

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: P331773-935

Luminaire Tested: **S122RDIW-S290D970U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331773-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIW-S290D970U935-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 970 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4307.6 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

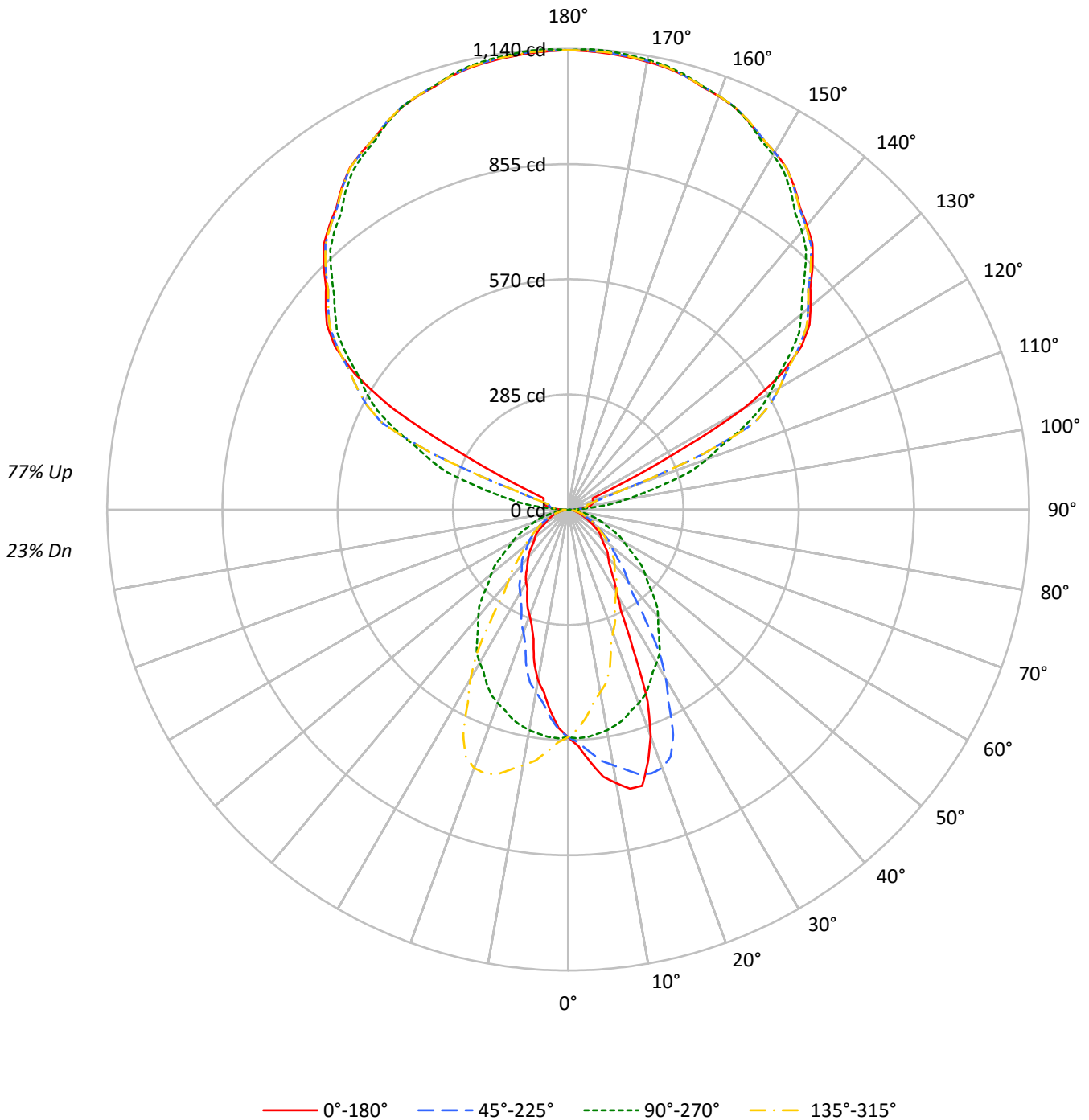
Input Watts (W): 38
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	101	101	101	89	89	89	89	68	68	68	49	49	49	31	31	31	23
1	92	88	84	81	82	78	75	73	60	58	56	43	42	41	28	27	27	20
2	84	77	72	67	74	69	64	60	53	50	47	38	37	35	25	24	23	17
3	77	68	61	56	68	61	55	51	47	43	40	34	32	30	22	21	20	15
4	70	60	53	48	62	54	48	43	42	38	34	31	28	26	20	19	18	13
5	65	54	46	41	57	48	42	37	38	33	30	28	25	23	18	17	16	12
6	60	48	41	35	53	43	37	32	34	29	26	25	22	20	17	15	14	11
7	55	44	36	31	49	39	33	28	31	26	23	23	20	18	16	14	12	10
8	51	40	32	27	45	36	29	25	28	24	20	21	18	16	14	13	11	9
9	47	36	29	24	42	32	26	22	26	21	18	19	16	14	13	12	10	8
10	44	33	26	22	39	30	24	20	24	19	16	18	15	13	12	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9087	9087	9087	9087
5°	10149	9144	8109	9144
10°	11262	9081	7029	9081
15°	11814	8948	5538	8948
20°	10244	8751	4792	8751
25°	6716	8480	4277	8480
30°	4521	8153	3872	8153
35°	3662	7740	3493	7740
40°	3256	7290	3231	7290
45°	2948	6766	2884	6766
50°	2683	6244	2673	6244
55°	2519	5664	2488	5664
60°	2109	5134	2086	5134
65°	1780	4661	2017	4661
70°	1643	4164	1902	4164
75°	1535	3624	1759	3624
80°	1413	2985	1562	2985
85°	1315	2353	1371	2353



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	1.2
10°-20°	148.7	3.5
20°-30°	191.6	4.4
30°-40°	182.1	4.2
40°-50°	156.0	3.6
50°-60°	118.8	2.8
60°-70°	75.1	1.7
70°-80°	37.5	0.9
80°-90°	12.6	0.3
90°-100°	37.9	0.9
100°-110°	139.1	3.2
110°-120°	371.8	8.6
120°-130°	613.7	14.2
130°-140°	652.7	15.2
140°-150°	606.6	14.1
150°-160°	487.7	11.3
160°-170°	314.3	7.3
170°-180°	108.2	2.5
0°-30°	393.6	9.1
0°-40°	575.7	13.4
0°-60°	850.4	19.7
0°-90°	975.6	22.6
90°-120°	548.8	12.7
90°-150°	2421.8	56.2
90°-180°	3332.0	77.4
0°-180°	4307.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	563	563	563	563	563	
5°	626	564	500	564	626	62
15°	707	535	331	535	707	191
25°	377	476	240	476	377	179
35°	186	393	177	393	186	119
45°	129	296	126	296	129	100
55°	90	201	88	201	90	79
65°	47	122	53	122	47	47
75°	25	58	28	58	25	26
85°	7	13	7	13	7	8
90°	22	1	22	1	22	10
95°	35	54	35	54	35	33
105°	62	250	62	250	62	65
115°	68	473	68	473	68	169
125°	703	669	703	669	703	609
135°	855	828	855	828	855	659
145°	975	960	975	960	975	610
155°	1058	1057	1058	1057	1058	488
165°	1112	1114	1112	1114	1112	314
175°	1133	1139	1133	1139	1133	108
180°	1137	1137	1137	1137	1137	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	585.7	586.2	586.7	585.6	585.6	584.6	582.6	581.0	576.6	576.0	576.0
5°	626.2	625.9	626.6	624.1	620.6	619.7	616.0	611.1	606.1	600.5	599.3
7.5°	666.5	665.9	664.3	663.9	661.2	655.3	649.4	643.0	634.6	626.3	622.2
10°	686.9	693.4	689.4	682.6	683.9	674.8	669.9	661.4	654.4	642.0	639.4
12.5°	706.9	709.5	708.2	704.3	702.6	696.2	689.6	682.3	669.3	658.2	648.6
15°	706.8	710.5	711.5	710.3	711.3	710.9	707.4	701.4	690.0	677.9	667.3
17.5°	654.6	657.2	663.7	668.0	673.5	685.0	690.8	692.9	691.3	684.3	676.9
20°	596.2	591.9	609.8	619.0	626.8	646.4	663.2	669.7	680.0	679.8	677.9
22.5°	513.2	514.2	531.2	542.2	565.0	584.6	603.7	628.0	648.1	661.3	669.1
25°	377.0	384.5	401.5	416.4	441.8	478.2	511.3	549.6	585.7	614.3	641.5
27.5°	283.2	283.8	297.2	311.0	326.1	355.9	397.5	443.2	494.8	537.4	586.3
30°	242.5	241.3	247.0	255.5	268.4	291.4	322.7	367.6	419.1	483.3	540.4
32.5°	213.7	213.8	218.1	224.3	235.0	250.6	272.0	308.6	357.1	420.3	487.2
35°	185.8	185.6	188.7	193.2	197.7	207.7	222.4	241.5	275.0	333.8	402.3
37.5°	165.7	166.6	168.2	171.0	175.9	181.5	190.3	203.2	227.0	261.8	319.3
40°	154.5	154.9	157.0	159.4	162.3	166.6	173.8	184.3	201.6	229.4	271.5
42.5°	144.2	144.6	146.1	148.3	150.6	154.9	160.9	169.9	184.0	205.6	240.3
45°	129.1	129.1	130.4	131.4	134.0	137.8	142.8	150.2	160.0	176.0	199.1
47.5°	114.9	114.9	115.9	117.5	119.2	122.2	127.0	133.1	140.2	152.6	172.3
50°	106.8	107.0	107.5	108.9	109.9	112.6	116.4	121.7	129.1	138.7	155.1
52.5°	100.2	100.1	100.8	101.4	102.1	104.0	106.9	111.5	118.1	126.5	140.1
55°	89.5	88.8	90.0	90.9	91.5	92.3	93.8	96.8	102.5	109.5	119.7
57.5°	76.3	75.9	76.8	77.7	79.6	81.6	83.0	84.8	87.7	92.8	102.9
60°	65.3	65.3	67.1	67.7	69.8	72.6	75.3	76.9	79.8	83.1	90.6
62.5°	55.6	55.8	56.6	57.2	58.4	61.7	65.6	69.1	71.8	75.0	79.9
65°	46.6	46.9	46.9	47.4	48.1	48.9	50.5	53.2	58.1	62.6	66.3
67.5°	39.5	39.6	39.8	40.1	40.3	41.2	41.8	43.0	44.2	48.4	53.0
70°	34.8	35.4	35.2	35.6	35.8	36.2	36.9	37.5	39.3	40.3	43.0
72.5°	30.4	30.8	30.8	31.1	31.6	31.7	32.3	32.9	34.0	34.8	36.3
75°	24.6	24.5	24.6	25.1	25.2	25.4	25.4	26.2	26.8	27.6	28.6
77.5°	19.0	19.2	19.2	19.2	19.3	19.6	19.5	19.9	20.5	20.9	21.4
80°	15.2	15.4	15.2	15.4	15.7	15.8	15.7	15.8	16.4	16.8	16.8
82.5°	11.8	11.9	12.0	12.0	12.1	12.1	12.4	12.4	12.8	12.7	12.9
85°	7.1	6.9	6.9	6.9	7.1	7.2	7.1	7.1	7.2	7.2	7.2
87.5°	7.0	7.1	7.0	6.9	6.8	6.7	6.5	6.5	6.1	6.1	5.7
90°	22.2	21.9	21.4	21.1	20.8	20.1	19.2	18.3	17.4	16.4	15.0
92.5°	22.2	22.0	21.8	21.5	21.4	21.0	20.5	20.1	19.5	19.1	18.3
95°	35.4	35.6	35.7	35.9	36.1	35.7	34.9	33.9	33.0	32.1	30.8
97.5°	47.2	47.0	46.8	46.6	46.3	45.9	45.1	44.4	43.7	43.0	40.0
100°	55.1	54.8	54.4	54.0	53.6	52.8	51.3	49.9	48.4	46.9	43.8
102.5°	59.1	58.5	58.0	57.5	57.0	55.8	53.9	52.0	50.1	48.2	44.2
105°	62.5	61.8	61.0	60.4	59.6	58.2	56.2	54.2	52.2	50.2	46.1
107.5°	64.3	63.6	62.9	62.2	61.4	62.1	64.1	66.1	68.2	70.3	74.1
110°	65.0	64.2	63.5	62.8	62.1	70.9	89.1	107.4	125.7	144.0	196.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	65.7	65.1	64.5	63.9	63.3	96.3	163.1	229.7	296.4	363.2	376.2
115°	67.5	80.6	93.8	106.9	120.1	169.0	253.7	338.3	422.9	507.6	503.1
117.5°	275.4	318.7	362.0	405.2	448.5	480.4	500.8	521.2	541.7	562.2	559.1
120°	501.9	526.5	551.2	575.9	600.5	611.8	609.6	607.4	605.3	603.0	599.8
122.5°	626.3	631.0	635.8	640.6	645.4	647.1	645.8	644.5	643.2	641.9	638.3
125°	703.4	702.8	702.3	701.8	701.2	700.3	699.0	697.8	696.5	695.2	691.7
127.5°	752.1	752.0	751.9	751.8	751.7	750.7	748.8	747.0	745.1	743.2	740.6
130°	782.4	782.6	782.7	782.9	783.2	782.2	780.2	778.2	776.2	774.2	772.1
132.5°	812.0	812.2	812.4	812.5	812.8	812.0	810.3	808.6	806.8	805.1	803.1
135°	854.8	855.1	855.5	855.9	856.3	855.5	853.7	851.9	850.1	848.3	846.5
137.5°	893.8	894.4	895.0	895.7	896.3	895.7	893.9	892.1	890.4	888.6	886.7
140°	918.2	919.0	920.0	920.9	921.8	921.4	919.8	918.2	916.5	914.9	912.8
142.5°	941.8	942.8	943.7	944.6	945.5	945.2	943.7	942.2	940.7	939.2	936.9
145°	974.9	975.9	976.7	977.7	978.6	978.4	977.1	975.9	974.6	973.3	970.2
147.5°	1004.0	1004.8	1005.6	1006.3	1007.1	1007.0	1006.1	1005.1	1004.2	1003.2	1000.1
150°	1021.8	1022.7	1023.6	1024.6	1025.5	1025.4	1024.2	1023.2	1022.1	1021.0	1018.0
152.5°	1037.0	1038.2	1039.4	1040.6	1041.8	1041.8	1040.7	1039.7	1038.5	1037.4	1034.7
155°	1058.0	1059.5	1060.9	1062.4	1063.9	1064.0	1062.9	1061.9	1060.8	1059.6	1057.5
157.5°	1077.3	1078.7	1080.1	1081.5	1083.0	1083.1	1081.8	1080.6	1079.3	1078.1	1076.5
160°	1088.5	1089.8	1091.0	1092.3	1093.6	1093.6	1092.5	1091.5	1090.4	1089.3	1088.2
162.5°	1097.7	1099.2	1100.8	1102.3	1104.0	1104.1	1102.9	1101.6	1100.4	1099.2	1098.2
165°	1111.5	1112.8	1114.0	1115.3	1116.6	1116.6	1115.3	1114.0	1112.8	1111.5	1110.9
167.5°	1120.2	1121.9	1123.5	1125.2	1126.8	1127.0	1125.7	1124.4	1123.1	1121.9	1121.4
170°	1125.5	1127.1	1128.8	1130.4	1132.0	1132.2	1130.9	1129.7	1128.4	1127.1	1126.8
172.5°	1129.5	1131.1	1132.7	1134.4	1136.0	1136.2	1134.9	1133.6	1132.4	1131.1	1130.7
175°	1132.9	1134.7	1136.5	1138.3	1140.2	1140.5	1139.2	1137.9	1136.6	1135.3	1135.0
177.5°	1135.1	1136.3	1137.6	1138.9	1140.3	1140.4	1139.4	1138.4	1137.4	1136.3	1136.2
180°	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	576.4	575.1	573.9	571.2	569.7	566.6	566.2	566.0	562.0	558.0	556.9
5°	596.2	593.0	588.3	582.8	577.1	571.3	567.4	564.2	556.4	549.0	544.7
7.5°	616.0	609.3	601.2	590.9	582.2	572.6	565.3	558.9	547.8	537.1	529.9
10°	630.9	620.0	609.2	595.0	583.8	572.8	562.7	553.9	541.4	527.3	517.3
12.5°	640.2	628.1	613.3	599.3	584.9	570.9	557.3	546.0	531.3	516.8	505.0
15°	652.6	639.7	621.7	601.8	583.2	565.0	549.4	535.3	516.2	498.7	484.2
17.5°	662.9	645.1	625.8	602.7	581.2	558.1	538.0	520.0	498.6	477.6	460.5
20°	666.2	648.5	626.2	603.1	577.7	550.5	528.8	509.3	486.4	463.5	443.9
22.5°	664.1	650.4	625.6	598.0	572.0	543.5	519.0	496.3	470.9	447.5	424.9
25°	650.3	645.6	622.2	592.0	562.3	529.3	500.8	476.0	447.1	422.1	397.4
27.5°	618.1	628.3	613.7	581.6	548.5	513.2	481.2	453.0	422.9	394.8	370.2
30°	587.1	610.4	604.2	574.4	537.4	502.7	466.8	437.3	405.3	376.3	352.1
32.5°	544.8	583.2	589.3	564.4	526.2	487.9	450.4	421.0	387.5	357.1	333.4
35°	477.2	534.7	561.1	545.3	507.0	465.6	427.0	392.7	359.0	329.0	305.5
37.5°	396.7	475.0	519.0	520.1	484.9	442.0	399.8	365.8	331.4	301.9	276.5
40°	344.4	429.3	486.6	499.3	469.6	423.3	380.6	345.9	312.4	283.4	254.3
42.5°	297.5	382.0	452.5	474.6	451.0	404.9	362.1	326.0	293.3	265.9	236.1
45°	240.6	314.5	392.1	431.6	418.5	375.9	330.7	296.3	265.6	241.9	213.4
47.5°	202.9	255.0	330.2	383.6	383.4	344.5	300.0	267.1	238.6	216.4	193.3
50°	181.5	226.9	290.4	351.0	356.1	323.5	281.2	248.6	222.0	198.7	180.1
52.5°	162.2	199.7	256.8	315.0	329.4	301.1	260.1	230.0	204.1	182.7	166.9
55°	137.1	166.1	209.5	263.8	285.8	265.8	229.4	201.2	180.3	162.3	148.6
57.5°	116.0	137.7	172.5	216.3	241.8	229.3	199.2	176.3	158.4	142.2	131.4
60°	102.7	120.5	150.0	186.6	214.7	206.0	180.3	159.0	143.8	129.7	119.5
62.5°	90.1	105.5	130.8	160.5	186.2	182.6	161.7	143.8	130.4	117.6	109.0
65°	72.6	83.7	103.5	126.7	147.5	149.2	134.1	122.0	110.1	100.0	92.3
67.5°	57.8	65.1	79.0	98.6	114.1	119.7	110.5	101.2	91.7	83.9	77.2
70°	48.7	54.6	64.7	80.6	94.9	100.7	95.4	88.2	80.0	73.5	67.8
72.5°	39.4	45.2	52.7	64.3	76.5	82.9	81.0	75.9	69.2	63.8	58.5
75°	29.7	31.5	36.6	44.4	54.0	59.5	60.8	58.1	52.8	48.7	45.5
77.5°	22.0	23.1	25.5	29.5	35.8	40.7	42.7	42.4	38.7	36.4	33.4
80°	17.6	18.2	19.4	21.1	25.8	30.7	32.1	32.1	29.5	28.6	25.7
82.5°	13.3	13.8	14.6	15.5	17.7	22.0	23.5	23.8	22.2	20.9	18.6
85°	7.7	7.4	7.8	8.4	8.8	10.0	12.3	12.7	12.3	10.8	10.2
87.5°	5.3	5.3	4.9	4.4	4.2	4.0	4.3	4.7	4.5	4.4	4.5
90°	13.5	12.1	10.6	8.9	6.9	4.8	2.8	0.9	2.8	4.8	6.9
92.5°	17.7	16.9	16.2	15.9	16.1	16.3	16.4	16.6	16.4	16.3	16.1
95°	29.5	28.2	26.9	29.4	35.4	41.4	47.4	53.5	47.4	41.4	35.4
97.5°	37.0	34.1	31.1	38.1	55.1	72.2	89.1	106.2	89.1	72.2	55.1
100°	40.6	37.5	34.4	45.5	70.5	95.5	120.5	145.6	120.5	95.5	70.5
102.5°	100.2	126.2	152.2	167.8	173.1	178.5	183.7	189.1	183.7	178.5	173.1
105°	150.0	199.9	249.9	272.1	266.6	261.1	255.6	250.1	255.6	261.1	266.6
107.5°	189.9	249.9	309.7	337.4	332.9	328.6	324.2	319.7	324.2	328.6	332.9
110°	249.7	302.5	355.3	379.8	376.0	372.1	368.3	364.5	368.3	372.1	376.0



TEST NUMBER: P331773-935

CATALOG NUMBER: S122RDIW-S290D970U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	389.3	402.3	415.3	420.2	416.8	413.4	410.0	406.6	410.0	413.4	416.8
115°	498.4	493.9	489.3	485.5	482.4	479.3	476.1	473.0	476.1	479.3	482.4
117.5°	555.9	552.8	549.7	546.4	542.9	539.4	536.0	532.4	536.0	539.4	542.9
120°	596.5	593.1	589.9	586.9	584.1	581.3	578.7	575.9	578.7	581.3	584.1
122.5°	634.7	631.1	627.6	624.3	621.4	618.5	615.6	612.8	615.6	618.5	621.4
125°	688.3	684.8	681.3	678.4	676.0	673.6	671.2	668.8	671.2	673.6	676.0
127.5°	738.0	735.5	732.9	730.2	727.6	725.0	722.4	719.7	722.4	725.0	727.6
130°	770.2	768.1	766.1	763.6	760.7	757.9	754.9	752.0	754.9	757.9	760.7
132.5°	801.1	799.1	797.0	794.8	792.3	789.9	787.4	784.9	787.4	789.9	792.3
135°	844.9	843.3	841.6	839.4	836.5	833.5	830.6	827.7	830.6	833.5	836.5
137.5°	884.8	883.0	881.1	879.1	877.1	875.0	873.0	870.9	873.0	875.0	877.1
140°	910.9	908.8	906.8	905.1	903.6	902.2	900.7	899.2	900.7	902.2	903.6
142.5°	934.6	932.3	930.0	928.2	926.9	925.6	924.2	922.9	924.2	925.6	926.9
145°	967.1	964.0	960.9	959.4	959.6	959.8	959.9	960.1	959.9	959.8	959.6
147.5°	997.0	994.0	990.9	989.7	990.4	991.1	991.8	992.6	991.8	991.1	990.4
150°	1015.1	1012.2	1009.3	1008.5	1009.8	1011.0	1012.3	1013.6	1012.3	1011.0	1009.8
152.5°	1031.9	1029.1	1026.3	1025.6	1027.1	1028.5	1029.9	1031.4	1029.9	1028.5	1027.1
155°	1055.2	1053.1	1050.9	1050.6	1052.2	1053.9	1055.5	1057.2	1055.5	1053.9	1052.2
157.5°	1075.0	1073.5	1071.9	1071.9	1073.2	1074.6	1076.1	1077.5	1076.1	1074.6	1073.2
160°	1087.1	1086.0	1084.9	1084.9	1086.0	1087.1	1088.2	1089.3	1088.2	1087.1	1086.0
162.5°	1097.3	1096.3	1095.4	1095.5	1096.5	1097.6	1098.7	1099.8	1098.7	1097.6	1096.5
165°	1110.3	1109.8	1109.3	1109.6	1110.7	1111.7	1112.8	1114.0	1112.8	1111.7	1110.7
167.5°	1120.8	1120.3	1119.8	1120.1	1121.2	1122.3	1123.3	1124.5	1123.3	1122.3	1121.2
170°	1126.4	1126.0	1125.7	1126.0	1127.1	1128.3	1129.3	1130.4	1129.3	1128.3	1127.1
172.5°	1130.3	1130.0	1129.6	1130.0	1131.1	1132.1	1133.2	1134.4	1133.2	1132.1	1131.1
175°	1134.6	1134.3	1133.9	1134.4	1135.7	1136.9	1138.2	1139.4	1138.2	1136.9	1135.7
177.5°	1136.0	1135.9	1135.7	1136.2	1137.2	1138.2	1139.3	1140.3	1139.3	1138.2	1137.2
180°	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0



TEST NUMBER: P331773-935

CATALOG NUMBER: S122RDIW-S290D970U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	554.9	553.8	551.7	548.6	546.7	543.5	541.3	542.5	542.9	542.5	542.3
5°	540.0	535.9	530.2	524.7	519.6	514.2	511.0	509.7	507.0	505.4	504.5
7.5°	521.9	514.9	506.9	497.3	489.2	480.7	476.4	474.2	468.6	465.6	463.0
10°	508.5	497.3	489.3	476.8	469.2	458.1	450.4	450.6	443.0	438.7	435.6
12.5°	493.6	481.4	468.0	456.8	446.2	437.2	428.0	424.3	416.2	412.1	403.6
15°	469.0	454.7	440.7	425.4	414.7	400.7	387.4	371.2	358.1	346.7	343.6
17.5°	442.1	424.4	410.3	392.4	373.9	350.6	335.2	325.7	317.9	311.9	307.4
20°	423.6	405.6	390.5	363.6	338.7	322.9	311.6	304.3	296.1	289.6	286.1
22.5°	404.2	385.5	364.9	334.8	315.4	302.7	292.7	284.3	278.7	273.7	270.4
25°	376.7	356.1	322.3	301.6	285.9	272.6	265.6	260.5	254.7	247.8	244.7
27.5°	347.6	315.0	290.6	275.2	260.3	251.7	245.3	237.7	232.5	229.4	226.1
30°	325.8	293.2	274.2	257.4	246.8	237.2	229.8	225.5	220.4	215.2	213.0
32.5°	301.6	275.5	257.3	243.3	232.6	224.4	218.5	211.5	207.9	204.7	200.2
35°	271.5	251.7	235.1	223.8	213.5	206.9	200.1	196.0	189.3	186.6	184.9
37.5°	246.0	228.9	216.5	204.5	196.4	189.1	184.9	178.3	175.5	171.6	167.9
40°	231.5	214.7	202.9	193.0	184.0	178.6	173.3	168.0	163.7	162.0	157.5
42.5°	216.9	203.2	191.2	180.6	174.5	168.7	162.0	158.2	153.7	150.8	148.1
45°	196.6	184.4	174.3	165.5	158.8	152.7	148.4	142.0	139.5	133.8	131.4
47.5°	178.7	167.5	157.7	149.4	142.9	139.0	132.7	127.6	123.6	120.0	117.0
50°	166.1	156.6	147.2	139.8	134.0	128.3	121.8	119.3	113.0	111.2	109.5
52.5°	154.5	145.5	137.0	129.7	123.8	118.3	112.6	109.3	105.0	103.3	102.0
55°	138.3	129.7	121.5	115.0	109.2	103.5	100.0	95.8	93.8	92.5	90.9
57.5°	122.0	114.3	108.0	101.4	95.5	91.0	87.0	84.5	82.5	80.7	78.8
60°	111.7	104.3	98.6	92.5	86.4	82.7	79.6	76.6	74.3	71.5	70.8
62.5°	100.7	94.2	89.0	83.1	77.8	74.5	71.5	68.7	65.9	61.9	60.8
65°	85.7	80.6	75.1	70.2	65.5	62.2	57.9	54.8	53.6	53.2	53.0
67.5°	72.1	67.2	62.5	57.5	53.3	50.2	48.0	47.5	46.7	46.5	45.9
70°	62.9	58.5	53.8	49.1	44.9	44.4	43.7	42.8	41.8	41.5	41.1
72.5°	54.8	50.2	45.5	41.8	40.0	39.3	38.5	37.6	37.0	36.6	36.4
75°	42.0	37.7	34.6	33.2	32.3	31.7	30.5	30.0	29.5	28.9	28.8
77.5°	30.3	27.8	26.4	25.6	24.5	23.9	23.2	22.6	22.2	22.1	21.8
80°	23.1	21.9	20.9	19.7	19.4	18.6	18.4	17.8	18.0	17.4	17.4
82.5°	17.9	16.4	15.6	15.1	14.6	14.0	13.9	13.6	13.6	13.2	13.2
85°	9.2	8.8	8.4	8.0	8.0	7.4	7.7	7.4	7.4	7.1	6.9
87.5°	4.7	4.9	4.9	5.3	5.5	5.6	5.9	5.9	6.0	6.2	6.2
90°	8.9	10.6	12.1	13.5	15.0	16.4	17.4	18.3	19.2	20.1	20.8
92.5°	15.9	16.2	16.9	17.7	18.3	19.1	19.5	20.1	20.5	21.0	21.4
95°	29.4	26.9	28.2	29.5	30.8	32.1	33.0	33.9	34.9	35.7	36.1
97.5°	38.1	31.1	34.1	37.0	40.0	43.0	43.7	44.4	45.1	45.9	46.3
100°	45.5	34.4	37.5	40.6	43.8	46.9	48.4	49.9	51.3	52.8	53.6
102.5°	167.8	152.2	126.2	100.2	74.2	48.2	50.1	52.0	53.9	55.8	57.0
105°	272.1	249.9	199.9	150.0	100.1	50.2	52.2	54.2	56.2	58.2	59.6
107.5°	337.4	309.7	249.9	189.9	130.1	70.3	68.2	66.1	64.1	62.1	61.4
110°	379.8	355.3	302.5	249.7	196.8	144.0	125.7	107.4	89.1	70.9	62.1



TEST NUMBER: P331773-935

CATALOG NUMBER: S122RDIW-S290D970U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	420.2	415.3	402.3	389.3	376.2	363.2	296.4	229.7	163.1	96.3	63.3
115°	485.5	489.3	493.9	498.4	503.1	507.6	422.9	338.3	253.7	169.0	120.1
117.5°	546.4	549.7	552.8	555.9	559.1	562.2	541.7	521.2	500.8	480.4	448.5
120°	586.9	589.9	593.1	596.5	599.8	603.0	605.3	607.4	609.6	611.8	600.5
122.5°	624.3	627.6	631.1	634.7	638.3	641.9	643.2	644.5	645.8	647.1	645.4
125°	678.4	681.3	684.8	688.3	691.7	695.2	696.5	697.8	699.0	700.3	701.2
127.5°	730.2	732.9	735.5	738.0	740.6	743.2	745.1	747.0	748.8	750.7	751.7
130°	763.6	766.1	768.1	770.2	772.1	774.2	776.2	778.2	780.2	782.2	783.2
132.5°	794.8	797.0	799.1	801.1	803.1	805.1	806.8	808.6	810.3	812.0	812.8
135°	839.4	841.6	843.3	844.9	846.5	848.3	850.1	851.9	853.7	855.5	856.3
137.5°	879.1	881.1	883.0	884.8	886.7	888.6	890.4	892.1	893.9	895.7	896.3
140°	905.1	906.8	908.8	910.9	912.8	914.9	916.5	918.2	919.8	921.4	921.8
142.5°	928.2	930.0	932.3	934.6	936.9	939.2	940.7	942.2	943.7	945.2	945.5
145°	959.4	960.9	964.0	967.1	970.2	973.3	974.6	975.9	977.1	978.4	978.6
147.5°	989.7	990.9	994.0	997.0	1000.1	1003.2	1004.2	1005.1	1006.1	1007.0	1007.1
150°	1008.5	1009.3	1012.2	1015.1	1018.0	1021.0	1022.1	1023.2	1024.2	1025.4	1025.5
152.5°	1025.6	1026.3	1029.1	1031.9	1034.7	1037.4	1038.5	1039.7	1040.7	1041.8	1041.8
155°	1050.6	1050.9	1053.1	1055.2	1057.5	1059.6	1060.8	1061.9	1062.9	1064.0	1063.9
157.5°	1071.9	1071.9	1073.5	1075.0	1076.5	1078.1	1079.3	1080.6	1081.8	1083.1	1083.0
160°	1084.9	1084.9	1086.0	1087.1	1088.2	1089.3	1090.4	1091.5	1092.5	1093.6	1093.6
162.5°	1095.5	1095.4	1096.3	1097.3	1098.2	1099.2	1100.4	1101.6	1102.9	1104.1	1104.0
165°	1109.6	1109.3	1109.8	1110.3	1110.9	1111.5	1112.8	1114.0	1115.3	1116.6	1116.6
167.5°	1120.1	1119.8	1120.3	1120.8	1121.4	1121.9	1123.1	1124.4	1125.7	1127.0	1126.8
170°	1126.0	1125.7	1126.0	1126.4	1126.8	1127.1	1128.4	1129.7	1130.9	1132.2	1132.0
172.5°	1130.0	1129.6	1130.0	1130.3	1130.7	1131.1	1132.4	1133.6	1134.9	1136.2	1136.0
175°	1134.4	1133.9	1134.3	1134.6	1135.0	1135.3	1136.6	1137.9	1139.2	1140.5	1140.2
177.5°	1136.2	1135.7	1135.9	1136.0	1136.2	1136.3	1137.4	1138.4	1139.4	1140.4	1140.3
180°	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0



TEST NUMBER: P331773-935

CATALOG NUMBER: S122RDIW-S290D970U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	540.5	540.8	540.4	540.6	540.4	540.8	540.5	542.3	542.5	542.9	542.5
5°	503.6	501.3	500.8	500.3	500.8	501.3	503.6	504.5	505.4	507.0	509.7
7.5°	459.6	459.3	458.2	456.8	458.2	459.3	459.6	463.0	465.6	468.6	474.2
10°	431.3	430.2	430.1	428.7	430.1	430.2	431.3	435.6	438.7	443.0	450.6
12.5°	398.0	391.8	391.2	387.7	391.2	391.8	398.0	403.6	412.1	416.2	424.3
15°	339.0	337.8	333.8	331.3	333.8	337.8	339.0	343.6	346.7	358.1	371.2
17.5°	305.1	301.3	300.1	299.5	300.1	301.3	305.1	307.4	311.9	317.9	325.7
20°	283.4	279.9	279.3	278.9	279.3	279.9	283.4	286.1	289.6	296.1	304.3
22.5°	268.4	264.7	263.2	262.0	263.2	264.7	268.4	270.4	273.7	278.7	284.3
25°	242.7	241.3	240.6	240.1	240.6	241.3	242.7	244.7	247.8	254.7	260.5
27.5°	222.7	219.6	219.0	218.0	219.0	219.6	222.7	226.1	229.4	232.5	237.7
30°	211.2	210.3	208.9	207.7	208.9	210.3	211.2	213.0	215.2	220.4	225.5
32.5°	197.8	196.9	195.7	195.2	195.7	196.9	197.8	200.2	204.7	207.9	211.5
35°	182.9	180.1	178.9	177.2	178.9	180.1	182.9	184.9	186.6	189.3	196.0
37.5°	167.1	165.7	164.0	164.6	164.0	165.7	167.1	167.9	171.6	175.5	178.3
40°	154.9	153.9	153.5	153.3	153.5	153.9	154.9	157.5	162.0	163.7	168.0
42.5°	145.2	142.5	141.5	141.5	141.5	142.5	145.2	148.1	150.8	153.7	158.2
45°	130.4	127.9	126.1	126.3	126.1	127.9	130.4	131.4	133.8	139.5	142.0
47.5°	115.4	115.3	114.2	114.5	114.2	115.3	115.4	117.0	120.0	123.6	127.6
50°	108.1	107.0	106.2	106.4	106.2	107.0	108.1	109.5	111.2	113.0	119.3
52.5°	101.3	100.2	99.6	100.5	99.6	100.2	101.3	102.0	103.3	105.0	109.3
55°	90.0	88.8	88.6	88.4	88.6	88.8	90.0	90.9	92.5	93.8	95.8
57.5°	77.3	76.5	75.3	74.9	75.3	76.5	77.3	78.8	80.7	82.5	84.5
60°	68.3	66.7	64.7	64.6	64.7	66.7	68.3	70.8	71.5	74.3	76.6
62.5°	59.9	59.7	59.2	59.2	59.2	59.7	59.9	60.8	61.9	65.9	68.7
65°	52.6	52.4	52.6	52.8	52.6	52.4	52.6	53.0	53.2	53.6	54.8
67.5°	45.8	45.5	45.1	45.3	45.1	45.5	45.8	45.9	46.5	46.7	47.5
70°	40.6	40.5	40.3	40.3	40.3	40.5	40.6	41.1	41.5	41.8	42.8
72.5°	35.6	35.6	35.5	35.3	35.5	35.6	35.6	36.4	36.6	37.0	37.6
75°	28.6	28.2	28.2	28.2	28.2	28.2	28.6	28.8	28.9	29.5	30.0
77.5°	21.8	21.5	21.4	21.2	21.4	21.5	21.8	21.8	22.1	22.2	22.6
80°	17.2	17.0	16.8	16.8	16.8	17.0	17.2	17.4	17.4	18.0	17.8
82.5°	13.2	12.9	12.9	12.7	12.9	12.9	13.2	13.2	13.2	13.6	13.6
85°	7.1	7.2	7.1	7.4	7.1	7.2	7.1	6.9	7.1	7.4	7.4
87.5°	6.3	6.2	6.4	6.3	6.4	6.2	6.3	6.2	6.2	6.0	5.9
90°	21.1	21.4	21.9	22.2	21.9	21.4	21.1	20.8	20.1	19.2	18.3
92.5°	21.5	21.8	22.0	22.2	22.0	21.8	21.5	21.4	21.0	20.5	20.1
95°	35.9	35.7	35.6	35.4	35.6	35.7	35.9	36.1	35.7	34.9	33.9
97.5°	46.6	46.8	47.0	47.2	47.0	46.8	46.6	46.3	45.9	45.1	44.4
100°	54.0	54.4	54.8	55.1	54.8	54.4	54.0	53.6	52.8	51.3	49.9
102.5°	57.5	58.0	58.5	59.1	58.5	58.0	57.5	57.0	55.8	53.9	52.0
105°	60.4	61.0	61.8	62.5	61.8	61.0	60.4	59.6	58.2	56.2	54.2
107.5°	62.2	62.9	63.6	64.3	63.6	62.9	62.2	61.4	62.1	64.1	66.1
110°	62.8	63.5	64.2	65.0	64.2	63.5	62.8	62.1	70.9	89.1	107.4



TEST NUMBER: P331773-935

CATALOG NUMBER: S122RDIW-S290D970U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	63.9	64.5	65.1	65.7	65.1	64.5	63.9	63.3	96.3	163.1	229.7
115°	106.9	93.8	80.6	67.5	80.6	93.8	106.9	120.1	169.0	253.7	338.3
117.5°	405.2	362.0	318.7	275.4	318.7	362.0	405.2	448.5	480.4	500.8	521.2
120°	575.9	551.2	526.5	501.9	526.5	551.2	575.9	600.5	611.8	609.6	607.4
122.5°	640.6	635.8	631.0	626.3	631.0	635.8	640.6	645.4	647.1	645.8	644.5
125°	701.8	702.3	702.8	703.4	702.8	702.3	701.8	701.2	700.3	699.0	697.8
127.5°	751.8	751.9	752.0	752.1	752.0	751.9	751.8	751.7	750.7	748.8	747.0
130°	782.9	782.7	782.6	782.4	782.6	782.7	782.9	783.2	782.2	780.2	778.2
132.5°	812.5	812.4	812.2	812.0	812.2	812.4	812.5	812.8	812.0	810.3	808.6
135°	855.9	855.5	855.1	854.8	855.1	855.5	855.9	856.3	855.5	853.7	851.9
137.5°	895.7	895.0	894.4	893.8	894.4	895.0	895.7	896.3	895.7	893.9	892.1
140°	920.9	920.0	919.0	918.2	919.0	920.0	920.9	921.8	921.4	919.8	918.2
142.5°	944.6	943.7	942.8	941.8	942.8	943.7	944.6	945.5	945.2	943.7	942.2
145°	977.7	976.7	975.9	974.9	975.9	976.7	977.7	978.6	978.4	977.1	975.9
147.5°	1006.3	1005.6	1004.8	1004.0	1004.8	1005.6	1006.3	1007.1	1007.0	1006.1	1005.1
150°	1024.6	1023.6	1022.7	1021.8	1022.7	1023.6	1024.6	1025.5	1025.4	1024.2	1023.2
152.5°	1040.6	1039.4	1038.2	1037.0	1038.2	1039.4	1040.6	1041.8	1041.8	1040.7	1039.7
155°	1062.4	1060.9	1059.5	1058.0	1059.5	1060.9	1062.4	1063.9	1064.0	1062.9	1061.9
157.5°	1081.5	1080.1	1078.7	1077.3	1078.7	1080.1	1081.5	1083.0	1083.1	1081.8	1080.6
160°	1092.3	1091.0	1089.8	1088.5	1089.8	1091.0	1092.3	1093.6	1093.6	1092.5	1091.5
162.5°	1102.3	1100.8	1099.2	1097.7	1099.2	1100.8	1102.3	1104.0	1104.1	1102.9	1101.6
165°	1115.3	1114.0	1112.8	1111.5	1112.8	1114.0	1115.3	1116.6	1116.6	1115.3	1114.0
167.5°	1125.2	1123.5	1121.9	1120.2	1121.9	1123.5	1125.2	1126.8	1127.0	1125.7	1124.4
170°	1130.4	1128.8	1127.1	1125.5	1127.1	1128.8	1130.4	1132.0	1132.2	1130.9	1129.7
172.5°	1134.4	1132.7	1131.1	1129.5	1131.1	1132.7	1134.4	1136.0	1136.2	1134.9	1133.6
175°	1138.3	1136.5	1134.7	1132.9	1134.7	1136.5	1138.3	1140.2	1140.5	1139.2	1137.9
177.5°	1138.9	1137.6	1136.3	1135.1	1136.3	1137.6	1138.9	1140.3	1140.4	1139.4	1138.4
180°	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0



TEST NUMBER: P331773-935

CATALOG NUMBER: S122RDIW-S290D970U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	541.3	543.5	546.7	548.6	551.7	553.8	554.9	556.9	558.0	562.0	566.0
5°	511.0	514.2	519.6	524.7	530.2	535.9	540.0	544.7	549.0	556.4	564.2
7.5°	476.4	480.7	489.2	497.3	506.9	514.9	521.9	529.9	537.1	547.8	558.9
10°	450.4	458.1	469.2	476.8	489.3	497.3	508.5	517.3	527.3	541.4	553.9
12.5°	428.0	437.2	446.2	456.8	468.0	481.4	493.6	505.0	516.8	531.3	546.0
15°	387.4	400.7	414.7	425.4	440.7	454.7	469.0	484.2	498.7	516.2	535.3
17.5°	335.2	350.6	373.9	392.4	410.3	424.4	442.1	460.5	477.6	498.6	520.0
20°	311.6	322.9	338.7	363.6	390.5	405.6	423.6	443.9	463.5	486.4	509.3
22.5°	292.7	302.7	315.4	334.8	364.9	385.5	404.2	424.9	447.5	470.9	496.3
25°	265.6	272.6	285.9	301.6	322.3	356.1	376.7	397.4	422.1	447.1	476.0
27.5°	245.3	251.7	260.3	275.2	290.6	315.0	347.6	370.2	394.8	422.9	453.0
30°	229.8	237.2	246.8	257.4	274.2	293.2	325.8	352.1	376.3	405.3	437.3
32.5°	218.5	224.4	232.6	243.3	257.3	275.5	301.6	333.4	357.1	387.5	421.0
35°	200.1	206.9	213.5	223.8	235.1	251.7	271.5	305.5	329.0	359.0	392.7
37.5°	184.9	189.1	196.4	204.5	216.5	228.9	246.0	276.5	301.9	331.4	365.8
40°	173.3	178.6	184.0	193.0	202.9	214.7	231.5	254.3	283.4	312.4	345.9
42.5°	162.0	168.7	174.5	180.6	191.2	203.2	216.9	236.1	265.9	293.3	326.0
45°	148.4	152.7	158.8	165.5	174.3	184.4	196.6	213.4	241.9	265.6	296.3
47.5°	132.7	139.0	142.9	149.4	157.7	167.5	178.7	193.3	216.4	238.6	267.1
50°	121.8	128.3	134.0	139.8	147.2	156.6	166.1	180.1	198.7	222.0	248.6
52.5°	112.6	118.3	123.8	129.7	137.0	145.5	154.5	166.9	182.7	204.1	230.0
55°	100.0	103.5	109.2	115.0	121.5	129.7	138.3	148.6	162.3	180.3	201.2
57.5°	87.0	91.0	95.5	101.4	108.0	114.3	122.0	131.4	142.2	158.4	176.3
60°	79.6	82.7	86.4	92.5	98.6	104.3	111.7	119.5	129.7	143.8	159.0
62.5°	71.5	74.5	77.8	83.1	89.0	94.2	100.7	109.0	117.6	130.4	143.8
65°	57.9	62.2	65.5	70.2	75.1	80.6	85.7	92.3	100.0	110.1	122.0
67.5°	48.0	50.2	53.3	57.5	62.5	67.2	72.1	77.2	83.9	91.7	101.2
70°	43.7	44.4	44.9	49.1	53.8	58.5	62.9	67.8	73.5	80.0	88.2
72.5°	38.5	39.3	40.0	41.8	45.5	50.2	54.8	58.5	63.8	69.2	75.9
75°	30.5	31.7	32.3	33.2	34.6	37.7	42.0	45.5	48.7	52.8	58.1
77.5°	23.2	23.9	24.5	25.6	26.4	27.8	30.3	33.4	36.4	38.7	42.4
80°	18.4	18.6	19.4	19.7	20.9	21.9	23.1	25.7	28.6	29.5	32.1
82.5°	13.9	14.0	14.6	15.1	15.6	16.4	17.9	18.6	20.9	22.2	23.8
85°	7.7	7.4	8.0	8.0	8.4	8.8	9.2	10.2	10.8	12.3	12.7
87.5°	5.9	5.6	5.5	5.3	4.9	4.9	4.7	4.5	4.4	4.5	4.7
90°	17.4	16.4	15.0	13.5	12.1	10.6	8.9	6.9	4.8	2.8	0.9
92.5°	19.5	19.1	18.3	17.7	16.9	16.2	15.9	16.1	16.3	16.4	16.6
95°	33.0	32.1	30.8	29.5	28.2	26.9	29.4	35.4	41.4	47.4	53.5
97.5°	43.7	43.0	40.0	37.0	34.1	31.1	38.1	55.1	72.2	89.1	106.2
100°	48.4	46.9	43.8	40.6	37.5	34.4	45.5	70.5	95.5	120.5	145.6
102.5°	50.1	48.2	74.2	100.2	126.2	152.2	167.8	173.1	178.5	183.7	189.1
105°	52.2	50.2	100.1	150.0	199.9	249.9	272.1	266.6	261.1	255.6	250.1
107.5°	68.2	70.3	130.1	189.9	249.9	309.7	337.4	332.9	328.6	324.2	319.7
110°	125.7	144.0	196.8	249.7	302.5	355.3	379.8	376.0	372.1	368.3	364.5



TEST NUMBER: P331773-935

CATALOG NUMBER: S122RDIW-S290D970U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	296.4	363.2	376.2	389.3	402.3	415.3	420.2	416.8	413.4	410.0	406.6
115°	422.9	507.6	503.1	498.4	493.9	489.3	485.5	482.4	479.3	476.1	473.0
117.5°	541.7	562.2	559.1	555.9	552.8	549.7	546.4	542.9	539.4	536.0	532.4
120°	605.3	603.0	599.8	596.5	593.1	589.9	586.9	584.1	581.3	578.7	575.9
122.5°	643.2	641.9	638.3	634.7	631.1	627.6	624.3	621.4	618.5	615.6	612.8
125°	696.5	695.2	691.7	688.3	684.8	681.3	678.4	676.0	673.6	671.2	668.8
127.5°	745.1	743.2	740.6	738.0	735.5	732.9	730.2	727.6	725.0	722.4	719.7
130°	776.2	774.2	772.1	770.2	768.1	766.1	763.6	760.7	757.9	754.9	752.0
132.5°	806.8	805.1	803.1	801.1	799.1	797.0	794.8	792.3	789.9	787.4	784.9
135°	850.1	848.3	846.5	844.9	843.3	841.6	839.4	836.5	833.5	830.6	827.7
137.5°	890.4	888.6	886.7	884.8	883.0	881.1	879.1	877.1	875.0	873.0	870.9
140°	916.5	914.9	912.8	910.9	908.8	906.8	905.1	903.6	902.2	900.7	899.2
142.5°	940.7	939.2	936.9	934.6	932.3	930.0	928.2	926.9	925.6	924.2	922.9
145°	974.6	973.3	970.2	967.1	964.0	960.9	959.4	959.6	959.8	959.9	960.1
147.5°	1004.2	1003.2	1000.1	997.0	994.0	990.9	989.7	990.4	991.1	991.8	992.6
150°	1022.1	1021.0	1018.0	1015.1	1012.2	1009.3	1008.5	1009.8	1011.0	1012.3	1013.6
152.5°	1038.5	1037.4	1034.7	1031.9	1029.1	1026.3	1025.6	1027.1	1028.5	1029.9	1031.4
155°	1060.8	1059.6	1057.5	1055.2	1053.1	1050.9	1050.6	1052.2	1053.9	1055.5	1057.2
157.5°	1079.3	1078.1	1076.5	1075.0	1073.5	1071.9	1071.9	1073.2	1074.6	1076.1	1077.5
160°	1090.4	1089.3	1088.2	1087.1	1086.0	1084.9	1084.9	1086.0	1087.1	1088.2	1089.3
162.5°	1100.4	1099.2	1098.2	1097.3	1096.3	1095.4	1095.5	1096.5	1097.6	1098.7	1099.8
165°	1112.8	1111.5	1110.9	1110.3	1109.8	1109.3	1109.6	1110.7	1111.7	1112.8	1114.0
167.5°	1123.1	1121.9	1121.4	1120.8	1120.3	1119.8	1120.1	1121.2	1122.3	1123.3	1124.5
170°	1128.4	1127.1	1126.8	1126.4	1126.0	1125.7	1126.0	1127.1	1128.3	1129.3	1130.4
172.5°	1132.4	1131.1	1130.7	1130.3	1130.0	1129.6	1130.0	1131.1	1132.1	1133.2	1134.4
175°	1136.6	1135.3	1135.0	1134.6	1134.3	1133.9	1134.4	1135.7	1136.9	1138.2	1139.4
177.5°	1137.4	1136.3	1136.2	1136.0	1135.9	1135.7	1136.2	1137.2	1138.2	1139.3	1140.3
180°	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0



TEST NUMBER: P331773-935

CATALOG NUMBER: S122RDIW-S290D970U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	566.2	566.6	569.7	571.2	573.9	575.1	576.4	576.0	576.0	576.6	581.0
5°	567.4	571.3	577.1	582.8	588.3	593.0	596.2	599.3	600.5	606.1	611.1
7.5°	565.3	572.6	582.2	590.9	601.2	609.3	616.0	622.2	626.3	634.6	643.0
10°	562.7	572.8	583.8	595.0	609.2	620.0	630.9	639.4	642.0	654.4	661.4
12.5°	557.3	570.9	584.9	599.3	613.3	628.1	640.2	648.6	658.2	669.3	682.3
15°	549.4	565.0	583.2	601.8	621.7	639.7	652.6	667.3	677.9	690.0	701.4
17.5°	538.0	558.1	581.2	602.7	625.8	645.1	662.9	676.9	684.3	691.3	692.9
20°	528.8	550.5	577.7	603.1	626.2	648.5	666.2	677.9	679.8	680.0	669.7
22.5°	519.0	543.5	572.0	598.0	625.6	650.4	664.1	669.1	661.3	648.1	628.0
25°	500.8	529.3	562.3	592.0	622.2	645.6	650.3	641.5	614.3	585.7	549.6
27.5°	481.2	513.2	548.5	581.6	613.7	628.3	618.1	586.3	537.4	494.8	443.2
30°	466.8	502.7	537.4	574.4	604.2	610.4	587.1	540.4	483.3	419.1	367.6
32.5°	450.4	487.9	526.2	564.4	589.3	583.2	544.8	487.2	420.3	357.1	308.6
35°	427.0	465.6	507.0	545.3	561.1	534.7	477.2	402.3	333.8	275.0	241.5
37.5°	399.8	442.0	484.9	520.1	519.0	475.0	396.7	319.3	261.8	227.0	203.2
40°	380.6	423.3	469.6	499.3	486.6	429.3	344.4	271.5	229.4	201.6	184.3
42.5°	362.1	404.9	451.0	474.6	452.5	382.0	297.5	240.3	205.6	184.0	169.9
45°	330.7	375.9	418.5	431.6	392.1	314.5	240.6	199.1	176.0	160.0	150.2
47.5°	300.0	344.5	383.4	383.6	330.2	255.0	202.9	172.3	152.6	140.2	133.1
50°	281.2	323.5	356.1	351.0	290.4	226.9	181.5	155.1	138.7	129.1	121.7
52.5°	260.1	301.1	329.4	315.0	256.8	199.7	162.2	140.1	126.5	118.1	111.5
55°	229.4	265.8	285.8	263.8	209.5	166.1	137.1	119.7	109.5	102.5	96.8
57.5°	199.2	229.3	241.8	216.3	172.5	137.7	116.0	102.9	92.8	87.7	84.8
60°	180.3	206.0	214.7	186.6	150.0	120.5	102.7	90.6	83.1	79.8	76.9
62.5°	161.7	182.6	186.2	160.5	130.8	105.5	90.1	79.9	75.0	71.8	69.1
65°	134.1	149.2	147.5	126.7	103.5	83.7	72.6	66.3	62.6	58.1	53.2
67.5°	110.5	119.7	114.1	98.6	79.0	65.1	57.8	53.0	48.4	44.2	43.0
70°	95.4	100.7	94.9	80.6	64.7	54.6	48.7	43.0	40.3	39.3	37.5
72.5°	81.0	82.9	76.5	64.3	52.7	45.2	39.4	36.3	34.8	34.0	32.9
75°	60.8	59.5	54.0	44.4	36.6	31.5	29.7	28.6	27.6	26.8	26.2
77.5°	42.7	40.7	35.8	29.5	25.5	23.1	22.0	21.4	20.9	20.5	19.9
80°	32.1	30.7	25.8	21.1	19.4	18.2	17.6	16.8	16.8	16.4	15.8
82.5°	23.5	22.0	17.7	15.5	14.6	13.8	13.3	12.9	12.7	12.8	12.4
85°	12.3	10.0	8.8	8.4	7.8	7.4	7.7	7.2	7.2	7.2	7.1
87.5°	4.3	4.0	4.2	4.4	4.9	5.3	5.3	5.7	6.1	6.1	6.5
90°	2.8	4.8	6.9	8.9	10.6	12.1	13.5	15.0	16.4	17.4	18.3
92.5°	16.4	16.3	16.1	15.9	16.2	16.9	17.7	18.3	19.1	19.5	20.1
95°	47.4	41.4	35.4	29.4	26.9	28.2	29.5	30.8	32.1	33.0	33.9
97.5°	89.1	72.2	55.1	38.1	31.1	34.1	37.0	40.0	43.0	43.7	44.4
100°	120.5	95.5	70.5	45.5	34.4	37.5	40.6	43.8	46.9	48.4	49.9
102.5°	183.7	178.5	173.1	167.8	152.2	126.2	100.2	74.2	48.2	50.1	52.0
105°	255.6	261.1	266.6	272.1	249.9	199.9	150.0	100.1	50.2	52.2	54.2
107.5°	324.2	328.6	332.9	337.4	309.7	249.9	189.9	130.1	70.3	68.2	66.1
110°	368.3	372.1	376.0	379.8	355.3	302.5	249.7	196.8	144.0	125.7	107.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	410.0	413.4	416.8	420.2	415.3	402.3	389.3	376.2	363.2	296.4	229.7
115°	476.1	479.3	482.4	485.5	489.3	493.9	498.4	503.1	507.6	422.9	338.3
117.5°	536.0	539.4	542.9	546.4	549.7	552.8	555.9	559.1	562.2	541.7	521.2
120°	578.7	581.3	584.1	586.9	589.9	593.1	596.5	599.8	603.0	605.3	607.4
122.5°	615.6	618.5	621.4	624.3	627.6	631.1	634.7	638.3	641.9	643.2	644.5
125°	671.2	673.6	676.0	678.4	681.3	684.8	688.3	691.7	695.2	696.5	697.8
127.5°	722.4	725.0	727.6	730.2	732.9	735.5	738.0	740.6	743.2	745.1	747.0
130°	754.9	757.9	760.7	763.6	766.1	768.1	770.2	772.1	774.2	776.2	778.2
132.5°	787.4	789.9	792.3	794.8	797.0	799.1	801.1	803.1	805.1	806.8	808.6
135°	830.6	833.5	836.5	839.4	841.6	843.3	844.9	846.5	848.3	850.1	851.9
137.5°	873.0	875.0	877.1	879.1	881.1	883.0	884.8	886.7	888.6	890.4	892.1
140°	900.7	902.2	903.6	905.1	906.8	908.8	910.9	912.8	914.9	916.5	918.2
142.5°	924.2	925.6	926.9	928.2	930.0	932.3	934.6	936.9	939.2	940.7	942.2
145°	959.9	959.8	959.6	959.4	960.9	964.0	967.1	970.2	973.3	974.6	975.9
147.5°	991.8	991.1	990.4	989.7	990.9	994.0	997.0	1000.1	1003.2	1004.2	1005.1
150°	1012.3	1011.0	1009.8	1008.5	1009.3	1012.2	1015.1	1018.0	1021.0	1022.1	1023.2
152.5°	1029.9	1028.5	1027.1	1025.6	1026.3	1029.1	1031.9	1034.7	1037.4	1038.5	1039.7
155°	1055.5	1053.9	1052.2	1050.6	1050.9	1053.1	1055.2	1057.5	1059.6	1060.8	1061.9
157.5°	1076.1	1074.6	1073.2	1071.9	1071.9	1073.5	1075.0	1076.5	1078.1	1079.3	1080.6
160°	1088.2	1087.1	1086.0	1084.9	1084.9	1086.0	1087.1	1088.2	1089.3	1090.4	1091.5
162.5°	1098.7	1097.6	1096.5	1095.5	1095.4	1096.3	1097.3	1098.2	1099.2	1100.4	1101.6
165°	1112.8	1111.7	1110.7	1109.6	1109.3	1109.8	1110.3	1110.9	1111.5	1112.8	1114.0
167.5°	1123.3	1122.3	1121.2	1120.1	1119.8	1120.3	1120.8	1121.4	1121.9	1123.1	1124.4
170°	1129.3	1128.3	1127.1	1126.0	1125.7	1126.0	1126.4	1126.8	1127.1	1128.4	1129.7
172.5°	1133.2	1132.1	1131.1	1130.0	1129.6	1130.0	1130.3	1130.7	1131.1	1132.4	1133.6
175°	1138.2	1136.9	1135.7	1134.4	1133.9	1134.3	1134.6	1135.0	1135.3	1136.6	1137.9
177.5°	1139.3	1138.2	1137.2	1136.2	1135.7	1135.9	1136.0	1136.2	1136.3	1137.4	1138.4
180°	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	582.6	584.6	585.6	585.6	586.7	586.2	585.7
5°	616.0	619.7	620.6	624.1	626.6	625.9	626.2
7.5°	649.4	655.3	661.2	663.9	664.3	665.9	666.5
10°	669.9	674.8	683.9	682.6	689.4	693.4	686.9
12.5°	689.6	696.2	702.6	704.3	708.2	709.5	706.9
15°	707.4	710.9	711.3	710.3	711.5	710.5	706.8
17.5°	690.8	685.0	673.5	668.0	663.7	657.2	654.6
20°	663.2	646.4	626.8	619.0	609.8	591.9	596.2
22.5°	603.7	584.6	565.0	542.2	531.2	514.2	513.2
25°	511.3	478.2	441.8	416.4	401.5	384.5	377.0
27.5°	397.5	355.9	326.1	311.0	297.2	283.8	283.2
30°	322.7	291.4	268.4	255.5	247.0	241.3	242.5
32.5°	272.0	250.6	235.0	224.3	218.1	213.8	213.7
35°	222.4	207.7	197.7	193.2	188.7	185.6	185.8
37.5°	190.3	181.5	175.9	171.0	168.2	166.6	165.7
40°	173.8	166.6	162.3	159.4	157.0	154.9	154.5
42.5°	160.9	154.9	150.6	148.3	146.1	144.6	144.2
45°	142.8	137.8	134.0	131.4	130.4	129.1	129.1
47.5°	127.0	122.2	119.2	117.5	115.9	114.9	114.9
50°	116.4	112.6	109.9	108.9	107.5	107.0	106.8
52.5°	106.9	104.0	102.1	101.4	100.8	100.1	100.2
55°	93.8	92.3	91.5	90.9	90.0	88.8	89.5
57.5°	83.0	81.6	79.6	77.7	76.8	75.9	76.3
60°	75.3	72.6	69.8	67.7	67.1	65.3	65.3
62.5°	65.6	61.7	58.4	57.2	56.6	55.8	55.6
65°	50.5	48.9	48.1	47.4	46.9	46.9	46.6
67.5°	41.8	41.2	40.3	40.1	39.8	39.6	39.5
70°	36.9	36.2	35.8	35.6	35.2	35.4	34.8
72.5°	32.3	31.7	31.6	31.1	30.8	30.8	30.4
75°	25.4	25.4	25.2	25.1	24.6	24.5	24.6
77.5°	19.5	19.6	19.3	19.2	19.2	19.2	19.0
80°	15.7	15.8	15.7	15.4	15.2	15.4	15.2
82.5°	12.4	12.1	12.1	12.0	12.0	11.9	11.8
85°	7.1	7.2	7.1	6.9	6.9	6.9	7.1
87.5°	6.5	6.7	6.8	6.9	7.0	7.1	7.0
90°	19.2	20.1	20.8	21.1	21.4	21.9	22.2
92.5°	20.5	21.0	21.4	21.5	21.8	22.0	22.2
95°	34.9	35.7	36.1	35.9	35.7	35.6	35.4
97.5°	45.1	45.9	46.3	46.6	46.8	47.0	47.2
100°	51.3	52.8	53.6	54.0	54.4	54.8	55.1
102.5°	53.9	55.8	57.0	57.5	58.0	58.5	59.1
105°	56.2	58.2	59.6	60.4	61.0	61.8	62.5
107.5°	64.1	62.1	61.4	62.2	62.9	63.6	64.3
110°	89.1	70.9	62.1	62.8	63.5	64.2	65.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	163.1	96.3	63.3	63.9	64.5	65.1	65.7
115°	253.7	169.0	120.1	106.9	93.8	80.6	67.5
117.5°	500.8	480.4	448.5	405.2	362.0	318.7	275.4
120°	609.6	611.8	600.5	575.9	551.2	526.5	501.9
122.5°	645.8	647.1	645.4	640.6	635.8	631.0	626.3
125°	699.0	700.3	701.2	701.8	702.3	702.8	703.4
127.5°	748.8	750.7	751.7	751.8	751.9	752.0	752.1
130°	780.2	782.2	783.2	782.9	782.7	782.6	782.4
132.5°	810.3	812.0	812.8	812.5	812.4	812.2	812.0
135°	853.7	855.5	856.3	855.9	855.5	855.1	854.8
137.5°	893.9	895.7	896.3	895.7	895.0	894.4	893.8
140°	919.8	921.4	921.8	920.9	920.0	919.0	918.2
142.5°	943.7	945.2	945.5	944.6	943.7	942.8	941.8
145°	977.1	978.4	978.6	977.7	976.7	975.9	974.9
147.5°	1006.1	1007.0	1007.1	1006.3	1005.6	1004.8	1004.0
150°	1024.2	1025.4	1025.5	1024.6	1023.6	1022.7	1021.8
152.5°	1040.7	1041.8	1041.8	1040.6	1039.4	1038.2	1037.0
155°	1062.9	1064.0	1063.9	1062.4	1060.9	1059.5	1058.0
157.5°	1081.8	1083.1	1083.0	1081.5	1080.1	1078.7	1077.3
160°	1092.5	1093.6	1093.6	1092.3	1091.0	1089.8	1088.5
162.5°	1102.9	1104.1	1104.0	1102.3	1100.8	1099.2	1097.7
165°	1115.3	1116.6	1116.6	1115.3	1114.0	1112.8	1111.5
167.5°	1125.7	1127.0	1126.8	1125.2	1123.5	1121.9	1120.2
170°	1130.9	1132.2	1132.0	1130.4	1128.8	1127.1	1125.5
172.5°	1134.9	1136.2	1136.0	1134.4	1132.7	1131.1	1129.5
175°	1139.2	1140.5	1140.2	1138.3	1136.5	1134.7	1132.9
177.5°	1139.4	1140.4	1140.3	1138.9	1137.6	1136.3	1135.1
180°	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0

(END OF REPORT)