUMBER: P332901-840

CATALOG NUMBER: SA4XXRDIP-C575D590U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	283.6	284.1	284.6	285.0	284.6	284.1	283.6	283.1	282.9	283.0	283.0
115°	326.1	326.1	326.1	326.1	326.1	326.1	326.1	326.1	325.9	325.7	325.4
117.5°	367.9	367.9	367.8	367.8	367.8	367.9	367.9	368.0	368.0	368.1	368.1
120°	394.8	394.6	394.3	394.0	394.3	394.6	394.8	395.1	395.1	394.8	394.6
122.5°	420.6	420.3	420.1	419.8	420.1	420.3	420.6	420.8	420.9	420.7	420.6
125°	458.2	458.3	458.4	458.6	458.4	458.3	458.2	458.1	457.8	457.4	457.0
127.5°	492.8	492.7	492.6	492.5	492.6	492.7	492.8	492.9	493.0	493.1	493.2
130°	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.3	515.2
132.5°	537.0	536.9	536.8	536.7	536.8	536.9	537.0	537.1	537.1	537.0	536.9
135°	567.7	568.0	568.4	568.6	568.4	568.0	567.7	567.5	567.2	567.0	566.7
137.5°	596.0	595.9	595.8	595.7	595.8	595.9	596.0	596.0	595.9	595.7	595.4
140°	614.3	614.4	614.5	614.6	614.5	614.4	614.3	614.1	613.9	613.5	613.1
142.5°	630.3	630.3	630.3	630.4	630.3	630.3	630.3	630.3	630.1	629.8	629.4
145°	653.6	653.9	654.2	654.4	654.2	653.9	653.6	653.4	653.2	653.1	652.9
147.5°	674.0	674.1	674.2	674.3	674.2	674.1	674.0	673.8	673.7	673.6	673.5
150°	686.8	687.0	687.1	687.2	687.1	687.0	686.8	686.7	686.6	686.6	686.6
152.5°	698.5	698.4	698.3	698.3	698.3	698.4	698.5	698.6	698.5	698.3	698.1
155°	714.3	713.9	713.6	713.2	713.6	713.9	714.3	714.7	714.6	714.1	713.6
157.5°	727.6	726.9	726.3	725.6	726.3	726.9	727.6	728.2	728.2	727.6	726.9
160°	736.2	735.4	734.7	733.9	734.7	735.4	736.2	737.0	737.0	736.2	735.4
162.5°	743.0	742.0	741.2	740.3	741.2	742.0	743.0	743.9	743.9	743.1	742.4
165°	752.9	751.7	750.6	749.4	750.6	751.7	752.9	754.1	754.2	753.1	752.0
167.5°	760.1	758.8	757.5	756.3	757.5	758.8	760.1	761.3	761.4	760.3	759.2
170°	764.3	763.0	761.6	760.4	761.6	763.0	764.3	765.5	765.7	764.6	763.6
172.5°	766.9	765.5	764.1	762.7	764.1	765.5	766.9	768.2	768.4	767.4	766.4
175°	770.2	768.6	767.1	765.6	767.1	768.6	770.2	771.7	771.9	770.7	769.6
177.5°	771.1	769.9	768.6	767.4	768.6	769.9	771.1	772.3	772.5	771.7	770.9
180°	770.2	770.2	770.2	770.2	770.2	770.2	770.2	770.2	770.2	770.2	770.2



TEST NUMBER: P332901-840  
 CATALOG NUMBER: SA4XXRDIP-C575D590U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2
2.5°	932.8	935.0	940.0	945.6	950.4	954.5	957.7	962.0	966.1	971.8	977.1
5°	876.2	881.7	889.6	899.0	910.8	918.7	928.5	937.2	949.7	962.3	974.4
7.5°	826.6	832.6	844.1	857.2	871.2	884.0	895.6	910.9	927.6	945.9	966.3
10°	794.5	801.1	815.0	829.8	846.4	858.9	874.6	892.7	911.6	933.9	959.1
12.5°	765.6	771.9	788.5	803.8	820.9	834.8	852.9	871.3	896.5	920.8	949.4
15°	709.2	726.1	745.0	763.1	783.5	800.4	822.3	841.2	865.3	899.4	932.0
17.5°	646.6	664.7	688.1	716.0	743.4	764.3	786.6	810.0	838.6	873.4	911.1
20°	610.2	624.7	650.7	681.8	713.6	742.7	763.1	789.0	818.5	856.2	895.0
22.5°	582.9	595.2	615.5	646.5	680.9	714.7	740.7	766.4	799.0	836.7	879.1
25°	541.8	555.2	572.9	594.1	633.4	669.1	703.4	732.8	767.4	805.1	852.2
27.5°	507.8	519.4	535.5	557.6	584.0	623.5	664.9	698.5	734.0	774.5	821.6
30°	487.6	497.1	510.4	532.8	558.0	593.3	635.3	674.7	710.4	752.5	801.5
32.5°	466.6	476.7	489.7	507.4	534.3	564.1	606.1	649.1	687.1	730.1	778.3
35°	438.5	446.4	458.2	476.3	500.6	526.5	563.8	608.2	648.3	694.3	740.2
37.5°	410.1	419.4	428.7	444.7	464.7	492.6	523.2	568.6	613.0	654.9	699.8
40°	394.0	399.6	409.8	422.8	444.0	468.8	497.5	541.8	586.2	627.9	673.1
42.5°	376.2	382.3	390.9	403.9	422.9	447.1	475.1	513.5	559.9	600.3	641.4
45°	351.2	354.8	363.5	374.5	390.2	414.5	440.5	474.6	518.3	556.7	592.9
47.5°	326.1	329.2	334.6	344.7	362.2	381.8	406.2	436.8	475.0	513.5	544.1
50°	308.8	311.5	316.7	326.1	341.8	361.1	385.1	412.5	446.8	483.7	509.2
52.5°	291.5	293.1	297.8	308.5	321.7	340.6	362.1	387.4	419.4	450.1	475.9
55°	264.1	267.6	270.7	278.6	291.1	309.2	328.5	352.4	377.2	403.1	425.2
57.5°	235.4	239.2	243.8	250.6	260.6	277.5	294.8	314.2	335.3	356.9	375.3
60°	216.5	220.0	224.0	231.9	240.9	254.2	273.1	289.9	306.1	325.7	344.2
62.5°	197.9	201.5	206.0	212.4	221.1	233.8	249.5	264.2	280.9	298.1	311.8
65°	170.6	173.3	176.8	182.7	191.0	202.4	215.3	226.7	241.7	254.2	266.8
67.5°	140.5	145.7	150.4	155.1	162.1	172.7	182.1	193.0	203.2	212.5	224.0
70°	120.6	126.5	130.9	135.9	142.6	151.7	160.7	168.1	176.4	185.4	195.7
72.5°	104.0	108.6	112.0	117.4	123.4	131.9	140.3	146.4	153.2	159.4	169.3
75°	82.1	84.1	86.4	90.8	96.2	102.6	109.3	114.7	118.7	124.1	131.3
77.5°	59.0	62.8	64.3	67.5	71.4	75.2	79.7	84.3	88.1	90.1	95.4
80°	45.1	46.8	48.4	52.6	55.0	59.0	62.1	66.4	68.0	70.0	75.0
82.5°	35.1	36.1	37.1	38.2	39.6	43.5	46.7	49.4	51.0	51.7	55.5
85°	20.4	20.8	21.2	21.6	22.0	22.0	23.5	25.5	28.3	28.3	29.5
87.5°	9.6	9.8	9.6	9.1	9.5	9.3	9.3	9.1	9.7	10.4	11.0
90°	13.4	12.6	11.6	10.6	9.6	8.6	7.4	6.0	4.5	3.1	1.7
92.5°	13.0	12.2	11.2	10.2	9.2	8.1	7.6	7.5	7.4	7.4	7.3
95°	13.4	12.6	12.5	12.4	12.3	12.1	14.2	18.6	23.0	27.4	31.7
97.5°	15.2	15.2	29.5	43.8	58.1	72.3	78.2	75.4	72.7	70.0	67.3
100°	23.1	25.3	43.0	60.7	78.4	96.0	103.7	101.4	99.1	96.7	94.4
102.5°	98.7	122.1	124.4	126.7	129.1	131.4	131.7	130.0	128.3	126.5	124.9
105°	180.9	179.8	179.0	178.4	177.8	177.1	176.4	175.7	174.9	174.2	173.4
107.5°	224.7	224.1	223.2	222.4	221.5	220.6	219.9	219.5	219.2	218.8	218.4
110°	254.3	254.1	253.3	252.5	251.8	251.0	250.3	250.0	249.6	249.2	248.8



TEST NUMBER: P332901-840

CATALOG NUMBER: SA4XXRDIP-C575D590U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	283.1	283.1	282.8	282.4	282.0	281.7	281.1	280.4	279.7	279.0	278.3
115°	325.2	324.9	325.0	325.2	325.3	325.4	325.3	324.9	324.5	324.2	323.8
117.5°	368.2	368.2	367.9	367.7	367.4	367.1	366.7	366.2	365.7	365.2	364.7
120°	394.3	394.0	394.2	394.3	394.5	394.6	394.4	393.8	393.3	392.8	392.3
122.5°	420.4	420.3	420.1	419.9	419.8	419.6	419.3	419.0	418.7	418.4	418.1
125°	456.7	456.3	456.5	456.8	457.0	457.3	457.2	456.7	456.2	455.6	455.0
127.5°	493.2	493.3	492.7	492.1	491.6	491.0	490.6	490.5	490.4	490.2	490.1
130°	515.1	515.0	514.6	514.2	513.8	513.4	513.2	513.1	512.9	512.8	512.7
132.5°	536.7	536.6	536.1	535.6	535.2	534.7	534.3	534.1	533.9	533.6	533.4
135°	566.5	566.2	565.7	565.2	564.7	564.2	564.0	564.1	564.3	564.4	564.5
137.5°	595.1	594.8	594.3	593.7	593.1	592.6	592.3	592.2	592.2	592.1	592.1
140°	612.7	612.4	612.1	611.9	611.6	611.3	611.1	610.8	610.6	610.3	610.1
142.5°	629.2	628.9	628.7	628.6	628.4	628.3	628.0	627.5	627.1	626.6	626.2
145°	652.8	652.7	652.7	652.7	652.7	652.7	652.5	652.1	651.7	651.4	651.0
147.5°	673.4	673.3	673.4	673.6	673.7	673.8	673.5	672.8	672.1	671.4	670.7
150°	686.6	686.6	686.8	686.9	687.0	687.2	687.0	686.5	686.0	685.4	684.9
152.5°	697.9	697.7	697.9	698.2	698.4	698.6	698.5	698.1	697.7	697.3	696.9
155°	713.1	712.6	713.0	713.4	713.8	714.1	714.3	714.1	714.0	713.9	713.8
157.5°	726.3	725.6	726.0	726.5	726.9	727.3	727.6	727.7	727.7	727.8	727.9
160°	734.7	733.9	734.0	734.2	734.3	734.4	734.7	735.1	735.4	735.8	736.2
162.5°	741.5	740.8	740.9	741.0	741.1	741.3	741.6	742.1	742.6	743.1	743.6
165°	751.0	750.0	750.0	750.0	750.0	750.0	750.3	750.9	751.6	752.2	752.9
167.5°	758.1	756.9	757.0	757.1	757.2	757.2	757.6	758.3	758.9	759.6	760.2
170°	762.5	761.5	761.4	761.2	761.1	761.0	761.3	762.1	762.9	763.7	764.5
172.5°	765.4	764.3	764.2	764.1	764.0	763.8	764.2	764.9	765.7	766.4	767.2
175°	768.4	767.3	767.2	767.1	766.9	766.8	767.1	767.9	768.6	769.4	770.2
177.5°	770.1	769.2	769.0	768.8	768.6	768.4	768.7	769.4	770.1	770.8	771.5
180°	770.2	770.2	770.2	770.2	770.2	770.2	770.2	770.2	770.2	770.2	770.2



TEST NUMBER: P332901-840

CATALOG NUMBER: SA4XXRDIP-C575D590U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2
2.5°	981.2	984.0	987.1	993.1	998.2	1000.4	1004.8	1007.9	1006.9	1011.4	1019.0
5°	985.0	995.6	1007.8	1020.4	1034.5	1046.3	1055.8	1065.2	1072.7	1081.7	1095.1
7.5°	984.4	1003.3	1023.8	1046.3	1069.5	1089.5	1108.1	1127.0	1143.7	1162.1	1186.0
10°	981.9	1007.0	1032.6	1062.1	1091.6	1119.4	1144.6	1168.1	1190.5	1214.5	1244.8
12.5°	979.1	1007.9	1038.8	1074.3	1111.1	1144.6	1174.2	1208.1	1236.1	1267.0	1302.0
15°	966.5	1005.5	1047.5	1093.5	1137.5	1182.7	1223.1	1264.9	1303.7	1340.6	1384.6
17.5°	952.3	997.1	1046.7	1101.1	1154.0	1208.8	1256.9	1309.4	1349.1	1398.7	1439.6
20°	940.7	989.0	1042.0	1102.9	1163.1	1224.0	1277.0	1330.4	1375.2	1425.1	1477.0
22.5°	926.6	979.6	1037.0	1100.0	1163.1	1229.6	1288.3	1341.4	1396.9	1453.1	1506.5
25°	903.7	958.8	1019.7	1088.7	1161.0	1229.0	1291.9	1358.0	1417.6	1478.5	1526.5
27.5°	875.8	933.5	997.7	1069.0	1143.3	1212.8	1286.9	1357.3	1417.3	1475.9	1517.7
30°	853.4	914.3	976.0	1048.3	1125.3	1200.0	1279.3	1349.7	1412.9	1465.6	1489.1
32.5°	830.5	888.3	951.8	1025.0	1104.0	1184.3	1263.0	1334.9	1393.4	1425.0	1425.6
35°	790.5	844.8	910.8	982.7	1063.6	1150.8	1230.6	1301.3	1337.1	1339.9	1301.3
37.5°	747.0	796.8	859.1	931.1	1019.7	1106.5	1187.9	1235.1	1247.1	1207.1	1135.9
40°	715.9	761.8	822.0	895.9	983.9	1073.5	1147.7	1182.2	1169.7	1104.9	1025.5
42.5°	683.2	726.0	784.0	856.9	945.2	1035.7	1099.0	1117.5	1084.2	1009.4	916.5
45°	629.9	669.1	726.5	800.0	884.8	969.8	1017.6	1008.2	952.8	864.0	759.9
47.5°	574.3	612.3	663.9	731.8	818.8	892.0	924.4	896.1	817.2	719.5	634.8
50°	537.6	576.4	624.0	688.8	768.2	838.9	859.7	816.5	728.8	635.0	557.1
52.5°	501.4	534.6	581.2	643.8	719.7	779.5	790.5	740.7	650.3	566.1	497.2
55°	446.4	476.7	515.9	574.8	640.5	691.2	685.3	621.2	539.1	467.2	412.9
57.5°	393.1	416.0	452.2	507.5	565.1	599.2	577.5	523.0	446.5	387.6	341.8
60°	358.0	379.2	412.9	461.3	512.0	531.2	513.1	453.8	393.3	339.5	300.9
62.5°	324.7	343.4	372.4	417.3	458.2	469.6	450.3	398.5	344.0	298.0	266.1
65°	276.2	293.5	318.3	350.1	378.4	383.8	371.3	318.3	277.0	238.5	216.5
67.5°	232.3	243.6	263.0	290.4	305.5	308.7	284.4	251.1	214.7	191.1	174.5
70°	202.8	210.6	228.6	243.6	255.8	256.2	233.8	207.0	179.2	160.0	147.7
72.5°	174.1	181.7	195.4	205.6	214.9	211.9	191.4	170.3	147.7	133.2	124.1
75°	134.4	141.1	148.1	152.9	152.9	149.0	134.0	118.3	105.3	96.6	93.9
77.5°	97.7	103.2	105.5	104.8	103.4	97.3	87.9	77.6	72.9	68.9	66.8
80°	76.6	79.0	79.8	77.8	75.4	68.4	62.1	57.8	53.4	51.9	51.1
82.5°	56.9	58.9	56.9	57.4	52.2	46.4	42.9	41.4	39.6	39.0	38.2
85°	30.3	29.9	29.1	27.1	23.5	22.8	22.4	22.0	21.2	21.6	20.8
87.5°	11.0	10.3	9.4	9.3	9.6	9.2	9.7	9.9	10.1	9.9	10.7
90°	3.1	4.5	6.0	7.4	8.6	9.6	10.6	11.6	12.6	13.4	14.2
92.5°	7.4	7.4	7.5	7.6	8.1	9.2	10.2	11.2	12.2	13.0	13.7
95°	27.4	23.0	18.6	14.2	12.1	12.3	12.4	12.5	12.6	13.4	14.2
97.5°	70.0	72.7	75.4	78.2	72.3	58.1	43.8	29.5	15.2	15.2	15.3
100°	96.7	99.1	101.4	103.7	96.0	78.4	60.7	43.0	25.3	23.1	21.0
102.5°	126.5	128.3	130.0	131.7	131.4	129.1	126.7	124.4	122.1	98.7	75.1
105°	174.2	174.9	175.7	176.4	177.1	177.8	178.4	179.0	179.8	180.9	182.1
107.5°	218.8	219.2	219.5	219.9	220.6	221.5	222.4	223.2	224.1	224.7	225.2
110°	249.2	249.6	250.0	250.3	251.0	251.8	252.5	253.3	254.1	254.3	254.6





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	279.0	279.7	280.4	281.1	281.7	282.0	282.4	282.8	283.1	283.1	283.0
115°	324.2	324.5	324.9	325.3	325.4	325.3	325.2	325.0	324.9	325.2	325.4
117.5°	365.2	365.7	366.2	366.7	367.1	367.4	367.7	367.9	368.2	368.2	368.1
120°	392.8	393.3	393.8	394.4	394.6	394.5	394.3	394.2	394.0	394.3	394.6
122.5°	418.4	418.7	419.0	419.3	419.6	419.8	419.9	420.1	420.3	420.4	420.6
125°	455.6	456.2	456.7	457.2	457.3	457.0	456.8	456.5	456.3	456.7	457.0
127.5°	490.2	490.4	490.5	490.6	491.0	491.6	492.1	492.7	493.3	493.2	493.2
130°	512.8	512.9	513.1	513.2	513.4	513.8	514.2	514.6	515.0	515.1	515.2
132.5°	533.6	533.9	534.1	534.3	534.7	535.2	535.6	536.1	536.6	536.7	536.9
135°	564.4	564.3	564.1	564.0	564.2	564.7	565.2	565.7	566.2	566.5	566.7
137.5°	592.1	592.2	592.2	592.3	592.6	593.1	593.7	594.3	594.8	595.1	595.4
140°	610.3	610.6	610.8	611.1	611.3	611.6	611.9	612.1	612.4	612.7	613.1
142.5°	626.6	627.1	627.5	628.0	628.3	628.4	628.6	628.7	628.9	629.2	629.4
145°	651.4	651.7	652.1	652.5	652.7	652.7	652.7	652.7	652.7	652.8	652.9
147.5°	671.4	672.1	672.8	673.5	673.8	673.7	673.6	673.4	673.3	673.4	673.5
150°	685.4	686.0	686.5	687.0	687.2	687.0	686.9	686.8	686.6	686.6	686.6
152.5°	697.3	697.7	698.1	698.5	698.6	698.4	698.2	697.9	697.7	697.9	698.1
155°	713.9	714.0	714.1	714.3	714.1	713.8	713.4	713.0	712.6	713.1	713.6
157.5°	727.8	727.7	727.7	727.6	727.3	726.9	726.5	726.0	725.6	726.3	726.9
160°	735.8	735.4	735.1	734.7	734.4	734.3	734.2	734.0	733.9	734.7	735.4
162.5°	743.1	742.6	742.1	741.6	741.3	741.1	741.0	740.9	740.8	741.5	742.4
165°	752.2	751.6	750.9	750.3	750.0	750.0	750.0	750.0	750.0	751.0	752.0
167.5°	759.6	758.9	758.3	757.6	757.2	757.2	757.1	757.0	756.9	758.1	759.2
170°	763.7	762.9	762.1	761.3	761.0	761.1	761.2	761.4	761.5	762.5	763.6
172.5°	766.4	765.7	764.9	764.2	763.8	764.0	764.1	764.2	764.3	765.4	766.4
175°	769.4	768.6	767.9	767.1	766.8	766.9	767.1	767.2	767.3	768.4	769.6
177.5°	770.8	770.1	769.4	768.7	768.4	768.6	768.8	769.0	769.2	770.1	770.9
180°	770.2	770.2	770.2	770.2	770.2	770.2	770.2	770.2	770.2	770.2	770.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	975.2	975.2	975.2	975.2	975.2	975.2	975.2
2.5°	1023.0	1024.3	1025.2	1028.3	1028.6	1031.5	1028.6
5°	1107.6	1113.2	1121.8	1130.4	1131.3	1136.7	1126.9
7.5°	1202.5	1215.3	1223.2	1237.2	1242.7	1246.2	1240.5
10°	1268.0	1279.7	1300.6	1310.8	1321.0	1322.5	1317.9
12.5°	1331.1	1349.8	1366.2	1385.6	1385.1	1399.0	1393.9
15°	1415.3	1434.5	1457.3	1478.9	1486.8	1486.8	1493.1
17.5°	1475.3	1510.7	1534.2	1551.2	1569.7	1573.0	1570.7
20°	1515.9	1554.0	1579.1	1601.1	1613.8	1617.3	1617.3
22.5°	1546.1	1578.5	1603.1	1622.9	1633.3	1637.4	1636.1
25°	1567.0	1594.9	1609.8	1615.7	1618.4	1617.6	1610.2
27.5°	1538.3	1537.1	1527.6	1509.5	1496.0	1487.7	1478.3
30°	1483.7	1463.2	1439.7	1413.7	1380.3	1354.7	1347.0
32.5°	1402.3	1356.3	1316.5	1273.2	1237.3	1211.7	1201.0
35°	1244.8	1172.0	1112.8	1060.9	1023.2	999.6	991.7
37.5°	1057.9	987.5	914.1	863.8	832.5	808.7	799.8
40°	939.1	862.4	798.4	751.2	719.0	695.9	695.5
42.5°	830.6	757.5	697.2	663.3	628.5	613.2	613.1
45°	680.1	621.6	570.5	543.8	523.0	510.4	506.9
47.5°	563.1	514.7	480.7	459.4	442.4	434.4	429.2
50°	497.5	455.0	427.9	409.4	400.0	389.8	389.0
52.5°	442.7	408.5	387.4	372.3	360.4	354.3	354.5
55°	372.1	345.0	330.0	318.6	309.2	304.5	302.6
57.5°	313.5	293.2	282.3	271.9	267.8	264.1	263.1
60°	277.0	263.3	253.1	244.8	238.9	237.7	237.3
62.5°	246.8	232.5	225.4	219.0	214.7	212.9	212.2
65°	203.5	192.9	186.6	181.6	180.0	177.2	176.8
67.5°	164.1	157.7	153.6	150.1	147.8	147.7	147.7
70°	139.9	136.3	132.8	130.9	129.7	128.9	128.9
72.5°	119.2	116.5	113.6	112.6	112.4	111.6	111.3
75°	90.8	88.1	88.4	86.4	84.8	82.9	81.7
77.5°	64.3	62.4	62.0	61.8	60.4	60.2	60.8
80°	49.9	48.0	47.6	48.0	47.6	46.4	46.4
82.5°	38.0	36.4	36.0	35.6	35.2	35.6	35.0
85°	20.4	19.7	19.7	19.7	20.4	20.0	19.7
87.5°	10.2	10.1	10.5	10.2	10.3	10.0	10.4
90°	14.9	15.8	16.3	16.6	16.8	17.1	17.3
92.5°	14.5	15.2	15.7	15.8	15.8	15.9	15.9
95°	14.9	15.8	16.2	16.4	16.5	16.6	16.7
97.5°	15.5	15.6	15.7	15.8	15.9	16.0	16.2
100°	18.8	16.7	15.7	15.8	15.9	16.0	16.2
102.5°	51.7	28.2	16.5	16.6	16.6	16.6	16.6
105°	183.2	184.3	182.6	178.0	173.4	168.7	164.2
107.5°	225.8	226.3	226.8	227.3	227.8	228.3	228.8
110°	254.8	255.1	255.4	255.8	256.1	256.5	256.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	283.0	282.9	283.1	283.6	284.1	284.6	285.0
115°	325.7	325.9	326.1	326.1	326.1	326.1	326.1
117.5°	368.1	368.0	368.0	367.9	367.9	367.8	367.8
120°	394.8	395.1	395.1	394.8	394.6	394.3	394.0
122.5°	420.7	420.9	420.8	420.6	420.3	420.1	419.8
125°	457.4	457.8	458.1	458.2	458.3	458.4	458.6
127.5°	493.1	493.0	492.9	492.8	492.7	492.6	492.5
130°	515.3	515.5	515.5	515.5	515.5	515.5	515.5
132.5°	537.0	537.1	537.1	537.0	536.9	536.8	536.7
135°	567.0	567.2	567.5	567.7	568.0	568.4	568.6
137.5°	595.7	595.9	596.0	596.0	595.9	595.8	595.7
140°	613.5	613.9	614.1	614.3	614.4	614.5	614.6
142.5°	629.8	630.1	630.3	630.3	630.3	630.3	630.4
145°	653.1	653.2	653.4	653.6	653.9	654.2	654.4
147.5°	673.6	673.7	673.8	674.0	674.1	674.2	674.3
150°	686.6	686.6	686.7	686.8	687.0	687.1	687.2
152.5°	698.3	698.5	698.6	698.5	698.4	698.3	698.3
155°	714.1	714.6	714.7	714.3	713.9	713.6	713.2
157.5°	727.6	728.2	728.2	727.6	726.9	726.3	725.6
160°	736.2	737.0	737.0	736.2	735.4	734.7	733.9
162.5°	743.1	743.9	743.9	743.0	742.0	741.2	740.3
165°	753.1	754.2	754.1	752.9	751.7	750.6	749.4
167.5°	760.3	761.4	761.3	760.1	758.8	757.5	756.3
170°	764.6	765.7	765.5	764.3	763.0	761.6	760.4
172.5°	767.4	768.4	768.2	766.9	765.5	764.1	762.7
175°	770.7	771.9	771.7	770.2	768.6	767.1	765.6
177.5°	771.7	772.5	772.3	771.1	769.9	768.6	767.4
180°	770.2	770.2	770.2	770.2	770.2	770.2	770.2

(END OF REPORT)