

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: P332545-840

Luminaire Tested: **SA4XXDIP-C575D590U840-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332545-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-C575D590U840-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 575 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 590 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

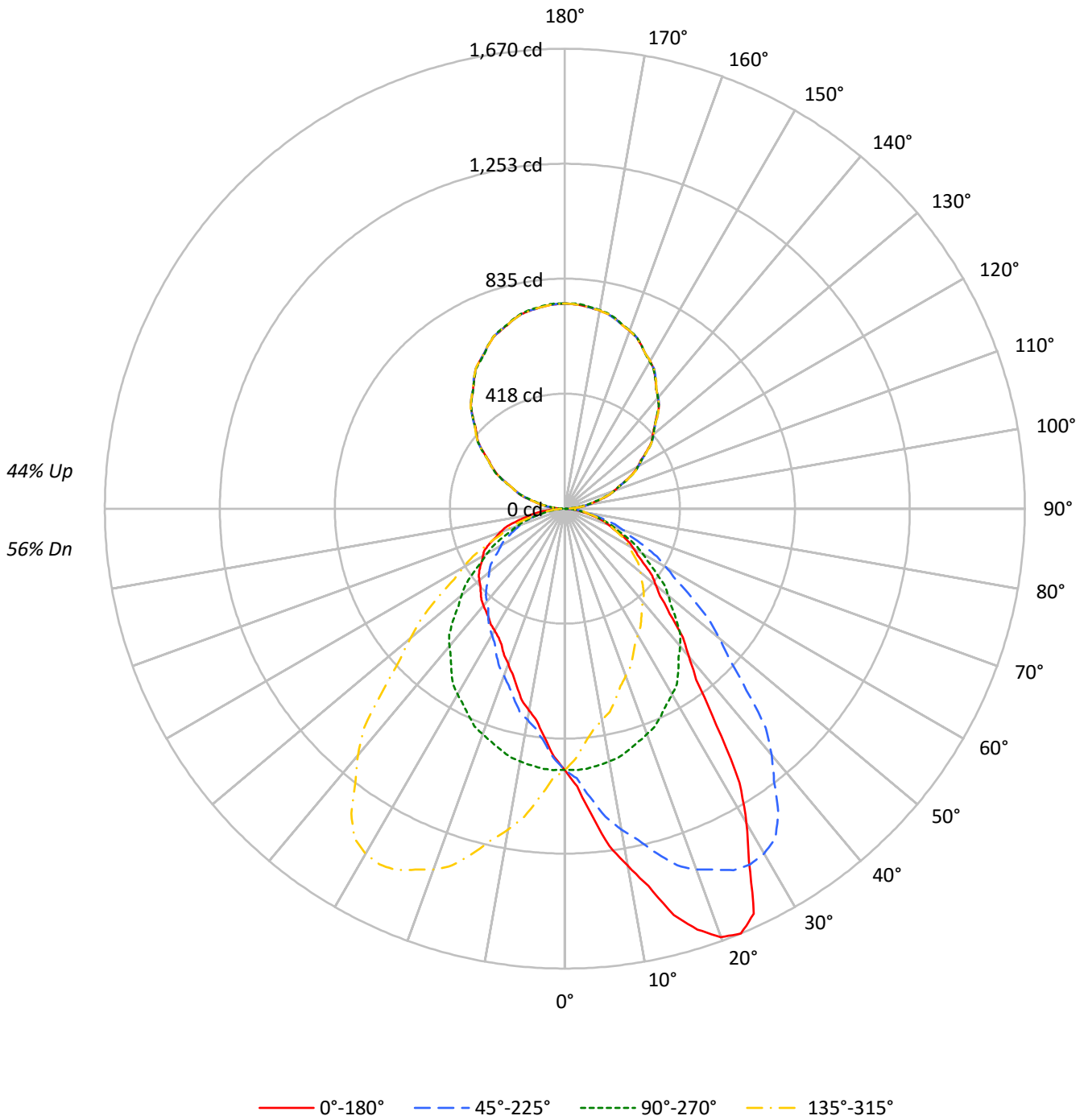
Lumens per Lamp: N/A
Luminaire Lumens: 4685.4 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 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	0
RCR																		
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	99	95	91	88	92	89	85	82	76	74	72	65	63	62	55	54	52	48
2	91	83	77	72	84	78	72	68	67	63	60	57	55	52	49	46	45	40
3	83	73	66	60	77	69	62	57	59	55	51	51	47	44	43	41	38	34
4	76	65	57	51	70	61	54	49	53	48	43	46	42	38	39	36	33	30
5	70	58	50	44	65	55	47	42	48	42	38	41	37	33	35	32	29	26
6	64	52	44	38	60	49	42	37	43	37	33	37	33	29	32	28	26	23
7	60	47	39	34	55	45	37	32	39	33	29	34	29	26	29	26	23	20
8	55	43	35	30	51	41	34	29	36	30	26	31	27	23	27	23	21	18
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	21	19	17
10	48	36	29	24	45	34	28	23	30	25	21	27	22	19	23	19	17	15

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	2.0
10°-20°	284.8	6.1
20°-30°	451.7	9.6
30°-40°	502.6	10.7
40°-50°	457.5	9.8
50°-60°	373.9	8.0
60°-70°	266.9	5.7
70°-80°	147.0	3.1
80°-90°	42.3	0.9
90°-100°	49.1	1.0
100°-110°	145.5	3.1
110°-120°	247.0	5.3
120°-130°	325.7	7.0
130°-140°	365.7	7.8
140°-150°	359.4	7.7
150°-160°	302.3	6.5
160°-170°	201.1	4.3
170°-180°	70.4	1.5
0°-30°	828.9	17.7
0°-40°	1331.5	28.4
0°-60°	2162.9	46.2
0°-90°	2619.2	55.9
90°-120°	441.6	9.4
90°-150°	1492.4	31.9
90°-180°	2066.0	44.1
0°-180°	4685.4	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°	17	2	17	2	17	10
95°	46	34	46	34	46	47
105°	141	134	141	134	141	148
115°	249	251	249	251	249	246
125°	363	366	363	366	363	324
135°	472	472	472	472	472	365
145°	574	573	574	573	574	359
155°	656	657	656	657	656	302
165°	713	715	713	715	713	201
175°	740	744	740	744	740	70
180°	745	745	745	745	745	



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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°	10.4	11.3	11.2	11.5	12.0	12.2	12.4	11.9	13.0	13.2	14.2
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°	25.5	25.4	25.2	25.1	24.9	24.6	24.2	23.7	23.2	22.8	22.1
95°	45.5	45.5	45.5	45.5	45.5	45.3	44.9	44.5	44.1	43.7	42.9
97.5°	71.3	71.3	71.3	71.3	71.3	71.1	70.6	70.2	69.7	69.3	68.2
100°	89.3	89.3	89.3	89.3	89.3	89.2	88.9	88.7	88.4	88.2	86.9
102.5°	109.6	109.5	109.4	109.3	109.2	108.9	108.6	108.2	107.9	107.4	106.4
105°	140.6	140.2	139.8	139.4	139.0	138.7	138.3	137.8	137.4	137.0	136.5
107.5°	170.8	170.8	170.8	170.8	170.9	170.7	170.3	170.0	169.6	169.3	169.2
110°	192.4	192.0	191.6	191.3	190.9	190.8	191.1	191.3	191.6	191.8	192.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	214.5	214.4	214.3	214.3	214.2	214.2	214.2	214.3	214.3	214.4	214.6
115°	248.8	248.9	249.0	249.2	249.3	249.4	249.6	249.7	249.8	249.9	250.2
117.5°	281.6	281.8	282.1	282.3	282.6	282.9	283.4	283.8	284.2	284.7	284.8
120°	306.4	306.2	305.9	305.7	305.4	305.6	306.2	306.9	307.5	308.1	308.5
122.5°	327.2	327.6	328.1	328.5	329.0	329.4	329.9	330.3	330.7	331.2	331.3
125°	362.8	363.1	363.3	363.7	363.9	364.2	364.4	364.7	364.9	365.2	365.3
127.5°	396.0	396.2	396.4	396.6	396.8	397.0	397.3	397.5	397.8	398.0	398.2
130°	417.6	418.1	418.6	419.1	419.6	420.0	420.3	420.5	420.8	421.0	421.0
132.5°	440.6	440.8	441.0	441.2	441.4	441.7	441.9	442.2	442.4	442.7	442.8
135°	472.3	472.7	473.0	473.4	473.8	474.1	474.4	474.6	474.9	475.1	475.1
137.5°	505.6	505.5	505.4	505.3	505.2	505.4	505.7	506.0	506.4	506.8	506.5
140°	525.8	526.0	526.1	526.2	526.3	526.5	526.6	526.7	526.8	527.0	527.0
142.5°	546.1	546.1	546.2	546.2	546.2	546.2	546.3	546.3	546.3	546.3	546.4
145°	573.7	574.0	574.4	574.8	575.2	575.4	575.6	575.7	575.8	575.9	575.8
147.5°	601.6	601.7	601.8	602.0	602.1	602.2	602.3	602.4	602.5	602.6	602.7
150°	618.6	618.7	618.8	618.9	619.1	619.1	619.1	619.1	619.1	619.1	619.1
152.5°	634.3	634.6	634.9	635.3	635.6	635.6	635.3	635.0	634.7	634.4	634.3
155°	656.0	656.5	657.0	657.5	658.1	658.1	657.5	657.0	656.5	656.0	656.2
157.5°	675.5	675.9	676.4	676.8	677.2	677.3	676.9	676.5	676.1	675.7	675.8
160°	686.6	687.2	687.8	688.5	689.1	689.2	688.8	688.5	688.1	687.7	687.8
162.5°	698.1	698.7	699.3	700.0	700.6	700.6	699.9	699.2	698.5	697.8	698.0
165°	713.1	713.6	714.1	714.6	715.1	715.0	714.2	713.5	712.7	712.0	712.2
167.5°	723.8	724.6	725.4	726.2	726.9	727.0	726.2	725.4	724.7	723.9	723.9
170°	729.7	730.6	731.5	732.5	733.4	733.4	732.7	731.8	731.1	730.3	730.2
172.5°	734.9	735.7	736.6	737.5	738.4	738.4	737.6	736.7	735.8	735.0	734.9
175°	740.1	741.0	741.9	742.9	743.7	743.7	742.9	741.9	741.0	740.1	740.2
177.5°	742.9	743.7	744.6	745.4	746.2	746.2	745.5	744.8	744.1	743.4	743.4
180°	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8



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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°	14.0	14.1	13.6	12.1	10.9	9.7	9.1	8.5	9.1	9.7	10.3
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°	21.4	20.7	19.9	18.8	17.2	15.6	13.9	12.3	13.9	15.6	17.2
95°	42.0	41.1	40.2	39.2	38.0	36.9	35.7	34.5	35.7	36.9	38.0
97.5°	67.2	66.0	65.0	64.0	63.1	62.2	61.3	60.4	61.3	62.2	63.1
100°	85.8	84.6	83.5	82.7	82.2	81.7	81.2	80.6	81.2	81.7	82.2
102.5°	105.3	104.3	103.3	102.6	102.4	102.2	102.0	101.8	102.0	102.2	102.4
105°	136.0	135.5	135.0	134.7	134.6	134.4	134.3	134.2	134.3	134.4	134.6
107.5°	169.1	169.0	169.0	168.8	168.6	168.4	168.3	168.1	168.3	168.4	168.6
110°	192.1	192.2	192.3	192.3	192.0	191.8	191.5	191.3	191.5	191.8	192.0



TEST NUMBER: P332545-840

CATALOG NUMBER: SA4XXDIP-C575D590U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	214.8	215.1	215.3	215.4	215.3	215.3	215.2	215.2	215.2	215.3	215.3
115°	250.4	250.7	251.0	251.2	251.2	251.2	251.2	251.2	251.2	251.2	251.2
117.5°	285.0	285.2	285.4	285.4	285.3	285.2	285.1	285.0	285.1	285.2	285.3
120°	308.9	309.3	309.7	309.6	309.1	308.6	308.1	307.6	308.1	308.6	309.1
122.5°	331.5	331.7	331.9	331.8	331.6	331.4	331.2	331.0	331.2	331.4	331.6
125°	365.5	365.6	365.7	365.8	365.8	365.8	365.8	365.8	365.8	365.8	365.8
127.5°	398.4	398.6	398.8	398.7	398.4	398.0	397.6	397.2	397.6	398.0	398.4
130°	421.0	421.0	421.0	420.8	420.5	420.1	419.7	419.3	419.7	420.1	420.5
132.5°	442.9	443.0	443.1	443.0	442.7	442.4	442.2	441.9	442.2	442.4	442.7
135°	475.1	475.1	475.1	474.8	474.0	473.2	472.5	471.7	472.5	473.2	474.0
137.5°	506.3	506.1	505.9	505.6	505.2	504.9	504.5	504.2	504.5	504.9	505.2
140°	527.0	527.0	527.0	526.8	526.6	526.3	526.1	525.8	526.1	526.3	526.6
142.5°	546.5	546.6	546.7	546.7	546.4	546.2	545.9	545.6	545.9	546.2	546.4
145°	575.7	575.6	575.4	575.1	574.6	574.1	573.6	573.1	573.6	574.1	574.6
147.5°	602.8	602.9	603.0	602.8	602.1	601.5	600.9	600.3	600.9	601.5	602.1
150°	619.1	619.1	619.1	618.9	618.4	617.9	617.4	616.8	617.4	617.9	618.4
152.5°	634.2	634.1	634.0	633.8	633.5	633.2	632.9	632.6	632.9	633.2	633.5
155°	656.3	656.4	656.5	656.6	656.6	656.6	656.6	656.6	656.6	656.6	656.6
157.5°	675.8	675.8	675.8	676.0	676.2	676.4	676.6	676.9	676.6	676.4	676.2
160°	688.0	688.1	688.2	688.3	688.5	688.6	688.7	688.8	688.7	688.6	688.5
162.5°	698.1	698.2	698.3	698.6	698.9	699.2	699.6	699.9	699.6	699.2	698.9
165°	712.5	712.7	713.0	713.3	713.7	714.0	714.4	714.8	714.4	714.0	713.7
167.5°	723.9	723.8	723.8	724.1	724.6	725.1	725.7	726.2	725.7	725.1	724.6
170°	730.0	729.9	729.8	730.0	730.7	731.3	732.1	732.7	732.1	731.3	730.7
172.5°	734.9	734.9	734.9	735.1	735.7	736.2	736.7	737.2	736.7	736.2	735.7
175°	740.4	740.5	740.6	741.0	741.6	742.4	743.0	743.6	743.0	742.4	741.6
177.5°	743.4	743.4	743.4	743.6	744.2	744.7	745.2	745.7	745.2	744.7	744.2
180°	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8



TEST NUMBER: P332545-840

CATALOG NUMBER: SA4XXDIP-C575D590U840-4F0-1E-UDD-A1

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°	11.5	11.8	13.2	14.0	15.2	17.0	17.8	21.4	22.8	24.5	27.5
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°	18.8	19.9	20.7	21.4	22.1	22.8	23.2	23.7	24.2	24.6	24.9
95°	39.2	40.2	41.1	42.0	42.9	43.7	44.1	44.5	44.9	45.3	45.5
97.5°	64.0	65.0	66.0	67.2	68.2	69.3	69.7	70.2	70.6	71.1	71.3
100°	82.7	83.5	84.6	85.8	86.9	88.2	88.4	88.7	88.9	89.2	89.3
102.5°	102.6	103.3	104.3	105.3	106.4	107.4	107.9	108.2	108.6	108.9	109.2
105°	134.7	135.0	135.5	136.0	136.5	137.0	137.4	137.8	138.3	138.7	139.0
107.5°	168.8	169.0	169.0	169.1	169.2	169.3	169.6	170.0	170.3	170.7	170.9
110°	192.3	192.3	192.2	192.1	192.0	191.8	191.6	191.3	191.1	190.8	190.9



TEST NUMBER: P332545-840

CATALOG NUMBER: SA4XXDIP-C575D590U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	215.4	215.3	215.1	214.8	214.6	214.4	214.3	214.3	214.2	214.2	214.2
115°	251.2	251.0	250.7	250.4	250.2	249.9	249.8	249.7	249.6	249.4	249.3
117.5°	285.4	285.4	285.2	285.0	284.8	284.7	284.2	283.8	283.4	282.9	282.6
120°	309.6	309.7	309.3	308.9	308.5	308.1	307.5	306.9	306.2	305.6	305.4
122.5°	331.8	331.9	331.7	331.5	331.3	331.2	330.7	330.3	329.9	329.4	329.0
125°	365.8	365.7	365.6	365.5	365.3	365.2	364.9	364.7	364.4	364.2	363.9
127.5°	398.7	398.8	398.6	398.4	398.2	398.0	397.8	397.5	397.3	397.0	396.8
130°	420.8	421.0	421.0	421.0	421.0	421.0	420.8	420.5	420.3	420.0	419.6
132.5°	443.0	443.1	443.0	442.9	442.8	442.7	442.4	442.2	441.9	441.7	441.4
135°	474.8	475.1	475.1	475.1	475.1	475.1	474.9	474.6	474.4	474.1	473.8
137.5°	505.6	505.9	506.1	506.3	506.5	506.8	506.4	506.0	505.7	505.4	505.2
140°	526.8	527.0	527.0	527.0	527.0	527.0	526.8	526.7	526.6	526.5	526.3
142.5°	546.7	546.7	546.6	546.5	546.4	546.3	546.3	546.3	546.3	546.2	546.2
145°	575.1	575.4	575.6	575.7	575.8	575.9	575.8	575.7	575.6	575.4	575.2
147.5°	602.8	603.0	602.9	602.8	602.7	602.6	602.5	602.4	602.3	602.2	602.1
150°	618.9	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1
152.5°	633.8	634.0	634.1	634.2	634.3	634.4	634.7	635.0	635.3	635.6	635.6
155°	656.6	656.5	656.4	656.3	656.2	656.0	656.5	657.0	657.5	658.1	658.1
157.5°	676.0	675.8	675.8	675.8	675.8	675.7	676.1	676.5	676.9	677.3	677.2
160°	688.3	688.2	688.1	688.0	687.8	687.7	688.1	688.5	688.8	689.2	689.1
162.5°	698.6	698.3	698.2	698.1	698.0	697.8	698.5	699.2	699.9	700.6	700.6
165°	713.3	713.0	712.7	712.5	712.2	712.0	712.7	713.5	714.2	715.0	715.1
167.5°	724.1	723.8	723.8	723.9	723.9	723.9	724.7	725.4	726.2	727.0	726.9
170°	730.0	729.8	729.9	730.0	730.2	730.3	731.1	731.8	732.7	733.4	733.4
172.5°	735.1	734.9	734.9	734.9	734.9	735.0	735.8	736.7	737.6	738.4	738.4
175°	741.0	740.6	740.5	740.4	740.2	740.1	741.0	741.9	742.9	743.7	743.7
177.5°	743.6	743.4	743.4	743.4	743.4	743.4	744.1	744.8	745.5	746.2	746.2
180°	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8



TEST NUMBER: P332545-840

CATALOG NUMBER: SA4XXDIP-C575D590U840-4F0-1E-UDD-A1

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°	28.5	28.8	29.8	30.5	29.8	28.8	28.5	27.5	24.5	22.8	21.4
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°	25.1	25.2	25.4	25.5	25.4	25.2	25.1	24.9	24.6	24.2	23.7
95°	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.3	44.9	44.5
97.5°	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.1	70.6	70.2
100°	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.2	88.9	88.7
102.5°	109.3	109.4	109.5	109.6	109.5	109.4	109.3	109.2	108.9	108.6	108.2
105°	139.4	139.8	140.2	140.6	140.2	139.8	139.4	139.0	138.7	138.3	137.8
107.5°	170.8	170.8	170.8	170.8	170.8	170.8	170.8	170.9	170.7	170.3	170.0
110°	191.3	191.6	192.0	192.4	192.0	191.6	191.3	190.9	190.8	191.1	191.3



TEST NUMBER: P332545-840

CATALOG NUMBER: SA4XXDIP-C575D590U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	214.3	214.3	214.4	214.5	214.4	214.3	214.3	214.2	214.2	214.2	214.3
115°	249.2	249.0	248.9	248.8	248.9	249.0	249.2	249.3	249.4	249.6	249.7
117.5°	282.3	282.1	281.8	281.6	281.8	282.1	282.3	282.6	282.9	283.4	283.8
120°	305.7	305.9	306.2	306.4	306.2	305.9	305.7	305.4	305.6	306.2	306.9
122.5°	328.5	328.1	327.6	327.2	327.6	328.1	328.5	329.0	329.4	329.9	330.3
125°	363.7	363.3	363.1	362.8	363.1	363.3	363.7	363.9	364.2	364.4	364.7
127.5°	396.6	396.4	396.2	396.0	396.2	396.4	396.6	396.8	397.0	397.3	397.5
130°	419.1	418.6	418.1	417.6	418.1	418.6	419.1	419.6	420.0	420.3	420.5
132.5°	441.2	441.0	440.8	440.6	440.8	441.0	441.2	441.4	441.7	441.9	442.2
135°	473.4	473.0	472.7	472.3	472.7	473.0	473.4	473.8	474.1	474.4	474.6
137.5°	505.3	505.4	505.5	505.6	505.5	505.4	505.3	505.2	505.4	505.7	506.0
140°	526.2	526.1	526.0	525.8	526.0	526.1	526.2	526.3	526.5	526.6	526.7
142.5°	546.2	546.2	546.1	546.1	546.1	546.2	546.2	546.2	546.2	546.3	546.3
145°	574.8	574.4	574.0	573.7	574.0	574.4	574.8	575.2	575.4	575.6	575.7
147.5°	602.0	601.8	601.7	601.6	601.7	601.8	602.0	602.1	602.2	602.3	602.4
150°	618.9	618.8	618.7	618.6	618.7	618.8	618.9	619.1	619.1	619.1	619.1
152.5°	635.3	634.9	634.6	634.3	634.6	634.9	635.3	635.6	635.6	635.3	635.0
155°	657.5	657.0	656.5	656.0	656.5	657.0	657.5	658.1	658.1	657.5	657.0
157.5°	676.8	676.4	675.9	675.5	675.9	676.4	676.8	677.2	677.3	676.9	676.5
160°	688.5	687.8	687.2	686.6	687.2	687.8	688.5	689.1	689.2	688.8	688.5
162.5°	700.0	699.3	698.7	698.1	698.7	699.3	700.0	700.6	700.6	699.9	699.2
165°	714.6	714.1	713.6	713.1	713.6	714.1	714.6	715.1	715.0	714.2	713.5
167.5°	726.2	725.4	724.6	723.8	724.6	725.4	726.2	726.9	727.0	726.2	725.4
170°	732.5	731.5	730.6	729.7	730.6	731.5	732.5	733.4	733.4	732.7	731.8
172.5°	737.5	736.6	735.7	734.9	735.7	736.6	737.5	738.4	738.4	737.6	736.7
175°	742.9	741.9	741.0	740.1	741.0	741.9	742.9	743.7	743.7	742.9	741.9
177.5°	745.4	744.6	743.7	742.9	743.7	744.6	745.4	746.2	746.2	745.5	744.8
180°	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8



TEST NUMBER: P332545-840

CATALOG NUMBER: SA4XXDIP-C575D590U840-4F0-1E-UDD-A1

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°	17.8	17.0	15.2	14.0	13.2	11.8	11.5	10.3	9.7	9.1	8.5
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°	23.2	22.8	22.1	21.4	20.7	19.9	18.8	17.2	15.6	13.9	12.3
95°	44.1	43.7	42.9	42.0	41.1	40.2	39.2	38.0	36.9	35.7	34.5
97.5°	69.7	69.3	68.2	67.2	66.0	65.0	64.0	63.1	62.2	61.3	60.4
100°	88.4	88.2	86.9	85.8	84.6	83.5	82.7	82.2	81.7	81.2	80.6
102.5°	107.9	107.4	106.4	105.3	104.3	103.3	102.6	102.4	102.2	102.0	101.8
105°	137.4	137.0	136.5	136.0	135.5	135.0	134.7	134.6	134.4	134.3	134.2
107.5°	169.6	169.3	169.2	169.1	169.0	169.0	168.8	168.6	168.4	168.3	168.1
110°	191.6	191.8	192.0	192.1	192.2	192.3	192.3	192.0	191.8	191.5	191.3



TEST NUMBER: P332545-840

CATALOG NUMBER: SA4XXDIP-C575D590U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	214.3	214.4	214.6	214.8	215.1	215.3	215.4	215.3	215.3	215.2	215.2
115°	249.8	249.9	250.2	250.4	250.7	251.0	251.2	251.2	251.2	251.2	251.2
117.5°	284.2	284.7	284.8	285.0	285.2	285.4	285.4	285.3	285.2	285.1	285.0
120°	307.5	308.1	308.5	308.9	309.3	309.7	309.6	309.1	308.6	308.1	307.6
122.5°	330.7	331.2	331.3	331.5	331.7	331.9	331.8	331.6	331.4	331.2	331.0
125°	364.9	365.2	365.3	365.5	365.6	365.7	365.8	365.8	365.8	365.8	365.8
127.5°	397.8	398.0	398.2	398.4	398.6	398.8	398.7	398.4	398.0	397.6	397.2
130°	420.8	421.0	421.0	421.0	421.0	421.0	420.8	420.5	420.1	419.7	419.3
132.5°	442.4	442.7	442.8	442.9	443.0	443.1	443.0	442.7	442.4	442.2	441.9
135°	474.9	475.1	475.1	475.1	475.1	475.1	474.8	474.0	473.2	472.5	471.7
137.5°	506.4	506.8	506.5	506.3	506.1	505.9	505.6	505.2	504.9	504.5	504.2
140°	526.8	527.0	527.0	527.0	527.0	527.0	526.8	526.6	526.3	526.1	525.8
142.5°	546.3	546.3	546.4	546.5	546.6	546.7	546.7	546.4	546.2	545.9	545.6
145°	575.8	575.9	575.8	575.7	575.6	575.4	575.1	574.6	574.1	573.6	573.1
147.5°	602.5	602.6	602.7	602.8	602.9	603.0	602.8	602.1	601.5	600.9	600.3
150°	619.1	619.1	619.1	619.1	619.1	619.1	618.9	618.4	617.9	617.4	616.8
152.5°	634.7	634.4	634.3	634.2	634.1	634.0	633.8	633.5	633.2	632.9	632.6
155°	656.5	656.0	656.2	656.3	656.4	656.5	656.6	656.6	656.6	656.6	656.6
157.5°	676.1	675.7	675.8	675.8	675.8	675.8	676.0	676.2	676.4	676.6	676.9
160°	688.1	687.7	687.8	688.0	688.1	688.2	688.3	688.5	688.6	688.7	688.8
162.5°	698.5	697.8	698.0	698.1	698.2	698.3	698.6	698.9	699.2	699.6	699.9
165°	712.7	712.0	712.2	712.5	712.7	713.0	713.3	713.7	714.0	714.4	714.8
167.5°	724.7	723.9	723.9	723.9	723.8	723.8	724.1	724.6	725.1	725.7	726.2
170°	731.1	730.3	730.2	730.0	729.9	729.8	730.0	730.7	731.3	732.1	732.7
172.5°	735.8	735.0	734.9	734.9	734.9	734.9	735.1	735.7	736.2	736.7	737.2
175°	741.0	740.1	740.2	740.4	740.5	740.6	741.0	741.6	742.4	743.0	743.6
177.5°	744.1	743.4	743.4	743.4	743.4	743.4	743.6	744.2	744.7	745.2	745.7
180°	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8



TEST NUMBER: P332545-840

CATALOG NUMBER: SA4XXDIP-C575D590U840-4F0-1E-UDD-A1

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	9.7	10.9	12.1	13.6	14.1	14.0	14.2	13.2	13.0	11.9
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°	13.9	15.6	17.2	18.8	19.9	20.7	21.4	22.1	22.8	23.2	23.7
95°	35.7	36.9	38.0	39.2	40.2	41.1	42.0	42.9	43.7	44.1	44.5
97.5°	61.3	62.2	63.1	64.0	65.0	66.0	67.2	68.2	69.3	69.7	70.2
100°	81.2	81.7	82.2	82.7	83.5	84.6	85.8	86.9	88.2	88.4	88.7
102.5°	102.0	102.2	102.4	102.6	103.3	104.3	105.3	106.4	107.4	107.9	108.2
105°	134.3	134.4	134.6	134.7	135.0	135.5	136.0	136.5	137.0	137.4	137.8
107.5°	168.3	168.4	168.6	168.8	169.0	169.0	169.1	169.2	169.3	169.6	170.0
110°	191.5	191.8	192.0	192.3	192.3	192.2	192.1	192.0	191.8	191.6	191.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	215.2	215.3	215.3	215.4	215.3	215.1	214.8	214.6	214.4	214.3	214.3
115°	251.2	251.2	251.2	251.2	251.0	250.7	250.4	250.2	249.9	249.8	249.7
117.5°	285.1	285.2	285.3	285.4	285.4	285.2	285.0	284.8	284.7	284.2	283.8
120°	308.1	308.6	309.1	309.6	309.7	309.3	308.9	308.5	308.1	307.5	306.9
122.5°	331.2	331.4	331.6	331.8	331.9	331.7	331.5	331.3	331.2	330.7	330.3
125°	365.8	365.8	365.8	365.8	365.7	365.6	365.5	365.3	365.2	364.9	364.7
127.5°	397.6	398.0	398.4	398.7	398.8	398.6	398.4	398.2	398.0	397.8	397.5
130°	419.7	420.1	420.5	420.8	421.0	421.0	421.0	421.0	421.0	420.8	420.5
132.5°	442.2	442.4	442.7	443.0	443.1	443.0	442.9	442.8	442.7	442.4	442.2
135°	472.5	473.2	474.0	474.8	475.1	475.1	475.1	475.1	475.1	474.9	474.6
137.5°	504.5	504.9	505.2	505.6	505.9	506.1	506.3	506.5	506.8	506.4	506.0
140°	526.1	526.3	526.6	526.8	527.0	527.0	527.0	527.0	527.0	526.8	526.7
142.5°	545.9	546.2	546.4	546.7	546.7	546.6	546.5	546.4	546.3	546.3	546.3
145°	573.6	574.1	574.6	575.1	575.4	575.6	575.7	575.8	575.9	575.8	575.7
147.5°	600.9	601.5	602.1	602.8	603.0	602.9	602.8	602.7	602.6	602.5	602.4
150°	617.4	617.9	618.4	618.9	619.1	619.1	619.1	619.1	619.1	619.1	619.1
152.5°	632.9	633.2	633.5	633.8	634.0	634.1	634.2	634.3	634.4	634.7	635.0
155°	656.6	656.6	656.6	656.6	656.5	656.4	656.3	656.2	656.0	656.5	657.0
157.5°	676.6	676.4	676.2	676.0	675.8	675.8	675.8	675.8	675.7	676.1	676.5
160°	688.7	688.6	688.5	688.3	688.2	688.1	688.0	687.8	687.7	688.1	688.5
162.5°	699.6	699.2	698.9	698.6	698.3	698.2	698.1	698.0	697.8	698.5	699.2
165°	714.4	714.0	713.7	713.3	713.0	712.7	712.5	712.2	712.0	712.7	713.5
167.5°	725.7	725.1	724.6	724.1	723.8	723.8	723.9	723.9	723.9	724.7	725.4
170°	732.1	731.3	730.7	730.0	729.8	729.9	730.0	730.2	730.3	731.1	731.8
172.5°	736.7	736.2	735.7	735.1	734.9	734.9	734.9	734.9	735.0	735.8	736.7
175°	743.0	742.4	741.6	741.0	740.6	740.5	740.4	740.2	740.1	741.0	741.9
177.5°	745.2	744.7	744.2	743.6	743.4	743.4	743.4	743.4	743.4	744.1	744.8
180°	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8



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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°	12.4	12.2	12.0	11.5	11.2	11.3	10.4
90°	14.9	15.8	16.3	16.6	16.8	17.1	17.3
92.5°	24.2	24.6	24.9	25.1	25.2	25.4	25.5
95°	44.9	45.3	45.5	45.5	45.5	45.5	45.5
97.5°	70.6	71.1	71.3	71.3	71.3	71.3	71.3
100°	88.9	89.2	89.3	89.3	89.3	89.3	89.3
102.5°	108.6	108.9	109.2	109.3	109.4	109.5	109.6
105°	138.3	138.7	139.0	139.4	139.8	140.2	140.6
107.5°	170.3	170.7	170.9	170.8	170.8	170.8	170.8
110°	191.1	190.8	190.9	191.3	191.6	192.0	192.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	214.2	214.2	214.2	214.3	214.3	214.4	214.5
115°	249.6	249.4	249.3	249.2	249.0	248.9	248.8
117.5°	283.4	282.9	282.6	282.3	282.1	281.8	281.6
120°	306.2	305.6	305.4	305.7	305.9	306.2	306.4
122.5°	329.9	329.4	329.0	328.5	328.1	327.6	327.2
125°	364.4	364.2	363.9	363.7	363.3	363.1	362.8
127.5°	397.3	397.0	396.8	396.6	396.4	396.2	396.0
130°	420.3	420.0	419.6	419.1	418.6	418.1	417.6
132.5°	441.9	441.7	441.4	441.2	441.0	440.8	440.6
135°	474.4	474.1	473.8	473.4	473.0	472.7	472.3
137.5°	505.7	505.4	505.2	505.3	505.4	505.5	505.6
140°	526.6	526.5	526.3	526.2	526.1	526.0	525.8
142.5°	546.3	546.2	546.2	546.2	546.2	546.1	546.1
145°	575.6	575.4	575.2	574.8	574.4	574.0	573.7
147.5°	602.3	602.2	602.1	602.0	601.8	601.7	601.6
150°	619.1	619.1	619.1	618.9	618.8	618.7	618.6
152.5°	635.3	635.6	635.6	635.3	634.9	634.6	634.3
155°	657.5	658.1	658.1	657.5	657.0	656.5	656.0
157.5°	676.9	677.3	677.2	676.8	676.4	675.9	675.5
160°	688.8	689.2	689.1	688.5	687.8	687.2	686.6
162.5°	699.9	700.6	700.6	700.0	699.3	698.7	698.1
165°	714.2	715.0	715.1	714.6	714.1	713.6	713.1
167.5°	726.2	727.0	726.9	726.2	725.4	724.6	723.8
170°	732.7	733.4	733.4	732.5	731.5	730.6	729.7
172.5°	737.6	738.4	738.4	737.5	736.6	735.7	734.9
175°	742.9	743.7	743.7	742.9	741.9	741.0	740.1
177.5°	745.5	746.2	746.2	745.4	744.6	743.7	742.9
180°	744.8	744.8	744.8	744.8	744.8	744.8	744.8

(END OF REPORT)