

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: P332903-927

Luminaire Tested: **SA4XXRDIP-C575D590U927-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332903-927
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: SA4XXRDIP-C575D590U927-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 575 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 590 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

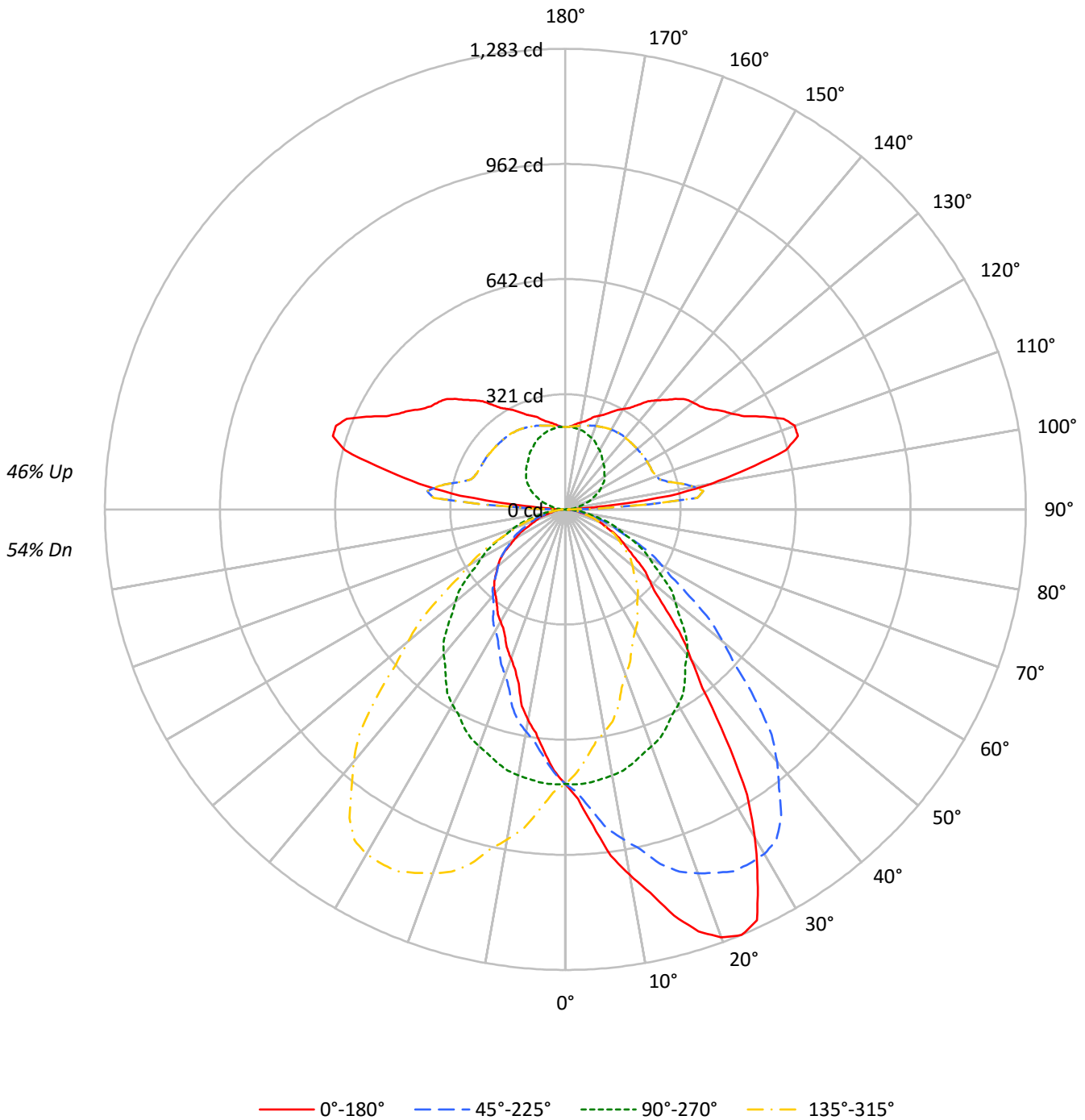
Lumens per Lamp: N/A
Luminaire Lumens: 3607.9 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	54
1	99	95	91	88	92	88	85	82	76	73	71	64	62	61	53	52	51	46
2	91	83	78	73	84	78	73	68	67	63	60	57	54	52	48	46	44	39
3	83	74	67	61	77	69	63	58	59	55	51	51	47	44	43	40	38	34
4	76	66	58	52	70	61	54	49	53	48	44	45	41	38	38	35	33	30
5	70	59	51	45	65	55	48	43	48	42	38	41	37	33	35	32	29	26
6	65	53	45	39	60	49	42	37	43	37	33	37	33	29	32	28	26	23
7	60	48	40	34	55	45	38	33	39	34	29	34	29	26	29	26	23	20
8	56	43	36	31	52	41	34	29	36	30	26	31	27	23	27	23	21	18
9	52	40	32	27	48	37	31	26	33	27	24	29	24	21	25	21	19	17
10	48	37	29	25	45	34	28	24	30	25	21	26	22	19	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6176	6176	6176	6176
5°	7164	6195	5476	6195
10°	8475	6167	4887	6167
15°	9789	6110	4199	6110
20°	10899	6032	3797	6032
25°	11251	5955	3526	5955
30°	9849	5862	3361	5862
35°	7666	5723	3263	5723
40°	5750	5564	3209	5564
45°	4539	5310	3181	5310
50°	3832	5016	3090	5016
55°	3340	4694	2923	4694
60°	3006	4359	2588	4359
65°	2649	3998	2225	3998
70°	2386	3623	2009	3623
75°	1999	3213	1712	3213
80°	1692	2738	1604	2738
85°	1426	2140	1426	2140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.1	2.1
10°-20°	223.6	6.2
20°-30°	349.7	9.7
30°-40°	388.8	10.8
40°-50°	344.9	9.6
50°-60°	268.8	7.4
60°-70°	176.0	4.9
70°-80°	86.5	2.4
80°-90°	22.6	0.6
90°-100°	166.1	4.6
100°-110°	345.8	9.6
110°-120°	309.7	8.6
120°-130°	260.5	7.2
130°-140°	217.2	6.0
140°-150°	166.0	4.6
150°-160°	116.6	3.2
160°-170°	68.6	1.9
170°-180°	22.3	0.6
0°-30°	647.4	17.9
0°-40°	1036.2	28.7
0°-60°	1649.9	45.7
0°-90°	1935.0	53.6
90°-120°	821.6	22.8
90°-150°	1465.3	40.6
90°-180°	1673.0	46.4
0°-180°	3607.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	765	765	765	765	765	
5°	884	764	676	764	884	89
15°	1171	731	502	731	1171	333
25°	1263	668	396	668	1263	560
35°	778	581	331	581	778	488
45°	398	465	279	465	398	315
55°	237	334	208	334	237	216
65°	139	209	116	209	139	140
75°	64	103	55	103	64	71
85°	15	23	15	23	15	18
90°	10	0	10	0	10	8
95°	110	15	110	15	110	171
105°	636	53	636	53	636	629
115°	610	93	610	93	610	606
125°	487	130	487	130	487	443
135°	436	154	436	154	436	336
145°	356	178	356	178	356	225
155°	298	202	298	202	298	139
165°	260	220	260	220	260	74
175°	234	230	234	230	234	23
180°	230	230	230	230	230	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	765.0	765.0	765.0	765.0	765.0	765.0	765.0	765.0	765.0	765.0	765.0
2.5°	806.9	809.1	806.9	806.7	804.2	803.5	802.5	799.3	793.4	789.9	790.7
5°	884.0	891.7	887.4	886.8	880.0	873.2	868.9	859.0	848.5	841.5	835.6
7.5°	973.1	977.6	974.9	970.5	959.6	953.3	943.3	930.3	911.6	897.1	884.1
10°	1033.8	1037.4	1036.3	1028.3	1020.3	1003.9	994.7	976.4	952.7	933.9	916.3
12.5°	1093.4	1097.4	1086.6	1087.0	1071.7	1058.8	1044.2	1021.4	993.9	969.6	947.7
15°	1171.2	1166.3	1166.3	1160.2	1143.2	1125.3	1110.2	1086.2	1051.6	1022.7	992.2
17.5°	1232.2	1233.9	1231.4	1216.8	1203.5	1185.0	1157.3	1129.3	1097.2	1058.3	1027.1
20°	1268.7	1268.7	1265.9	1256.0	1238.7	1219.0	1189.1	1158.6	1117.9	1078.8	1043.6
22.5°	1283.4	1284.4	1281.2	1273.0	1257.5	1238.3	1212.8	1181.8	1139.9	1095.8	1052.3
25°	1263.1	1268.9	1269.6	1267.4	1262.8	1251.1	1229.2	1197.5	1159.8	1112.1	1065.2
27.5°	1159.7	1167.0	1173.5	1184.2	1198.3	1205.8	1206.7	1190.6	1157.8	1111.8	1064.7
30°	1056.6	1062.7	1082.8	1109.0	1129.3	1147.8	1163.9	1168.2	1149.7	1108.3	1058.8
32.5°	942.1	950.5	970.6	998.8	1032.7	1064.0	1100.0	1118.3	1117.8	1093.1	1047.2
35°	777.9	784.1	802.6	832.2	872.9	919.4	976.4	1020.8	1051.1	1048.8	1020.8
37.5°	627.4	634.4	653.1	677.6	717.1	774.7	829.9	891.0	946.9	978.3	968.8
40°	545.6	545.9	564.0	589.3	626.3	676.5	736.7	804.5	866.7	917.6	927.4
42.5°	480.9	481.0	493.1	520.3	546.9	594.2	651.6	718.9	791.8	850.5	876.6
45°	397.6	400.4	410.3	426.6	447.5	487.6	533.5	596.1	677.8	747.4	790.9
47.5°	336.7	340.8	347.1	360.4	377.1	403.8	441.7	498.0	564.4	641.0	702.9
50°	305.1	305.8	313.8	321.2	335.6	357.0	390.2	437.0	498.1	571.7	640.5
52.5°	278.1	277.9	282.7	292.1	303.9	320.4	347.3	390.0	444.1	510.1	581.1
55°	237.3	238.8	242.6	249.9	258.9	270.6	291.9	323.9	366.5	422.9	487.3
57.5°	206.4	207.2	210.1	213.3	221.4	230.0	245.9	268.2	304.0	350.2	410.3
60°	186.2	186.5	187.4	192.0	198.5	206.5	217.3	236.1	266.3	308.6	356.0
62.5°	166.4	167.0	168.4	171.8	176.8	182.4	193.6	208.7	233.8	269.8	312.6
65°	138.7	139.0	141.2	142.4	146.4	151.3	159.6	169.8	187.1	217.3	249.7
67.5°	115.9	115.9	116.0	117.7	120.5	123.7	128.7	136.9	149.9	168.4	196.9
70°	101.1	101.1	101.7	102.7	104.2	106.9	109.7	115.9	125.5	140.5	162.4
72.5°	87.3	87.5	88.2	88.3	89.1	91.4	93.5	97.4	104.5	115.9	133.6
75°	64.1	65.0	66.5	67.8	69.3	69.1	71.2	73.7	75.8	82.6	92.8
77.5°	47.7	47.2	47.4	48.5	48.6	49.0	50.5	52.4	54.0	57.2	60.8
80°	36.4	36.4	37.3	37.6	37.3	37.6	39.1	40.1	40.7	41.9	45.3
82.5°	27.5	28.0	27.6	28.0	28.2	28.5	29.8	29.9	30.6	31.1	32.5
85°	15.4	15.7	16.0	15.4	15.4	15.4	16.0	16.3	17.0	16.6	17.3
87.5°	7.3	7.1	7.4	7.3	7.4	7.2	7.4	7.8	7.2	7.5	7.4
90°	9.5	9.5	9.9	9.5	9.0	9.0	8.6	8.2	7.7	8.2	7.2
92.5°	34.8	34.8	36.4	38.7	44.1	53.2	66.8	88.7	119.4	143.3	125.5
95°	110.3	116.1	124.3	138.3	160.4	204.2	264.8	334.9	378.7	368.3	277.9
97.5°	294.7	304.1	317.7	344.9	377.3	424.5	468.7	494.7	475.8	387.9	260.2
100°	414.4	418.0	431.6	459.1	498.4	531.9	554.1	545.0	479.0	363.3	235.9
102.5°	518.5	521.4	535.7	555.6	579.8	593.7	587.3	542.5	451.9	332.6	219.6
105°	635.8	638.5	644.8	648.5	647.6	629.1	584.3	506.1	402.7	296.4	205.7
107.5°	679.4	678.2	673.7	663.4	641.0	600.8	537.7	454.6	362.9	276.2	203.1
110°	680.1	676.0	667.9	649.0	616.9	567.1	501.6	423.4	343.0	269.3	203.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	658.8	652.2	640.8	617.8	581.4	531.7	469.8	400.7	331.8	266.1	206.0
115°	610.5	606.9	592.5	565.3	529.7	486.2	433.4	377.8	321.3	264.4	210.2
117.5°	561.7	558.8	544.2	521.4	490.9	454.2	412.6	366.5	316.6	263.9	214.5
120°	534.2	529.2	517.5	497.6	471.7	439.7	403.5	361.6	314.1	263.9	217.9
122.5°	512.5	507.5	497.6	480.5	458.8	430.6	397.8	357.2	311.2	263.6	221.1
125°	487.1	484.4	475.9	462.7	444.7	419.8	388.6	349.7	306.4	263.0	225.9
127.5°	472.3	469.6	462.4	450.8	432.5	409.0	377.9	340.7	300.0	262.0	229.8
130°	463.7	461.0	453.7	442.4	423.9	399.9	369.2	333.5	296.0	261.7	232.7
132.5°	453.9	451.1	444.3	431.6	413.4	389.4	359.4	325.9	292.4	261.3	235.3
135°	435.6	432.9	425.7	413.0	395.0	372.3	344.8	315.4	286.9	260.7	239.1
137.5°	413.0	409.8	403.9	391.3	374.5	354.0	330.8	305.9	282.3	260.6	241.3
140°	396.8	393.2	386.8	376.9	361.1	342.1	321.8	300.5	279.7	260.3	243.1
142.5°	379.4	376.9	371.3	362.0	348.1	331.6	314.2	295.5	277.6	260.3	244.5
145°	355.6	353.4	348.9	341.2	329.9	317.3	303.6	288.3	273.9	259.4	245.4
147.5°	334.6	333.7	330.3	323.8	315.4	305.5	294.6	282.4	270.5	257.8	245.8
150°	322.7	322.2	319.5	313.6	306.4	298.3	289.2	278.8	268.0	256.7	245.8
152.5°	311.8	311.3	309.7	304.9	298.8	292.1	283.8	274.8	265.1	254.8	245.1
155°	297.8	297.8	296.4	292.9	288.3	282.9	276.1	268.9	260.7	252.2	244.0
157.5°	285.5	285.5	284.7	282.0	278.5	274.2	268.5	262.4	256.4	249.4	242.9
160°	277.9	277.9	277.5	274.7	272.0	268.4	263.5	258.5	253.1	247.2	241.8
162.5°	270.7	271.1	270.6	267.9	265.9	262.6	258.7	254.5	250.2	245.0	240.7
165°	259.8	260.3	260.7	259.0	257.1	254.8	251.7	249.0	245.4	241.8	238.6
167.5°	251.3	251.6	251.7	250.6	249.6	248.3	245.7	243.7	241.1	238.5	236.5
170°	245.8	245.8	246.3	245.8	244.9	243.6	241.8	240.4	238.1	236.3	235.0
172.5°	240.4	241.1	241.6	241.1	240.6	239.6	238.5	237.5	235.6	234.2	233.5
175°	234.1	235.0	235.9	235.0	235.0	235.0	234.1	233.6	232.7	231.8	231.8
177.5°	230.4	231.1	231.8	231.5	231.8	231.5	231.5	231.1	230.8	230.4	230.4
180°	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	765.0	765.0	765.0	765.0	765.0	765.0	765.0	765.0	765.0	765.0	765.0
2.5°	788.2	784.7	783.0	779.0	774.4	771.9	769.7	766.5	762.3	757.9	754.6
5°	828.2	820.8	811.5	800.4	790.6	781.0	772.7	764.4	754.9	745.0	735.1
7.5°	869.3	854.7	839.0	820.8	803.1	787.0	772.2	758.0	742.0	727.6	714.5
10°	897.9	878.1	856.3	833.1	810.0	790.0	770.2	752.3	732.6	715.1	700.3
12.5°	921.1	897.9	871.6	842.7	814.9	790.7	768.0	744.7	722.3	703.2	683.5
15°	959.5	927.7	892.3	857.8	821.7	788.8	758.2	731.1	705.5	678.7	659.9
17.5°	986.0	948.2	905.2	863.7	821.1	782.2	747.0	714.7	685.2	657.8	635.4
20°	1001.7	960.1	912.4	865.1	817.4	775.8	737.9	702.1	671.6	642.1	618.9
22.5°	1010.6	964.6	912.4	862.9	813.5	768.4	726.8	689.6	656.3	626.8	601.2
25°	1013.4	964.1	910.8	854.1	799.9	752.1	708.9	668.5	631.5	602.0	574.8
27.5°	1009.5	951.4	896.8	838.6	782.7	732.3	687.0	644.5	607.5	575.8	548.0
30°	1003.5	941.4	882.7	822.4	765.6	717.2	669.5	628.8	590.3	557.3	529.3
32.5°	990.8	929.0	866.0	804.1	746.6	696.8	651.5	610.5	572.7	539.0	509.2
35°	965.4	902.8	834.3	770.9	714.5	662.7	620.1	580.7	544.6	508.6	477.1
37.5°	931.8	868.0	799.9	730.4	673.9	625.0	586.0	549.0	513.7	480.9	446.0
40°	900.3	842.1	771.8	702.7	644.8	597.6	561.6	528.0	492.6	459.9	425.0
42.5°	862.1	812.5	741.5	672.2	615.0	569.5	535.9	503.1	470.9	439.2	402.8
45°	798.3	760.7	694.1	627.6	569.9	524.9	494.1	465.1	436.7	406.5	372.3
47.5°	725.2	699.7	642.3	574.1	520.8	480.3	450.5	426.8	402.8	372.6	342.6
50°	674.4	658.1	602.6	540.3	489.5	452.2	421.7	399.4	379.5	350.5	323.6
52.5°	620.1	611.5	564.6	505.0	455.9	419.4	393.3	373.4	353.1	329.0	303.9
55°	537.6	542.2	502.4	450.9	404.7	373.9	350.1	333.5	316.2	295.9	276.5
57.5°	453.0	470.0	443.3	398.1	354.7	326.3	308.4	294.4	280.0	263.0	246.4
60°	402.5	416.7	401.6	361.9	323.9	297.5	280.8	270.0	255.5	240.1	227.4
62.5°	353.2	368.4	359.4	327.3	292.2	269.3	254.7	244.6	233.9	220.4	207.2
65°	291.3	301.1	296.8	274.6	249.7	230.2	216.7	209.3	199.4	189.6	177.8
67.5°	223.1	242.2	239.6	227.8	206.3	191.1	182.2	175.7	166.7	159.4	151.4
70°	183.4	201.0	200.7	191.1	179.4	165.2	159.1	153.5	145.4	138.4	131.9
72.5°	150.1	166.2	168.6	161.3	153.3	142.5	136.6	132.8	125.0	120.2	114.9
75°	105.1	116.8	119.9	119.9	116.2	110.7	105.4	103.0	97.4	93.1	90.0
77.5°	68.9	76.3	81.1	82.2	82.8	81.0	76.6	74.9	70.7	69.1	66.1
80°	48.7	53.6	59.2	61.0	62.6	61.9	60.1	58.9	54.9	53.3	52.1
82.5°	33.7	36.4	41.0	45.0	44.6	46.2	44.6	43.6	40.6	40.0	38.7
85°	17.6	17.9	18.5	21.2	22.8	23.4	23.8	23.1	22.2	22.2	20.0
87.5°	7.2	7.0	6.9	6.9	7.1	7.9	8.4	8.5	7.9	7.4	6.8
90°	6.3	6.3	3.6	3.6	3.2	2.7	1.3	0.5	1.3	2.7	3.2
92.5°	91.3	56.2	33.3	23.8	17.3	11.7	7.5	5.1	7.5	11.7	17.3
95°	169.9	95.8	56.5	37.5	26.7	20.8	16.2	14.9	16.2	20.8	26.7
97.5°	152.7	91.6	61.3	45.4	36.0	30.7	26.8	26.8	26.8	30.7	36.0
100°	143.7	92.6	66.0	51.5	42.9	37.5	34.4	34.4	34.4	37.5	42.9
102.5°	141.2	96.3	72.1	58.4	50.1	45.1	42.3	41.6	42.3	45.1	50.1
105°	142.4	104.8	83.2	70.0	61.9	56.5	54.3	52.8	54.3	56.5	61.9
107.5°	149.0	114.9	95.0	82.1	74.3	68.5	66.2	65.4	66.2	68.5	74.3
110°	154.1	122.5	102.6	90.4	82.2	76.8	74.5	73.7	74.5	76.8	82.2



TEST NUMBER: P332903-927

CATALOG NUMBER: SA4XXRDIP-C575D590U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	159.5	129.7	110.5	98.3	90.2	85.2	82.5	81.6	82.5	85.2	90.2
115°	168.1	141.0	122.9	110.7	102.1	97.6	94.4	93.1	94.4	97.6	102.1
117.5°	176.9	151.9	134.8	122.1	114.1	109.1	106.3	105.0	106.3	109.1	114.1
120°	183.0	159.5	142.4	129.7	122.0	117.0	113.9	113.0	113.9	117.0	122.0
122.5°	188.8	166.8	149.6	137.3	128.9	124.3	121.1	120.2	121.1	124.3	128.9
125°	197.5	176.7	160.4	147.7	139.2	134.2	131.5	129.7	131.5	134.2	139.2
127.5°	205.0	185.9	170.2	157.4	148.5	142.8	139.6	138.1	139.6	142.8	148.5
130°	209.7	192.0	176.7	163.6	155.0	148.2	144.6	142.8	144.6	148.2	155.0
132.5°	214.4	197.1	181.7	169.4	160.1	153.7	148.9	147.5	148.9	153.7	160.1
135°	220.5	204.2	189.3	177.6	168.1	160.4	155.9	154.1	155.9	160.4	168.1
137.5°	224.9	209.7	195.7	184.6	174.7	167.4	162.4	160.7	162.4	167.4	174.7
140°	227.8	213.3	199.7	188.9	179.4	171.7	166.8	165.4	166.8	171.7	179.4
142.5°	229.9	216.6	203.4	192.9	183.7	176.4	171.8	170.5	171.8	176.4	183.7
145°	232.3	220.1	208.3	198.4	189.8	183.5	179.0	177.6	179.0	183.5	189.8
147.5°	234.3	223.7	212.7	203.7	196.5	190.0	186.1	185.6	186.1	190.0	196.5
150°	235.4	225.5	215.6	207.0	200.2	194.8	191.2	190.7	191.2	194.8	200.2
152.5°	236.1	227.0	218.1	210.2	204.1	199.1	195.5	195.4	195.5	199.1	204.1
155°	236.8	229.1	221.4	214.7	209.7	205.2	202.5	202.0	202.5	205.2	209.7
157.5°	236.8	230.7	224.1	218.8	214.4	211.0	208.4	208.4	208.4	211.0	214.4
160°	236.8	231.4	225.9	220.9	217.4	214.2	212.4	212.4	212.4	214.2	217.4
162.5°	236.8	232.1	227.0	223.2	219.9	217.1	215.6	216.0	215.6	217.1	219.9
165°	235.9	232.3	228.2	225.5	223.2	220.9	220.1	220.1	220.1	220.9	223.2
167.5°	234.8	232.2	229.2	227.1	225.9	224.1	223.7	224.1	223.7	224.1	225.9
170°	234.1	231.8	229.6	228.2	227.3	225.9	225.5	225.9	225.5	225.9	227.3
172.5°	233.4	231.5	229.9	228.9	228.4	227.4	227.3	227.8	227.3	227.4	228.4
175°	232.3	230.9	230.0	230.0	229.6	229.1	229.1	229.6	229.1	229.1	229.6
177.5°	231.1	230.4	230.0	230.0	230.0	229.7	230.0	230.4	230.0	229.7	230.0
180°	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0



TEST NUMBER: P332903-927

CATALOG NUMBER: SA4XXRDIP-C575D590U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	765.0	765.0	765.0	765.0	765.0	765.0	765.0	765.0	765.0	765.0	765.0
2.5°	751.2	748.8	745.5	741.8	737.4	733.5	731.7	733.2	734.0	732.0	731.7
5°	728.3	720.6	714.5	705.2	697.8	691.7	687.3	685.5	686.1	681.2	679.9
7.5°	702.6	693.5	683.4	672.4	662.2	653.2	648.4	645.8	640.6	638.3	634.5
10°	686.1	673.8	663.9	650.9	639.3	628.4	623.2	618.9	613.7	611.2	605.9
12.5°	669.1	654.8	644.0	630.5	618.5	605.5	600.6	592.6	584.3	579.2	572.4
15°	645.1	627.9	614.6	598.6	584.4	569.6	556.3	541.5	536.0	524.3	517.5
17.5°	617.0	599.5	583.1	561.7	539.8	521.4	507.2	493.1	484.6	477.1	473.6
20°	598.6	582.6	559.8	534.8	510.4	490.0	478.6	469.4	460.2	455.0	451.2
22.5°	581.1	560.6	534.1	507.2	482.8	466.9	457.2	447.7	440.2	435.2	430.3
25°	551.8	524.9	496.9	466.0	449.4	435.5	425.0	417.3	412.7	406.2	403.8
27.5°	521.6	489.1	458.1	437.4	420.1	407.4	398.3	392.5	386.7	382.5	379.3
30°	498.4	465.4	437.7	418.0	400.4	389.9	382.5	375.7	371.1	367.7	365.3
32.5°	475.5	442.5	419.1	398.0	384.1	373.9	366.0	360.9	357.3	352.9	351.4
35°	442.3	413.0	392.7	373.6	359.4	350.1	344.0	338.7	335.6	334.5	333.5
37.5°	410.4	386.4	364.6	348.9	336.3	329.0	321.7	319.2	317.0	314.8	315.8
40°	390.2	367.7	348.3	331.7	321.5	313.5	309.1	306.1	304.2	304.2	304.2
42.5°	372.7	350.7	331.8	316.9	306.7	299.9	295.1	292.5	291.9	291.6	293.1
45°	345.5	325.2	306.1	293.7	285.1	278.3	275.5	273.4	273.4	274.6	275.0
47.5°	318.6	299.5	284.2	270.4	262.4	258.3	255.8	254.7	254.8	256.0	257.5
50°	302.1	283.3	268.2	255.8	248.4	244.4	242.2	241.6	242.2	242.2	244.4
52.5°	284.1	267.2	252.4	242.0	233.6	229.9	228.7	227.8	228.2	229.2	230.1
55°	257.7	242.6	228.4	218.6	212.4	209.9	207.2	207.5	206.8	207.5	207.5
57.5°	231.2	217.7	204.5	196.6	191.2	187.7	184.7	185.4	184.6	184.4	183.9
60°	214.2	199.4	188.9	181.9	175.7	172.6	169.8	170.5	169.5	168.9	167.7
62.5°	195.7	183.4	173.4	166.6	161.6	158.0	155.3	154.6	152.5	150.4	147.7
65°	168.9	158.8	149.8	143.3	138.7	135.9	133.8	131.9	127.3	122.4	119.9
67.5°	142.8	135.5	127.1	121.7	118.0	114.3	110.2	107.0	102.7	100.0	98.5
70°	126.0	119.0	111.9	106.6	102.7	99.3	94.6	92.4	89.4	88.2	86.6
72.5°	110.0	103.5	96.8	92.1	87.9	85.2	81.6	79.4	78.0	77.6	76.0
75°	85.7	80.5	75.5	71.2	67.8	66.0	64.4	62.9	62.3	59.5	57.9
77.5°	62.5	59.0	56.0	52.9	50.5	49.3	46.3	44.5	43.5	42.1	41.8
80°	48.7	46.3	43.2	41.3	37.9	36.7	35.4	35.2	34.9	34.5	34.2
82.5°	36.6	34.1	31.1	29.9	29.1	28.3	27.6	27.3	26.9	27.1	27.1
85°	18.5	17.3	17.3	17.0	16.6	16.3	16.0	16.0	15.7	16.0	15.7
87.5°	6.9	6.7	7.2	6.7	7.1	7.3	7.0	7.1	7.4	7.0	7.0
90°	3.6	3.6	6.3	6.3	7.2	8.2	7.7	8.2	8.6	9.0	9.0
92.5°	23.8	33.3	56.2	91.3	125.5	143.3	119.4	88.7	66.8	53.2	44.1
95°	37.5	56.5	95.8	169.9	277.9	368.3	378.7	334.9	264.8	204.2	160.4
97.5°	45.4	61.3	91.6	152.7	260.2	387.9	475.8	494.7	468.7	424.5	377.3
100°	51.5	66.0	92.6	143.7	235.9	363.3	479.0	545.0	554.1	531.9	498.4
102.5°	58.4	72.1	96.3	141.2	219.6	332.6	451.9	542.5	587.3	593.7	579.8
105°	70.0	83.2	104.8	142.4	205.7	296.4	402.7	506.1	584.3	629.1	647.6
107.5°	82.1	95.0	114.9	149.0	203.1	276.2	362.9	454.6	537.7	600.8	641.0
110°	90.4	102.6	122.5	154.1	203.8	269.3	343.0	423.4	501.6	567.1	616.9



TEST NUMBER: P332903-927

CATALOG NUMBER: SA4XXRDIP-C575D590U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	98.3	110.5	129.7	159.5	206.0	266.1	331.8	400.7	469.8	531.7	581.4
115°	110.7	122.9	141.0	168.1	210.2	264.4	321.3	377.8	433.4	486.2	529.7
117.5°	122.1	134.8	151.9	176.9	214.5	263.9	316.6	366.5	412.6	454.2	490.9
120°	129.7	142.4	159.5	183.0	217.9	263.9	314.1	361.6	403.5	439.7	471.7
122.5°	137.3	149.6	166.8	188.8	221.1	263.6	311.2	357.2	397.8	430.6	458.8
125°	147.7	160.4	176.7	197.5	225.9	263.0	306.4	349.7	388.6	419.8	444.7
127.5°	157.4	170.2	185.9	205.0	229.8	262.0	300.0	340.7	377.9	409.0	432.5
130°	163.6	176.7	192.0	209.7	232.7	261.7	296.0	333.5	369.2	399.9	423.9
132.5°	169.4	181.7	197.1	214.4	235.3	261.3	292.4	325.9	359.4	389.4	413.4
135°	177.6	189.3	204.2	220.5	239.1	260.7	286.9	315.4	344.8	372.3	395.0
137.5°	184.6	195.7	209.7	224.9	241.3	260.6	282.3	305.9	330.8	354.0	374.5
140°	188.9	199.7	213.3	227.8	243.1	260.3	279.7	300.5	321.8	342.1	361.1
142.5°	192.9	203.4	216.6	229.9	244.5	260.3	277.6	295.5	314.2	331.6	348.1
145°	198.4	208.3	220.1	232.3	245.4	259.4	273.9	288.3	303.6	317.3	329.9
147.5°	203.7	212.7	223.7	234.3	245.8	257.8	270.5	282.4	294.6	305.5	315.4
150°	207.0	215.6	225.5	235.4	245.8	256.7	268.0	278.8	289.2	298.3	306.4
152.5°	210.2	218.1	227.0	236.1	245.1	254.8	265.1	274.8	283.8	292.1	298.8
155°	214.7	221.4	229.1	236.8	244.0	252.2	260.7	268.9	276.1	282.9	288.3
157.5°	218.8	224.1	230.7	236.8	242.9	249.4	256.4	262.4	268.5	274.2	278.5
160°	220.9	225.9	231.4	236.8	241.8	247.2	253.1	258.5	263.5	268.4	272.0
162.5°	223.2	227.0	232.1	236.8	240.7	245.0	250.2	254.5	258.7	262.6	265.9
165°	225.5	228.2	232.3	235.9	238.6	241.8	245.4	249.0	251.7	254.8	257.1
167.5°	227.1	229.2	232.2	234.8	236.5	238.5	241.1	243.7	245.7	248.3	249.6
170°	228.2	229.6	231.8	234.1	235.0	236.3	238.1	240.4	241.8	243.6	244.9
172.5°	228.9	229.9	231.5	233.4	233.5	234.2	235.6	237.5	238.5	239.6	240.6
175°	230.0	230.0	230.9	232.3	231.8	231.8	232.7	233.6	234.1	235.0	235.0
177.5°	230.0	230.0	230.4	231.1	230.4	230.4	230.8	231.1	231.5	231.5	231.8
180°	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0



TEST NUMBER: P332903-927

CATALOG NUMBER: SA4XXRDIP-C575D590U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	765.0	765.0	765.0	765.0	765.0	765.0	765.0	765.0	765.0	765.0	765.0
2.5°	730.2	730.7	729.0	728.5	729.0	730.7	730.2	731.7	732.0	734.0	733.2
5°	677.5	676.8	675.3	675.7	675.3	676.8	677.5	679.9	681.2	686.1	685.5
7.5°	632.3	629.9	630.7	628.1	630.7	629.9	632.3	634.5	638.3	640.6	645.8
10°	604.8	601.3	598.6	596.1	598.6	601.3	604.8	605.9	611.2	613.7	618.9
12.5°	567.0	564.1	560.3	561.1	560.3	564.1	567.0	572.4	579.2	584.3	592.6
15°	513.5	508.9	501.5	502.4	501.5	508.9	513.5	517.5	524.3	536.0	541.5
17.5°	468.2	468.3	464.9	465.6	464.9	468.3	468.2	473.6	477.1	484.6	493.1
20°	444.7	442.6	442.9	442.0	442.9	442.6	444.7	451.2	455.0	460.2	469.4
22.5°	428.5	425.9	423.7	421.8	423.7	425.9	428.5	430.3	435.2	440.2	447.7
25°	401.0	399.2	396.4	395.8	396.4	399.2	401.0	403.8	406.2	412.7	417.3
27.5°	376.8	376.4	375.3	373.9	375.3	376.4	376.8	379.3	382.5	386.7	392.5
30°	362.7	362.2	361.6	360.6	361.6	362.2	362.7	365.3	367.7	371.1	375.7
32.5°	350.2	349.8	349.2	349.3	349.2	349.8	350.2	351.4	352.9	357.3	360.9
35°	332.2	331.9	331.4	331.1	331.4	331.9	332.2	333.5	334.5	335.6	338.7
37.5°	315.5	316.3	315.9	315.8	315.9	316.3	315.5	315.8	314.8	317.0	319.2
40°	303.9	304.2	304.8	304.5	304.8	304.2	303.9	304.2	304.2	304.2	306.1
42.5°	294.3	294.4	295.2	294.1	295.2	294.4	294.3	293.1	291.6	291.9	292.5
45°	277.1	278.9	278.6	278.6	278.6	278.9	277.1	275.0	274.6	273.4	273.4
47.5°	258.3	259.9	260.3	260.2	260.3	259.9	258.3	257.5	256.0	254.8	254.7
50°	246.0	245.3	246.3	246.0	246.3	245.3	246.0	244.4	242.2	242.2	241.6
52.5°	230.9	231.1	231.0	230.7	231.0	231.1	230.9	230.1	229.2	228.2	227.8
55°	207.7	208.0	207.5	207.7	207.5	208.0	207.7	207.5	207.5	206.8	207.5
57.5°	182.6	181.1	181.7	181.0	181.7	181.1	182.6	183.9	184.4	184.6	185.4
60°	164.6	162.2	161.5	160.3	161.5	162.2	164.6	167.7	168.9	169.5	170.5
62.5°	144.3	142.7	140.5	141.6	140.5	142.7	144.3	147.7	150.4	152.5	154.6
65°	117.4	116.2	115.3	116.5	115.3	116.2	117.4	119.9	122.4	127.3	131.9
67.5°	97.2	96.6	96.6	95.9	96.6	96.6	97.2	98.5	100.0	102.7	107.0
70°	86.6	85.7	85.7	85.1	85.7	85.7	86.6	86.6	88.2	89.4	92.4
72.5°	75.7	74.9	75.1	74.7	75.1	74.9	75.7	76.0	77.6	78.0	79.4
75°	56.1	54.6	54.6	54.9	54.6	54.6	56.1	57.9	59.5	62.3	62.9
77.5°	41.8	41.5	42.0	41.4	42.0	41.5	41.8	41.8	42.1	43.5	44.5
80°	34.2	33.9	33.6	34.5	33.6	33.9	34.2	34.2	34.5	34.9	35.2
82.5°	26.5	26.5	26.5	27.6	26.5	26.5	26.5	27.1	27.1	26.9	27.3
85°	16.0	15.4	16.0	15.4	16.0	15.4	16.0	15.7	16.0	15.7	16.0
87.5°	7.6	7.4	7.1	7.3	7.1	7.4	7.6	7.0	7.0	7.4	7.1
90°	9.5	9.9	9.5	9.5	9.5	9.9	9.5	9.0	9.0	8.6	8.2
92.5°	38.7	36.4	34.8	34.8	34.8	36.4	38.7	44.1	53.2	66.8	88.7
95°	138.3	124.3	116.1	110.3	116.1	124.3	138.3	160.4	204.2	264.8	334.9
97.5°	344.9	317.7	304.1	294.7	304.1	317.7	344.9	377.3	424.5	468.7	494.7
100°	459.1	431.6	418.0	414.4	418.0	431.6	459.1	498.4	531.9	554.1	545.0
102.5°	555.6	535.7	521.4	518.5	521.4	535.7	555.6	579.8	593.7	587.3	542.5
105°	648.5	644.8	638.5	635.8	638.5	644.8	648.5	647.6	629.1	584.3	506.1
107.5°	663.4	673.7	678.2	679.4	678.2	673.7	663.4	641.0	600.8	537.7	454.6
110°	649.0	667.9	676.0	680.1	676.0	667.9	649.0	616.9	567.1	501.6	423.4



TEST NUMBER: P332903-927

CATALOG NUMBER: SA4XXRDIP-C575D590U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	617.8	640.8	652.2	658.8	652.2	640.8	617.8	581.4	531.7	469.8	400.7
115°	565.3	592.5	606.9	610.5	606.9	592.5	565.3	529.7	486.2	433.4	377.8
117.5°	521.4	544.2	558.8	561.7	558.8	544.2	521.4	490.9	454.2	412.6	366.5
120°	497.6	517.5	529.2	534.2	529.2	517.5	497.6	471.7	439.7	403.5	361.6
122.5°	480.5	497.6	507.5	512.5	507.5	497.6	480.5	458.8	430.6	397.8	357.2
125°	462.7	475.9	484.4	487.1	484.4	475.9	462.7	444.7	419.8	388.6	349.7
127.5°	450.8	462.4	469.6	472.3	469.6	462.4	450.8	432.5	409.0	377.9	340.7
130°	442.4	453.7	461.0	463.7	461.0	453.7	442.4	423.9	399.9	369.2	333.5
132.5°	431.6	444.3	451.1	453.9	451.1	444.3	431.6	413.4	389.4	359.4	325.9
135°	413.0	425.7	432.9	435.6	432.9	425.7	413.0	395.0	372.3	344.8	315.4
137.5°	391.3	403.9	409.8	413.0	409.8	403.9	391.3	374.5	354.0	330.8	305.9
140°	376.9	386.8	393.2	396.8	393.2	386.8	376.9	361.1	342.1	321.8	300.5
142.5°	362.0	371.3	376.9	379.4	376.9	371.3	362.0	348.1	331.6	314.2	295.5
145°	341.2	348.9	353.4	355.6	353.4	348.9	341.2	329.9	317.3	303.6	288.3
147.5°	323.8	330.3	333.7	334.6	333.7	330.3	323.8	315.4	305.5	294.6	282.4
150°	313.6	319.5	322.2	322.7	322.2	319.5	313.6	306.4	298.3	289.2	278.8
152.5°	304.9	309.7	311.3	311.8	311.3	309.7	304.9	298.8	292.1	283.8	274.8
155°	292.9	296.4	297.8	297.8	297.8	296.4	292.9	288.3	282.9	276.1	268.9
157.5°	282.0	284.7	285.5	285.5	285.5	284.7	282.0	278.5	274.2	268.5	262.4
160°	274.7	277.5	277.9	277.9	277.9	277.5	274.7	272.0	268.4	263.5	258.5
162.5°	267.9	270.6	271.1	270.7	271.1	270.6	267.9	265.9	262.6	258.7	254.5
165°	259.0	260.7	260.3	259.8	260.3	260.7	259.0	257.1	254.8	251.7	249.0
167.5°	250.6	251.7	251.6	251.3	251.6	251.7	250.6	249.6	248.3	245.7	243.7
170°	245.8	246.3	245.8	245.8	245.8	246.3	245.8	244.9	243.6	241.8	240.4
172.5°	241.1	241.6	241.1	240.4	241.1	241.6	241.1	240.6	239.6	238.5	237.5
175°	235.0	235.9	235.0	234.1	235.0	235.9	235.0	235.0	235.0	234.1	233.6
177.5°	231.5	231.8	231.1	230.4	231.1	231.8	231.5	231.8	231.5	231.5	231.1
180°	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0



TEST NUMBER: P332903-927

CATALOG NUMBER: SA4XXRDIP-C575D590U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	765.0	765.0	765.0	765.0	765.0	765.0	765.0	765.0	765.0	765.0	765.0
2.5°	731.7	733.5	737.4	741.8	745.5	748.8	751.2	754.6	757.9	762.3	766.5
5°	687.3	691.7	697.8	705.2	714.5	720.6	728.3	735.1	745.0	754.9	764.4
7.5°	648.4	653.2	662.2	672.4	683.4	693.5	702.6	714.5	727.6	742.0	758.0
10°	623.2	628.4	639.3	650.9	663.9	673.8	686.1	700.3	715.1	732.6	752.3
12.5°	600.6	605.5	618.5	630.5	644.0	654.8	669.1	683.5	703.2	722.3	744.7
15°	556.3	569.6	584.4	598.6	614.6	627.9	645.1	659.9	678.7	705.5	731.1
17.5°	507.2	521.4	539.8	561.7	583.1	599.5	617.0	635.4	657.8	685.2	714.7
20°	478.6	490.0	510.4	534.8	559.8	582.6	598.6	618.9	642.1	671.6	702.1
22.5°	457.2	466.9	482.8	507.2	534.1	560.6	581.1	601.2	626.8	656.3	689.6
25°	425.0	435.5	449.4	466.0	496.9	524.9	551.8	574.8	602.0	631.5	668.5
27.5°	398.3	407.4	420.1	437.4	458.1	489.1	521.6	548.0	575.8	607.5	644.5
30°	382.5	389.9	400.4	418.0	437.7	465.4	498.4	529.3	557.3	590.3	628.8
32.5°	366.0	373.9	384.1	398.0	419.1	442.5	475.5	509.2	539.0	572.7	610.5
35°	344.0	350.1	359.4	373.6	392.7	413.0	442.3	477.1	508.6	544.6	580.7
37.5°	321.7	329.0	336.3	348.9	364.6	386.4	410.4	446.0	480.9	513.7	549.0
40°	309.1	313.5	321.5	331.7	348.3	367.7	390.2	425.0	459.9	492.6	528.0
42.5°	295.1	299.9	306.7	316.9	331.8	350.7	372.7	402.8	439.2	470.9	503.1
45°	275.5	278.3	285.1	293.7	306.1	325.2	345.5	372.3	406.5	436.7	465.1
47.5°	255.8	258.3	262.4	270.4	284.2	299.5	318.6	342.6	372.6	402.8	426.8
50°	242.2	244.4	248.4	255.8	268.2	283.3	302.1	323.6	350.5	379.5	399.4
52.5°	228.7	229.9	233.6	242.0	252.4	267.2	284.1	303.9	329.0	353.1	373.4
55°	207.2	209.9	212.4	218.6	228.4	242.6	257.7	276.5	295.9	316.2	333.5
57.5°	184.7	187.7	191.2	196.6	204.5	217.7	231.2	246.4	263.0	280.0	294.4
60°	169.8	172.6	175.7	181.9	188.9	199.4	214.2	227.4	240.1	255.5	270.0
62.5°	155.3	158.0	161.6	166.6	173.4	183.4	195.7	207.2	220.4	233.9	244.6
65°	133.8	135.9	138.7	143.3	149.8	158.8	168.9	177.8	189.6	199.4	209.3
67.5°	110.2	114.3	118.0	121.7	127.1	135.5	142.8	151.4	159.4	166.7	175.7
70°	94.6	99.3	102.7	106.6	111.9	119.0	126.0	131.9	138.4	145.4	153.5
72.5°	81.6	85.2	87.9	92.1	96.8	103.5	110.0	114.9	120.2	125.0	132.8
75°	64.4	66.0	67.8	71.2	75.5	80.5	85.7	90.0	93.1	97.4	103.0
77.5°	46.3	49.3	50.5	52.9	56.0	59.0	62.5	66.1	69.1	70.7	74.9
80°	35.4	36.7	37.9	41.3	43.2	46.3	48.7	52.1	53.3	54.9	58.9
82.5°	27.6	28.3	29.1	29.9	31.1	34.1	36.6	38.7	40.0	40.6	43.6
85°	16.0	16.3	16.6	17.0	17.3	17.3	18.5	20.0	22.2	22.2	23.1
87.5°	7.0	7.3	7.1	6.7	7.2	6.7	6.9	6.8	7.4	7.9	8.5
90°	7.7	8.2	7.2	6.3	6.3	3.6	3.6	3.2	2.7	1.3	0.5
92.5°	119.4	143.3	125.5	91.3	56.2	33.3	23.8	17.3	11.7	7.5	5.1
95°	378.7	368.3	277.9	169.9	95.8	56.5	37.5	26.7	20.8	16.2	14.9
97.5°	475.8	387.9	260.2	152.7	91.6	61.3	45.4	36.0	30.7	26.8	26.8
100°	479.0	363.3	235.9	143.7	92.6	66.0	51.5	42.9	37.5	34.4	34.4
102.5°	451.9	332.6	219.6	141.2	96.3	72.1	58.4	50.1	45.1	42.3	41.6
105°	402.7	296.4	205.7	142.4	104.8	83.2	70.0	61.9	56.5	54.3	52.8
107.5°	362.9	276.2	203.1	149.0	114.9	95.0	82.1	74.3	68.5	66.2	65.4
110°	343.0	269.3	203.8	154.1	122.5	102.6	90.4	82.2	76.8	74.5	73.7



TEST NUMBER: P332903-927

CATALOG NUMBER: SA4XXRDIP-C575D590U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	331.8	266.1	206.0	159.5	129.7	110.5	98.3	90.2	85.2	82.5	81.6
115°	321.3	264.4	210.2	168.1	141.0	122.9	110.7	102.1	97.6	94.4	93.1
117.5°	316.6	263.9	214.5	176.9	151.9	134.8	122.1	114.1	109.1	106.3	105.0
120°	314.1	263.9	217.9	183.0	159.5	142.4	129.7	122.0	117.0	113.9	113.0
122.5°	311.2	263.6	221.1	188.8	166.8	149.6	137.3	128.9	124.3	121.1	120.2
125°	306.4	263.0	225.9	197.5	176.7	160.4	147.7	139.2	134.2	131.5	129.7
127.5°	300.0	262.0	229.8	205.0	185.9	170.2	157.4	148.5	142.8	139.6	138.1
130°	296.0	261.7	232.7	209.7	192.0	176.7	163.6	155.0	148.2	144.6	142.8
132.5°	292.4	261.3	235.3	214.4	197.1	181.7	169.4	160.1	153.7	148.9	147.5
135°	286.9	260.7	239.1	220.5	204.2	189.3	177.6	168.1	160.4	155.9	154.1
137.5°	282.3	260.6	241.3	224.9	209.7	195.7	184.6	174.7	167.4	162.4	160.7
140°	279.7	260.3	243.1	227.8	213.3	199.7	188.9	179.4	171.7	166.8	165.4
142.5°	277.6	260.3	244.5	229.9	216.6	203.4	192.9	183.7	176.4	171.8	170.5
145°	273.9	259.4	245.4	232.3	220.1	208.3	198.4	189.8	183.5	179.0	177.6
147.5°	270.5	257.8	245.8	234.3	223.7	212.7	203.7	196.5	190.0	186.1	185.6
150°	268.0	256.7	245.8	235.4	225.5	215.6	207.0	200.2	194.8	191.2	190.7
152.5°	265.1	254.8	245.1	236.1	227.0	218.1	210.2	204.1	199.1	195.5	195.4
155°	260.7	252.2	244.0	236.8	229.1	221.4	214.7	209.7	205.2	202.5	202.0
157.5°	256.4	249.4	242.9	236.8	230.7	224.1	218.8	214.4	211.0	208.4	208.4
160°	253.1	247.2	241.8	236.8	231.4	225.9	220.9	217.4	214.2	212.4	212.4
162.5°	250.2	245.0	240.7	236.8	232.1	227.0	223.2	219.9	217.1	215.6	216.0
165°	245.4	241.8	238.6	235.9	232.3	228.2	225.5	223.2	220.9	220.1	220.1
167.5°	241.1	238.5	236.5	234.8	232.2	229.2	227.1	225.9	224.1	223.7	224.1
170°	238.1	236.3	235.0	234.1	231.8	229.6	228.2	227.3	225.9	225.5	225.9
172.5°	235.6	234.2	233.5	233.4	231.5	229.9	228.9	228.4	227.4	227.3	227.8
175°	232.7	231.8	231.8	232.3	230.9	230.0	230.0	229.6	229.1	229.1	229.6
177.5°	230.8	230.4	230.4	231.1	230.4	230.0	230.0	230.0	229.7	230.0	230.4
180°	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0



TEST NUMBER: P332903-927

CATALOG NUMBER: SA4XXRDIP-C575D590U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	765.0	765.0	765.0	765.0	765.0	765.0	765.0	765.0	765.0	765.0	765.0
2.5°	769.7	771.9	774.4	779.0	783.0	784.7	788.2	790.7	789.9	793.4	799.3
5°	772.7	781.0	790.6	800.4	811.5	820.8	828.2	835.6	841.5	848.5	859.0
7.5°	772.2	787.0	803.1	820.8	839.0	854.7	869.3	884.1	897.1	911.6	930.3
10°	770.2	790.0	810.0	833.1	856.3	878.1	897.9	916.3	933.9	952.7	976.4
12.5°	768.0	790.7	814.9	842.7	871.6	897.9	921.1	947.7	969.6	993.9	1021.4
15°	758.2	788.8	821.7	857.8	892.3	927.7	959.5	992.2	1022.7	1051.6	1086.2
17.5°	747.0	782.2	821.1	863.7	905.2	948.2	986.0	1027.1	1058.3	1097.2	1129.3
20°	737.9	775.8	817.4	865.1	912.4	960.1	1001.7	1043.6	1078.8	1117.9	1158.6
22.5°	726.8	768.4	813.5	862.9	912.4	964.6	1010.6	1052.3	1095.8	1139.9	1181.8
25°	708.9	752.1	799.9	854.1	910.8	964.1	1013.4	1065.2	1112.1	1159.8	1197.5
27.5°	687.0	732.3	782.7	838.6	896.8	951.4	1009.5	1064.7	1111.8	1157.8	1190.6
30°	669.5	717.2	765.6	822.4	882.7	941.4	1003.5	1058.8	1108.3	1149.7	1168.2
32.5°	651.5	696.8	746.6	804.1	866.0	929.0	990.8	1047.2	1093.1	1117.8	1118.3
35°	620.1	662.7	714.5	770.9	834.3	902.8	965.4	1020.8	1048.8	1051.1	1020.8
37.5°	586.0	625.0	673.9	730.4	799.9	868.0	931.8	968.8	978.3	946.9	891.0
40°	561.6	597.6	644.8	702.7	771.8	842.1	900.3	927.4	917.6	866.7	804.5
42.5°	535.9	569.5	615.0	672.2	741.5	812.5	862.1	876.6	850.5	791.8	718.9
45°	494.1	524.9	569.9	627.6	694.1	760.7	798.3	790.9	747.4	677.8	596.1
47.5°	450.5	480.3	520.8	574.1	642.3	699.7	725.2	702.9	641.0	564.4	498.0
50°	421.7	452.2	489.5	540.3	602.6	658.1	674.4	640.5	571.7	498.1	437.0
52.5°	393.3	419.4	455.9	505.0	564.6	611.5	620.1	581.1	510.1	444.1	390.0
55°	350.1	373.9	404.7	450.9	502.4	542.2	537.6	487.3	422.9	366.5	323.9
57.5°	308.4	326.3	354.7	398.1	443.3	470.0	453.0	410.3	350.2	304.0	268.2
60°	280.8	297.5	323.9	361.9	401.6	416.7	402.5	356.0	308.6	266.3	236.1
62.5°	254.7	269.3	292.2	327.3	359.4	368.4	353.2	312.6	269.8	233.8	208.7
65°	216.7	230.2	249.7	274.6	296.8	301.1	291.3	249.7	217.3	187.1	169.8
67.5°	182.2	191.1	206.3	227.8	239.6	242.2	223.1	196.9	168.4	149.9	136.9
70°	159.1	165.2	179.4	191.1	200.7	201.0	183.4	162.4	140.5	125.5	115.9
72.5°	136.6	142.5	153.3	161.3	168.6	166.2	150.1	133.6	115.9	104.5	97.4
75°	105.4	110.7	116.2	119.9	119.9	116.8	105.1	92.8	82.6	75.8	73.7
77.5°	76.6	81.0	82.8	82.2	81.1	76.3	68.9	60.8	57.2	54.0	52.4
80°	60.1	61.9	62.6	61.0	59.2	53.6	48.7	45.3	41.9	40.7	40.1
82.5°	44.6	46.2	44.6	45.0	41.0	36.4	33.7	32.5	31.1	30.6	29.9
85°	23.8	23.4	22.8	21.2	18.5	17.9	17.6	17.3	16.6	17.0	16.3
87.5°	8.4	7.9	7.1	6.9	6.9	7.0	7.2	7.4	7.5	7.2	7.8
90°	1.3	2.7	3.2	3.6	3.6	6.3	6.3	7.2	8.2	7.7	8.2
92.5°	7.5	11.7	17.3	23.8	33.3	56.2	91.3	125.5	143.3	119.4	88.7
95°	16.2	20.8	26.7	37.5	56.5	95.8	169.9	277.9	368.3	378.7	334.9
97.5°	26.8	30.7	36.0	45.4	61.3	91.6	152.7	260.2	387.9	475.8	494.7
100°	34.4	37.5	42.9	51.5	66.0	92.6	143.7	235.9	363.3	479.0	545.0
102.5°	42.3	45.1	50.1	58.4	72.1	96.3	141.2	219.6	332.6	451.9	542.5
105°	54.3	56.5	61.9	70.0	83.2	104.8	142.4	205.7	296.4	402.7	506.1
107.5°	66.2	68.5	74.3	82.1	95.0	114.9	149.0	203.1	276.2	362.9	454.6
110°	74.5	76.8	82.2	90.4	102.6	122.5	154.1	203.8	269.3	343.0	423.4



TEST NUMBER: P332903-927

CATALOG NUMBER: SA4XXRDIP-C575D590U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	82.5	85.2	90.2	98.3	110.5	129.7	159.5	206.0	266.1	331.8	400.7
115°	94.4	97.6	102.1	110.7	122.9	141.0	168.1	210.2	264.4	321.3	377.8
117.5°	106.3	109.1	114.1	122.1	134.8	151.9	176.9	214.5	263.9	316.6	366.5
120°	113.9	117.0	122.0	129.7	142.4	159.5	183.0	217.9	263.9	314.1	361.6
122.5°	121.1	124.3	128.9	137.3	149.6	166.8	188.8	221.1	263.6	311.2	357.2
125°	131.5	134.2	139.2	147.7	160.4	176.7	197.5	225.9	263.0	306.4	349.7
127.5°	139.6	142.8	148.5	157.4	170.2	185.9	205.0	229.8	262.0	300.0	340.7
130°	144.6	148.2	155.0	163.6	176.7	192.0	209.7	232.7	261.7	296.0	333.5
132.5°	148.9	153.7	160.1	169.4	181.7	197.1	214.4	235.3	261.3	292.4	325.9
135°	155.9	160.4	168.1	177.6	189.3	204.2	220.5	239.1	260.7	286.9	315.4
137.5°	162.4	167.4	174.7	184.6	195.7	209.7	224.9	241.3	260.6	282.3	305.9
140°	166.8	171.7	179.4	188.9	199.7	213.3	227.8	243.1	260.3	279.7	300.5
142.5°	171.8	176.4	183.7	192.9	203.4	216.6	229.9	244.5	260.3	277.6	295.5
145°	179.0	183.5	189.8	198.4	208.3	220.1	232.3	245.4	259.4	273.9	288.3
147.5°	186.1	190.0	196.5	203.7	212.7	223.7	234.3	245.8	257.8	270.5	282.4
150°	191.2	194.8	200.2	207.0	215.6	225.5	235.4	245.8	256.7	268.0	278.8
152.5°	195.5	199.1	204.1	210.2	218.1	227.0	236.1	245.1	254.8	265.1	274.8
155°	202.5	205.2	209.7	214.7	221.4	229.1	236.8	244.0	252.2	260.7	268.9
157.5°	208.4	211.0	214.4	218.8	224.1	230.7	236.8	242.9	249.4	256.4	262.4
160°	212.4	214.2	217.4	220.9	225.9	231.4	236.8	241.8	247.2	253.1	258.5
162.5°	215.6	217.1	219.9	223.2	227.0	232.1	236.8	240.7	245.0	250.2	254.5
165°	220.1	220.9	223.2	225.5	228.2	232.3	235.9	238.6	241.8	245.4	249.0
167.5°	223.7	224.1	225.9	227.1	229.2	232.2	234.8	236.5	238.5	241.1	243.7
170°	225.5	225.9	227.3	228.2	229.6	231.8	234.1	235.0	236.3	238.1	240.4
172.5°	227.3	227.4	228.4	228.9	229.9	231.5	233.4	233.5	234.2	235.6	237.5
175°	229.1	229.1	229.6	230.0	230.0	230.9	232.3	231.8	231.8	232.7	233.6
177.5°	230.0	229.7	230.0	230.0	230.0	230.4	231.1	230.4	230.4	230.8	231.1
180°	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	765.0	765.0	765.0	765.0	765.0	765.0	765.0
2.5°	802.5	803.5	804.2	806.7	806.9	809.1	806.9
5°	868.9	873.2	880.0	886.8	887.4	891.7	884.0
7.5°	943.3	953.3	959.6	970.5	974.9	977.6	973.1
10°	994.7	1003.9	1020.3	1028.3	1036.3	1037.4	1033.8
12.5°	1044.2	1058.8	1071.7	1087.0	1086.6	1097.4	1093.4
15°	1110.2	1125.3	1143.2	1160.2	1166.3	1166.3	1171.2
17.5°	1157.3	1185.0	1203.5	1216.8	1231.4	1233.9	1232.2
20°	1189.1	1219.0	1238.7	1256.0	1265.9	1268.7	1268.7
22.5°	1212.8	1238.3	1257.5	1273.0	1281.2	1284.4	1283.4
25°	1229.2	1251.1	1262.8	1267.4	1269.6	1268.9	1263.1
27.5°	1206.7	1205.8	1198.3	1184.2	1173.5	1167.0	1159.7
30°	1163.9	1147.8	1129.3	1109.0	1082.8	1062.7	1056.6
32.5°	1100.0	1064.0	1032.7	998.8	970.6	950.5	942.1
35°	976.4	919.4	872.9	832.2	802.6	784.1	777.9
37.5°	829.9	774.7	717.1	677.6	653.1	634.4	627.4
40°	736.7	676.5	626.3	589.3	564.0	545.9	545.6
42.5°	651.6	594.2	546.9	520.3	493.1	481.0	480.9
45°	533.5	487.6	447.5	426.6	410.3	400.4	397.6
47.5°	441.7	403.8	377.1	360.4	347.1	340.8	336.7
50°	390.2	357.0	335.6	321.2	313.8	305.8	305.1
52.5°	347.3	320.4	303.9	292.1	282.7	277.9	278.1
55°	291.9	270.6	258.9	249.9	242.6	238.8	237.3
57.5°	245.9	230.0	221.4	213.3	210.1	207.2	206.4
60°	217.3	206.5	198.5	192.0	187.4	186.5	186.2
62.5°	193.6	182.4	176.8	171.8	168.4	167.0	166.4
65°	159.6	151.3	146.4	142.4	141.2	139.0	138.7
67.5°	128.7	123.7	120.5	117.7	116.0	115.9	115.9
70°	109.7	106.9	104.2	102.7	101.7	101.1	101.1
72.5°	93.5	91.4	89.1	88.3	88.2	87.5	87.3
75°	71.2	69.1	69.3	67.8	66.5	65.0	64.1
77.5°	50.5	49.0	48.6	48.5	47.4	47.2	47.7
80°	39.1	37.6	37.3	37.6	37.3	36.4	36.4
82.5°	29.8	28.5	28.2	28.0	27.6	28.0	27.5
85°	16.0	15.4	15.4	15.4	16.0	15.7	15.4
87.5°	7.4	7.2	7.4	7.3	7.4	7.1	7.3
90°	8.6	9.0	9.0	9.5	9.9	9.5	9.5
92.5°	66.8	53.2	44.1	38.7	36.4	34.8	34.8
95°	264.8	204.2	160.4	138.3	124.3	116.1	110.3
97.5°	468.7	424.5	377.3	344.9	317.7	304.1	294.7
100°	554.1	531.9	498.4	459.1	431.6	418.0	414.4
102.5°	587.3	593.7	579.8	555.6	535.7	521.4	518.5
105°	584.3	629.1	647.6	648.5	644.8	638.5	635.8
107.5°	537.7	600.8	641.0	663.4	673.7	678.2	679.4
110°	501.6	567.1	616.9	649.0	667.9	676.0	680.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	469.8	531.7	581.4	617.8	640.8	652.2	658.8
115°	433.4	486.2	529.7	565.3	592.5	606.9	610.5
117.5°	412.6	454.2	490.9	521.4	544.2	558.8	561.7
120°	403.5	439.7	471.7	497.6	517.5	529.2	534.2
122.5°	397.8	430.6	458.8	480.5	497.6	507.5	512.5
125°	388.6	419.8	444.7	462.7	475.9	484.4	487.1
127.5°	377.9	409.0	432.5	450.8	462.4	469.6	472.3
130°	369.2	399.9	423.9	442.4	453.7	461.0	463.7
132.5°	359.4	389.4	413.4	431.6	444.3	451.1	453.9
135°	344.8	372.3	395.0	413.0	425.7	432.9	435.6
137.5°	330.8	354.0	374.5	391.3	403.9	409.8	413.0
140°	321.8	342.1	361.1	376.9	386.8	393.2	396.8
142.5°	314.2	331.6	348.1	362.0	371.3	376.9	379.4
145°	303.6	317.3	329.9	341.2	348.9	353.4	355.6
147.5°	294.6	305.5	315.4	323.8	330.3	333.7	334.6
150°	289.2	298.3	306.4	313.6	319.5	322.2	322.7
152.5°	283.8	292.1	298.8	304.9	309.7	311.3	311.8
155°	276.1	282.9	288.3	292.9	296.4	297.8	297.8
157.5°	268.5	274.2	278.5	282.0	284.7	285.5	285.5
160°	263.5	268.4	272.0	274.7	277.5	277.9	277.9
162.5°	258.7	262.6	265.9	267.9	270.6	271.1	270.7
165°	251.7	254.8	257.1	259.0	260.7	260.3	259.8
167.5°	245.7	248.3	249.6	250.6	251.7	251.6	251.3
170°	241.8	243.6	244.9	245.8	246.3	245.8	245.8
172.5°	238.5	239.6	240.6	241.1	241.6	241.1	240.4
175°	234.1	235.0	235.0	235.0	235.9	235.0	234.1
177.5°	231.5	231.5	231.8	231.5	231.8	231.1	230.4
180°	230.0	230.0	230.0	230.0	230.0	230.0	230.0

(END OF REPORT)