

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: P332546-830

Luminaire Tested: **SA4XXDIP-C575D590U830-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332546-830  
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-C575D590U830-4F0-1E-UDD-A4  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 575 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 590 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

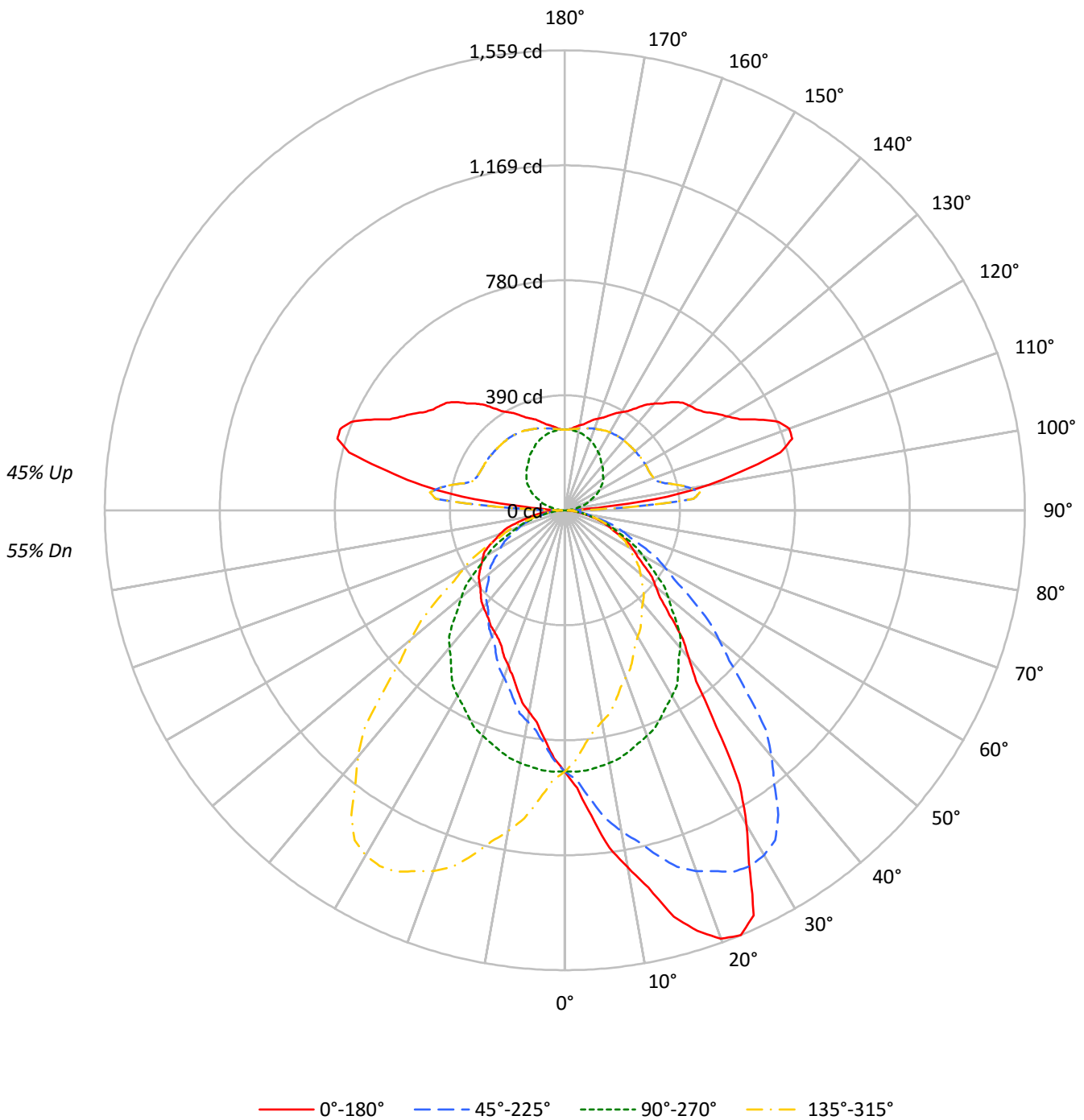
Lumens per Lamp: N/A  
Luminaire Lumens: 4434.4 lumens  
Efficiency: N/A  
Efficacy: 135.2 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: General Diffuse

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	50	30	10	0	
RCR																						
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55				
1	99	95	91	88	92	88	85	82	76	74	71	65	63	61	54	53	52	47				
2	91	83	77	72	84	77	72	68	67	63	59	57	54	52	48	46	44	40				
3	83	73	66	60	77	68	62	57	59	54	50	51	47	44	43	40	38	34				
4	76	65	57	51	70	61	54	48	53	47	43	45	41	38	38	35	33	29				
5	70	58	50	44	65	54	47	42	47	42	37	41	36	33	35	31	29	26				
6	64	52	44	38	60	49	42	36	43	37	33	37	32	29	32	28	25	23				
7	60	47	39	34	55	44	37	32	39	33	29	34	29	26	29	25	23	20				
8	55	43	35	30	51	40	33	29	35	30	26	31	26	23	27	23	20	18				
9	52	39	32	27	48	37	30	26	33	27	23	28	24	21	24	21	18	16				
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	23	19	17	15				

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

	0°	90°	180°	270°
0°	7146	7146	7146	7146
5°	8417	7165	6324	7165
10°	10077	7133	5694	7133
15°	11922	7061	5229	7061
20°	13277	6988	4814	6988
25°	13491	6879	4528	6879
30°	11479	6776	4437	6776
35°	8825	6606	4438	6606
40°	6880	6407	4521	6407
45°	5736	6109	4598	6109
50°	5048	5743	4752	5743
55°	4625	5306	4944	5306
60°	4334	4913	5176	4913
65°	4034	4476	5366	4476
70°	3687	4043	5488	4043
75°	3297	3556	5421	3556
80°	2762	2915	5249	2915
85°	2038	2103	5030	2103



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.2	1.9
10°-20°	265.8	6.0
20°-30°	421.5	9.5
30°-40°	469.1	10.6
40°-50°	427.0	9.6
50°-60°	349.0	7.9
60°-70°	249.1	5.6
70°-80°	137.2	3.1
80°-90°	39.0	0.9
90°-100°	197.7	4.5
100°-110°	411.4	9.3
110°-120°	368.5	8.3
120°-130°	310.0	7.0
130°-140°	258.4	5.8
140°-150°	197.4	4.5
150°-160°	138.8	3.1
160°-170°	81.6	1.8
170°-180°	26.6	0.6
0°-30°	773.6	17.4
0°-40°	1242.8	28.0
0°-60°	2018.8	45.5
0°-90°	2444.0	55.1
90°-120°	977.6	22.0
90°-150°	1743.4	39.3
90°-180°	1990.0	44.9
0°-180°	4434.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	885	885	885	885	885	
5°	1039	884	780	884	1039	106
15°	1426	845	626	845	1426	403
25°	1515	772	508	772	1515	668
35°	896	670	450	670	896	568
45°	502	535	403	535	502	396
55°	329	377	351	377	329	297
65°	211	234	281	234	211	209
75°	106	114	174	114	106	112
85°	22	23	54	23	22	27
90°	11	1	11	1	11	10
95°	131	18	131	18	131	204
105°	756	63	756	63	756	748
115°	726	111	726	111	726	721
125°	580	154	580	154	580	527
135°	518	183	518	183	518	400
145°	423	211	423	211	423	268
155°	354	240	354	240	354	165
165°	309	262	309	262	309	89
175°	278	273	278	273	278	27
180°	274	274	274	274	274	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2
2.5°	942.2	941.9	939.0	938.4	936.3	933.7	933.1	928.4	919.0	914.6	913.4
5°	1038.6	1045.9	1036.3	1034.5	1033.4	1021.3	1015.1	1007.8	990.9	981.0	973.3
7.5°	1153.6	1154.4	1150.3	1146.9	1137.6	1127.0	1111.2	1094.3	1074.2	1053.3	1037.6
10°	1229.3	1232.2	1227.5	1226.7	1208.0	1196.3	1172.8	1153.0	1130.2	1104.9	1081.9
12.5°	1309.1	1305.0	1302.5	1286.9	1283.4	1262.0	1234.7	1214.3	1179.2	1150.1	1119.4
15°	1426.5	1418.5	1413.3	1391.8	1381.1	1351.4	1322.4	1300.0	1254.2	1210.6	1177.5
17.5°	1495.5	1503.5	1491.7	1482.8	1455.3	1434.5	1404.9	1357.9	1322.0	1267.8	1226.2
20°	1545.4	1546.1	1539.5	1530.3	1508.7	1482.3	1450.0	1398.7	1355.8	1301.8	1244.6
22.5°	1558.9	1559.1	1556.2	1547.7	1531.3	1509.9	1477.3	1434.5	1382.5	1323.9	1266.7
25°	1514.6	1513.2	1516.5	1526.0	1519.8	1513.2	1494.4	1462.5	1414.1	1352.1	1290.5
27.5°	1350.0	1360.1	1378.8	1402.2	1424.8	1442.0	1446.9	1440.4	1410.3	1359.3	1294.9
30°	1231.4	1244.0	1257.8	1281.4	1326.8	1352.8	1381.5	1403.1	1391.0	1350.3	1290.2
32.5°	1101.2	1104.3	1124.9	1151.7	1193.4	1243.4	1288.7	1332.7	1347.3	1326.0	1275.7
35°	895.5	900.7	923.0	949.4	1000.4	1061.7	1129.9	1190.7	1241.0	1261.2	1235.5
37.5°	730.8	745.6	761.3	789.7	834.6	889.8	960.6	1039.3	1114.3	1164.4	1172.9
40°	652.8	661.9	673.4	694.9	733.1	787.4	848.2	938.5	1018.0	1090.0	1113.4
42.5°	591.2	596.5	603.5	623.0	652.1	706.1	761.7	841.0	921.0	1006.9	1046.2
45°	502.4	507.9	519.6	531.0	553.0	590.4	642.2	707.4	787.7	870.6	943.2
47.5°	438.3	441.9	448.8	461.0	479.7	504.4	546.4	600.9	675.3	755.8	833.2
50°	401.9	404.8	410.4	421.4	435.6	457.7	492.1	543.1	601.4	682.5	758.4
52.5°	373.2	374.4	378.4	385.9	397.3	415.8	444.0	486.2	540.5	612.7	688.2
55°	328.6	330.1	333.8	339.2	349.1	360.9	382.5	414.1	461.4	524.1	589.7
57.5°	291.9	292.9	296.1	298.1	306.3	315.8	332.4	355.0	390.9	444.0	502.7
60°	268.4	267.7	271.4	273.2	278.7	286.8	299.6	321.2	352.4	395.3	449.2
62.5°	245.5	244.5	247.6	250.1	253.2	260.0	270.6	287.5	312.8	351.7	398.2
65°	211.2	209.8	211.6	214.5	217.4	221.1	228.8	243.8	264.0	291.9	327.4
67.5°	176.7	178.3	178.6	180.0	181.7	186.7	192.0	202.6	216.9	239.2	269.3
70°	156.2	156.6	158.1	158.1	159.2	163.5	168.0	174.2	188.1	208.7	233.3
72.5°	135.7	137.2	136.7	137.8	138.6	141.6	144.8	150.7	162.6	177.9	198.6
75°	105.7	106.7	106.7	107.1	108.2	109.2	111.9	116.2	124.7	136.0	150.3
77.5°	77.0	77.2	77.7	79.0	79.0	80.8	82.7	86.1	90.4	98.1	106.9
80°	59.4	60.1	59.8	60.5	60.5	62.0	62.7	67.1	68.9	74.1	81.1
82.5°	43.5	44.3	44.2	45.2	45.8	46.1	47.1	48.9	50.7	55.3	58.2
85°	22.0	22.7	22.0	22.7	23.8	24.2	25.3	25.6	27.1	28.3	30.8
87.5°	8.7	9.6	9.7	9.9	10.4	10.7	10.8	10.5	11.5	11.9	12.9
90°	11.3	11.3	11.8	11.3	10.7	10.7	10.2	9.7	9.1	9.7	8.6
92.5°	41.4	41.4	43.3	46.1	52.5	63.2	79.5	105.6	142.0	170.5	149.3
95°	131.2	138.2	147.9	164.6	190.9	243.0	315.1	398.4	450.5	438.2	330.6
97.5°	350.6	361.8	378.0	410.4	448.9	505.1	557.7	588.6	566.1	461.6	309.5
100°	493.0	497.4	513.5	546.3	593.0	632.8	659.2	648.5	570.0	432.3	280.7
102.5°	616.9	620.4	637.3	661.1	689.8	706.4	698.8	645.5	537.6	395.8	261.3
105°	756.5	759.7	767.2	771.6	770.5	748.5	695.2	602.2	479.1	352.7	244.7
107.5°	808.3	806.9	801.5	789.3	762.7	714.8	639.8	540.8	431.8	328.7	241.7
110°	809.2	804.4	794.7	772.1	734.0	674.8	596.8	503.8	408.1	320.5	242.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	783.8	776.0	762.4	735.1	691.7	632.6	558.9	476.7	394.7	316.6	245.1
115°	726.4	722.1	704.9	672.6	630.2	578.5	515.7	449.5	382.3	314.5	250.1
117.5°	668.3	664.9	647.4	620.4	584.1	540.4	490.9	436.1	376.7	314.0	255.2
120°	635.6	629.6	615.7	592.0	561.3	523.1	480.1	430.2	373.7	314.0	259.2
122.5°	609.7	603.8	592.0	571.7	545.8	512.4	473.3	425.0	370.2	313.6	263.1
125°	579.6	576.4	566.2	550.5	529.0	499.5	462.4	416.1	364.6	312.9	268.8
127.5°	561.9	558.7	550.2	536.3	514.6	486.6	449.6	405.4	356.9	311.7	273.4
130°	551.7	548.5	539.8	526.4	504.4	475.8	439.3	396.8	352.1	311.3	276.9
132.5°	540.1	536.8	528.7	513.5	491.8	463.4	427.6	387.8	347.9	310.9	279.9
135°	518.3	515.1	506.5	491.4	470.0	443.0	410.3	375.3	341.4	310.2	284.5
137.5°	491.4	487.6	480.5	465.6	445.5	421.2	393.6	364.0	335.8	310.1	287.1
140°	472.1	467.8	460.2	448.5	429.6	407.0	382.9	357.5	332.8	309.7	289.3
142.5°	451.4	448.5	441.8	430.7	414.2	394.5	373.8	351.6	330.3	309.7	291.0
145°	423.1	420.5	415.1	406.0	392.5	377.5	361.3	343.0	325.8	308.6	292.0
147.5°	398.1	397.1	393.0	385.2	375.3	363.4	350.5	336.0	321.9	306.7	292.5
150°	383.9	383.3	380.1	373.2	364.6	354.9	344.1	331.8	318.9	305.4	292.5
152.5°	371.0	370.4	368.5	362.8	355.5	347.5	337.6	327.0	315.4	303.2	291.6
155°	354.3	354.3	352.7	348.5	343.0	336.6	328.5	319.9	310.2	300.0	290.3
157.5°	339.7	339.7	338.7	335.5	331.4	326.2	319.5	312.3	305.0	296.7	289.0
160°	330.6	330.6	330.2	326.9	323.7	319.3	313.5	307.6	301.1	294.1	287.7
162.5°	322.1	322.5	322.0	318.8	316.4	312.5	307.8	302.8	297.7	291.5	286.3
165°	309.2	309.7	310.2	308.1	305.9	303.2	299.4	296.2	292.0	287.7	283.9
167.5°	299.0	299.4	299.4	298.1	297.0	295.4	292.4	289.9	286.8	283.8	281.3
170°	292.5	292.5	293.0	292.5	291.4	289.8	287.7	286.1	283.3	281.2	279.6
172.5°	286.1	286.9	287.5	286.9	286.3	285.1	283.8	282.6	280.3	278.6	277.9
175°	278.5	279.6	280.7	279.6	279.6	279.6	278.5	278.0	276.9	275.8	275.8
177.5°	274.1	274.9	275.8	275.4	275.8	275.4	275.4	274.9	274.6	274.1	274.1
180°	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2
2.5°	913.7	909.6	906.7	904.4	897.9	894.1	891.2	887.0	882.3	877.3	871.2
5°	965.6	953.1	944.0	930.0	916.8	905.8	894.5	884.2	871.7	858.2	848.2
7.5°	1020.1	1001.5	977.8	957.2	934.0	913.8	895.8	877.3	858.1	839.4	822.4
10°	1054.7	1030.9	1004.5	973.3	944.0	917.9	893.7	870.2	847.5	824.7	805.3
12.5°	1091.9	1062.2	1023.2	986.7	953.9	919.1	889.9	861.1	833.7	809.8	787.1
15°	1142.0	1099.1	1054.0	1005.2	962.0	921.2	881.3	844.9	814.2	782.6	760.6
17.5°	1172.7	1119.6	1068.1	1017.1	964.7	913.3	870.2	828.4	789.8	758.5	730.8
20°	1193.0	1140.2	1076.0	1025.0	962.6	909.8	860.0	813.4	773.1	739.7	711.1
22.5°	1210.6	1149.5	1085.3	1018.2	956.2	900.1	845.6	798.7	757.5	722.4	694.9
25°	1220.1	1150.1	1080.3	1013.6	943.2	876.8	827.4	772.3	728.3	691.3	661.9
27.5°	1221.2	1146.2	1067.4	993.3	920.6	858.8	796.3	747.1	701.4	662.2	634.0
30°	1217.9	1139.8	1055.1	974.8	901.8	834.6	780.4	726.9	680.2	641.4	612.1
32.5°	1207.6	1126.2	1039.2	954.2	878.6	812.9	757.0	706.1	660.6	622.4	591.5
35°	1177.9	1097.6	1004.8	916.4	839.1	772.7	722.1	670.3	624.9	588.6	558.9
37.5°	1131.5	1058.9	964.6	873.1	797.1	730.5	680.2	633.6	592.6	555.6	525.2
40°	1091.0	1027.2	932.6	843.5	761.3	697.9	650.9	608.0	567.3	532.4	503.5
42.5°	1044.3	988.7	901.4	807.1	727.8	664.1	618.4	579.9	541.5	509.3	480.3
45°	961.2	924.5	842.4	755.1	672.6	612.5	568.8	535.1	502.8	471.3	447.0
47.5°	865.5	847.3	778.2	695.3	617.0	557.7	519.9	488.7	460.4	433.7	412.4
50°	801.3	792.5	732.7	652.8	578.0	522.3	484.1	457.3	433.1	409.6	389.5
52.5°	737.9	737.6	683.7	610.5	541.3	487.6	449.8	424.7	403.8	384.7	366.6
55°	641.0	651.3	609.2	543.8	481.9	433.5	399.4	377.0	362.3	346.6	333.0
57.5°	552.0	569.1	534.3	476.8	425.1	380.5	350.8	334.0	318.4	308.9	299.0
60°	494.0	510.1	483.0	434.6	385.8	347.6	319.4	304.3	290.8	284.2	277.2
62.5°	442.3	456.8	436.6	391.7	349.4	312.7	288.9	274.5	265.3	258.1	253.4
65°	368.5	380.7	363.4	330.8	294.5	265.1	245.7	234.3	225.6	222.6	217.4
67.5°	297.9	309.0	299.6	271.9	242.8	220.6	205.4	194.4	189.3	186.6	183.0
70°	256.0	267.0	257.0	232.9	210.5	191.8	177.5	171.3	165.8	164.7	159.6
72.5°	220.5	228.0	218.0	199.2	180.0	164.2	153.2	146.7	143.7	141.8	139.0
75°	165.4	172.0	165.4	150.7	137.1	126.1	116.6	114.0	110.7	109.6	107.8
77.5°	117.1	122.8	117.7	108.6	98.4	89.9	84.8	81.5	80.8	78.9	79.7
80°	89.4	93.1	88.4	82.2	74.1	68.2	64.6	62.7	60.5	59.8	61.3
82.5°	64.3	65.9	63.4	59.3	53.3	49.4	46.9	44.8	44.4	44.5	44.5
85°	33.4	33.0	32.6	28.9	27.1	24.6	23.1	22.7	22.3	23.1	23.8
87.5°	12.6	12.9	12.0	10.8	9.8	8.9	8.2	7.7	8.2	8.9	9.2
90°	7.5	7.5	4.3	4.3	3.8	3.2	1.6	0.6	1.6	3.2	3.8
92.5°	108.6	66.9	39.6	28.4	20.5	13.9	9.0	6.1	9.0	13.9	20.5
95°	202.2	114.0	67.2	44.6	31.8	24.7	19.3	17.7	19.3	24.7	31.8
97.5°	181.7	109.0	73.0	54.0	42.9	36.5	31.9	31.9	31.9	36.5	42.9
100°	171.0	110.2	78.5	61.3	51.1	44.6	40.9	40.9	40.9	44.6	51.1
102.5°	168.0	114.5	85.8	69.5	59.7	53.6	50.3	49.5	50.3	53.6	59.7
105°	169.4	124.7	99.0	83.3	73.7	67.2	64.6	62.9	64.6	67.2	73.7
107.5°	177.3	136.7	113.0	97.6	88.4	81.5	78.8	77.8	78.8	81.5	88.4
110°	183.3	145.7	122.1	107.5	97.8	91.4	88.7	87.7	88.7	91.4	97.8





TEST NUMBER: P332546-830

CATALOG NUMBER: SA4XXDIP-C575D590U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	189.8	154.3	131.5	117.0	107.4	101.3	98.2	97.1	98.2	101.3	107.4
115°	200.0	167.8	146.3	131.8	121.5	116.1	112.4	110.7	112.4	116.1	121.5
117.5°	210.5	180.8	160.3	145.2	135.7	129.8	126.5	125.0	126.5	129.8	135.7
120°	217.7	189.8	169.4	154.3	145.2	139.2	135.5	134.4	135.5	139.2	145.2
122.5°	224.6	198.4	178.0	163.3	153.4	147.9	144.1	143.0	144.1	147.9	153.4
125°	235.0	210.2	190.9	175.8	165.6	159.7	156.5	154.3	156.5	159.7	165.6
127.5°	243.9	221.2	202.5	187.3	176.6	169.9	166.1	164.3	166.1	169.9	176.6
130°	249.5	228.5	210.2	194.6	184.5	176.3	172.0	169.9	172.0	176.3	184.5
132.5°	255.1	234.5	216.2	201.5	190.5	182.9	177.2	175.5	177.2	182.9	190.5
135°	262.4	243.0	225.3	211.3	200.0	190.9	185.5	183.3	185.5	190.9	200.0
137.5°	267.6	249.5	232.9	219.6	207.8	199.2	193.2	191.2	193.2	199.2	207.8
140°	271.0	253.8	237.6	224.7	213.5	204.3	198.4	196.8	198.4	204.3	213.5
142.5°	273.5	257.7	242.0	229.5	218.6	209.9	204.4	202.8	204.4	209.9	218.6
145°	276.4	261.8	247.9	236.0	225.8	218.3	212.9	211.3	212.9	218.3	225.8
147.5°	278.8	266.2	253.1	242.4	233.8	226.1	221.4	220.8	221.4	226.1	233.8
150°	280.1	268.3	256.5	246.3	238.2	231.8	227.4	226.9	227.4	231.8	238.2
152.5°	281.0	270.0	259.5	250.2	242.9	236.9	232.6	232.5	232.6	236.9	242.9
155°	281.7	272.6	263.4	255.4	249.5	244.1	240.9	240.3	240.9	244.1	249.5
157.5°	281.7	274.5	266.6	260.3	255.1	251.0	248.0	248.0	248.0	251.0	255.1
160°	281.7	275.3	268.8	262.9	258.6	254.9	252.7	252.7	252.7	254.9	258.6
162.5°	281.7	276.2	270.1	265.5	261.6	258.3	256.6	257.0	256.6	258.3	261.6
165°	280.7	276.4	271.5	268.3	265.6	262.9	261.8	261.8	261.8	262.9	265.6
167.5°	279.4	276.3	272.7	270.2	268.7	266.6	266.2	266.6	266.2	266.6	268.7
170°	278.5	275.8	273.1	271.5	270.4	268.8	268.3	268.8	268.3	268.8	270.4
172.5°	277.7	275.4	273.5	272.4	271.7	270.5	270.4	271.0	270.4	270.5	271.7
175°	276.4	274.8	273.7	273.7	273.1	272.6	272.6	273.1	272.6	272.6	273.1
177.5°	274.9	274.1	273.7	273.7	273.7	273.2	273.7	274.1	273.7	273.2	273.7
180°	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7



TEST NUMBER: P332546-830

CATALOG NUMBER: SA4XXDIP-C575D590U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2
2.5°	868.3	865.6	861.8	856.5	852.2	847.4	846.2	844.5	848.0	845.1	844.2
5°	839.8	832.1	822.2	810.9	804.3	794.7	792.9	789.2	785.5	785.1	781.5
7.5°	809.6	798.3	785.4	773.8	763.1	752.7	745.8	744.4	739.0	735.8	732.2
10°	790.3	776.4	761.3	750.4	737.8	726.9	719.2	714.7	711.1	707.0	703.4
12.5°	767.4	752.6	740.2	728.3	713.5	705.1	692.5	684.9	684.1	684.2	674.7
15°	740.7	726.1	707.0	690.2	682.1	666.0	659.0	650.2	644.7	639.2	634.8
17.5°	710.4	692.1	677.2	657.8	642.4	629.6	620.4	615.1	606.9	599.1	593.4
20°	691.3	671.8	656.1	635.6	618.7	602.9	595.2	587.9	581.6	575.0	568.8
22.5°	671.9	651.6	632.4	612.4	596.6	580.0	572.6	562.6	556.7	553.0	546.8
25°	641.4	619.4	597.4	578.3	562.2	547.5	537.6	529.9	523.3	520.4	516.3
27.5°	608.2	586.4	565.1	543.5	525.2	514.5	506.6	500.8	497.0	493.1	491.3
30°	587.1	564.4	541.7	521.5	504.6	494.0	486.6	482.6	479.7	477.9	476.0
32.5°	565.7	543.3	519.3	501.0	485.9	476.4	470.8	466.7	465.3	464.7	464.0
35°	531.4	508.7	486.6	470.1	455.8	452.1	447.4	445.2	444.5	447.0	448.2
37.5°	498.1	477.0	456.8	440.8	431.4	426.0	424.4	424.5	427.2	429.4	432.1
40°	476.7	456.2	437.2	423.2	414.4	411.1	410.4	412.2	415.1	417.7	420.7
42.5°	455.9	435.6	418.4	405.3	399.2	396.2	396.6	398.4	402.6	405.7	410.1
45°	423.6	406.7	389.8	379.2	374.1	374.8	374.8	378.1	382.1	386.9	391.6
47.5°	393.1	376.1	362.2	353.3	350.6	350.0	352.0	356.4	362.2	368.1	374.8
50°	372.6	356.5	344.3	336.3	333.4	334.4	337.4	341.4	348.4	355.7	362.7
52.5°	351.8	337.1	325.8	318.4	316.3	318.3	321.2	327.6	333.8	341.7	350.1
55°	319.4	307.0	298.1	292.7	291.9	293.0	296.3	303.3	312.1	322.0	330.1
57.5°	287.2	276.8	268.7	264.9	265.3	266.4	271.7	280.0	289.5	300.0	310.4
60°	265.5	256.0	249.4	246.5	246.9	249.0	255.6	263.3	275.0	285.3	296.3
62.5°	245.0	236.6	230.3	227.6	227.2	232.0	238.3	246.3	258.1	269.5	281.3
65°	212.0	205.4	200.2	198.8	199.8	203.5	211.6	222.3	232.1	244.2	256.7
67.5°	179.6	174.3	170.8	171.4	172.8	178.1	184.9	194.1	205.3	217.8	230.2
70°	159.2	154.0	151.1	151.5	153.6	160.2	166.2	175.3	187.4	200.2	210.5
72.5°	138.1	134.7	132.1	133.6	135.7	140.3	147.6	156.8	167.5	179.4	190.3
75°	105.9	105.9	104.5	105.7	109.0	113.3	118.9	128.4	139.0	148.5	157.3
77.5°	78.6	77.9	78.8	80.1	82.0	87.2	93.5	100.4	108.3	117.9	125.2
80°	60.1	60.5	62.3	64.6	65.3	69.3	75.9	82.2	88.4	96.4	103.4
82.5°	45.1	45.5	46.5	49.3	50.0	54.4	58.6	64.8	70.5	75.9	81.7
85°	24.6	24.6	26.4	27.5	29.3	32.2	34.9	38.5	43.6	47.3	52.8
87.5°	10.3	10.3	12.1	12.6	13.8	15.5	15.9	19.2	20.5	22.1	24.7
90°	4.3	4.3	7.5	7.5	8.6	9.7	9.1	9.7	10.2	10.7	10.7
92.5°	28.4	39.6	66.9	108.6	149.3	170.5	142.0	105.6	79.5	63.2	52.5
95°	44.6	67.2	114.0	202.2	330.6	438.2	450.5	398.4	315.1	243.0	190.9
97.5°	54.0	73.0	109.0	181.7	309.5	461.6	566.1	588.6	557.7	505.1	448.9
100°	61.3	78.5	110.2	171.0	280.7	432.3	570.0	648.5	659.2	632.8	593.0
102.5°	69.5	85.8	114.5	168.0	261.3	395.8	537.6	645.5	698.8	706.4	689.8
105°	83.3	99.0	124.7	169.4	244.7	352.7	479.1	602.2	695.2	748.5	770.5
107.5°	97.6	113.0	136.7	177.3	241.7	328.7	431.8	540.8	639.8	714.8	762.7
110°	107.5	122.1	145.7	183.3	242.5	320.5	408.1	503.8	596.8	674.8	734.0



TEST NUMBER: P332546-830

CATALOG NUMBER: SA4XXDIP-C575D590U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	117.0	131.5	154.3	189.8	245.1	316.6	394.7	476.7	558.9	632.6	691.7
115°	131.8	146.3	167.8	200.0	250.1	314.5	382.3	449.5	515.7	578.5	630.2
117.5°	145.2	160.3	180.8	210.5	255.2	314.0	376.7	436.1	490.9	540.4	584.1
120°	154.3	169.4	189.8	217.7	259.2	314.0	373.7	430.2	480.1	523.1	561.3
122.5°	163.3	178.0	198.4	224.6	263.1	313.6	370.2	425.0	473.3	512.4	545.8
125°	175.8	190.9	210.2	235.0	268.8	312.9	364.6	416.1	462.4	499.5	529.0
127.5°	187.3	202.5	221.2	243.9	273.4	311.7	356.9	405.4	449.6	486.6	514.6
130°	194.6	210.2	228.5	249.5	276.9	311.3	352.1	396.8	439.3	475.8	504.4
132.5°	201.5	216.2	234.5	255.1	279.9	310.9	347.9	387.8	427.6	463.4	491.8
135°	211.3	225.3	243.0	262.4	284.5	310.2	341.4	375.3	410.3	443.0	470.0
137.5°	219.6	232.9	249.5	267.6	287.1	310.1	335.8	364.0	393.6	421.2	445.5
140°	224.7	237.6	253.8	271.0	289.3	309.7	332.8	357.5	382.9	407.0	429.6
142.5°	229.5	242.0	257.7	273.5	291.0	309.7	330.3	351.6	373.8	394.5	414.2
145°	236.0	247.9	261.8	276.4	292.0	308.6	325.8	343.0	361.3	377.5	392.5
147.5°	242.4	253.1	266.2	278.8	292.5	306.7	321.9	336.0	350.5	363.4	375.3
150°	246.3	256.5	268.3	280.1	292.5	305.4	318.9	331.8	344.1	354.9	364.6
152.5°	250.2	259.5	270.0	281.0	291.6	303.2	315.4	327.0	337.6	347.5	355.5
155°	255.4	263.4	272.6	281.7	290.3	300.0	310.2	319.9	328.5	336.6	343.0
157.5°	260.3	266.6	274.5	281.7	289.0	296.7	305.0	312.3	319.5	326.2	331.4
160°	262.9	268.8	275.3	281.7	287.7	294.1	301.1	307.6	313.5	319.3	323.7
162.5°	265.5	270.1	276.2	281.7	286.3	291.5	297.7	302.8	307.8	312.5	316.4
165°	268.3	271.5	276.4	280.7	283.9	287.7	292.0	296.2	299.4	303.2	305.9
167.5°	270.2	272.7	276.3	279.4	281.3	283.8	286.8	289.9	292.4	295.4	297.0
170°	271.5	273.1	275.8	278.5	279.6	281.2	283.3	286.1	287.7	289.8	291.4
172.5°	272.4	273.5	275.4	277.7	277.9	278.6	280.3	282.6	283.8	285.1	286.3
175°	273.7	273.7	274.8	276.4	275.8	275.8	276.9	278.0	278.5	279.6	279.6
177.5°	273.7	273.7	274.1	274.9	274.1	274.1	274.6	274.9	275.4	275.4	275.8
180°	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7



TEST NUMBER: P332546-830

CATALOG NUMBER: SA4XXDIP-C575D590U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2
2.5°	843.6	843.0	840.9	840.7	840.9	843.0	843.6	844.2	845.1	848.0	844.5
5°	779.3	777.5	776.4	780.4	776.4	777.5	779.3	781.5	785.1	785.5	789.2
7.5°	730.8	729.3	726.1	725.1	726.1	729.3	730.8	732.2	735.8	739.0	744.4
10°	699.7	698.2	695.3	694.6	695.3	698.2	699.7	703.4	707.0	711.1	714.7
12.5°	669.8	666.8	666.3	667.0	666.3	666.8	669.8	674.7	684.2	684.1	684.9
15°	630.0	628.6	624.5	625.7	624.5	628.6	630.0	634.8	639.2	644.7	650.2
17.5°	590.9	589.1	584.2	588.5	584.2	589.1	590.9	593.4	599.1	606.9	615.1
20°	566.2	563.3	560.7	560.3	560.7	563.3	566.2	568.8	575.0	581.6	587.9
22.5°	542.7	540.1	539.9	537.4	539.9	540.1	542.7	546.8	553.0	556.7	562.6
25°	513.4	510.9	510.1	508.3	510.1	510.9	513.4	516.3	520.4	523.3	529.9
27.5°	490.9	489.7	488.3	488.9	488.3	489.7	490.9	491.3	493.1	497.0	500.8
30°	477.1	476.7	476.0	476.0	476.0	476.7	477.1	476.0	477.9	479.7	482.6
32.5°	465.7	465.6	466.0	466.0	466.0	465.6	465.7	464.0	464.7	465.3	466.7
35°	449.6	450.7	451.5	450.3	451.5	450.7	449.6	448.2	447.0	444.5	445.2
37.5°	435.1	436.2	437.2	438.5	437.2	436.2	435.1	432.1	429.4	427.2	424.5
40°	424.0	426.5	427.3	429.0	427.3	426.5	424.0	420.7	417.7	415.1	412.2
42.5°	413.4	416.2	418.1	418.5	418.1	416.2	413.4	410.1	405.7	402.6	398.4
45°	397.2	400.1	402.7	402.7	402.7	400.1	397.2	391.6	386.9	382.1	378.1
47.5°	380.4	384.7	387.2	387.9	387.2	384.7	380.4	374.8	368.1	362.2	356.4
50°	368.9	374.1	376.6	378.4	376.6	374.1	368.9	362.7	355.7	348.4	341.4
52.5°	357.8	362.9	366.4	367.3	366.4	362.9	357.8	350.1	341.7	333.8	327.6
55°	338.5	345.8	349.9	351.3	349.9	345.8	338.5	330.1	322.0	312.1	303.3
57.5°	320.3	327.1	331.8	332.8	331.8	327.1	320.3	310.4	300.0	289.5	280.0
60°	306.2	313.6	319.4	320.6	319.4	313.6	306.2	296.3	285.3	275.0	263.3
62.5°	291.8	299.4	304.7	307.6	304.7	299.4	291.8	281.3	269.5	258.1	246.3
65°	267.0	274.7	279.8	280.9	279.8	274.7	267.0	256.7	244.2	232.1	222.3
67.5°	239.9	247.5	250.9	253.1	250.9	247.5	239.9	230.2	217.8	205.3	194.1
70°	220.7	227.0	230.6	232.5	230.6	227.0	220.7	210.5	200.2	187.4	175.3
72.5°	199.1	205.6	209.8	210.2	209.8	205.6	199.1	190.3	179.4	167.5	156.8
75°	165.8	171.6	173.8	173.8	173.8	171.6	165.8	157.3	148.5	139.0	128.4
77.5°	131.2	134.2	137.0	137.6	137.0	134.2	131.2	125.2	117.9	108.3	100.4
80°	109.0	110.7	112.9	112.9	112.9	110.7	109.0	103.4	96.4	88.4	82.2
82.5°	86.1	87.6	89.7	89.4	89.7	87.6	86.1	81.7	75.9	70.5	64.8
85°	52.0	55.4	55.0	54.3	55.0	55.4	52.0	52.8	47.3	43.6	38.5
87.5°	25.7	26.1	26.9	27.5	26.9	26.1	25.7	24.7	22.1	20.5	19.2
90°	11.3	11.8	11.3	11.3	11.3	11.8	11.3	10.7	10.7	10.2	9.7
92.5°	46.1	43.3	41.4	41.4	41.4	43.3	46.1	52.5	63.2	79.5	105.6
95°	164.6	147.9	138.2	131.2	138.2	147.9	164.6	190.9	243.0	315.1	398.4
97.5°	410.4	378.0	361.8	350.6	361.8	378.0	410.4	448.9	505.1	557.7	588.6
100°	546.3	513.5	497.4	493.0	497.4	513.5	546.3	593.0	632.8	659.2	648.5
102.5°	661.1	637.3	620.4	616.9	620.4	637.3	661.1	689.8	706.4	698.8	645.5
105°	771.6	767.2	759.7	756.5	759.7	767.2	771.6	770.5	748.5	695.2	602.2
107.5°	789.3	801.5	806.9	808.3	806.9	801.5	789.3	762.7	714.8	639.8	540.8
110°	772.1	794.7	804.4	809.2	804.4	794.7	772.1	734.0	674.8	596.8	503.8



TEST NUMBER: P332546-830

CATALOG NUMBER: SA4XXDIP-C575D590U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	735.1	762.4	776.0	783.8	776.0	762.4	735.1	691.7	632.6	558.9	476.7
115°	672.6	704.9	722.1	726.4	722.1	704.9	672.6	630.2	578.5	515.7	449.5
117.5°	620.4	647.4	664.9	668.3	664.9	647.4	620.4	584.1	540.4	490.9	436.1
120°	592.0	615.7	629.6	635.6	629.6	615.7	592.0	561.3	523.1	480.1	430.2
122.5°	571.7	592.0	603.8	609.7	603.8	592.0	571.7	545.8	512.4	473.3	425.0
125°	550.5	566.2	576.4	579.6	576.4	566.2	550.5	529.0	499.5	462.4	416.1
127.5°	536.3	550.2	558.7	561.9	558.7	550.2	536.3	514.6	486.6	449.6	405.4
130°	526.4	539.8	548.5	551.7	548.5	539.8	526.4	504.4	475.8	439.3	396.8
132.5°	513.5	528.7	536.8	540.1	536.8	528.7	513.5	491.8	463.4	427.6	387.8
135°	491.4	506.5	515.1	518.3	515.1	506.5	491.4	470.0	443.0	410.3	375.3
137.5°	465.6	480.5	487.6	491.4	487.6	480.5	465.6	445.5	421.2	393.6	364.0
140°	448.5	460.2	467.8	472.1	467.8	460.2	448.5	429.6	407.0	382.9	357.5
142.5°	430.7	441.8	448.5	451.4	448.5	441.8	430.7	414.2	394.5	373.8	351.6
145°	406.0	415.1	420.5	423.1	420.5	415.1	406.0	392.5	377.5	361.3	343.0
147.5°	385.2	393.0	397.1	398.1	397.1	393.0	385.2	375.3	363.4	350.5	336.0
150°	373.2	380.1	383.3	383.9	383.3	380.1	373.2	364.6	354.9	344.1	331.8
152.5°	362.8	368.5	370.4	371.0	370.4	368.5	362.8	355.5	347.5	337.6	327.0
155°	348.5	352.7	354.3	354.3	354.3	352.7	348.5	343.0	336.6	328.5	319.9
157.5°	335.5	338.7	339.7	339.7	339.7	338.7	335.5	331.4	326.2	319.5	312.3
160°	326.9	330.2	330.6	330.6	330.6	330.2	326.9	323.7	319.3	313.5	307.6
162.5°	318.8	322.0	322.5	322.1	322.5	322.0	318.8	316.4	312.5	307.8	302.8
165°	308.1	310.2	309.7	309.2	309.7	310.2	308.1	305.9	303.2	299.4	296.2
167.5°	298.1	299.4	299.4	299.0	299.4	299.4	298.1	297.0	295.4	292.4	289.9
170°	292.5	293.0	292.5	292.5	292.5	293.0	292.5	291.4	289.8	287.7	286.1
172.5°	286.9	287.5	286.9	286.1	286.9	287.5	286.9	286.3	285.1	283.8	282.6
175°	279.6	280.7	279.6	278.5	279.6	280.7	279.6	279.6	279.6	278.5	278.0
177.5°	275.4	275.8	274.9	274.1	274.9	275.8	275.4	275.8	275.4	275.4	274.9
180°	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7



TEST NUMBER: P332546-830  
 CATALOG NUMBER: SA4XXDIP-C575D590U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2
2.5°	846.2	847.4	852.2	856.5	861.8	865.6	868.3	871.2	877.3	882.3	887.0
5°	792.9	794.7	804.3	810.9	822.2	832.1	839.8	848.2	858.2	871.7	884.2
7.5°	745.8	752.7	763.1	773.8	785.4	798.3	809.6	822.4	839.4	858.1	877.3
10°	719.2	726.9	737.8	750.4	761.3	776.4	790.3	805.3	824.7	847.5	870.2
12.5°	692.5	705.1	713.5	728.3	740.2	752.6	767.4	787.1	809.8	833.7	861.1
15°	659.0	666.0	682.1	690.2	707.0	726.1	740.7	760.6	782.6	814.2	844.9
17.5°	620.4	629.6	642.4	657.8	677.2	692.1	710.4	730.8	758.5	789.8	828.4
20°	595.2	602.9	618.7	635.6	656.1	671.8	691.3	711.1	739.7	773.1	813.4
22.5°	572.6	580.0	596.6	612.4	632.4	651.6	671.9	694.9	722.4	757.5	798.7
25°	537.6	547.5	562.2	578.3	597.4	619.4	641.4	661.9	691.3	728.3	772.3
27.5°	506.6	514.5	525.2	543.5	565.1	586.4	608.2	634.0	662.2	701.4	747.1
30°	486.6	494.0	504.6	521.5	541.7	564.4	587.1	612.1	641.4	680.2	726.9
32.5°	470.8	476.4	485.9	501.0	519.3	543.3	565.7	591.5	622.4	660.6	706.1
35°	447.4	452.1	455.8	470.1	486.6	508.7	531.4	558.9	588.6	624.9	670.3
37.5°	424.4	426.0	431.4	440.8	456.8	477.0	498.1	525.2	555.6	592.6	633.6
40°	410.4	411.1	414.4	423.2	437.2	456.2	476.7	503.5	532.4	567.3	608.0
42.5°	396.6	396.2	399.2	405.3	418.4	435.6	455.9	480.3	509.3	541.5	579.9
45°	374.8	374.8	374.1	379.2	389.8	406.7	423.6	447.0	471.3	502.8	535.1
47.5°	352.0	350.0	350.6	353.3	362.2	376.1	393.1	412.4	433.7	460.4	488.7
50°	337.4	334.4	333.4	336.3	344.3	356.5	372.6	389.5	409.6	433.1	457.3
52.5°	321.2	318.3	316.3	318.4	325.8	337.1	351.8	366.6	384.7	403.8	424.7
55°	296.3	293.0	291.9	292.7	298.1	307.0	319.4	333.0	346.6	362.3	377.0
57.5°	271.7	266.4	265.3	264.9	268.7	276.8	287.2	299.0	308.9	318.4	334.0
60°	255.6	249.0	246.9	246.5	249.4	256.0	265.5	277.2	284.2	290.8	304.3
62.5°	238.3	232.0	227.2	227.6	230.3	236.6	245.0	253.4	258.1	265.3	274.5
65°	211.6	203.5	199.8	198.8	200.2	205.4	212.0	217.4	222.6	225.6	234.3
67.5°	184.9	178.1	172.8	171.4	170.8	174.3	179.6	183.0	186.6	189.3	194.4
70°	166.2	160.2	153.6	151.5	151.1	154.0	159.2	159.6	164.7	165.8	171.3
72.5°	147.6	140.3	135.7	133.6	132.1	134.7	138.1	139.0	141.8	143.7	146.7
75°	118.9	113.3	109.0	105.7	104.5	105.9	105.9	107.8	109.6	110.7	114.0
77.5°	93.5	87.2	82.0	80.1	78.8	77.9	78.6	79.7	78.9	80.8	81.5
80°	75.9	69.3	65.3	64.6	62.3	60.5	60.1	61.3	59.8	60.5	62.7
82.5°	58.6	54.4	50.0	49.3	46.5	45.5	45.1	44.5	44.5	44.4	44.8
85°	34.9	32.2	29.3	27.5	26.4	24.6	24.6	23.8	23.1	22.3	22.7
87.5°	15.9	15.5	13.8	12.6	12.1	10.3	10.3	9.2	8.9	8.2	7.7
90°	9.1	9.7	8.6	7.5	7.5	4.3	4.3	3.8	3.2	1.6	0.6
92.5°	142.0	170.5	149.3	108.6	66.9	39.6	28.4	20.5	13.9	9.0	6.1
95°	450.5	438.2	330.6	202.2	114.0	67.2	44.6	31.8	24.7	19.3	17.7
97.5°	566.1	461.6	309.5	181.7	109.0	73.0	54.0	42.9	36.5	31.9	31.9
100°	570.0	432.3	280.7	171.0	110.2	78.5	61.3	51.1	44.6	40.9	40.9
102.5°	537.6	395.8	261.3	168.0	114.5	85.8	69.5	59.7	53.6	50.3	49.5
105°	479.1	352.7	244.7	169.4	124.7	99.0	83.3	73.7	67.2	64.6	62.9
107.5°	431.8	328.7	241.7	177.3	136.7	113.0	97.6	88.4	81.5	78.8	77.8
110°	408.1	320.5	242.5	183.3	145.7	122.1	107.5	97.8	91.4	88.7	87.7



TEST NUMBER: P332546-830

CATALOG NUMBER: SA4XXDIP-C575D590U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	394.7	316.6	245.1	189.8	154.3	131.5	117.0	107.4	101.3	98.2	97.1
115°	382.3	314.5	250.1	200.0	167.8	146.3	131.8	121.5	116.1	112.4	110.7
117.5°	376.7	314.0	255.2	210.5	180.8	160.3	145.2	135.7	129.8	126.5	125.0
120°	373.7	314.0	259.2	217.7	189.8	169.4	154.3	145.2	139.2	135.5	134.4
122.5°	370.2	313.6	263.1	224.6	198.4	178.0	163.3	153.4	147.9	144.1	143.0
125°	364.6	312.9	268.8	235.0	210.2	190.9	175.8	165.6	159.7	156.5	154.3
127.5°	356.9	311.7	273.4	243.9	221.2	202.5	187.3	176.6	169.9	166.1	164.3
130°	352.1	311.3	276.9	249.5	228.5	210.2	194.6	184.5	176.3	172.0	169.9
132.5°	347.9	310.9	279.9	255.1	234.5	216.2	201.5	190.5	182.9	177.2	175.5
135°	341.4	310.2	284.5	262.4	243.0	225.3	211.3	200.0	190.9	185.5	183.3
137.5°	335.8	310.1	287.1	267.6	249.5	232.9	219.6	207.8	199.2	193.2	191.2
140°	332.8	309.7	289.3	271.0	253.8	237.6	224.7	213.5	204.3	198.4	196.8
142.5°	330.3	309.7	291.0	273.5	257.7	242.0	229.5	218.6	209.9	204.4	202.8
145°	325.8	308.6	292.0	276.4	261.8	247.9	236.0	225.8	218.3	212.9	211.3
147.5°	321.9	306.7	292.5	278.8	266.2	253.1	242.4	233.8	226.1	221.4	220.8
150°	318.9	305.4	292.5	280.1	268.3	256.5	246.3	238.2	231.8	227.4	226.9
152.5°	315.4	303.2	291.6	281.0	270.0	259.5	250.2	242.9	236.9	232.6	232.5
155°	310.2	300.0	290.3	281.7	272.6	263.4	255.4	249.5	244.1	240.9	240.3
157.5°	305.0	296.7	289.0	281.7	274.5	266.6	260.3	255.1	251.0	248.0	248.0
160°	301.1	294.1	287.7	281.7	275.3	268.8	262.9	258.6	254.9	252.7	252.7
162.5°	297.7	291.5	286.3	281.7	276.2	270.1	265.5	261.6	258.3	256.6	257.0
165°	292.0	287.7	283.9	280.7	276.4	271.5	268.3	265.6	262.9	261.8	261.8
167.5°	286.8	283.8	281.3	279.4	276.3	272.7	270.2	268.7	266.6	266.2	266.6
170°	283.3	281.2	279.6	278.5	275.8	273.1	271.5	270.4	268.8	268.3	268.8
172.5°	280.3	278.6	277.9	277.7	275.4	273.5	272.4	271.7	270.5	270.4	271.0
175°	276.9	275.8	275.8	276.4	274.8	273.7	273.7	273.1	272.6	272.6	273.1
177.5°	274.6	274.1	274.1	274.9	274.1	273.7	273.7	273.7	273.2	273.7	274.1
180°	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7



TEST NUMBER: P332546-830

CATALOG NUMBER: SA4XXDIP-C575D590U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2
2.5°	891.2	894.1	897.9	904.4	906.7	909.6	913.7	913.4	914.6	919.0	928.4
5°	894.5	905.8	916.8	930.0	944.0	953.1	965.6	973.3	981.0	990.9	1007.8
7.5°	895.8	913.8	934.0	957.2	977.8	1001.5	1020.1	1037.6	1053.3	1074.2	1094.3
10°	893.7	917.9	944.0	973.3	1004.5	1030.9	1054.7	1081.9	1104.9	1130.2	1153.0
12.5°	889.9	919.1	953.9	986.7	1023.2	1062.2	1091.9	1119.4	1150.1	1179.2	1214.3
15°	881.3	921.2	962.0	1005.2	1054.0	1099.1	1142.0	1177.5	1210.6	1254.2	1300.0
17.5°	870.2	913.3	964.7	1017.1	1068.1	1119.6	1172.7	1226.2	1267.8	1322.0	1357.9
20°	860.0	909.8	962.6	1025.0	1076.0	1140.2	1193.0	1244.6	1301.8	1355.8	1398.7
22.5°	845.6	900.1	956.2	1018.2	1085.3	1149.5	1210.6	1266.7	1323.9	1382.5	1434.5
25°	827.4	876.8	943.2	1013.6	1080.3	1150.1	1220.1	1290.5	1352.1	1414.1	1462.5
27.5°	796.3	858.8	920.6	993.3	1067.4	1146.2	1221.2	1294.9	1359.3	1410.3	1440.4
30°	780.4	834.6	901.8	974.8	1055.1	1139.8	1217.9	1290.2	1350.3	1391.0	1403.1
32.5°	757.0	812.9	878.6	954.2	1039.2	1126.2	1207.6	1275.7	1326.0	1347.3	1332.7
35°	722.1	772.7	839.1	916.4	1004.8	1097.6	1177.9	1235.5	1261.2	1241.0	1190.7
37.5°	680.2	730.5	797.1	873.1	964.6	1058.9	1131.5	1172.9	1164.4	1114.3	1039.3
40°	650.9	697.9	761.3	843.5	932.6	1027.2	1091.0	1113.4	1090.0	1018.0	938.5
42.5°	618.4	664.1	727.8	807.1	901.4	988.7	1044.3	1046.2	1006.9	921.0	841.0
45°	568.8	612.5	672.6	755.1	842.4	924.5	961.2	943.2	870.6	787.7	707.4
47.5°	519.9	557.7	617.0	695.3	778.2	847.3	865.5	833.2	755.8	675.3	600.9
50°	484.1	522.3	578.0	652.8	732.7	792.5	801.3	758.4	682.5	601.4	543.1
52.5°	449.8	487.6	541.3	610.5	683.7	737.6	737.9	688.2	612.7	540.5	486.2
55°	399.4	433.5	481.9	543.8	609.2	651.3	641.0	589.7	524.1	461.4	414.1
57.5°	350.8	380.5	425.1	476.8	534.3	569.1	552.0	502.7	444.0	390.9	355.0
60°	319.4	347.6	385.8	434.6	483.0	510.1	494.0	449.2	395.3	352.4	321.2
62.5°	288.9	312.7	349.4	391.7	436.6	456.8	442.3	398.2	351.7	312.8	287.5
65°	245.7	265.1	294.5	330.8	363.4	380.7	368.5	327.4	291.9	264.0	243.8
67.5°	205.4	220.6	242.8	271.9	299.6	309.0	297.9	269.3	239.2	216.9	202.6
70°	177.5	191.8	210.5	232.9	257.0	267.0	256.0	233.3	208.7	188.1	174.2
72.5°	153.2	164.2	180.0	199.2	218.0	228.0	220.5	198.6	177.9	162.6	150.7
75°	116.6	126.1	137.1	150.7	165.4	172.0	165.4	150.3	136.0	124.7	116.2
77.5°	84.8	89.9	98.4	108.6	117.7	122.8	117.1	106.9	98.1	90.4	86.1
80°	64.6	68.2	74.1	82.2	88.4	93.1	89.4	81.1	74.1	68.9	67.1
82.5°	46.9	49.4	53.3	59.3	63.4	65.9	64.3	58.2	55.3	50.7	48.9
85°	23.1	24.6	27.1	28.9	32.6	33.0	33.4	30.8	28.3	27.1	25.6
87.5°	8.2	8.9	9.8	10.8	12.0	12.9	12.6	12.9	11.9	11.5	10.5
90°	1.6	3.2	3.8	4.3	4.3	7.5	7.5	8.6	9.7	9.1	9.7
92.5°	9.0	13.9	20.5	28.4	39.6	66.9	108.6	149.3	170.5	142.0	105.6
95°	19.3	24.7	31.8	44.6	67.2	114.0	202.2	330.6	438.2	450.5	398.4
97.5°	31.9	36.5	42.9	54.0	73.0	109.0	181.7	309.5	461.6	566.1	588.6
100°	40.9	44.6	51.1	61.3	78.5	110.2	171.0	280.7	432.3	570.0	648.5
102.5°	50.3	53.6	59.7	69.5	85.8	114.5	168.0	261.3	395.8	537.6	645.5
105°	64.6	67.2	73.7	83.3	99.0	124.7	169.4	244.7	352.7	479.1	602.2
107.5°	78.8	81.5	88.4	97.6	113.0	136.7	177.3	241.7	328.7	431.8	540.8
110°	88.7	91.4	97.8	107.5	122.1	145.7	183.3	242.5	320.5	408.1	503.8





TEST NUMBER: P332546-830

CATALOG NUMBER: SA4XXDIP-C575D590U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	98.2	101.3	107.4	117.0	131.5	154.3	189.8	245.1	316.6	394.7	476.7
115°	112.4	116.1	121.5	131.8	146.3	167.8	200.0	250.1	314.5	382.3	449.5
117.5°	126.5	129.8	135.7	145.2	160.3	180.8	210.5	255.2	314.0	376.7	436.1
120°	135.5	139.2	145.2	154.3	169.4	189.8	217.7	259.2	314.0	373.7	430.2
122.5°	144.1	147.9	153.4	163.3	178.0	198.4	224.6	263.1	313.6	370.2	425.0
125°	156.5	159.7	165.6	175.8	190.9	210.2	235.0	268.8	312.9	364.6	416.1
127.5°	166.1	169.9	176.6	187.3	202.5	221.2	243.9	273.4	311.7	356.9	405.4
130°	172.0	176.3	184.5	194.6	210.2	228.5	249.5	276.9	311.3	352.1	396.8
132.5°	177.2	182.9	190.5	201.5	216.2	234.5	255.1	279.9	310.9	347.9	387.8
135°	185.5	190.9	200.0	211.3	225.3	243.0	262.4	284.5	310.2	341.4	375.3
137.5°	193.2	199.2	207.8	219.6	232.9	249.5	267.6	287.1	310.1	335.8	364.0
140°	198.4	204.3	213.5	224.7	237.6	253.8	271.0	289.3	309.7	332.8	357.5
142.5°	204.4	209.9	218.6	229.5	242.0	257.7	273.5	291.0	309.7	330.3	351.6
145°	212.9	218.3	225.8	236.0	247.9	261.8	276.4	292.0	308.6	325.8	343.0
147.5°	221.4	226.1	233.8	242.4	253.1	266.2	278.8	292.5	306.7	321.9	336.0
150°	227.4	231.8	238.2	246.3	256.5	268.3	280.1	292.5	305.4	318.9	331.8
152.5°	232.6	236.9	242.9	250.2	259.5	270.0	281.0	291.6	303.2	315.4	327.0
155°	240.9	244.1	249.5	255.4	263.4	272.6	281.7	290.3	300.0	310.2	319.9
157.5°	248.0	251.0	255.1	260.3	266.6	274.5	281.7	289.0	296.7	305.0	312.3
160°	252.7	254.9	258.6	262.9	268.8	275.3	281.7	287.7	294.1	301.1	307.6
162.5°	256.6	258.3	261.6	265.5	270.1	276.2	281.7	286.3	291.5	297.7	302.8
165°	261.8	262.9	265.6	268.3	271.5	276.4	280.7	283.9	287.7	292.0	296.2
167.5°	266.2	266.6	268.7	270.2	272.7	276.3	279.4	281.3	283.8	286.8	289.9
170°	268.3	268.8	270.4	271.5	273.1	275.8	278.5	279.6	281.2	283.3	286.1
172.5°	270.4	270.5	271.7	272.4	273.5	275.4	277.7	277.9	278.6	280.3	282.6
175°	272.6	272.6	273.1	273.7	273.7	274.8	276.4	275.8	275.8	276.9	278.0
177.5°	273.7	273.2	273.7	273.7	273.7	274.1	274.9	274.1	274.1	274.6	274.9
180°	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	885.2	885.2	885.2	885.2	885.2	885.2	885.2
2.5°	933.1	933.7	936.3	938.4	939.0	941.9	942.2
5°	1015.1	1021.3	1033.4	1034.5	1036.3	1045.9	1038.6
7.5°	1111.2	1127.0	1137.6	1146.9	1150.3	1154.4	1153.6
10°	1172.8	1196.3	1208.0	1226.7	1227.5	1232.2	1229.3
12.5°	1234.7	1262.0	1283.4	1286.9	1302.5	1305.0	1309.1
15°	1322.4	1351.4	1381.1	1391.8	1413.3	1418.5	1426.5
17.5°	1404.9	1434.5	1455.3	1482.8	1491.7	1503.5	1495.5
20°	1450.0	1482.3	1508.7	1530.3	1539.5	1546.1	1545.4
22.5°	1477.3	1509.9	1531.3	1547.7	1556.2	1559.1	1558.9
25°	1494.4	1513.2	1519.8	1526.0	1516.5	1513.2	1514.6
27.5°	1446.9	1442.0	1424.8	1402.2	1378.8	1360.1	1350.0
30°	1381.5	1352.8	1326.8	1281.4	1257.8	1244.0	1231.4
32.5°	1288.7	1243.4	1193.4	1151.7	1124.9	1104.3	1101.2
35°	1129.9	1061.7	1000.4	949.4	923.0	900.7	895.5
37.5°	960.6	889.8	834.6	789.7	761.3	745.6	730.8
40°	848.2	787.4	733.1	694.9	673.4	661.9	652.8
42.5°	761.7	706.1	652.1	623.0	603.5	596.5	591.2
45°	642.2	590.4	553.0	531.0	519.6	507.9	502.4
47.5°	546.4	504.4	479.7	461.0	448.8	441.9	438.3
50°	492.1	457.7	435.6	421.4	410.4	404.8	401.9
52.5°	444.0	415.8	397.3	385.9	378.4	374.4	373.2
55°	382.5	360.9	349.1	339.2	333.8	330.1	328.6
57.5°	332.4	315.8	306.3	298.1	296.1	292.9	291.9
60°	299.6	286.8	278.7	273.2	271.4	267.7	268.4
62.5°	270.6	260.0	253.2	250.1	247.6	244.5	245.5
65°	228.8	221.1	217.4	214.5	211.6	209.8	211.2
67.5°	192.0	186.7	181.7	180.0	178.6	178.3	176.7
70°	168.0	163.5	159.2	158.1	158.1	156.6	156.2
72.5°	144.8	141.6	138.6	137.8	136.7	137.2	135.7
75°	111.9	109.2	108.2	107.1	106.7	106.7	105.7
77.5°	82.7	80.8	79.0	79.0	77.7	77.2	77.0
80°	62.7	62.0	60.5	60.5	59.8	60.1	59.4
82.5°	47.1	46.1	45.8	45.2	44.2	44.3	43.5
85°	25.3	24.2	23.8	22.7	22.0	22.7	22.0
87.5°	10.8	10.7	10.4	9.9	9.7	9.6	8.7
90°	10.2	10.7	10.7	11.3	11.8	11.3	11.3
92.5°	79.5	63.2	52.5	46.1	43.3	41.4	41.4
95°	315.1	243.0	190.9	164.6	147.9	138.2	131.2
97.5°	557.7	505.1	448.9	410.4	378.0	361.8	350.6
100°	659.2	632.8	593.0	546.3	513.5	497.4	493.0
102.5°	698.8	706.4	689.8	661.1	637.3	620.4	616.9
105°	695.2	748.5	770.5	771.6	767.2	759.7	756.5
107.5°	639.8	714.8	762.7	789.3	801.5	806.9	808.3
110°	596.8	674.8	734.0	772.1	794.7	804.4	809.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	558.9	632.6	691.7	735.1	762.4	776.0	783.8
115°	515.7	578.5	630.2	672.6	704.9	722.1	726.4
117.5°	490.9	540.4	584.1	620.4	647.4	664.9	668.3
120°	480.1	523.1	561.3	592.0	615.7	629.6	635.6
122.5°	473.3	512.4	545.8	571.7	592.0	603.8	609.7
125°	462.4	499.5	529.0	550.5	566.2	576.4	579.6
127.5°	449.6	486.6	514.6	536.3	550.2	558.7	561.9
130°	439.3	475.8	504.4	526.4	539.8	548.5	551.7
132.5°	427.6	463.4	491.8	513.5	528.7	536.8	540.1
135°	410.3	443.0	470.0	491.4	506.5	515.1	518.3
137.5°	393.6	421.2	445.5	465.6	480.5	487.6	491.4
140°	382.9	407.0	429.6	448.5	460.2	467.8	472.1
142.5°	373.8	394.5	414.2	430.7	441.8	448.5	451.4
145°	361.3	377.5	392.5	406.0	415.1	420.5	423.1
147.5°	350.5	363.4	375.3	385.2	393.0	397.1	398.1
150°	344.1	354.9	364.6	373.2	380.1	383.3	383.9
152.5°	337.6	347.5	355.5	362.8	368.5	370.4	371.0
155°	328.5	336.6	343.0	348.5	352.7	354.3	354.3
157.5°	319.5	326.2	331.4	335.5	338.7	339.7	339.7
160°	313.5	319.3	323.7	326.9	330.2	330.6	330.6
162.5°	307.8	312.5	316.4	318.8	322.0	322.5	322.1
165°	299.4	303.2	305.9	308.1	310.2	309.7	309.2
167.5°	292.4	295.4	297.0	298.1	299.4	299.4	299.0
170°	287.7	289.8	291.4	292.5	293.0	292.5	292.5
172.5°	283.8	285.1	286.3	286.9	287.5	286.9	286.1
175°	278.5	279.6	279.6	279.6	280.7	279.6	278.5
177.5°	275.4	275.4	275.8	275.4	275.8	274.9	274.1
180°	273.7	273.7	273.7	273.7	273.7	273.7	273.7

(END OF REPORT)