

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: P332909-930

Luminaire Tested: **SA4XXRDIP-C575D810U930-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332909-930
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-C575D810U930-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 575 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 810 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

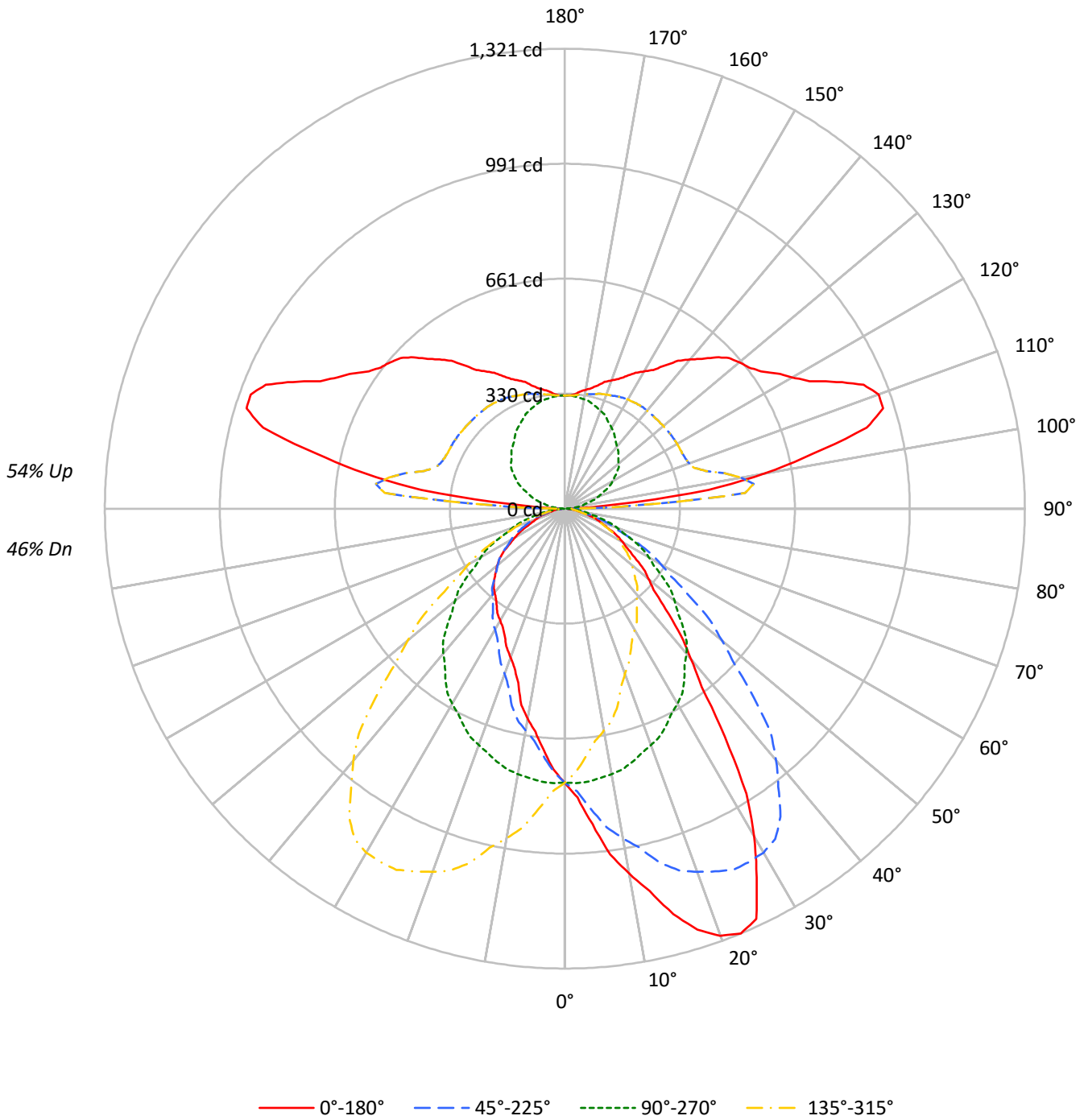
Lumens per Lamp: N/A
Luminaire Lumens: 4351.9 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 38.4
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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	106	106	106	106	97	97	97	97	81	81	81	81	66	66	66	66	52	52	52	46
1	97	93	89	86	89	86	82	80	72	69	67	67	59	57	56	56	47	46	45	39
2	89	82	76	71	81	75	70	66	63	60	56	56	52	49	47	47	42	40	38	34
3	81	72	65	60	74	67	61	56	56	52	48	48	46	43	40	40	37	35	33	29
4	75	64	56	51	68	59	53	47	50	45	41	41	42	38	35	35	34	31	29	25
5	69	57	49	44	63	53	46	41	45	40	36	36	37	34	30	30	30	28	25	22
6	63	51	44	38	58	48	41	36	41	35	31	31	34	30	27	27	28	25	22	20
7	58	47	39	33	54	43	36	31	37	31	28	28	31	27	24	24	25	22	20	17
8	54	42	35	30	50	39	33	28	34	28	25	25	28	24	21	21	23	20	18	16
9	51	39	31	26	46	36	29	25	31	26	22	22	26	22	19	19	22	19	16	14
10	47	35	28	24	43	33	27	22	28	23	20	20	24	20	17	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6356	6356	6356	6356
5°	7373	6375	5635	6375
10°	8722	6347	5029	6347
15°	10074	6288	4322	6288
20°	11217	6208	3908	6208
25°	11580	6128	3628	6128
30°	10137	6032	3459	6032
35°	7890	5889	3358	5889
40°	5917	5727	3303	5727
45°	4672	5465	3273	5465
50°	3945	5163	3180	5163
55°	3438	4830	3009	4830
60°	3094	4487	2662	4487
65°	2728	4115	2290	4115
70°	2455	3729	2068	3729
75°	2059	3306	1762	3306
80°	1739	2817	1650	2817
85°	1473	2205	1473	2205



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	1.8
10°-20°	230.1	5.3
20°-30°	359.9	8.3
30°-40°	400.1	9.2
40°-50°	355.0	8.2
50°-60°	276.6	6.4
60°-70°	181.1	4.2
70°-80°	89.1	2.0
80°-90°	23.8	0.5
90°-100°	234.4	5.4
100°-110°	487.8	11.2
110°-120°	436.9	10.0
120°-130°	367.5	8.4
130°-140°	306.4	7.0
140°-150°	234.1	5.4
150°-160°	164.6	3.8
160°-170°	96.8	2.2
170°-180°	31.5	0.7
0°-30°	666.3	15.3
0°-40°	1066.4	24.5
0°-60°	1698.1	39.0
0°-90°	1992.0	45.8
90°-120°	1159.1	26.6
90°-150°	2067.1	47.5
90°-180°	2360.0	54.2
0°-180°	4351.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	787	787	787	787	787	
5°	910	787	695	787	910	92
15°	1205	752	517	752	1205	343
25°	1300	688	407	688	1300	577
35°	801	598	341	598	801	502
45°	409	479	287	479	409	324
55°	244	343	214	343	244	222
65°	143	215	120	215	143	144
75°	66	106	56	106	66	73
85°	16	24	16	24	16	18
90°	13	1	13	1	13	12
95°	156	21	156	21	156	241
105°	897	75	897	75	897	887
115°	861	131	861	131	861	855
125°	687	183	687	183	687	624
135°	615	217	615	217	615	474
145°	502	250	502	250	502	318
155°	420	285	420	285	420	196
165°	367	310	367	310	367	105
175°	330	324	330	324	330	32
180°	324	324	324	324	324	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	830.5	832.7	830.5	830.2	827.7	827.0	825.9	822.6	816.5	812.9	813.8
5°	909.8	917.7	913.3	912.6	905.6	898.7	894.2	884.1	873.3	866.0	860.0
7.5°	1001.5	1006.1	1003.3	998.8	987.6	981.1	970.9	957.5	938.2	923.3	909.9
10°	1064.0	1067.7	1066.5	1058.3	1050.0	1033.1	1023.7	1004.9	980.5	961.2	943.1
12.5°	1125.4	1129.4	1118.3	1118.7	1103.0	1089.7	1074.6	1051.2	1022.9	997.9	975.3
15°	1205.4	1200.4	1200.4	1194.0	1176.6	1158.1	1142.6	1117.9	1082.3	1052.6	1021.2
17.5°	1268.1	1269.9	1267.3	1252.3	1238.6	1219.6	1191.1	1162.2	1129.2	1089.2	1057.1
20°	1305.7	1305.7	1302.8	1292.7	1274.9	1254.6	1223.8	1192.5	1150.6	1110.3	1074.1
22.5°	1320.9	1321.9	1318.6	1310.2	1294.2	1274.4	1248.2	1216.3	1173.1	1127.8	1083.0
25°	1300.0	1305.9	1306.6	1304.4	1299.7	1287.6	1265.1	1232.4	1193.7	1144.5	1096.3
27.5°	1193.5	1201.1	1207.8	1218.7	1233.3	1241.0	1241.9	1225.3	1191.6	1144.3	1095.8
30°	1087.4	1093.7	1114.4	1141.3	1162.3	1181.3	1197.8	1202.2	1183.2	1140.7	1089.6
32.5°	969.6	978.3	998.9	1027.9	1062.8	1095.0	1132.1	1151.0	1150.5	1124.9	1077.7
35°	800.6	807.0	826.1	856.5	898.4	946.2	1004.9	1050.6	1081.7	1079.5	1050.6
37.5°	645.7	652.9	672.1	697.4	738.0	797.3	854.1	917.0	974.5	1006.8	997.1
40°	561.5	561.8	580.5	606.5	644.6	696.3	758.1	827.9	892.0	944.4	954.5
42.5°	495.0	495.0	507.4	535.5	562.9	611.6	670.6	739.9	814.9	875.3	902.2
45°	409.2	412.1	422.2	439.0	460.6	501.8	549.1	613.5	697.6	769.2	814.0
47.5°	346.5	350.7	357.2	370.9	388.1	415.6	454.6	512.5	580.9	659.7	723.4
50°	314.1	314.7	322.9	330.5	345.4	367.4	401.6	449.8	512.7	588.4	659.2
52.5°	286.2	286.0	291.0	300.6	312.7	329.8	357.4	401.4	457.1	525.0	598.0
55°	244.3	245.8	249.6	257.2	266.4	278.5	300.4	333.4	377.2	435.2	501.5
57.5°	212.4	213.2	216.2	219.5	227.9	236.7	253.1	276.0	312.9	360.4	422.2
60°	191.6	191.9	192.9	197.6	204.3	212.5	223.6	243.0	274.1	317.6	366.4
62.5°	171.3	171.9	173.3	176.8	182.0	187.7	199.3	214.8	240.6	277.7	321.7
65°	142.8	143.1	145.3	146.6	150.7	155.7	164.3	174.8	192.6	223.6	257.0
67.5°	119.3	119.3	119.4	121.2	124.0	127.3	132.5	140.9	154.3	173.3	202.7
70°	104.0	104.0	104.7	105.7	107.2	110.1	112.9	119.3	129.1	144.6	167.1
72.5°	89.8	90.1	90.7	90.9	91.7	94.1	96.2	100.2	107.5	119.3	137.5
75°	66.0	66.9	68.5	69.8	71.3	71.1	73.3	75.8	78.0	85.0	95.5
77.5°	49.1	48.6	48.8	49.9	50.1	50.4	51.9	53.9	55.6	58.9	62.6
80°	37.4	37.4	38.4	38.7	38.4	38.7	40.3	41.3	41.9	43.1	46.6
82.5°	28.3	28.8	28.5	28.8	29.0	29.4	30.7	30.8	31.5	32.0	33.4
85°	15.9	16.1	16.5	15.9	15.9	15.9	16.5	16.8	17.4	17.1	17.8
87.5°	8.2	8.0	8.4	8.2	8.4	8.2	8.2	8.6	8.0	8.4	8.2
90°	13.4	13.4	14.0	13.4	12.7	12.7	12.1	11.5	10.8	11.5	10.2
92.5°	49.1	49.1	51.3	54.7	62.2	75.0	94.2	125.2	168.4	202.2	177.0
95°	155.6	163.9	175.3	195.1	226.3	288.1	373.6	472.4	534.3	519.6	392.1
97.5°	415.8	429.0	448.2	486.6	532.3	598.8	661.2	697.9	671.2	547.2	367.0
100°	584.6	589.7	608.8	647.7	703.2	750.3	781.5	768.8	675.7	512.6	332.8
102.5°	731.5	735.6	755.7	783.9	817.9	837.6	828.5	765.2	637.5	469.2	309.8
105°	897.0	900.8	909.7	914.8	913.5	887.4	824.3	714.0	568.0	418.2	290.1
107.5°	958.4	956.8	950.4	935.9	904.3	847.5	758.6	641.2	511.9	389.6	286.5
110°	959.4	953.7	942.2	915.4	870.2	800.1	707.6	597.4	483.9	379.9	287.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	929.4	920.1	904.0	871.6	820.2	750.1	662.8	565.2	468.1	375.4	290.6
115°	861.3	856.1	835.8	797.5	747.1	685.9	611.4	533.0	453.2	372.9	296.4
117.5°	792.3	788.3	767.7	735.6	692.6	640.7	582.0	517.1	446.6	372.3	302.7
120°	753.5	746.5	729.9	701.9	665.5	620.3	569.3	510.0	443.0	372.3	307.3
122.5°	722.9	715.9	701.9	677.9	647.2	607.6	561.1	503.9	439.0	371.8	311.9
125°	687.2	683.4	671.3	652.8	627.3	592.2	548.3	493.4	432.2	371.0	318.8
127.5°	666.3	662.5	652.3	635.9	610.3	576.9	533.0	480.7	423.1	369.7	324.2
130°	654.1	650.3	640.1	624.1	597.9	564.2	520.8	470.5	417.6	369.1	328.3
132.5°	640.3	636.5	626.8	608.8	583.2	549.4	507.0	459.7	412.5	368.6	331.9
135°	614.6	610.7	600.5	582.7	557.2	525.3	486.4	445.0	404.8	367.9	337.2
137.5°	582.7	578.0	569.6	552.0	528.2	499.5	466.7	431.6	398.2	367.7	340.4
140°	559.7	554.6	545.7	531.7	509.4	482.6	453.9	424.0	394.6	367.2	343.0
142.5°	535.2	531.7	523.7	510.8	491.0	467.8	443.2	416.8	391.6	367.2	345.0
145°	501.7	498.6	492.1	481.4	465.4	447.5	428.4	406.8	386.3	365.9	346.2
147.5°	472.0	470.8	466.0	456.7	445.0	431.0	415.6	398.4	381.6	363.6	346.8
150°	455.2	454.5	450.7	442.5	432.2	420.8	408.0	393.3	378.1	362.1	346.8
152.5°	439.9	439.2	436.9	430.2	421.5	412.1	400.3	387.8	374.0	359.5	345.8
155°	420.1	420.1	418.2	413.1	406.8	399.1	389.6	379.3	367.9	355.7	344.2
157.5°	402.8	402.8	401.6	397.8	393.0	386.9	378.8	370.2	361.6	351.8	342.6
160°	392.1	392.1	391.4	387.6	383.8	378.7	371.7	364.7	357.0	348.7	341.0
162.5°	381.9	382.4	381.7	377.9	375.1	370.6	365.0	359.1	352.9	345.7	339.6
165°	366.6	367.2	367.9	365.3	362.7	359.5	355.1	351.2	346.2	341.0	336.6
167.5°	354.4	355.0	355.1	353.4	352.1	350.3	346.7	343.7	340.1	336.5	333.5
170°	346.8	346.8	347.4	346.8	345.5	343.6	341.0	339.2	336.0	333.4	331.5
172.5°	339.2	340.1	340.8	340.1	339.4	338.0	336.5	335.1	332.4	330.4	329.5
175°	330.2	331.5	332.8	331.5	331.5	331.5	330.2	329.6	328.3	327.0	327.0
177.5°	325.0	326.0	327.0	326.5	327.0	326.5	326.5	326.0	325.5	325.0	325.0
180°	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	811.2	807.6	805.8	801.8	797.0	794.4	792.1	788.9	784.6	780.0	776.7
5°	852.4	844.7	835.2	823.8	813.7	803.8	795.2	786.7	776.9	766.7	756.6
7.5°	894.6	879.6	863.5	844.7	826.6	810.0	794.8	780.2	763.7	748.9	735.4
10°	924.1	903.8	881.3	857.5	833.6	813.0	792.7	774.3	754.0	736.0	720.7
12.5°	947.9	924.1	897.0	867.3	838.7	813.8	790.4	766.5	743.4	723.7	703.4
15°	987.5	954.8	918.4	882.8	845.7	811.8	780.3	752.4	726.1	698.5	679.1
17.5°	1014.7	975.9	931.6	888.9	845.1	805.0	768.8	735.6	705.2	677.0	654.0
20°	1030.9	988.1	939.0	890.4	841.2	798.4	759.5	722.6	691.2	660.8	637.0
22.5°	1040.1	992.7	939.0	888.1	837.2	790.8	748.0	709.7	675.5	645.1	618.7
25°	1043.0	992.2	937.3	879.0	823.2	774.0	729.6	688.0	650.0	619.5	591.6
27.5°	1038.9	979.2	923.0	863.1	805.5	753.7	707.0	663.3	625.3	592.6	563.9
30°	1032.8	968.8	908.5	846.4	788.0	738.2	689.0	647.1	607.5	573.6	544.7
32.5°	1019.7	956.1	891.3	827.5	768.4	717.1	670.5	628.4	589.5	554.7	524.1
35°	993.5	929.1	858.7	793.4	735.3	682.0	638.2	597.6	560.5	523.4	491.1
37.5°	959.0	893.3	823.2	751.7	693.6	643.3	603.1	565.0	528.7	494.9	459.0
40°	926.6	866.7	794.3	723.3	663.7	615.1	578.0	543.4	507.0	473.3	437.4
42.5°	887.3	836.2	763.1	691.8	632.9	586.1	551.5	517.8	484.6	452.0	414.6
45°	821.6	782.9	714.4	645.9	586.5	540.2	508.5	478.7	449.5	418.4	383.2
47.5°	746.3	720.2	661.0	590.8	536.0	494.3	463.7	439.3	414.6	383.5	352.6
50°	694.1	677.3	620.2	556.1	503.8	465.4	434.0	411.1	390.5	360.7	333.0
52.5°	638.2	629.3	581.1	519.8	469.2	431.6	404.8	384.3	363.4	338.6	312.7
55°	553.3	558.0	517.1	464.1	416.5	384.8	360.4	343.2	325.5	304.5	284.5
57.5°	466.3	483.7	456.2	409.7	365.1	335.8	317.4	303.0	288.1	270.7	253.6
60°	414.3	428.8	413.4	372.4	333.4	306.1	289.0	277.9	262.9	247.1	234.1
62.5°	363.5	379.1	369.9	336.9	300.7	277.2	262.1	251.8	240.7	226.8	213.3
65°	299.8	309.9	305.5	282.7	257.0	236.9	223.0	215.4	205.2	195.1	183.0
67.5°	229.6	249.2	246.6	234.5	212.3	196.7	187.5	180.8	171.5	164.0	155.8
70°	188.7	206.8	206.5	196.7	184.6	170.0	163.7	158.0	149.7	142.4	135.7
72.5°	154.5	171.0	173.5	166.0	157.8	146.7	140.6	136.6	128.7	123.7	118.2
75°	108.2	120.3	123.4	123.4	119.6	113.9	108.5	106.0	100.2	95.8	92.6
77.5°	70.9	78.5	83.5	84.6	85.2	83.3	78.8	77.0	72.7	71.1	68.1
80°	50.1	55.2	60.9	62.8	64.4	63.8	61.9	60.6	56.5	54.9	53.6
82.5°	34.7	37.4	42.2	46.3	45.9	47.5	45.9	44.8	41.7	41.2	39.9
85°	18.1	18.4	19.0	21.9	23.5	24.1	24.5	23.8	22.8	22.8	20.6
87.5°	7.9	7.6	7.3	7.3	7.5	8.4	8.7	8.7	8.2	7.9	7.3
90°	8.9	8.9	5.1	5.1	4.5	3.8	1.9	0.7	1.9	3.8	4.5
92.5°	128.7	79.3	46.9	33.7	24.4	16.6	10.6	7.3	10.6	16.6	24.4
95°	239.7	135.2	79.7	52.9	37.6	29.4	22.9	21.0	22.9	29.4	37.6
97.5°	215.5	129.1	86.4	64.0	50.9	43.2	37.7	37.7	37.7	43.2	50.9
100°	202.8	130.7	93.1	72.6	60.6	52.9	48.4	48.4	48.4	52.9	60.6
102.5°	199.2	135.7	101.7	82.3	70.8	63.6	59.7	58.6	59.7	63.6	70.8
105°	200.8	147.9	117.3	98.8	87.3	79.7	76.5	74.6	76.5	79.7	87.3
107.5°	210.3	162.1	134.0	115.8	104.8	96.6	93.4	92.2	93.4	96.6	104.8
110°	217.4	172.8	144.7	127.5	116.0	108.4	105.2	104.0	105.2	108.4	116.0



TEST NUMBER: P332909-930

CATALOG NUMBER: SA4XXRDIP-C575D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	225.0	183.0	156.0	138.7	127.3	120.1	116.4	115.1	116.4	120.1	127.3
115°	237.2	198.9	173.4	156.2	144.1	137.7	133.2	131.3	133.2	137.7	144.1
117.5°	249.5	214.3	190.1	172.3	160.9	153.9	149.9	148.1	149.9	153.9	160.9
120°	258.2	225.0	200.8	183.0	172.1	165.1	160.6	159.4	160.6	165.1	172.1
122.5°	266.4	235.2	211.0	193.6	181.8	175.3	170.9	169.6	170.9	175.3	181.8
125°	278.6	249.2	226.3	208.5	196.3	189.3	185.5	183.0	185.5	189.3	196.3
127.5°	289.2	262.3	240.1	222.1	209.5	201.5	196.9	194.9	196.9	201.5	209.5
130°	295.8	270.9	249.2	230.8	218.7	209.1	204.0	201.5	204.0	209.1	218.7
132.5°	302.4	278.1	256.4	239.0	225.8	216.8	210.1	208.1	210.1	216.8	225.8
135°	311.1	288.1	267.1	250.5	237.2	226.3	220.0	217.4	220.0	226.3	237.2
137.5°	317.2	295.8	276.1	260.3	246.5	236.1	229.1	226.7	229.1	236.1	246.5
140°	321.3	300.9	281.8	266.4	253.1	242.2	235.2	233.3	235.2	242.2	253.1
142.5°	324.3	305.5	286.9	272.1	259.2	248.9	242.4	240.4	242.4	248.9	259.2
145°	327.7	310.5	293.9	279.9	267.7	258.9	252.4	250.5	252.4	258.9	267.7
147.5°	330.6	315.6	300.0	287.4	277.3	268.2	262.5	261.9	262.5	268.2	277.3
150°	332.2	318.1	304.1	292.0	282.4	274.8	269.7	269.0	269.7	274.8	282.4
152.5°	333.1	320.2	307.7	296.6	288.0	280.9	275.8	275.7	275.8	280.9	288.0
155°	334.0	323.2	312.3	302.8	295.8	289.4	285.6	284.9	285.6	289.4	295.8
157.5°	334.0	325.4	316.2	308.7	302.6	297.6	294.0	294.0	294.0	297.6	302.6
160°	334.0	326.4	318.8	311.8	306.6	302.1	299.6	299.6	299.6	302.1	306.6
162.5°	334.0	327.4	320.2	314.8	310.2	306.2	304.2	304.8	304.2	306.2	310.2
165°	332.8	327.7	322.0	318.1	315.0	311.8	310.5	310.5	310.5	311.8	315.0
167.5°	331.3	327.6	323.3	320.4	318.6	316.2	315.6	316.2	315.6	316.2	318.6
170°	330.2	327.0	323.8	322.0	320.7	318.8	318.1	318.8	318.1	318.8	320.7
172.5°	329.2	326.5	324.3	322.9	322.2	320.8	320.7	321.3	320.7	320.8	322.2
175°	327.7	325.8	324.5	324.5	323.8	323.2	323.2	323.8	323.2	323.2	323.8
177.5°	326.0	325.0	324.5	324.5	324.5	324.0	324.5	325.0	324.5	324.0	324.5
180°	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5



TEST NUMBER: P332909-930

CATALOG NUMBER: SA4XXRDIP-C575D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	773.1	770.6	767.3	763.4	758.9	754.9	753.1	754.6	755.4	753.3	753.1
5°	749.6	741.7	735.3	725.8	718.2	711.8	707.4	705.5	706.1	701.1	699.8
7.5°	723.1	713.7	703.4	692.0	681.5	672.2	667.3	664.6	659.3	657.0	653.1
10°	706.1	693.4	683.3	669.9	657.9	646.8	641.4	637.0	631.6	629.0	623.6
12.5°	688.6	673.9	662.8	648.9	636.6	623.2	618.1	609.8	601.4	596.1	589.1
15°	663.9	646.2	632.5	616.0	601.4	586.2	572.6	557.3	551.6	539.6	532.6
17.5°	635.0	617.0	600.1	578.0	555.5	536.6	522.0	507.5	498.7	491.1	487.5
20°	616.0	599.6	576.1	550.4	525.3	504.3	492.6	483.1	473.6	468.2	464.4
22.5°	598.0	577.0	549.7	522.0	496.9	480.5	470.6	460.8	453.1	447.9	442.9
25°	567.9	540.2	511.4	479.6	462.5	448.3	437.4	429.5	424.8	418.1	415.6
27.5°	536.8	503.4	471.5	450.2	432.4	419.3	409.9	404.0	397.9	393.6	390.4
30°	512.9	479.0	450.5	430.2	412.1	401.3	393.6	386.7	382.0	378.5	375.9
32.5°	489.3	455.4	431.4	409.6	395.3	384.8	376.7	371.5	367.7	363.2	361.7
35°	455.2	425.1	404.1	384.5	369.9	360.4	354.0	348.6	345.4	344.2	343.2
37.5°	422.4	397.7	375.2	359.1	346.1	338.6	331.1	328.5	326.3	324.0	325.1
40°	401.6	378.5	358.5	341.4	330.8	322.6	318.1	315.0	313.1	313.1	313.1
42.5°	383.6	360.9	341.4	326.1	315.6	308.7	303.7	301.0	300.4	300.1	301.7
45°	355.6	334.7	315.0	302.3	293.4	286.4	283.6	281.4	281.4	282.7	283.0
47.5°	327.9	308.3	292.4	278.3	270.1	265.8	263.3	262.1	262.3	263.5	265.0
50°	310.9	291.6	276.0	263.3	255.7	251.5	249.3	248.7	249.3	249.3	251.5
52.5°	292.4	275.0	259.8	249.1	240.4	236.6	235.4	234.5	234.9	235.9	236.8
55°	265.2	249.6	235.1	224.9	218.6	216.1	213.2	213.5	212.9	213.5	213.5
57.5°	238.0	224.0	210.4	202.4	196.8	193.1	190.0	190.9	190.0	189.8	189.3
60°	220.5	205.2	194.4	187.2	180.8	177.7	174.8	175.5	174.5	173.8	172.6
62.5°	201.5	188.7	178.5	171.5	166.3	162.7	159.8	159.1	156.9	154.8	152.0
65°	173.8	163.4	154.2	147.5	142.8	139.9	137.7	135.7	131.0	126.0	123.4
67.5°	147.0	139.4	130.9	125.2	121.4	117.6	113.4	110.1	105.7	102.9	101.3
70°	129.7	122.5	115.1	109.7	105.7	102.2	97.3	95.1	92.0	90.7	89.1
72.5°	113.2	106.5	99.6	94.8	90.4	87.6	84.0	81.7	80.3	79.8	78.2
75°	88.2	82.8	77.7	73.3	69.8	67.9	66.3	64.7	64.1	61.2	59.6
77.5°	64.3	60.7	57.6	54.5	51.9	50.7	47.6	45.8	44.8	43.4	43.0
80°	50.1	47.6	44.4	42.5	39.1	37.7	36.4	36.2	35.9	35.5	35.2
82.5°	37.7	35.1	32.0	30.8	29.9	29.1	28.4	28.0	27.7	27.9	27.9
85°	19.0	17.8	17.8	17.4	17.1	16.8	16.5	16.5	16.1	16.5	16.1
87.5°	7.3	7.1	7.9	7.3	7.9	8.2	7.7	7.9	8.2	7.9	7.9
90°	5.1	5.1	8.9	8.9	10.2	11.5	10.8	11.5	12.1	12.7	12.7
92.5°	33.7	46.9	79.3	128.7	177.0	202.2	168.4	125.2	94.2	75.0	62.2
95°	52.9	79.7	135.2	239.7	392.1	519.6	534.3	472.4	373.6	288.1	226.3
97.5°	64.0	86.4	129.1	215.5	367.0	547.2	671.2	697.9	661.2	598.8	532.3
100°	72.6	93.1	130.7	202.8	332.8	512.6	675.7	768.8	781.5	750.3	703.2
102.5°	82.3	101.7	135.7	199.2	309.8	469.2	637.5	765.2	828.5	837.6	817.9
105°	98.8	117.3	147.9	200.8	290.1	418.2	568.0	714.0	824.3	887.4	913.5
107.5°	115.8	134.0	162.1	210.3	286.5	389.6	511.9	641.2	758.6	847.5	904.3
110°	127.5	144.7	172.8	217.4	287.5	379.9	483.9	597.4	707.6	800.1	870.2



TEST NUMBER: P332909-930

CATALOG NUMBER: SA4XXRDIP-C575D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	138.7	156.0	183.0	225.0	290.6	375.4	468.1	565.2	662.8	750.1	820.2
115°	156.2	173.4	198.9	237.2	296.4	372.9	453.2	533.0	611.4	685.9	747.1
117.5°	172.3	190.1	214.3	249.5	302.7	372.3	446.6	517.1	582.0	640.7	692.6
120°	183.0	200.8	225.0	258.2	307.3	372.3	443.0	510.0	569.3	620.3	665.5
122.5°	193.6	211.0	235.2	266.4	311.9	371.8	439.0	503.9	561.1	607.6	647.2
125°	208.5	226.3	249.2	278.6	318.8	371.0	432.2	493.4	548.3	592.2	627.3
127.5°	222.1	240.1	262.3	289.2	324.2	369.7	423.1	480.7	533.0	576.9	610.3
130°	230.8	249.2	270.9	295.8	328.3	369.1	417.6	470.5	520.8	564.2	597.9
132.5°	239.0	256.4	278.1	302.4	331.9	368.6	412.5	459.7	507.0	549.4	583.2
135°	250.5	267.1	288.1	311.1	337.2	367.9	404.8	445.0	486.4	525.3	557.2
137.5°	260.3	276.1	295.8	317.2	340.4	367.7	398.2	431.6	466.7	499.5	528.2
140°	266.4	281.8	300.9	321.3	343.0	367.2	394.6	424.0	453.9	482.6	509.4
142.5°	272.1	286.9	305.5	324.3	345.0	367.2	391.6	416.8	443.2	467.8	491.0
145°	279.9	293.9	310.5	327.7	346.2	365.9	386.3	406.8	428.4	447.5	465.4
147.5°	287.4	300.0	315.6	330.6	346.8	363.6	381.6	398.4	415.6	431.0	445.0
150°	292.0	304.1	318.1	332.2	346.8	362.1	378.1	393.3	408.0	420.8	432.2
152.5°	296.6	307.7	320.2	333.1	345.8	359.5	374.0	387.8	400.3	412.1	421.5
155°	302.8	312.3	323.2	334.0	344.2	355.7	367.9	379.3	389.6	399.1	406.8
157.5°	308.7	316.2	325.4	334.0	342.6	351.8	361.6	370.2	378.8	386.9	393.0
160°	311.8	318.8	326.4	334.0	341.0	348.7	357.0	364.7	371.7	378.7	383.8
162.5°	314.8	320.2	327.4	334.0	339.6	345.7	352.9	359.1	365.0	370.6	375.1
165°	318.1	322.0	327.7	332.8	336.6	341.0	346.2	351.2	355.1	359.5	362.7
167.5°	320.4	323.3	327.6	331.3	333.5	336.5	340.1	343.7	346.7	350.3	352.1
170°	322.0	323.8	327.0	330.2	331.5	333.4	336.0	339.2	341.0	343.6	345.5
172.5°	322.9	324.3	326.5	329.2	329.5	330.4	332.4	335.1	336.5	338.0	339.4
175°	324.5	324.5	325.8	327.7	327.0	327.0	328.3	329.6	330.2	331.5	331.5
177.5°	324.5	324.5	325.0	326.0	325.0	325.0	325.5	326.0	326.5	326.5	327.0
180°	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5



TEST NUMBER: P332909-930

CATALOG NUMBER: SA4XXRDIP-C575D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	751.5	752.0	750.3	749.7	750.3	752.0	751.5	753.1	753.3	755.4	754.6
5°	697.2	696.6	695.0	695.4	695.0	696.6	697.2	699.8	701.1	706.1	705.5
7.5°	650.8	648.3	649.1	646.5	649.1	648.3	650.8	653.1	657.0	659.3	664.6
10°	622.4	618.9	616.0	613.5	616.0	618.9	622.4	623.6	629.0	631.6	637.0
12.5°	583.6	580.6	576.7	577.5	576.7	580.6	583.6	589.1	596.1	601.4	609.8
15°	528.5	523.7	516.1	517.1	516.1	523.7	528.5	532.6	539.6	551.6	557.3
17.5°	481.8	481.9	478.4	479.2	478.4	481.9	481.8	487.5	491.1	498.7	507.5
20°	457.7	455.5	455.8	454.9	455.8	455.5	457.7	464.4	468.2	473.6	483.1
22.5°	441.0	438.3	436.0	434.1	436.0	438.3	441.0	442.9	447.9	453.1	460.8
25°	412.7	410.8	408.0	407.3	408.0	410.8	412.7	415.6	418.1	424.8	429.5
27.5°	387.8	387.4	386.3	384.8	386.3	387.4	387.8	390.4	393.6	397.9	404.0
30°	373.3	372.8	372.1	371.1	372.1	372.8	373.3	375.9	378.5	382.0	386.7
32.5°	360.4	360.0	359.4	359.5	359.4	360.0	360.4	361.7	363.2	367.7	371.5
35°	341.9	341.6	341.0	340.7	341.0	341.6	341.9	343.2	344.2	345.4	348.6
37.5°	324.7	325.5	325.1	325.1	325.1	325.5	324.7	325.1	324.0	326.3	328.5
40°	312.7	313.1	313.7	313.4	313.7	313.1	312.7	313.1	313.1	313.1	315.0
42.5°	302.9	303.0	303.9	302.7	303.9	303.0	302.9	301.7	300.1	300.4	301.0
45°	285.2	287.1	286.7	286.7	286.7	287.1	285.2	283.0	282.7	281.4	281.4
47.5°	265.8	267.5	267.9	267.8	267.9	267.5	265.8	265.0	263.5	262.3	262.1
50°	253.2	252.5	253.5	253.2	253.5	252.5	253.2	251.5	249.3	249.3	248.7
52.5°	237.7	237.8	237.7	237.4	237.7	237.8	237.7	236.8	235.9	234.9	234.5
55°	213.8	214.1	213.5	213.8	213.5	214.1	213.8	213.5	213.5	212.9	213.5
57.5°	187.9	186.4	187.0	186.3	187.0	186.4	187.9	189.3	189.8	190.0	190.9
60°	169.4	166.9	166.2	164.9	166.2	166.9	169.4	172.6	173.8	174.5	175.5
62.5°	148.5	146.8	144.6	145.7	144.6	146.8	148.5	152.0	154.8	156.9	159.1
65°	120.8	119.6	118.6	119.9	118.6	119.6	120.8	123.4	126.0	131.0	135.7
67.5°	100.0	99.4	99.4	98.7	99.4	99.4	100.0	101.3	102.9	105.7	110.1
70°	89.1	88.2	88.2	87.6	88.2	88.2	89.1	89.1	90.7	92.0	95.1
72.5°	77.9	77.0	77.3	76.9	77.3	77.0	77.9	78.2	79.8	80.3	81.7
75°	57.7	56.2	56.2	56.5	56.2	56.2	57.7	59.6	61.2	64.1	64.7
77.5°	43.0	42.7	43.2	42.6	43.2	42.7	43.0	43.0	43.4	44.8	45.8
80°	35.2	34.9	34.6	35.5	34.6	34.9	35.2	35.2	35.5	35.9	36.2
82.5°	27.3	27.3	27.2	28.5	27.2	27.3	27.3	27.9	27.9	27.7	28.0
85°	16.5	15.9	16.5	15.9	16.5	15.9	16.5	16.1	16.5	16.1	16.5
87.5°	8.5	8.4	8.0	8.2	8.0	8.4	8.5	7.9	7.9	8.2	7.9
90°	13.4	14.0	13.4	13.4	13.4	14.0	13.4	12.7	12.7	12.1	11.5
92.5°	54.7	51.3	49.1	49.1	49.1	51.3	54.7	62.2	75.0	94.2	125.2
95°	195.1	175.3	163.9	155.6	163.9	175.3	195.1	226.3	288.1	373.6	472.4
97.5°	486.6	448.2	429.0	415.8	429.0	448.2	486.6	532.3	598.8	661.2	697.9
100°	647.7	608.8	589.7	584.6	589.7	608.8	647.7	703.2	750.3	781.5	768.8
102.5°	783.9	755.7	735.6	731.5	735.6	755.7	783.9	817.9	837.6	828.5	765.2
105°	914.8	909.7	900.8	897.0	900.8	909.7	914.8	913.5	887.4	824.3	714.0
107.5°	935.9	950.4	956.8	958.4	956.8	950.4	935.9	904.3	847.5	758.6	641.2
110°	915.4	942.2	953.7	959.4	953.7	942.2	915.4	870.2	800.1	707.6	597.4



TEST NUMBER: P332909-930

CATALOG NUMBER: SA4XXRDIP-C575D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	871.6	904.0	920.1	929.4	920.1	904.0	871.6	820.2	750.1	662.8	565.2
115°	797.5	835.8	856.1	861.3	856.1	835.8	797.5	747.1	685.9	611.4	533.0
117.5°	735.6	767.7	788.3	792.3	788.3	767.7	735.6	692.6	640.7	582.0	517.1
120°	701.9	729.9	746.5	753.5	746.5	729.9	701.9	665.5	620.3	569.3	510.0
122.5°	677.9	701.9	715.9	722.9	715.9	701.9	677.9	647.2	607.6	561.1	503.9
125°	652.8	671.3	683.4	687.2	683.4	671.3	652.8	627.3	592.2	548.3	493.4
127.5°	635.9	652.3	662.5	666.3	662.5	652.3	635.9	610.3	576.9	533.0	480.7
130°	624.1	640.1	650.3	654.1	650.3	640.1	624.1	597.9	564.2	520.8	470.5
132.5°	608.8	626.8	636.5	640.3	636.5	626.8	608.8	583.2	549.4	507.0	459.7
135°	582.7	600.5	610.7	614.6	610.7	600.5	582.7	557.2	525.3	486.4	445.0
137.5°	552.0	569.6	578.0	582.7	578.0	569.6	552.0	528.2	499.5	466.7	431.6
140°	531.7	545.7	554.6	559.7	554.6	545.7	531.7	509.4	482.6	453.9	424.0
142.5°	510.8	523.7	531.7	535.2	531.7	523.7	510.8	491.0	467.8	443.2	416.8
145°	481.4	492.1	498.6	501.7	498.6	492.1	481.4	465.4	447.5	428.4	406.8
147.5°	456.7	466.0	470.8	472.0	470.8	466.0	456.7	445.0	431.0	415.6	398.4
150°	442.5	450.7	454.5	455.2	454.5	450.7	442.5	432.2	420.8	408.0	393.3
152.5°	430.2	436.9	439.2	439.9	439.2	436.9	430.2	421.5	412.1	400.3	387.8
155°	413.1	418.2	420.1	420.1	420.1	418.2	413.1	406.8	399.1	389.6	379.3
157.5°	397.8	401.6	402.8	402.8	402.8	401.6	397.8	393.0	386.9	378.8	370.2
160°	387.6	391.4	392.1	392.1	392.1	391.4	387.6	383.8	378.7	371.7	364.7
162.5°	377.9	381.7	382.4	381.9	382.4	381.7	377.9	375.1	370.6	365.0	359.1
165°	365.3	367.9	367.2	366.6	367.2	367.9	365.3	362.7	359.5	355.1	351.2
167.5°	353.4	355.1	355.0	354.4	355.0	355.1	353.4	352.1	350.3	346.7	343.7
170°	346.8	347.4	346.8	346.8	346.8	347.4	346.8	345.5	343.6	341.0	339.2
172.5°	340.1	340.8	340.1	339.2	340.1	340.8	340.1	339.4	338.0	336.5	335.1
175°	331.5	332.8	331.5	330.2	331.5	332.8	331.5	331.5	331.5	330.2	329.6
177.5°	326.5	327.0	326.0	325.0	326.0	327.0	326.5	327.0	326.5	326.5	326.0
180°	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5



TEST NUMBER: P332909-930

CATALOG NUMBER: SA4XXRDIP-C575D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	753.1	754.9	758.9	763.4	767.3	770.6	773.1	776.7	780.0	784.6	788.9
5°	707.4	711.8	718.2	725.8	735.3	741.7	749.6	756.6	766.7	776.9	786.7
7.5°	667.3	672.2	681.5	692.0	703.4	713.7	723.1	735.4	748.9	763.7	780.2
10°	641.4	646.8	657.9	669.9	683.3	693.4	706.1	720.7	736.0	754.0	774.3
12.5°	618.1	623.2	636.6	648.9	662.8	673.9	688.6	703.4	723.7	743.4	766.5
15°	572.6	586.2	601.4	616.0	632.5	646.2	663.9	679.1	698.5	726.1	752.4
17.5°	522.0	536.6	555.5	578.0	600.1	617.0	635.0	654.0	677.0	705.2	735.6
20°	492.6	504.3	525.3	550.4	576.1	599.6	616.0	637.0	660.8	691.2	722.6
22.5°	470.6	480.5	496.9	522.0	549.7	577.0	598.0	618.7	645.1	675.5	709.7
25°	437.4	448.3	462.5	479.6	511.4	540.2	567.9	591.6	619.5	650.0	688.0
27.5°	409.9	419.3	432.4	450.2	471.5	503.4	536.8	563.9	592.6	625.3	663.3
30°	393.6	401.3	412.1	430.2	450.5	479.0	512.9	544.7	573.6	607.5	647.1
32.5°	376.7	384.8	395.3	409.6	431.4	455.4	489.3	524.1	554.7	589.5	628.4
35°	354.0	360.4	369.9	384.5	404.1	425.1	455.2	491.1	523.4	560.5	597.6
37.5°	331.1	338.6	346.1	359.1	375.2	397.7	422.4	459.0	494.9	528.7	565.0
40°	318.1	322.6	330.8	341.4	358.5	378.5	401.6	437.4	473.3	507.0	543.4
42.5°	303.7	308.7	315.6	326.1	341.4	360.9	383.6	414.6	452.0	484.6	517.8
45°	283.6	286.4	293.4	302.3	315.0	334.7	355.6	383.2	418.4	449.5	478.7
47.5°	263.3	265.8	270.1	278.3	292.4	308.3	327.9	352.6	383.5	414.6	439.3
50°	249.3	251.5	255.7	263.3	276.0	291.6	310.9	333.0	360.7	390.5	411.1
52.5°	235.4	236.6	240.4	249.1	259.8	275.0	292.4	312.7	338.6	363.4	384.3
55°	213.2	216.1	218.6	224.9	235.1	249.6	265.2	284.5	304.5	325.5	343.2
57.5°	190.0	193.1	196.8	202.4	210.4	224.0	238.0	253.6	270.7	288.1	303.0
60°	174.8	177.7	180.8	187.2	194.4	205.2	220.5	234.1	247.1	262.9	277.9
62.5°	159.8	162.7	166.3	171.5	178.5	188.7	201.5	213.3	226.8	240.7	251.8
65°	137.7	139.9	142.8	147.5	154.2	163.4	173.8	183.0	195.1	205.2	215.4
67.5°	113.4	117.6	121.4	125.2	130.9	139.4	147.0	155.8	164.0	171.5	180.8
70°	97.3	102.2	105.7	109.7	115.1	122.5	129.7	135.7	142.4	149.7	158.0
72.5°	84.0	87.6	90.4	94.8	99.6	106.5	113.2	118.2	123.7	128.7	136.6
75°	66.3	67.9	69.8	73.3	77.7	82.8	88.2	92.6	95.8	100.2	106.0
77.5°	47.6	50.7	51.9	54.5	57.6	60.7	64.3	68.1	71.1	72.7	77.0
80°	36.4	37.7	39.1	42.5	44.4	47.6	50.1	53.6	54.9	56.5	60.6
82.5°	28.4	29.1	29.9	30.8	32.0	35.1	37.7	39.9	41.2	41.7	44.8
85°	16.5	16.8	17.1	17.4	17.8	17.8	19.0	20.6	22.8	22.8	23.8
87.5°	7.7	8.2	7.9	7.3	7.9	7.1	7.3	7.3	7.9	8.2	8.7
90°	10.8	11.5	10.2	8.9	8.9	5.1	5.1	4.5	3.8	1.9	0.7
92.5°	168.4	202.2	177.0	128.7	79.3	46.9	33.7	24.4	16.6	10.6	7.3
95°	534.3	519.6	392.1	239.7	135.2	79.7	52.9	37.6	29.4	22.9	21.0
97.5°	671.2	547.2	367.0	215.5	129.1	86.4	64.0	50.9	43.2	37.7	37.7
100°	675.7	512.6	332.8	202.8	130.7	93.1	72.6	60.6	52.9	48.4	48.4
102.5°	637.5	469.2	309.8	199.2	135.7	101.7	82.3	70.8	63.6	59.7	58.6
105°	568.0	418.2	290.1	200.8	147.9	117.3	98.8	87.3	79.7	76.5	74.6
107.5°	511.9	389.6	286.5	210.3	162.1	134.0	115.8	104.8	96.6	93.4	92.2
110°	483.9	379.9	287.5	217.4	172.8	144.7	127.5	116.0	108.4	105.2	104.0



TEST NUMBER: P332909-930

CATALOG NUMBER: SA4XXRDIP-C575D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	468.1	375.4	290.6	225.0	183.0	156.0	138.7	127.3	120.1	116.4	115.1
115°	453.2	372.9	296.4	237.2	198.9	173.4	156.2	144.1	137.7	133.2	131.3
117.5°	446.6	372.3	302.7	249.5	214.3	190.1	172.3	160.9	153.9	149.9	148.1
120°	443.0	372.3	307.3	258.2	225.0	200.8	183.0	172.1	165.1	160.6	159.4
122.5°	439.0	371.8	311.9	266.4	235.2	211.0	193.6	181.8	175.3	170.9	169.6
125°	432.2	371.0	318.8	278.6	249.2	226.3	208.5	196.3	189.3	185.5	183.0
127.5°	423.1	369.7	324.2	289.2	262.3	240.1	222.1	209.5	201.5	196.9	194.9
130°	417.6	369.1	328.3	295.8	270.9	249.2	230.8	218.7	209.1	204.0	201.5
132.5°	412.5	368.6	331.9	302.4	278.1	256.4	239.0	225.8	216.8	210.1	208.1
135°	404.8	367.9	337.2	311.1	288.1	267.1	250.5	237.2	226.3	220.0	217.4
137.5°	398.2	367.7	340.4	317.2	295.8	276.1	260.3	246.5	236.1	229.1	226.7
140°	394.6	367.2	343.0	321.3	300.9	281.8	266.4	253.1	242.2	235.2	233.3
142.5°	391.6	367.2	345.0	324.3	305.5	286.9	272.1	259.2	248.9	242.4	240.4
145°	386.3	365.9	346.2	327.7	310.5	293.9	279.9	267.7	258.9	252.4	250.5
147.5°	381.6	363.6	346.8	330.6	315.6	300.0	287.4	277.3	268.2	262.5	261.9
150°	378.1	362.1	346.8	332.2	318.1	304.1	292.0	282.4	274.8	269.7	269.0
152.5°	374.0	359.5	345.8	333.1	320.2	307.7	296.6	288.0	280.9	275.8	275.7
155°	367.9	355.7	344.2	334.0	323.2	312.3	302.8	295.8	289.4	285.6	284.9
157.5°	361.6	351.8	342.6	334.0	325.4	316.2	308.7	302.6	297.6	294.0	294.0
160°	357.0	348.7	341.0	334.0	326.4	318.8	311.8	306.6	302.1	299.6	299.6
162.5°	352.9	345.7	339.6	334.0	327.4	320.2	314.8	310.2	306.2	304.2	304.8
165°	346.2	341.0	336.6	332.8	327.7	322.0	318.1	315.0	311.8	310.5	310.5
167.5°	340.1	336.5	333.5	331.3	327.6	323.3	320.4	318.6	316.2	315.6	316.2
170°	336.0	333.4	331.5	330.2	327.0	323.8	322.0	320.7	318.8	318.1	318.8
172.5°	332.4	330.4	329.5	329.2	326.5	324.3	322.9	322.2	320.8	320.7	321.3
175°	328.3	327.0	327.0	327.7	325.8	324.5	324.5	323.8	323.2	323.2	323.8
177.5°	325.5	325.0	325.0	326.0	325.0	324.5	324.5	324.5	324.0	324.5	325.0
180°	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5



TEST NUMBER: P332909-930

CATALOG NUMBER: SA4XXRDIP-C575D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	792.1	794.4	797.0	801.8	805.8	807.6	811.2	813.8	812.9	816.5	822.6
5°	795.2	803.8	813.7	823.8	835.2	844.7	852.4	860.0	866.0	873.3	884.1
7.5°	794.8	810.0	826.6	844.7	863.5	879.6	894.6	909.9	923.3	938.2	957.5
10°	792.7	813.0	833.6	857.5	881.3	903.8	924.1	943.1	961.2	980.5	1004.9
12.5°	790.4	813.8	838.7	867.3	897.0	924.1	947.9	975.3	997.9	1022.9	1051.2
15°	780.3	811.8	845.7	882.8	918.4	954.8	987.5	1021.2	1052.6	1082.3	1117.9
17.5°	768.8	805.0	845.1	888.9	931.6	975.9	1014.7	1057.1	1089.2	1129.2	1162.2
20°	759.5	798.4	841.2	890.4	939.0	988.1	1030.9	1074.1	1110.3	1150.6	1192.5
22.5°	748.0	790.8	837.2	888.1	939.0	992.7	1040.1	1083.0	1127.8	1173.1	1216.3
25°	729.6	774.0	823.2	879.0	937.3	992.2	1043.0	1096.3	1144.5	1193.7	1232.4
27.5°	707.0	753.7	805.5	863.1	923.0	979.2	1038.9	1095.8	1144.3	1191.6	1225.3
30°	689.0	738.2	788.0	846.4	908.5	968.8	1032.8	1089.6	1140.7	1183.2	1202.2
32.5°	670.5	717.1	768.4	827.5	891.3	956.1	1019.7	1077.7	1124.9	1150.5	1151.0
35°	638.2	682.0	735.3	793.4	858.7	929.1	993.5	1050.6	1079.5	1081.7	1050.6
37.5°	603.1	643.3	693.6	751.7	823.2	893.3	959.0	997.1	1006.8	974.5	917.0
40°	578.0	615.1	663.7	723.3	794.3	866.7	926.6	954.5	944.4	892.0	827.9
42.5°	551.5	586.1	632.9	691.8	763.1	836.2	887.3	902.2	875.3	814.9	739.9
45°	508.5	540.2	586.5	645.9	714.4	782.9	821.6	814.0	769.2	697.6	613.5
47.5°	463.7	494.3	536.0	590.8	661.0	720.2	746.3	723.4	659.7	580.9	512.5
50°	434.0	465.4	503.8	556.1	620.2	677.3	694.1	659.2	588.4	512.7	449.8
52.5°	404.8	431.6	469.2	519.8	581.1	629.3	638.2	598.0	525.0	457.1	401.4
55°	360.4	384.8	416.5	464.1	517.1	558.0	553.3	501.5	435.2	377.2	333.4
57.5°	317.4	335.8	365.1	409.7	456.2	483.7	466.3	422.2	360.4	312.9	276.0
60°	289.0	306.1	333.4	372.4	413.4	428.8	414.3	366.4	317.6	274.1	243.0
62.5°	262.1	277.2	300.7	336.9	369.9	379.1	363.5	321.7	277.7	240.6	214.8
65°	223.0	236.9	257.0	282.7	305.5	309.9	299.8	257.0	223.6	192.6	174.8
67.5°	187.5	196.7	212.3	234.5	246.6	249.2	229.6	202.7	173.3	154.3	140.9
70°	163.7	170.0	184.6	196.7	206.5	206.8	188.7	167.1	144.6	129.1	119.3
72.5°	140.6	146.7	157.8	166.0	173.5	171.0	154.5	137.5	119.3	107.5	100.2
75°	108.5	113.9	119.6	123.4	123.4	120.3	108.2	95.5	85.0	78.0	75.8
77.5°	78.8	83.3	85.2	84.6	83.5	78.5	70.9	62.6	58.9	55.6	53.9
80°	61.9	63.8	64.4	62.8	60.9	55.2	50.1	46.6	43.1	41.9	41.3
82.5°	45.9	47.5	45.9	46.3	42.2	37.4	34.7	33.4	32.0	31.5	30.8
85°	24.5	24.1	23.5	21.9	19.0	18.4	18.1	17.8	17.1	17.4	16.8
87.5°	8.7	8.4	7.5	7.3	7.3	7.6	7.9	8.2	8.4	8.0	8.6
90°	1.9	3.8	4.5	5.1	5.1	8.9	8.9	10.2	11.5	10.8	11.5
92.5°	10.6	16.6	24.4	33.7	46.9	79.3	128.7	177.0	202.2	168.4	125.2
95°	22.9	29.4	37.6	52.9	79.7	135.2	239.7	392.1	519.6	534.3	472.4
97.5°	37.7	43.2	50.9	64.0	86.4	129.1	215.5	367.0	547.2	671.2	697.9
100°	48.4	52.9	60.6	72.6	93.1	130.7	202.8	332.8	512.6	675.7	768.8
102.5°	59.7	63.6	70.8	82.3	101.7	135.7	199.2	309.8	469.2	637.5	765.2
105°	76.5	79.7	87.3	98.8	117.3	147.9	200.8	290.1	418.2	568.0	714.0
107.5°	93.4	96.6	104.8	115.8	134.0	162.1	210.3	286.5	389.6	511.9	641.2
110°	105.2	108.4	116.0	127.5	144.7	172.8	217.4	287.5	379.9	483.9	597.4



TEST NUMBER: P332909-930

CATALOG NUMBER: SA4XXRDIP-C575D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	116.4	120.1	127.3	138.7	156.0	183.0	225.0	290.6	375.4	468.1	565.2
115°	133.2	137.7	144.1	156.2	173.4	198.9	237.2	296.4	372.9	453.2	533.0
117.5°	149.9	153.9	160.9	172.3	190.1	214.3	249.5	302.7	372.3	446.6	517.1
120°	160.6	165.1	172.1	183.0	200.8	225.0	258.2	307.3	372.3	443.0	510.0
122.5°	170.9	175.3	181.8	193.6	211.0	235.2	266.4	311.9	371.8	439.0	503.9
125°	185.5	189.3	196.3	208.5	226.3	249.2	278.6	318.8	371.0	432.2	493.4
127.5°	196.9	201.5	209.5	222.1	240.1	262.3	289.2	324.2	369.7	423.1	480.7
130°	204.0	209.1	218.7	230.8	249.2	270.9	295.8	328.3	369.1	417.6	470.5
132.5°	210.1	216.8	225.8	239.0	256.4	278.1	302.4	331.9	368.6	412.5	459.7
135°	220.0	226.3	237.2	250.5	267.1	288.1	311.1	337.2	367.9	404.8	445.0
137.5°	229.1	236.1	246.5	260.3	276.1	295.8	317.2	340.4	367.7	398.2	431.6
140°	235.2	242.2	253.1	266.4	281.8	300.9	321.3	343.0	367.2	394.6	424.0
142.5°	242.4	248.9	259.2	272.1	286.9	305.5	324.3	345.0	367.2	391.6	416.8
145°	252.4	258.9	267.7	279.9	293.9	310.5	327.7	346.2	365.9	386.3	406.8
147.5°	262.5	268.2	277.3	287.4	300.0	315.6	330.6	346.8	363.6	381.6	398.4
150°	269.7	274.8	282.4	292.0	304.1	318.1	332.2	346.8	362.1	378.1	393.3
152.5°	275.8	280.9	288.0	296.6	307.7	320.2	333.1	345.8	359.5	374.0	387.8
155°	285.6	289.4	295.8	302.8	312.3	323.2	334.0	344.2	355.7	367.9	379.3
157.5°	294.0	297.6	302.6	308.7	316.2	325.4	334.0	342.6	351.8	361.6	370.2
160°	299.6	302.1	306.6	311.8	318.8	326.4	334.0	341.0	348.7	357.0	364.7
162.5°	304.2	306.2	310.2	314.8	320.2	327.4	334.0	339.6	345.7	352.9	359.1
165°	310.5	311.8	315.0	318.1	322.0	327.7	332.8	336.6	341.0	346.2	351.2
167.5°	315.6	316.2	318.6	320.4	323.3	327.6	331.3	333.5	336.5	340.1	343.7
170°	318.1	318.8	320.7	322.0	323.8	327.0	330.2	331.5	333.4	336.0	339.2
172.5°	320.7	320.8	322.2	322.9	324.3	326.5	329.2	329.5	330.4	332.4	335.1
175°	323.2	323.2	323.8	324.5	324.5	325.8	327.7	327.0	327.0	328.3	329.6
177.5°	324.5	324.0	324.5	324.5	324.5	325.0	326.0	325.0	325.0	325.5	326.0
180°	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	825.9	827.0	827.7	830.2	830.5	832.7	830.5
5°	894.2	898.7	905.6	912.6	913.3	917.7	909.8
7.5°	970.9	981.1	987.6	998.8	1003.3	1006.1	1001.5
10°	1023.7	1033.1	1050.0	1058.3	1066.5	1067.7	1064.0
12.5°	1074.6	1089.7	1103.0	1118.7	1118.3	1129.4	1125.4
15°	1142.6	1158.1	1176.6	1194.0	1200.4	1200.4	1205.4
17.5°	1191.1	1219.6	1238.6	1252.3	1267.3	1269.9	1268.1
20°	1223.8	1254.6	1274.9	1292.7	1302.8	1305.7	1305.7
22.5°	1248.2	1274.4	1294.2	1310.2	1318.6	1321.9	1320.9
25°	1265.1	1287.6	1299.7	1304.4	1306.6	1305.9	1300.0
27.5°	1241.9	1241.0	1233.3	1218.7	1207.8	1201.1	1193.5
30°	1197.8	1181.3	1162.3	1141.3	1114.4	1093.7	1087.4
32.5°	1132.1	1095.0	1062.8	1027.9	998.9	978.3	969.6
35°	1004.9	946.2	898.4	856.5	826.1	807.0	800.6
37.5°	854.1	797.3	738.0	697.4	672.1	652.9	645.7
40°	758.1	696.3	644.6	606.5	580.5	561.8	561.5
42.5°	670.6	611.6	562.9	535.5	507.4	495.0	495.0
45°	549.1	501.8	460.6	439.0	422.2	412.1	409.2
47.5°	454.6	415.6	388.1	370.9	357.2	350.7	346.5
50°	401.6	367.4	345.4	330.5	322.9	314.7	314.1
52.5°	357.4	329.8	312.7	300.6	291.0	286.0	286.2
55°	300.4	278.5	266.4	257.2	249.6	245.8	244.3
57.5°	253.1	236.7	227.9	219.5	216.2	213.2	212.4
60°	223.6	212.5	204.3	197.6	192.9	191.9	191.6
62.5°	199.3	187.7	182.0	176.8	173.3	171.9	171.3
65°	164.3	155.7	150.7	146.6	145.3	143.1	142.8
67.5°	132.5	127.3	124.0	121.2	119.4	119.3	119.3
70°	112.9	110.1	107.2	105.7	104.7	104.0	104.0
72.5°	96.2	94.1	91.7	90.9	90.7	90.1	89.8
75°	73.3	71.1	71.3	69.8	68.5	66.9	66.0
77.5°	51.9	50.4	50.1	49.9	48.8	48.6	49.1
80°	40.3	38.7	38.4	38.7	38.4	37.4	37.4
82.5°	30.7	29.4	29.0	28.8	28.5	28.8	28.3
85°	16.5	15.9	15.9	15.9	16.5	16.1	15.9
87.5°	8.2	8.2	8.4	8.2	8.4	8.0	8.2
90°	12.1	12.7	12.7	13.4	14.0	13.4	13.4
92.5°	94.2	75.0	62.2	54.7	51.3	49.1	49.1
95°	373.6	288.1	226.3	195.1	175.3	163.9	155.6
97.5°	661.2	598.8	532.3	486.6	448.2	429.0	415.8
100°	781.5	750.3	703.2	647.7	608.8	589.7	584.6
102.5°	828.5	837.6	817.9	783.9	755.7	735.6	731.5
105°	824.3	887.4	913.5	914.8	909.7	900.8	897.0
107.5°	758.6	847.5	904.3	935.9	950.4	956.8	958.4
110°	707.6	800.1	870.2	915.4	942.2	953.7	959.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	662.8	750.1	820.2	871.6	904.0	920.1	929.4
115°	611.4	685.9	747.1	797.5	835.8	856.1	861.3
117.5°	582.0	640.7	692.6	735.6	767.7	788.3	792.3
120°	569.3	620.3	665.5	701.9	729.9	746.5	753.5
122.5°	561.1	607.6	647.2	677.9	701.9	715.9	722.9
125°	548.3	592.2	627.3	652.8	671.3	683.4	687.2
127.5°	533.0	576.9	610.3	635.9	652.3	662.5	666.3
130°	520.8	564.2	597.9	624.1	640.1	650.3	654.1
132.5°	507.0	549.4	583.2	608.8	626.8	636.5	640.3
135°	486.4	525.3	557.2	582.7	600.5	610.7	614.6
137.5°	466.7	499.5	528.2	552.0	569.6	578.0	582.7
140°	453.9	482.6	509.4	531.7	545.7	554.6	559.7
142.5°	443.2	467.8	491.0	510.8	523.7	531.7	535.2
145°	428.4	447.5	465.4	481.4	492.1	498.6	501.7
147.5°	415.6	431.0	445.0	456.7	466.0	470.8	472.0
150°	408.0	420.8	432.2	442.5	450.7	454.5	455.2
152.5°	400.3	412.1	421.5	430.2	436.9	439.2	439.9
155°	389.6	399.1	406.8	413.1	418.2	420.1	420.1
157.5°	378.8	386.9	393.0	397.8	401.6	402.8	402.8
160°	371.7	378.7	383.8	387.6	391.4	392.1	392.1
162.5°	365.0	370.6	375.1	377.9	381.7	382.4	381.9
165°	355.1	359.5	362.7	365.3	367.9	367.2	366.6
167.5°	346.7	350.3	352.1	353.4	355.1	355.0	354.4
170°	341.0	343.6	345.5	346.8	347.4	346.8	346.8
172.5°	336.5	338.0	339.4	340.1	340.8	340.1	339.2
175°	330.2	331.5	331.5	331.5	332.8	331.5	330.2
177.5°	326.5	326.5	327.0	326.5	327.0	326.0	325.0
180°	324.5	324.5	324.5	324.5	324.5	324.5	324.5

(END OF REPORT)