

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: P332545-930

Luminaire Tested: **SA4XXDIP-C575D590U930-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332545-930  
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-C575D590U930-4F0-1E-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**

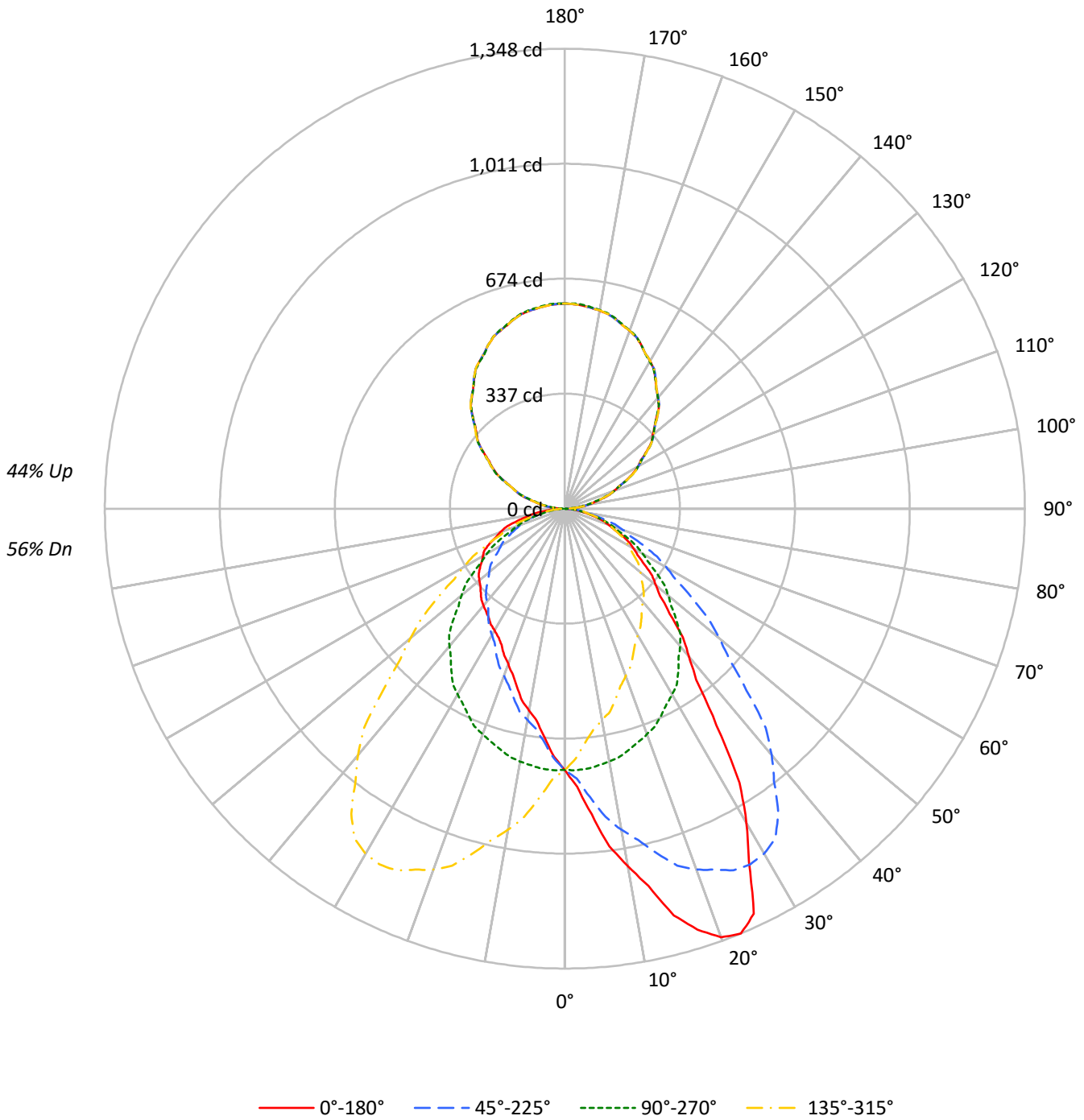
Lumens per Lamp: N/A  
Luminaire Lumens: 3782.7 lumens  
Efficiency: N/A  
Efficacy: 115.3 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: General Diffuse

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	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°	6181	6181	6181	6181
5°	7280	6198	5471	6198
10°	8716	6171	4925	6171
15°	10313	6108	4523	6108
20°	11485	6045	4164	6045
25°	11670	5951	3917	5951
30°	9930	5862	3838	5862
35°	7634	5714	3840	5714
40°	5951	5542	3911	5542
45°	4962	5284	3976	5284
50°	4366	4968	4111	4968
55°	4000	4590	4277	4590
60°	3749	4251	4477	4251
65°	3490	3872	4642	3872
70°	3189	3496	4747	3496
75°	2851	3079	4688	3079
80°	2390	2520	4542	2520
85°	1760	1815	4353	1815



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.6	2.0
10°-20°	230.0	6.1
20°-30°	364.6	9.6
30°-40°	405.8	10.7
40°-50°	369.4	9.8
50°-60°	301.9	8.0
60°-70°	215.5	5.7
70°-80°	118.7	3.1
80°-90°	34.2	0.9
90°-100°	39.7	1.0
100°-110°	117.5	3.1
110°-120°	199.4	5.3
120°-130°	262.9	7.0
130°-140°	295.3	7.8
140°-150°	290.2	7.7
150°-160°	244.0	6.5
160°-170°	162.4	4.3
170°-180°	56.9	1.5
0°-30°	669.2	17.7
0°-40°	1075.0	28.4
0°-60°	1746.2	46.2
0°-90°	2114.6	55.9
90°-120°	356.5	9.4
90°-150°	1204.9	31.9
90°-180°	1668.0	44.1
0°-180°	3782.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	766	766	766	766	766	
5°	898	765	675	765	898	91
15°	1234	731	541	731	1234	349
25°	1310	668	440	668	1310	578
35°	775	580	390	580	775	492
45°	435	463	348	463	435	342
55°	284	326	304	326	284	257
65°	183	203	243	203	183	181
75°	91	99	150	99	91	97
85°	19	20	47	20	19	24
90°	14	1	14	1	14	8
95°	37	28	37	28	37	38
105°	114	108	114	108	114	120
115°	201	203	201	203	201	199
125°	293	295	293	295	293	261
135°	381	381	381	381	381	294
145°	463	463	463	463	463	290
155°	530	530	530	530	530	244
165°	576	577	576	577	576	162
175°	598	600	598	600	598	57
180°	601	601	601	601	601	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7
2.5°	815.0	814.7	812.2	811.7	809.9	807.6	807.1	803.1	794.9	791.2	790.1
5°	898.4	904.7	896.4	894.9	893.9	883.5	878.1	871.7	857.1	848.6	841.9
7.5°	997.8	998.6	995.0	992.1	984.0	974.9	961.2	946.6	929.2	911.1	897.5
10°	1063.3	1065.8	1061.8	1061.1	1044.9	1034.8	1014.5	997.4	977.6	955.8	935.8
12.5°	1132.4	1128.8	1126.7	1113.1	1110.1	1091.6	1068.0	1050.4	1020.0	994.8	968.2
15°	1234.0	1227.0	1222.5	1203.9	1194.7	1169.0	1143.9	1124.5	1084.9	1047.2	1018.6
17.5°	1293.6	1300.6	1290.3	1282.6	1258.8	1240.8	1215.2	1174.6	1143.5	1096.7	1060.6
20°	1336.8	1337.4	1331.7	1323.7	1305.0	1282.2	1254.3	1209.9	1172.7	1126.1	1076.6
22.5°	1348.4	1348.6	1346.1	1338.7	1324.5	1306.0	1277.9	1240.8	1195.9	1145.2	1095.7
25°	1310.1	1308.9	1311.7	1320.0	1314.6	1308.9	1292.7	1265.1	1223.2	1169.5	1116.3
27.5°	1167.8	1176.5	1192.6	1212.9	1232.5	1247.3	1251.6	1245.9	1219.9	1175.8	1120.1
30°	1065.2	1076.0	1088.0	1108.4	1147.7	1170.2	1195.0	1213.7	1203.2	1168.0	1116.0
32.5°	952.5	955.2	973.1	996.2	1032.3	1075.5	1114.8	1152.8	1165.4	1147.0	1103.5
35°	774.6	779.1	798.4	821.3	865.4	918.4	977.4	1030.0	1073.5	1091.0	1068.7
37.5°	632.2	644.9	658.5	683.1	721.9	769.6	831.0	899.0	963.8	1007.2	1014.6
40°	564.7	572.6	582.4	601.1	634.1	681.1	733.7	811.8	880.6	942.8	963.1
42.5°	511.4	516.0	522.0	538.9	564.1	610.7	658.8	727.5	796.6	871.0	905.0
45°	434.6	439.4	449.5	459.3	478.3	510.7	555.5	611.9	681.3	753.1	815.9
47.5°	379.1	382.2	388.2	398.8	414.9	436.3	472.6	519.8	584.2	653.8	720.7
50°	347.6	350.2	355.0	364.5	376.8	395.9	425.7	469.8	520.2	590.4	656.0
52.5°	322.8	323.8	327.3	333.8	343.6	359.6	384.1	420.5	467.5	529.9	595.3
55°	284.2	285.5	288.7	293.4	302.0	312.2	330.8	358.2	399.1	453.3	510.1
57.5°	252.5	253.4	256.1	257.9	265.0	273.2	287.6	307.0	338.1	384.1	434.8
60°	232.2	231.5	234.7	236.4	241.1	248.1	259.2	277.9	304.8	341.9	388.6
62.5°	212.4	211.5	214.2	216.3	219.0	224.9	234.1	248.7	270.6	304.2	344.5
65°	182.7	181.5	183.0	185.6	188.1	191.3	198.0	210.9	228.4	252.5	283.2
67.5°	152.9	154.3	154.5	155.7	157.2	161.5	166.1	175.3	187.6	206.9	232.9
70°	135.1	135.4	136.7	136.7	137.7	141.5	145.3	150.7	162.7	180.5	201.8
72.5°	117.4	118.7	118.2	119.2	119.9	122.5	125.2	130.4	140.6	153.8	171.8
75°	91.4	92.3	92.3	92.6	93.6	94.5	96.8	100.5	107.9	117.6	130.0
77.5°	66.6	66.8	67.2	68.3	68.3	69.9	71.5	74.5	78.2	84.9	92.5
80°	51.4	52.0	51.7	52.3	52.3	53.6	54.2	58.0	59.6	64.1	70.1
82.5°	37.7	38.3	38.2	39.1	39.6	39.9	40.8	42.3	43.9	47.9	50.3
85°	19.0	19.6	19.0	19.6	20.6	21.0	21.9	22.2	23.5	24.5	26.7
87.5°	8.4	9.1	9.0	9.3	9.7	9.9	10.0	9.6	10.5	10.7	11.5
90°	13.9	13.8	13.5	13.4	13.1	12.7	12.1	11.5	10.8	10.2	9.4
92.5°	20.6	20.5	20.4	20.3	20.1	19.9	19.6	19.2	18.8	18.4	17.9
95°	36.8	36.8	36.8	36.8	36.8	36.6	36.3	36.0	35.6	35.3	34.7
97.5°	57.6	57.6	57.6	57.6	57.6	57.4	57.0	56.7	56.3	55.9	55.0
100°	72.1	72.1	72.1	72.1	72.1	72.0	71.7	71.6	71.3	71.2	70.2
102.5°	88.5	88.4	88.3	88.2	88.1	87.9	87.6	87.3	87.1	86.7	85.9
105°	113.5	113.2	112.8	112.5	112.2	111.9	111.6	111.3	111.0	110.6	110.2
107.5°	137.9	137.9	137.9	137.9	137.9	137.8	137.5	137.2	136.9	136.6	136.6
110°	155.3	155.0	154.7	154.4	154.1	154.0	154.3	154.4	154.7	154.8	155.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	173.2	173.1	173.0	173.0	172.9	172.9	172.9	173.0	173.0	173.1	173.3
115°	200.9	201.0	201.1	201.2	201.3	201.4	201.5	201.6	201.7	201.8	202.0
117.5°	227.3	227.5	227.7	227.9	228.1	228.4	228.8	229.1	229.4	229.8	229.9
120°	247.4	247.2	247.0	246.8	246.5	246.7	247.2	247.8	248.3	248.7	249.1
122.5°	264.2	264.5	264.9	265.2	265.6	266.0	266.4	266.7	267.0	267.4	267.5
125°	292.9	293.2	293.3	293.6	293.8	294.0	294.2	294.4	294.6	294.8	294.9
127.5°	319.7	319.8	320.0	320.2	320.3	320.5	320.7	320.9	321.1	321.3	321.5
130°	337.1	337.5	337.9	338.3	338.8	339.1	339.3	339.5	339.7	339.9	339.9
132.5°	355.7	355.9	356.0	356.2	356.4	356.6	356.8	357.0	357.2	357.4	357.5
135°	381.3	381.6	381.9	382.2	382.5	382.8	383.0	383.2	383.4	383.6	383.6
137.5°	408.2	408.1	408.1	408.0	407.9	408.1	408.3	408.5	408.9	409.1	409.0
140°	424.5	424.7	424.8	424.9	424.9	425.1	425.2	425.3	425.3	425.5	425.5
142.5°	440.9	440.9	441.0	441.0	441.0	441.0	441.1	441.1	441.1	441.1	441.2
145°	463.2	463.4	463.7	464.1	464.4	464.6	464.7	464.8	464.9	465.0	464.9
147.5°	485.7	485.8	485.8	486.0	486.1	486.2	486.2	486.3	486.4	486.5	486.6
150°	499.5	499.5	499.6	499.7	499.9	499.9	499.9	499.9	499.9	499.9	499.9
152.5°	512.1	512.3	512.6	512.9	513.1	513.1	512.9	512.7	512.4	512.2	512.1
155°	529.6	530.0	530.4	530.8	531.3	531.3	530.8	530.4	530.0	529.6	529.8
157.5°	545.4	545.7	546.1	546.4	546.7	546.8	546.5	546.2	545.8	545.5	545.6
160°	554.3	554.8	555.3	555.9	556.4	556.4	556.1	555.9	555.5	555.2	555.3
162.5°	563.6	564.1	564.6	565.2	565.7	565.7	565.1	564.5	563.9	563.4	563.5
165°	575.7	576.1	576.5	576.9	577.3	577.2	576.6	576.0	575.4	574.8	574.9
167.5°	584.3	585.0	585.6	586.3	586.9	586.9	586.3	585.6	585.1	584.4	584.4
170°	589.1	589.9	590.6	591.3	592.1	592.1	591.5	590.8	590.3	589.6	589.5
172.5°	593.3	593.9	594.7	595.4	596.1	596.1	595.5	594.8	594.0	593.4	593.3
175°	597.5	598.3	599.0	599.7	600.4	600.4	599.7	599.0	598.3	597.5	597.6
177.5°	599.7	600.4	601.1	601.8	602.4	602.4	601.9	601.3	600.7	600.1	600.1
180°	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7
2.5°	790.4	786.8	784.3	782.3	776.7	773.4	770.9	767.3	763.2	758.9	753.6
5°	835.3	824.4	816.5	804.5	793.0	783.5	773.7	764.8	754.0	742.3	733.7
7.5°	882.4	866.3	845.8	827.9	807.9	790.4	774.9	758.9	742.2	726.1	711.3
10°	912.3	891.7	868.9	841.9	816.5	794.0	773.1	752.8	733.1	713.4	696.6
12.5°	944.5	918.8	885.1	853.5	825.2	795.0	769.7	744.9	721.1	700.5	680.9
15°	987.8	950.7	911.7	869.5	832.1	796.9	762.3	730.8	704.3	676.9	657.9
17.5°	1014.4	968.5	923.9	879.8	834.5	790.0	752.8	716.6	683.1	656.1	632.1
20°	1031.9	986.3	930.7	886.6	832.7	787.0	743.9	703.6	668.7	639.8	615.1
22.5°	1047.2	994.3	938.8	880.8	827.1	778.6	731.4	690.9	655.3	624.8	601.1
25°	1055.4	994.8	934.5	876.8	815.9	758.5	715.7	668.1	630.0	597.9	572.6
27.5°	1056.3	991.5	923.3	859.2	796.3	742.8	688.8	646.2	606.7	572.8	548.5
30°	1053.4	985.9	912.6	843.2	780.1	721.9	675.1	628.8	588.4	554.8	529.5
32.5°	1044.6	974.2	898.9	825.4	760.0	703.2	654.8	610.7	571.4	538.3	511.7
35°	1018.9	949.4	869.2	792.7	725.8	668.4	624.6	579.8	540.5	509.2	483.5
37.5°	978.8	915.9	834.4	755.2	689.5	631.9	588.4	548.0	512.6	480.6	454.3
40°	943.7	888.5	806.7	729.6	658.5	603.6	563.0	525.9	490.7	460.6	435.5
42.5°	903.4	855.2	779.8	698.1	629.6	574.5	534.9	501.6	468.4	440.6	415.5
45°	831.4	799.7	728.6	653.1	581.8	529.8	492.0	462.8	434.9	407.6	386.7
47.5°	748.7	733.0	673.1	601.4	533.7	482.4	449.7	422.7	398.3	375.1	356.7
50°	693.1	685.5	633.8	564.7	499.9	451.8	418.7	395.6	374.6	354.3	336.9
52.5°	638.3	638.1	591.4	528.1	468.2	421.8	389.1	367.4	349.3	332.7	317.1
55°	554.5	563.4	526.9	470.4	416.9	375.0	345.4	326.1	313.4	299.8	288.0
57.5°	477.5	492.3	462.2	412.5	367.7	329.1	303.5	288.9	275.4	267.2	258.6
60°	427.3	441.2	417.8	375.9	333.7	300.7	276.3	263.3	251.5	245.8	239.8
62.5°	382.6	395.1	377.6	338.8	302.2	270.5	249.9	237.4	229.5	223.2	219.2
65°	318.8	329.3	314.4	286.2	254.7	229.3	212.5	202.7	195.1	192.6	188.1
67.5°	257.7	267.3	259.2	235.2	210.0	190.8	177.7	168.2	163.7	161.4	158.3
70°	221.4	231.0	222.3	201.5	182.1	165.9	153.5	148.1	143.4	142.4	138.0
72.5°	190.7	197.2	188.6	172.3	155.7	142.0	132.5	126.9	124.3	122.6	120.3
75°	143.1	148.8	143.1	130.4	118.6	109.1	100.9	98.7	95.8	94.8	93.3
77.5°	101.3	106.2	101.8	93.9	85.1	77.8	73.4	70.5	69.9	68.2	69.0
80°	77.4	80.6	76.5	71.1	64.1	59.0	55.8	54.2	52.3	51.7	53.0
82.5°	55.6	57.0	54.9	51.3	46.1	42.7	40.6	38.7	38.4	38.5	38.5
85°	28.9	28.5	28.2	25.0	23.5	21.3	20.0	19.6	19.3	20.0	20.6
87.5°	11.3	11.4	11.0	9.8	8.8	7.8	7.3	6.8	7.3	7.8	8.3
90°	8.6	7.7	6.9	6.0	4.8	3.7	2.5	1.4	2.5	3.7	4.8
92.5°	17.3	16.7	16.1	15.2	13.9	12.6	11.3	9.9	11.3	12.6	13.9
95°	33.9	33.2	32.4	31.6	30.7	29.8	28.9	27.9	28.9	29.8	30.7
97.5°	54.2	53.3	52.5	51.7	51.0	50.2	49.5	48.8	49.5	50.2	51.0
100°	69.3	68.3	67.4	66.8	66.4	66.0	65.6	65.1	65.6	66.0	66.4
102.5°	85.0	84.2	83.4	82.8	82.7	82.5	82.3	82.2	82.3	82.5	82.7
105°	109.8	109.4	109.0	108.8	108.7	108.5	108.4	108.4	108.4	108.5	108.7
107.5°	136.5	136.4	136.4	136.3	136.2	136.0	135.9	135.7	135.9	136.0	136.2
110°	155.1	155.2	155.2	155.2	155.0	154.8	154.6	154.4	154.6	154.8	155.0





TEST NUMBER: P332545-930

CATALOG NUMBER: SA4XXDIP-C575D590U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	173.4	173.7	173.8	173.9	173.8	173.8	173.7	173.7	173.7	173.8	173.8
115°	202.2	202.4	202.6	202.8	202.8	202.8	202.8	202.8	202.8	202.8	202.8
117.5°	230.1	230.2	230.4	230.4	230.3	230.2	230.2	230.1	230.2	230.2	230.3
120°	249.4	249.7	250.1	250.0	249.6	249.2	248.7	248.3	248.7	249.2	249.6
122.5°	267.7	267.8	268.0	267.9	267.7	267.6	267.4	267.3	267.4	267.6	267.7
125°	295.1	295.1	295.2	295.3	295.3	295.3	295.3	295.3	295.3	295.3	295.3
127.5°	321.6	321.8	322.0	321.9	321.6	321.3	321.0	320.7	321.0	321.3	321.6
130°	339.9	339.9	339.9	339.7	339.5	339.2	338.8	338.5	338.8	339.2	339.5
132.5°	357.6	357.7	357.8	357.7	357.4	357.2	357.0	356.8	357.0	357.2	357.4
135°	383.6	383.6	383.6	383.4	382.7	382.0	381.5	380.8	381.5	382.0	382.7
137.5°	408.8	408.6	408.5	408.2	407.9	407.6	407.3	407.1	407.3	407.6	407.9
140°	425.5	425.5	425.5	425.3	425.2	424.9	424.8	424.5	424.8	424.9	425.2
142.5°	441.2	441.3	441.4	441.4	441.2	441.0	440.8	440.5	440.8	441.0	441.2
145°	464.8	464.7	464.6	464.3	463.9	463.5	463.1	462.7	463.1	463.5	463.9
147.5°	486.7	486.7	486.8	486.7	486.1	485.6	485.1	484.6	485.1	485.6	486.1
150°	499.9	499.9	499.9	499.7	499.3	498.9	498.5	498.0	498.5	498.9	499.3
152.5°	512.0	511.9	511.8	511.7	511.4	511.2	510.9	510.7	510.9	511.2	511.4
155°	529.9	529.9	530.0	530.1	530.1	530.1	530.1	530.1	530.1	530.1	530.1
157.5°	545.6	545.6	545.6	545.8	545.9	546.1	546.3	546.5	546.3	546.1	545.9
160°	555.5	555.5	555.6	555.7	555.9	556.0	556.0	556.1	556.0	556.0	555.9
162.5°	563.6	563.7	563.8	564.0	564.3	564.5	564.8	565.1	564.8	564.5	564.3
165°	575.2	575.4	575.6	575.8	576.2	576.4	576.7	577.1	576.7	576.4	576.2
167.5°	584.4	584.3	584.3	584.6	585.0	585.4	585.9	586.3	585.9	585.4	585.0
170°	589.4	589.3	589.2	589.4	590.0	590.4	591.0	591.5	591.0	590.4	590.0
172.5°	593.3	593.3	593.3	593.5	593.9	594.4	594.8	595.2	594.8	594.4	593.9
175°	597.8	597.9	597.9	598.3	598.8	599.3	599.8	600.3	599.8	599.3	598.8
177.5°	600.1	600.1	600.1	600.3	600.8	601.2	601.6	602.0	601.6	601.2	600.8
180°	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3



TEST NUMBER: P332545-930

CATALOG NUMBER: SA4XXDIP-C575D590U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7
2.5°	751.1	748.8	745.4	740.9	737.1	733.0	732.0	730.5	733.5	731.0	730.3
5°	726.4	719.7	711.2	701.4	695.7	687.4	685.8	682.7	679.5	679.1	676.0
7.5°	700.3	690.6	679.4	669.4	660.1	651.1	645.1	643.9	639.2	636.5	633.3
10°	683.6	671.6	658.5	649.1	638.2	628.8	622.1	618.2	615.1	611.6	608.5
12.5°	663.8	651.0	640.3	630.0	617.2	609.9	599.0	592.4	591.7	591.8	583.6
15°	640.7	628.1	611.6	597.0	590.0	576.1	570.1	562.4	557.7	552.9	549.1
17.5°	614.5	598.7	585.8	569.0	555.7	544.6	536.6	532.1	525.0	518.2	513.3
20°	597.9	581.1	567.5	549.8	535.2	521.5	514.9	508.5	503.1	497.4	492.0
22.5°	581.2	563.6	547.0	529.7	516.1	501.7	495.3	486.7	481.5	478.3	473.0
25°	554.8	535.8	516.7	500.3	486.3	473.6	465.0	458.4	452.7	450.1	446.6
27.5°	526.1	507.2	488.9	470.1	454.3	445.1	438.2	433.2	429.9	426.6	424.9
30°	507.8	488.2	468.6	451.1	436.5	427.3	420.9	417.4	414.9	413.4	411.7
32.5°	489.3	469.9	449.2	433.3	420.3	412.1	407.2	403.7	402.5	401.9	401.4
35°	459.7	440.0	420.9	406.7	394.3	391.1	387.0	385.1	384.5	386.7	387.7
37.5°	430.9	412.6	395.1	381.3	373.2	368.5	367.1	367.2	369.5	371.5	373.7
40°	412.4	394.6	378.1	366.1	358.5	355.6	355.0	356.5	359.1	361.3	363.9
42.5°	394.4	376.8	361.9	350.6	345.3	342.7	343.1	344.6	348.2	350.9	354.7
45°	366.4	351.8	337.2	328.0	323.6	324.2	324.2	327.0	330.5	334.7	338.8
47.5°	340.1	325.3	313.3	305.6	303.3	302.7	304.5	308.3	313.3	318.4	324.2
50°	322.3	308.3	297.8	290.9	288.4	289.3	291.9	295.3	301.3	307.7	313.7
52.5°	304.3	291.6	281.8	275.4	273.6	275.3	277.9	283.4	288.7	295.5	302.8
55°	276.3	265.5	257.9	253.2	252.5	253.5	256.3	262.4	269.9	278.5	285.5
57.5°	248.4	239.5	232.4	229.2	229.5	230.4	235.1	242.2	250.4	259.5	268.5
60°	229.7	221.4	215.7	213.2	213.5	215.4	221.1	227.8	237.9	246.8	256.3
62.5°	211.9	204.6	199.2	196.9	196.5	200.6	206.1	213.0	223.2	233.1	243.4
65°	183.4	177.7	173.2	171.9	172.8	176.0	183.0	192.2	200.8	211.2	222.1
67.5°	155.4	150.7	147.7	148.3	149.4	154.1	160.0	167.9	177.6	188.4	199.1
70°	137.7	133.2	130.7	131.0	132.9	138.6	143.7	151.6	162.1	173.2	182.1
72.5°	119.4	116.5	114.2	115.5	117.4	121.4	127.7	135.7	144.9	155.2	164.6
75°	91.6	91.6	90.4	91.4	94.2	98.0	102.8	111.0	120.3	128.5	136.1
77.5°	68.0	67.3	68.2	69.3	70.9	75.4	80.9	86.8	93.7	102.0	108.3
80°	52.0	52.3	53.9	55.8	56.5	59.9	65.6	71.1	76.5	83.4	89.4
82.5°	39.1	39.4	40.2	42.6	43.3	47.0	50.7	56.1	61.0	65.6	70.7
85°	21.3	21.3	22.8	23.8	25.4	27.9	30.2	33.3	37.7	40.9	45.7
87.5°	9.3	9.5	10.7	11.3	12.3	13.7	14.3	17.3	18.4	19.8	22.2
90°	6.0	6.9	7.7	8.6	9.4	10.2	10.8	11.5	12.1	12.7	13.1
92.5°	15.2	16.1	16.7	17.3	17.9	18.4	18.8	19.2	19.6	19.9	20.1
95°	31.6	32.4	33.2	33.9	34.7	35.3	35.6	36.0	36.3	36.6	36.8
97.5°	51.7	52.5	53.3	54.2	55.0	55.9	56.3	56.7	57.0	57.4	57.6
100°	66.8	67.4	68.3	69.3	70.2	71.2	71.3	71.6	71.7	72.0	72.1
102.5°	82.8	83.4	84.2	85.0	85.9	86.7	87.1	87.3	87.6	87.9	88.1
105°	108.8	109.0	109.4	109.8	110.2	110.6	111.0	111.3	111.6	111.9	112.2
107.5°	136.3	136.4	136.4	136.5	136.6	136.6	136.9	137.2	137.5	137.8	137.9
110°	155.2	155.2	155.2	155.1	155.0	154.8	154.7	154.4	154.3	154.0	154.1



TEST NUMBER: P332545-930

CATALOG NUMBER: SA4XXDIP-C575D590U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	173.9	173.8	173.7	173.4	173.3	173.1	173.0	173.0	172.9	172.9	172.9
115°	202.8	202.6	202.4	202.2	202.0	201.8	201.7	201.6	201.5	201.4	201.3
117.5°	230.4	230.4	230.2	230.1	229.9	229.8	229.4	229.1	228.8	228.4	228.1
120°	250.0	250.1	249.7	249.4	249.1	248.7	248.3	247.8	247.2	246.7	246.5
122.5°	267.9	268.0	267.8	267.7	267.5	267.4	267.0	266.7	266.4	266.0	265.6
125°	295.3	295.2	295.1	295.1	294.9	294.8	294.6	294.4	294.2	294.0	293.8
127.5°	321.9	322.0	321.8	321.6	321.5	321.3	321.1	320.9	320.7	320.5	320.3
130°	339.7	339.9	339.9	339.9	339.9	339.9	339.7	339.5	339.3	339.1	338.8
132.5°	357.7	357.8	357.7	357.6	357.5	357.4	357.2	357.0	356.8	356.6	356.4
135°	383.4	383.6	383.6	383.6	383.6	383.6	383.4	383.2	383.0	382.8	382.5
137.5°	408.2	408.5	408.6	408.8	409.0	409.1	408.9	408.5	408.3	408.1	407.9
140°	425.3	425.5	425.5	425.5	425.5	425.5	425.3	425.3	425.2	425.1	424.9
142.5°	441.4	441.4	441.3	441.2	441.2	441.1	441.1	441.1	441.1	441.0	441.0
145°	464.3	464.6	464.7	464.8	464.9	465.0	464.9	464.8	464.7	464.6	464.4
147.5°	486.7	486.8	486.7	486.7	486.6	486.5	486.4	486.3	486.2	486.2	486.1
150°	499.7	499.9	499.9	499.9	499.9	499.9	499.9	499.9	499.9	499.9	499.9
152.5°	511.7	511.8	511.9	512.0	512.1	512.2	512.4	512.7	512.9	513.1	513.1
155°	530.1	530.0	529.9	529.9	529.8	529.6	530.0	530.4	530.8	531.3	531.3
157.5°	545.8	545.6	545.6	545.6	545.6	545.5	545.8	546.2	546.5	546.8	546.7
160°	555.7	555.6	555.5	555.5	555.3	555.2	555.5	555.9	556.1	556.4	556.4
162.5°	564.0	563.8	563.7	563.6	563.5	563.4	563.9	564.5	565.1	565.7	565.7
165°	575.8	575.6	575.4	575.2	574.9	574.8	575.4	576.0	576.6	577.2	577.3
167.5°	584.6	584.3	584.3	584.4	584.4	584.4	585.1	585.6	586.3	586.9	586.9
170°	589.4	589.2	589.3	589.4	589.5	589.6	590.3	590.8	591.5	592.1	592.1
172.5°	593.5	593.3	593.3	593.3	593.3	593.4	594.0	594.8	595.5	596.1	596.1
175°	598.3	597.9	597.9	597.8	597.6	597.5	598.3	599.0	599.7	600.4	600.4
177.5°	600.3	600.1	600.1	600.1	600.1	600.1	600.7	601.3	601.9	602.4	602.4
180°	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3



TEST NUMBER: P332545-930

CATALOG NUMBER: SA4XXDIP-C575D590U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7
2.5°	729.7	729.2	727.4	727.2	727.4	729.2	729.7	730.3	731.0	733.5	730.5
5°	674.1	672.5	671.6	675.1	671.6	672.5	674.1	676.0	679.1	679.5	682.7
7.5°	632.2	630.9	628.1	627.2	628.1	630.9	632.2	633.3	636.5	639.2	643.9
10°	605.3	604.0	601.4	600.8	601.4	604.0	605.3	608.5	611.6	615.1	618.2
12.5°	579.4	576.8	576.3	577.0	576.3	576.8	579.4	583.6	591.8	591.7	592.4
15°	544.9	543.7	540.2	541.2	540.2	543.7	544.9	549.1	552.9	557.7	562.4
17.5°	511.1	509.6	505.3	509.1	505.3	509.6	511.1	513.3	518.2	525.0	532.1
20°	489.8	487.2	485.0	484.7	485.0	487.2	489.8	492.0	497.4	503.1	508.5
22.5°	469.4	467.2	467.0	464.9	467.0	467.2	469.4	473.0	478.3	481.5	486.7
25°	444.1	441.9	441.2	439.7	441.2	441.9	444.1	446.6	450.1	452.7	458.4
27.5°	424.6	423.5	422.4	422.9	422.4	423.5	424.6	424.9	426.6	429.9	433.2
30°	412.7	412.4	411.7	411.7	411.7	412.4	412.7	411.7	413.4	414.9	417.4
32.5°	402.8	402.8	403.1	403.1	403.1	402.8	402.8	401.4	401.9	402.5	403.7
35°	388.9	389.9	390.5	389.6	390.5	389.9	388.9	387.7	386.7	384.5	385.1
37.5°	376.3	377.3	378.2	379.3	378.2	377.3	376.3	373.7	371.5	369.5	367.2
40°	366.7	368.9	369.6	371.1	369.6	368.9	366.7	363.9	361.3	359.1	356.5
42.5°	357.6	360.0	361.7	362.0	361.7	360.0	357.6	354.7	350.9	348.2	344.6
45°	343.6	346.1	348.3	348.3	348.3	346.1	343.6	338.8	334.7	330.5	327.0
47.5°	329.1	332.7	334.9	335.5	334.9	332.7	329.1	324.2	318.4	313.3	308.3
50°	319.1	323.6	325.8	327.3	325.8	323.6	319.1	313.7	307.7	301.3	295.3
52.5°	309.5	313.9	316.9	317.7	316.9	313.9	309.5	302.8	295.5	288.7	283.4
55°	292.8	299.1	302.6	303.9	302.6	299.1	292.8	285.5	278.5	269.9	262.4
57.5°	277.0	282.9	287.0	287.9	287.0	282.9	277.0	268.5	259.5	250.4	242.2
60°	264.9	271.3	276.3	277.3	276.3	271.3	264.9	256.3	246.8	237.9	227.8
62.5°	252.4	259.0	263.6	266.1	263.6	259.0	252.4	243.4	233.1	223.2	213.0
65°	231.0	237.6	242.1	243.0	242.1	237.6	231.0	222.1	211.2	200.8	192.2
67.5°	207.5	214.1	217.0	218.9	217.0	214.1	207.5	199.1	188.4	177.6	167.9
70°	190.9	196.3	199.5	201.1	199.5	196.3	190.9	182.1	173.2	162.1	151.6
72.5°	172.2	177.8	181.5	181.8	181.5	177.8	172.2	164.6	155.2	144.9	135.7
75°	143.4	148.5	150.3	150.3	150.3	148.5	143.4	136.1	128.5	120.3	111.0
77.5°	113.5	116.1	118.5	119.0	118.5	116.1	113.5	108.3	102.0	93.7	86.8
80°	94.2	95.8	97.7	97.7	97.7	95.8	94.2	89.4	83.4	76.5	71.1
82.5°	74.4	75.7	77.6	77.4	77.6	75.7	74.4	70.7	65.6	61.0	56.1
85°	45.0	47.9	47.6	47.0	47.6	47.9	45.0	45.7	40.9	37.7	33.3
87.5°	23.0	23.2	24.1	24.6	24.1	23.2	23.0	22.2	19.8	18.4	17.3
90°	13.4	13.5	13.8	13.9	13.8	13.5	13.4	13.1	12.7	12.1	11.5
92.5°	20.3	20.4	20.5	20.6	20.5	20.4	20.3	20.1	19.9	19.6	19.2
95°	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.6	36.3	36.0
97.5°	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.4	57.0	56.7
100°	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.0	71.7	71.6
102.5°	88.2	88.3	88.4	88.5	88.4	88.3	88.2	88.1	87.9	87.6	87.3
105°	112.5	112.8	113.2	113.5	113.2	112.8	112.5	112.2	111.9	111.6	111.3
107.5°	137.9	137.9	137.9	137.9	137.9	137.9	137.9	137.9	137.8	137.5	137.2
110°	154.4	154.7	155.0	155.3	155.0	154.7	154.4	154.1	154.0	154.3	154.4



TEST NUMBER: P332545-930

CATALOG NUMBER: SA4XXDIP-C575D590U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	173.0	173.0	173.1	173.2	173.1	173.0	173.0	172.9	172.9	172.9	173.0
115°	201.2	201.1	201.0	200.9	201.0	201.1	201.2	201.3	201.4	201.5	201.6
117.5°	227.9	227.7	227.5	227.3	227.5	227.7	227.9	228.1	228.4	228.8	229.1
120°	246.8	247.0	247.2	247.4	247.2	247.0	246.8	246.5	246.7	247.2	247.8
122.5°	265.2	264.9	264.5	264.2	264.5	264.9	265.2	265.6	266.0	266.4	266.7
125°	293.6	293.3	293.2	292.9	293.2	293.3	293.6	293.8	294.0	294.2	294.4
127.5°	320.2	320.0	319.8	319.7	319.8	320.0	320.2	320.3	320.5	320.7	320.9
130°	338.3	337.9	337.5	337.1	337.5	337.9	338.3	338.8	339.1	339.3	339.5
132.5°	356.2	356.0	355.9	355.7	355.9	356.0	356.2	356.4	356.6	356.8	357.0
135°	382.2	381.9	381.6	381.3	381.6	381.9	382.2	382.5	382.8	383.0	383.2
137.5°	408.0	408.1	408.1	408.2	408.1	408.1	408.0	407.9	408.1	408.3	408.5
140°	424.9	424.8	424.7	424.5	424.7	424.8	424.9	424.9	425.1	425.2	425.3
142.5°	441.0	441.0	440.9	440.9	440.9	441.0	441.0	441.0	441.0	441.1	441.1
145°	464.1	463.7	463.4	463.2	463.4	463.7	464.1	464.4	464.6	464.7	464.8
147.5°	486.0	485.8	485.8	485.7	485.8	485.8	486.0	486.1	486.2	486.2	486.3
150°	499.7	499.6	499.5	499.5	499.5	499.6	499.7	499.9	499.9	499.9	499.9
152.5°	512.9	512.6	512.3	512.1	512.3	512.6	512.9	513.1	513.1	512.9	512.7
155°	530.8	530.4	530.0	529.6	530.0	530.4	530.8	531.3	531.3	530.8	530.4
157.5°	546.4	546.1	545.7	545.4	545.7	546.1	546.4	546.7	546.8	546.5	546.2
160°	555.9	555.3	554.8	554.3	554.8	555.3	555.9	556.4	556.4	556.1	555.9
162.5°	565.2	564.6	564.1	563.6	564.1	564.6	565.2	565.7	565.7	565.1	564.5
165°	576.9	576.5	576.1	575.7	576.1	576.5	576.9	577.3	577.2	576.6	576.0
167.5°	586.3	585.6	585.0	584.3	585.0	585.6	586.3	586.9	586.9	586.3	585.6
170°	591.3	590.6	589.9	589.1	589.9	590.6	591.3	592.1	592.1	591.5	590.8
172.5°	595.4	594.7	593.9	593.3	593.9	594.7	595.4	596.1	596.1	595.5	594.8
175°	599.7	599.0	598.3	597.5	598.3	599.0	599.7	600.4	600.4	599.7	599.0
177.5°	601.8	601.1	600.4	599.7	600.4	601.1	601.8	602.4	602.4	601.9	601.3
180°	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3



TEST NUMBER: P332545-930

CATALOG NUMBER: SA4XXDIP-C575D590U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7
2.5°	732.0	733.0	737.1	740.9	745.4	748.8	751.1	753.6	758.9	763.2	767.3
5°	685.8	687.4	695.7	701.4	711.2	719.7	726.4	733.7	742.3	754.0	764.8
7.5°	645.1	651.1	660.1	669.4	679.4	690.6	700.3	711.3	726.1	742.2	758.9
10°	622.1	628.8	638.2	649.1	658.5	671.6	683.6	696.6	713.4	733.1	752.8
12.5°	599.0	609.9	617.2	630.0	640.3	651.0	663.8	680.9	700.5	721.1	744.9
15°	570.1	576.1	590.0	597.0	611.6	628.1	640.7	657.9	676.9	704.3	730.8
17.5°	536.6	544.6	555.7	569.0	585.8	598.7	614.5	632.1	656.1	683.1	716.6
20°	514.9	521.5	535.2	549.8	567.5	581.1	597.9	615.1	639.8	668.7	703.6
22.5°	495.3	501.7	516.1	529.7	547.0	563.6	581.2	601.1	624.8	655.3	690.9
25°	465.0	473.6	486.3	500.3	516.7	535.8	554.8	572.6	597.9	630.0	668.1
27.5°	438.2	445.1	454.3	470.1	488.9	507.2	526.1	548.5	572.8	606.7	646.2
30°	420.9	427.3	436.5	451.1	468.6	488.2	507.8	529.5	554.8	588.4	628.8
32.5°	407.2	412.1	420.3	433.3	449.2	469.9	489.3	511.7	538.3	571.4	610.7
35°	387.0	391.1	394.3	406.7	420.9	440.0	459.7	483.5	509.2	540.5	579.8
37.5°	367.1	368.5	373.2	381.3	395.1	412.6	430.9	454.3	480.6	512.6	548.0
40°	355.0	355.6	358.5	366.1	378.1	394.6	412.4	435.5	460.6	490.7	525.9
42.5°	343.1	342.7	345.3	350.6	361.9	376.8	394.4	415.5	440.6	468.4	501.6
45°	324.2	324.2	323.6	328.0	337.2	351.8	366.4	386.7	407.6	434.9	462.8
47.5°	304.5	302.7	303.3	305.6	313.3	325.3	340.1	356.7	375.1	398.3	422.7
50°	291.9	289.3	288.4	290.9	297.8	308.3	322.3	336.9	354.3	374.6	395.6
52.5°	277.9	275.3	273.6	275.4	281.8	291.6	304.3	317.1	332.7	349.3	367.4
55°	256.3	253.5	252.5	253.2	257.9	265.5	276.3	288.0	299.8	313.4	326.1
57.5°	235.1	230.4	229.5	229.2	232.4	239.5	248.4	258.6	267.2	275.4	288.9
60°	221.1	215.4	213.5	213.2	215.7	221.4	229.7	239.8	245.8	251.5	263.3
62.5°	206.1	200.6	196.5	196.9	199.2	204.6	211.9	219.2	223.2	229.5	237.4
65°	183.0	176.0	172.8	171.9	173.2	177.7	183.4	188.1	192.6	195.1	202.7
67.5°	160.0	154.1	149.4	148.3	147.7	150.7	155.4	158.3	161.4	163.7	168.2
70°	143.7	138.6	132.9	131.0	130.7	133.2	137.7	138.0	142.4	143.4	148.1
72.5°	127.7	121.4	117.4	115.5	114.2	116.5	119.4	120.3	122.6	124.3	126.9
75°	102.8	98.0	94.2	91.4	90.4	91.6	91.6	93.3	94.8	95.8	98.7
77.5°	80.9	75.4	70.9	69.3	68.2	67.3	68.0	69.0	68.2	69.9	70.5
80°	65.6	59.9	56.5	55.8	53.9	52.3	52.0	53.0	51.7	52.3	54.2
82.5°	50.7	47.0	43.3	42.6	40.2	39.4	39.1	38.5	38.5	38.4	38.7
85°	30.2	27.9	25.4	23.8	22.8	21.3	21.3	20.6	20.0	19.3	19.6
87.5°	14.3	13.7	12.3	11.3	10.7	9.5	9.3	8.3	7.8	7.3	6.8
90°	10.8	10.2	9.4	8.6	7.7	6.9	6.0	4.8	3.7	2.5	1.4
92.5°	18.8	18.4	17.9	17.3	16.7	16.1	15.2	13.9	12.6	11.3	9.9
95°	35.6	35.3	34.7	33.9	33.2	32.4	31.6	30.7	29.8	28.9	27.9
97.5°	56.3	55.9	55.0	54.2	53.3	52.5	51.7	51.0	50.2	49.5	48.8
100°	71.3	71.2	70.2	69.3	68.3	67.4	66.8	66.4	66.0	65.6	65.1
102.5°	87.1	86.7	85.9	85.0	84.2	83.4	82.8	82.7	82.5	82.3	82.2
105°	111.0	110.6	110.2	109.8	109.4	109.0	108.8	108.7	108.5	108.4	108.4
107.5°	136.9	136.6	136.6	136.5	136.4	136.4	136.3	136.2	136.0	135.9	135.7
110°	154.7	154.8	155.0	155.1	155.2	155.2	155.2	155.0	154.8	154.6	154.4



TEST NUMBER: P332545-930

CATALOG NUMBER: SA4XXDIP-C575D590U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	173.0	173.1	173.3	173.4	173.7	173.8	173.9	173.8	173.8	173.7	173.7
115°	201.7	201.8	202.0	202.2	202.4	202.6	202.8	202.8	202.8	202.8	202.8
117.5°	229.4	229.8	229.9	230.1	230.2	230.4	230.4	230.3	230.2	230.2	230.1
120°	248.3	248.7	249.1	249.4	249.7	250.1	250.0	249.6	249.2	248.7	248.3
122.5°	267.0	267.4	267.5	267.7	267.8	268.0	267.9	267.7	267.6	267.4	267.3
125°	294.6	294.8	294.9	295.1	295.1	295.2	295.3	295.3	295.3	295.3	295.3
127.5°	321.1	321.3	321.5	321.6	321.8	322.0	321.9	321.6	321.3	321.0	320.7
130°	339.7	339.9	339.9	339.9	339.9	339.9	339.7	339.5	339.2	338.8	338.5
132.5°	357.2	357.4	357.5	357.6	357.7	357.8	357.7	357.4	357.2	357.0	356.8
135°	383.4	383.6	383.6	383.6	383.6	383.6	383.4	382.7	382.0	381.5	380.8
137.5°	408.9	409.1	409.0	408.8	408.6	408.5	408.2	407.9	407.6	407.3	407.1
140°	425.3	425.5	425.5	425.5	425.5	425.5	425.3	425.2	424.9	424.8	424.5
142.5°	441.1	441.1	441.2	441.2	441.3	441.4	441.4	441.2	441.0	440.8	440.5
145°	464.9	465.0	464.9	464.8	464.7	464.6	464.3	463.9	463.5	463.1	462.7
147.5°	486.4	486.5	486.6	486.7	486.7	486.8	486.7	486.1	485.6	485.1	484.6
150°	499.9	499.9	499.9	499.9	499.9	499.9	499.7	499.3	498.9	498.5	498.0
152.5°	512.4	512.2	512.1	512.0	511.9	511.8	511.7	511.4	511.2	510.9	510.7
155°	530.0	529.6	529.8	529.9	529.9	530.0	530.1	530.1	530.1	530.1	530.1
157.5°	545.8	545.5	545.6	545.6	545.6	545.6	545.8	545.9	546.1	546.3	546.5
160°	555.5	555.2	555.3	555.5	555.5	555.6	555.7	555.9	556.0	556.0	556.1
162.5°	563.9	563.4	563.5	563.6	563.7	563.8	564.0	564.3	564.5	564.8	565.1
165°	575.4	574.8	574.9	575.2	575.4	575.6	575.8	576.2	576.4	576.7	577.1
167.5°	585.1	584.4	584.4	584.4	584.3	584.3	584.6	585.0	585.4	585.9	586.3
170°	590.3	589.6	589.5	589.4	589.3	589.2	589.4	590.0	590.4	591.0	591.5
172.5°	594.0	593.4	593.3	593.3	593.3	593.3	593.5	593.9	594.4	594.8	595.2
175°	598.3	597.5	597.6	597.8	597.9	597.9	598.3	598.8	599.3	599.8	600.3
177.5°	600.7	600.1	600.1	600.1	600.1	600.1	600.3	600.8	601.2	601.6	602.0
180°	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3



TEST NUMBER: P332545-930

CATALOG NUMBER: SA4XXDIP-C575D590U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7
2.5°	770.9	773.4	776.7	782.3	784.3	786.8	790.4	790.1	791.2	794.9	803.1
5°	773.7	783.5	793.0	804.5	816.5	824.4	835.3	841.9	848.6	857.1	871.7
7.5°	774.9	790.4	807.9	827.9	845.8	866.3	882.4	897.5	911.1	929.2	946.6
10°	773.1	794.0	816.5	841.9	868.9	891.7	912.3	935.8	955.8	977.6	997.4
12.5°	769.7	795.0	825.2	853.5	885.1	918.8	944.5	968.2	994.8	1020.0	1050.4
15°	762.3	796.9	832.1	869.5	911.7	950.7	987.8	1018.6	1047.2	1084.9	1124.5
17.5°	752.8	790.0	834.5	879.8	923.9	968.5	1014.4	1060.6	1096.7	1143.5	1174.6
20°	743.9	787.0	832.7	886.6	930.7	986.3	1031.9	1076.6	1126.1	1172.7	1209.9
22.5°	731.4	778.6	827.1	880.8	938.8	994.3	1047.2	1095.7	1145.2	1195.9	1240.8
25°	715.7	758.5	815.9	876.8	934.5	994.8	1055.4	1116.3	1169.5	1223.2	1265.1
27.5°	688.8	742.8	796.3	859.2	923.3	991.5	1056.3	1120.1	1175.8	1219.9	1245.9
30°	675.1	721.9	780.1	843.2	912.6	985.9	1053.4	1116.0	1168.0	1203.2	1213.7
32.5°	654.8	703.2	760.0	825.4	898.9	974.2	1044.6	1103.5	1147.0	1165.4	1152.8
35°	624.6	668.4	725.8	792.7	869.2	949.4	1018.9	1068.7	1091.0	1073.5	1030.0
37.5°	588.4	631.9	689.5	755.2	834.4	915.9	978.8	1014.6	1007.2	963.8	899.0
40°	563.0	603.6	658.5	729.6	806.7	888.5	943.7	963.1	942.8	880.6	811.8
42.5°	534.9	574.5	629.6	698.1	779.8	855.2	903.4	905.0	871.0	796.6	727.5
45°	492.0	529.8	581.8	653.1	728.6	799.7	831.4	815.9	753.1	681.3	611.9
47.5°	449.7	482.4	533.7	601.4	673.1	733.0	748.7	720.7	653.8	584.2	519.8
50°	418.7	451.8	499.9	564.7	633.8	685.5	693.1	656.0	590.4	520.2	469.8
52.5°	389.1	421.8	468.2	528.1	591.4	638.1	638.3	595.3	529.9	467.5	420.5
55°	345.4	375.0	416.9	470.4	526.9	563.4	554.5	510.1	453.3	399.1	358.2
57.5°	303.5	329.1	367.7	412.5	462.2	492.3	477.5	434.8	384.1	338.1	307.0
60°	276.3	300.7	333.7	375.9	417.8	441.2	427.3	388.6	341.9	304.8	277.9
62.5°	249.9	270.5	302.2	338.8	377.6	395.1	382.6	344.5	304.2	270.6	248.7
65°	212.5	229.3	254.7	286.2	314.4	329.3	318.8	283.2	252.5	228.4	210.9
67.5°	177.7	190.8	210.0	235.2	259.2	267.3	257.7	232.9	206.9	187.6	175.3
70°	153.5	165.9	182.1	201.5	222.3	231.0	221.4	201.8	180.5	162.7	150.7
72.5°	132.5	142.0	155.7	172.3	188.6	197.2	190.7	171.8	153.8	140.6	130.4
75°	100.9	109.1	118.6	130.4	143.1	148.8	143.1	130.0	117.6	107.9	100.5
77.5°	73.4	77.8	85.1	93.9	101.8	106.2	101.3	92.5	84.9	78.2	74.5
80°	55.8	59.0	64.1	71.1	76.5	80.6	77.4	70.1	64.1	59.6	58.0
82.5°	40.6	42.7	46.1	51.3	54.9	57.0	55.6	50.3	47.9	43.9	42.3
85°	20.0	21.3	23.5	25.0	28.2	28.5	28.9	26.7	24.5	23.5	22.2
87.5°	7.3	7.8	8.8	9.8	11.0	11.4	11.3	11.5	10.7	10.5	9.6
90°	2.5	3.7	4.8	6.0	6.9	7.7	8.6	9.4	10.2	10.8	11.5
92.5°	11.3	12.6	13.9	15.2	16.1	16.7	17.3	17.9	18.4	18.8	19.2
95°	28.9	29.8	30.7	31.6	32.4	33.2	33.9	34.7	35.3	35.6	36.0
97.5°	49.5	50.2	51.0	51.7	52.5	53.3	54.2	55.0	55.9	56.3	56.7
100°	65.6	66.0	66.4	66.8	67.4	68.3	69.3	70.2	71.2	71.3	71.6
102.5°	82.3	82.5	82.7	82.8	83.4	84.2	85.0	85.9	86.7	87.1	87.3
105°	108.4	108.5	108.7	108.8	109.0	109.4	109.8	110.2	110.6	111.0	111.3
107.5°	135.9	136.0	136.2	136.3	136.4	136.4	136.5	136.6	136.6	136.9	137.2
110°	154.6	154.8	155.0	155.2	155.2	155.2	155.1	155.0	154.8	154.7	154.4





TEST NUMBER: P332545-930

CATALOG NUMBER: SA4XXDIP-C575D590U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	173.7	173.8	173.8	173.9	173.8	173.7	173.4	173.3	173.1	173.0	173.0
115°	202.8	202.8	202.8	202.8	202.6	202.4	202.2	202.0	201.8	201.7	201.6
117.5°	230.2	230.2	230.3	230.4	230.4	230.2	230.1	229.9	229.8	229.4	229.1
120°	248.7	249.2	249.6	250.0	250.1	249.7	249.4	249.1	248.7	248.3	247.8
122.5°	267.4	267.6	267.7	267.9	268.0	267.8	267.7	267.5	267.4	267.0	266.7
125°	295.3	295.3	295.3	295.3	295.2	295.1	295.1	294.9	294.8	294.6	294.4
127.5°	321.0	321.3	321.6	321.9	322.0	321.8	321.6	321.5	321.3	321.1	320.9
130°	338.8	339.2	339.5	339.7	339.9	339.9	339.9	339.9	339.9	339.7	339.5
132.5°	357.0	357.2	357.4	357.7	357.8	357.7	357.6	357.5	357.4	357.2	357.0
135°	381.5	382.0	382.7	383.4	383.6	383.6	383.6	383.6	383.6	383.4	383.2
137.5°	407.3	407.6	407.9	408.2	408.5	408.6	408.8	409.0	409.1	408.9	408.5
140°	424.8	424.9	425.2	425.3	425.5	425.5	425.5	425.5	425.5	425.3	425.3
142.5°	440.8	441.0	441.2	441.4	441.4	441.3	441.2	441.2	441.1	441.1	441.1
145°	463.1	463.5	463.9	464.3	464.6	464.7	464.8	464.9	465.0	464.9	464.8
147.5°	485.1	485.6	486.1	486.7	486.8	486.7	486.7	486.6	486.5	486.4	486.3
150°	498.5	498.9	499.3	499.7	499.9	499.9	499.9	499.9	499.9	499.9	499.9
152.5°	510.9	511.2	511.4	511.7	511.8	511.9	512.0	512.1	512.2	512.4	512.7
155°	530.1	530.1	530.1	530.1	530.0	529.9	529.9	529.8	529.6	530.0	530.4
157.5°	546.3	546.1	545.9	545.8	545.6	545.6	545.6	545.6	545.5	545.8	546.2
160°	556.0	556.0	555.9	555.7	555.6	555.5	555.5	555.3	555.2	555.5	555.9
162.5°	564.8	564.5	564.3	564.0	563.8	563.7	563.6	563.5	563.4	563.9	564.5
165°	576.7	576.4	576.2	575.8	575.6	575.4	575.2	574.9	574.8	575.4	576.0
167.5°	585.9	585.4	585.0	584.6	584.3	584.3	584.4	584.4	584.4	585.1	585.6
170°	591.0	590.4	590.0	589.4	589.2	589.3	589.4	589.5	589.6	590.3	590.8
172.5°	594.8	594.4	593.9	593.5	593.3	593.3	593.3	593.3	593.4	594.0	594.8
175°	599.8	599.3	598.8	598.3	597.9	597.9	597.8	597.6	597.5	598.3	599.0
177.5°	601.6	601.2	600.8	600.3	600.1	600.1	600.1	600.1	600.1	600.7	601.3
180°	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	765.7	765.7	765.7	765.7	765.7	765.7	765.7
2.5°	807.1	807.6	809.9	811.7	812.2	814.7	815.0
5°	878.1	883.5	893.9	894.9	896.4	904.7	898.4
7.5°	961.2	974.9	984.0	992.1	995.0	998.6	997.8
10°	1014.5	1034.8	1044.9	1061.1	1061.8	1065.8	1063.3
12.5°	1068.0	1091.6	1110.1	1113.1	1126.7	1128.8	1132.4
15°	1143.9	1169.0	1194.7	1203.9	1222.5	1227.0	1234.0
17.5°	1215.2	1240.8	1258.8	1282.6	1290.3	1300.6	1293.6
20°	1254.3	1282.2	1305.0	1323.7	1331.7	1337.4	1336.8
22.5°	1277.9	1306.0	1324.5	1338.7	1346.1	1348.6	1348.4
25°	1292.7	1308.9	1314.6	1320.0	1311.7	1308.9	1310.1
27.5°	1251.6	1247.3	1232.5	1212.9	1192.6	1176.5	1167.8
30°	1195.0	1170.2	1147.7	1108.4	1088.0	1076.0	1065.2
32.5°	1114.8	1075.5	1032.3	996.2	973.1	955.2	952.5
35°	977.4	918.4	865.4	821.3	798.4	779.1	774.6
37.5°	831.0	769.6	721.9	683.1	658.5	644.9	632.2
40°	733.7	681.1	634.1	601.1	582.4	572.6	564.7
42.5°	658.8	610.7	564.1	538.9	522.0	516.0	511.4
45°	555.5	510.7	478.3	459.3	449.5	439.4	434.6
47.5°	472.6	436.3	414.9	398.8	388.2	382.2	379.1
50°	425.7	395.9	376.8	364.5	355.0	350.2	347.6
52.5°	384.1	359.6	343.6	333.8	327.3	323.8	322.8
55°	330.8	312.2	302.0	293.4	288.7	285.5	284.2
57.5°	287.6	273.2	265.0	257.9	256.1	253.4	252.5
60°	259.2	248.1	241.1	236.4	234.7	231.5	232.2
62.5°	234.1	224.9	219.0	216.3	214.2	211.5	212.4
65°	198.0	191.3	188.1	185.6	183.0	181.5	182.7
67.5°	166.1	161.5	157.2	155.7	154.5	154.3	152.9
70°	145.3	141.5	137.7	136.7	136.7	135.4	135.1
72.5°	125.2	122.5	119.9	119.2	118.2	118.7	117.4
75°	96.8	94.5	93.6	92.6	92.3	92.3	91.4
77.5°	71.5	69.9	68.3	68.3	67.2	66.8	66.6
80°	54.2	53.6	52.3	52.3	51.7	52.0	51.4
82.5°	40.8	39.9	39.6	39.1	38.2	38.3	37.7
85°	21.9	21.0	20.6	19.6	19.0	19.6	19.0
87.5°	10.0	9.9	9.7	9.3	9.0	9.1	8.4
90°	12.1	12.7	13.1	13.4	13.5	13.8	13.9
92.5°	19.6	19.9	20.1	20.3	20.4	20.5	20.6
95°	36.3	36.6	36.8	36.8	36.8	36.8	36.8
97.5°	57.0	57.4	57.6	57.6	57.6	57.6	57.6
100°	71.7	72.0	72.1	72.1	72.1	72.1	72.1
102.5°	87.6	87.9	88.1	88.2	88.3	88.4	88.5
105°	111.6	111.9	112.2	112.5	112.8	113.2	113.5
107.5°	137.5	137.8	137.9	137.9	137.9	137.9	137.9
110°	154.3	154.0	154.1	154.4	154.7	155.0	155.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	172.9	172.9	172.9	173.0	173.0	173.1	173.2
115°	201.5	201.4	201.3	201.2	201.1	201.0	200.9
117.5°	228.8	228.4	228.1	227.9	227.7	227.5	227.3
120°	247.2	246.7	246.5	246.8	247.0	247.2	247.4
122.5°	266.4	266.0	265.6	265.2	264.9	264.5	264.2
125°	294.2	294.0	293.8	293.6	293.3	293.2	292.9
127.5°	320.7	320.5	320.3	320.2	320.0	319.8	319.7
130°	339.3	339.1	338.8	338.3	337.9	337.5	337.1
132.5°	356.8	356.6	356.4	356.2	356.0	355.9	355.7
135°	383.0	382.8	382.5	382.2	381.9	381.6	381.3
137.5°	408.3	408.1	407.9	408.0	408.1	408.1	408.2
140°	425.2	425.1	424.9	424.9	424.8	424.7	424.5
142.5°	441.1	441.0	441.0	441.0	441.0	440.9	440.9
145°	464.7	464.6	464.4	464.1	463.7	463.4	463.2
147.5°	486.2	486.2	486.1	486.0	485.8	485.8	485.7
150°	499.9	499.9	499.9	499.7	499.6	499.5	499.5
152.5°	512.9	513.1	513.1	512.9	512.6	512.3	512.1
155°	530.8	531.3	531.3	530.8	530.4	530.0	529.6
157.5°	546.5	546.8	546.7	546.4	546.1	545.7	545.4
160°	556.1	556.4	556.4	555.9	555.3	554.8	554.3
162.5°	565.1	565.7	565.7	565.2	564.6	564.1	563.6
165°	576.6	577.2	577.3	576.9	576.5	576.1	575.7
167.5°	586.3	586.9	586.9	586.3	585.6	585.0	584.3
170°	591.5	592.1	592.1	591.3	590.6	589.9	589.1
172.5°	595.5	596.1	596.1	595.4	594.7	593.9	593.3
175°	599.7	600.4	600.4	599.7	599.0	598.3	597.5
177.5°	601.9	602.4	602.4	601.8	601.1	600.4	599.7
180°	601.3	601.3	601.3	601.3	601.3	601.3	601.3

(END OF REPORT)