

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: P332259-930

Luminaire Tested: **S123RDIP-S340D1025U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332259-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIP-S340D1025U930-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1025 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3978.3 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

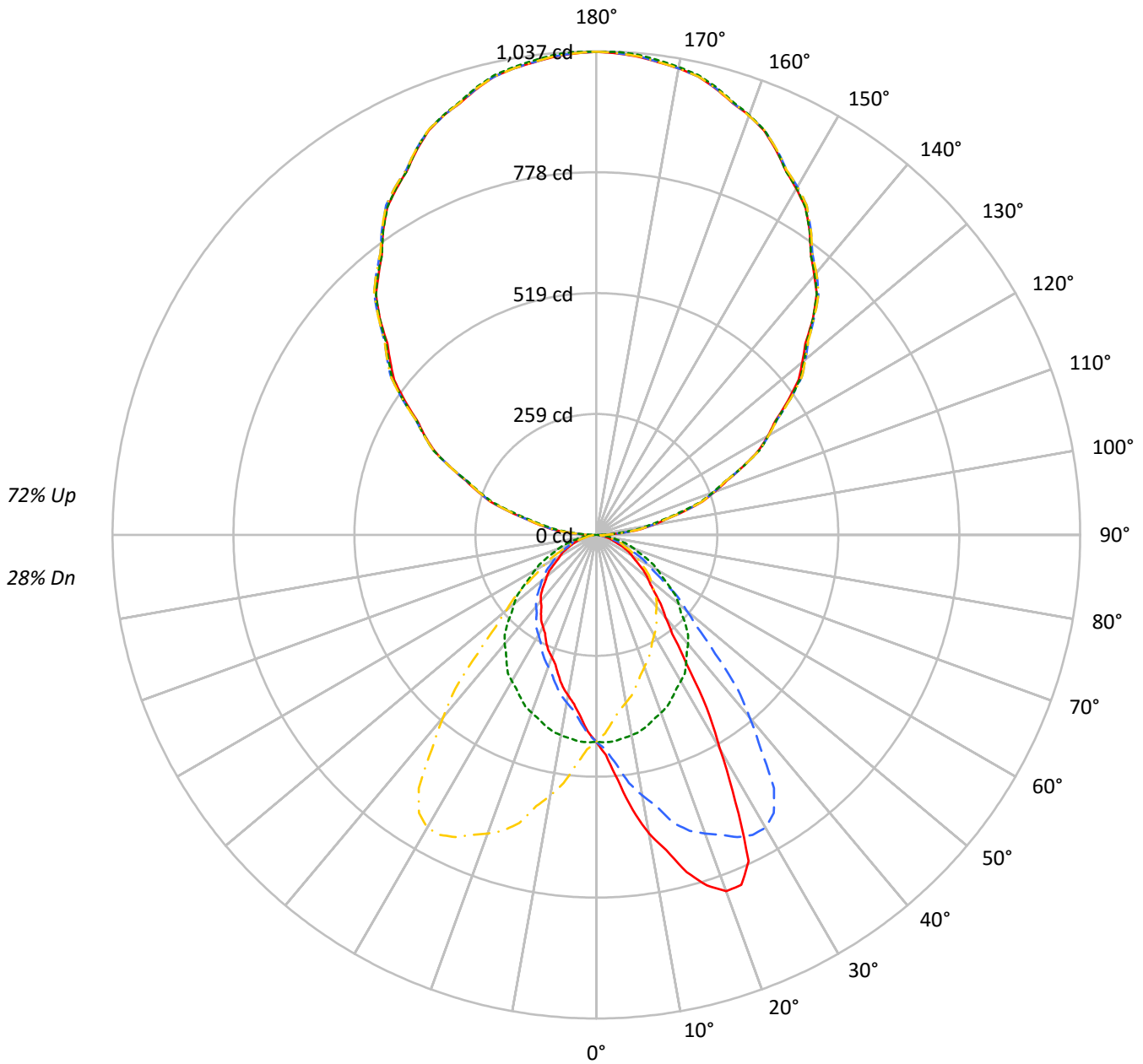
Input Watts (W): 37.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 0°-180° - - - 45°-225° ···· 90°-270° - · - · 135°-315°



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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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	80	77	74	63	61	59	47	45	44	32	31	31	24
2	85	78	72	68	76	70	65	61	55	52	49	41	39	37	29	27	26	21
3	78	69	62	57	69	62	56	51	49	45	42	37	34	32	26	24	23	18
4	71	61	54	48	63	55	49	44	44	39	36	33	30	28	23	21	20	16
5	65	54	47	41	58	49	43	38	39	34	31	30	26	24	21	19	17	14
6	60	49	41	36	54	44	37	33	35	30	27	27	24	21	19	17	15	12
7	56	44	36	31	50	40	33	29	32	27	24	24	21	19	17	15	14	11
8	51	40	32	27	46	36	30	25	29	24	21	22	19	17	16	14	12	10
9	48	36	29	24	43	33	27	22	27	22	19	20	17	15	15	13	11	9
10	45	33	26	22	40	30	24	20	24	20	17	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4776	4776	4776	4776
5°	5693	4796	4224	4796
10°	7109	4769	3816	4769
15°	8344	4719	3480	4719
20°	9313	4647	3194	4647
25°	9164	4570	3018	4570
30°	6586	4501	2838	4501
35°	4398	4407	2720	4407
40°	3240	4297	2599	4297
45°	2719	4102	2481	4102
50°	2398	3848	2316	3848
55°	2104	3558	2089	3558
60°	1873	3279	1914	3279
65°	1645	2980	1780	2980
70°	1290	2716	1627	2716
75°	1135	2371	1485	2371
80°	992	2008	1463	2008
85°	790	1618	1556	1618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	1.1
10°-20°	136.3	3.4
20°-30°	214.2	5.4
30°-40°	223.4	5.6
40°-50°	191.2	4.8
50°-60°	145.7	3.7
60°-70°	93.4	2.3
70°-80°	44.9	1.1
80°-90°	15.0	0.4
90°-100°	67.5	1.7
100°-110°	202.0	5.1
110°-120°	343.6	8.6
120°-130°	451.9	11.4
130°-140°	508.0	12.8
140°-150°	499.3	12.6
150°-160°	420.4	10.6
160°-170°	279.8	7.0
170°-180°	98.0	2.5
0°-30°	394.1	9.9
0°-40°	617.6	15.5
0°-60°	954.5	24.0
0°-90°	1107.8	27.8
90°-120°	613.1	15.4
90°-150°	2072.3	52.1
90°-180°	2870.0	72.1
0°-180°	3978.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	444	444	444	444	444	
5°	527	444	391	444	527	54
15°	749	424	312	424	749	212
25°	772	385	254	385	772	332
35°	335	335	207	335	335	219
45°	179	270	163	270	179	140
55°	112	190	111	190	112	101
65°	65	117	70	117	65	64
75°	27	57	36	57	27	29
85°	6	13	13	13	6	8
90°	24	1	24	1	24	12
95°	64	48	64	48	64	65
105°	194	183	194	183	194	206
115°	347	346	347	346	347	343
125°	500	506	500	506	500	448
135°	656	657	656	657	656	504
145°	797	797	797	797	797	497
155°	911	912	911	912	911	419
165°	990	994	990	994	990	279
175°	1030	1034	1030	1034	1030	98
180°	1036	1036	1036	1036	1036	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	472.6	473.2	471.2	470.9	468.6	468.1	468.1	464.8	462.8	460.3	458.8
5°	526.9	529.9	528.4	525.1	519.3	518.0	514.4	508.7	502.2	494.2	490.5
7.5°	594.8	598.9	597.3	592.1	586.0	581.2	571.0	561.6	548.4	536.7	526.8
10°	650.4	646.0	642.6	637.5	631.9	623.1	612.4	597.8	580.9	567.5	552.8
12.5°	692.0	691.3	687.0	681.7	673.9	665.4	652.3	634.5	614.9	595.7	578.7
15°	748.8	749.9	747.1	741.6	730.5	715.5	695.8	688.4	660.2	639.4	618.5
17.5°	788.1	787.8	787.4	779.8	768.6	757.9	739.6	720.1	694.6	665.2	637.1
20°	813.0	811.1	811.5	802.9	794.6	782.2	764.3	736.1	715.2	681.2	652.1
22.5°	812.4	812.0	813.4	810.5	804.5	795.0	780.9	757.0	730.3	696.0	663.3
25°	771.6	770.1	778.9	781.5	791.2	792.9	788.6	775.6	750.3	714.9	674.5
27.5°	645.7	644.9	661.5	682.2	708.5	729.0	748.7	758.2	750.3	725.0	684.4
30°	529.9	547.8	556.2	586.2	619.6	659.5	694.5	727.7	735.9	724.8	691.6
32.5°	440.0	455.6	462.6	488.3	519.5	566.2	618.6	665.7	699.0	707.4	687.4
35°	334.7	334.8	350.8	362.2	391.1	439.1	490.1	553.1	615.8	663.3	668.2
37.5°	267.1	268.0	277.7	289.0	310.7	336.1	380.9	433.3	505.7	578.6	621.4
40°	230.6	232.3	239.5	250.7	266.3	285.5	320.4	369.8	430.2	511.4	577.6
42.5°	207.2	209.9	213.7	222.3	232.0	250.0	278.2	316.3	371.3	448.0	524.5
45°	178.6	180.1	183.0	186.9	195.7	208.1	227.1	252.8	298.4	360.1	436.7
47.5°	157.5	156.7	159.7	162.9	168.8	177.3	190.0	210.9	243.4	293.0	357.9
50°	143.2	143.0	145.1	147.6	153.1	159.4	169.8	185.6	211.4	252.4	311.9
52.5°	129.9	130.5	132.1	135.1	139.1	144.1	153.5	164.9	187.1	222.5	272.1
55°	112.1	112.7	114.7	116.4	119.3	124.4	130.3	139.8	155.0	179.7	220.5
57.5°	97.0	96.8	98.7	99.2	102.4	106.6	111.1	118.5	129.6	147.9	175.4
60°	87.0	86.4	88.1	89.4	91.2	94.6	98.4	105.6	114.4	127.8	151.4
62.5°	77.9	77.6	78.8	80.2	81.6	84.7	87.9	93.4	100.4	111.7	130.4
65°	64.6	65.1	65.7	66.3	67.0	69.0	72.0	75.8	80.6	88.5	102.0
67.5°	50.8	51.4	51.5	52.7	54.3	55.5	57.4	60.7	64.1	70.8	78.4
70°	41.0	40.8	41.0	41.6	43.7	45.7	48.3	50.7	52.8	57.6	64.0
72.5°	35.2	34.9	35.4	35.5	36.5	37.1	38.6	41.0	43.7	46.9	51.5
75°	27.3	27.3	27.3	27.3	28.1	28.5	29.0	29.6	30.6	32.1	35.5
77.5°	20.2	20.2	20.5	20.7	20.9	21.1	21.4	22.0	22.3	23.2	24.6
80°	16.0	16.1	16.0	16.1	16.1	16.6	16.7	17.3	17.4	18.4	19.0
82.5°	12.0	11.9	12.0	12.2	12.2	12.6	12.6	13.0	13.0	13.5	14.1
85°	6.4	6.1	6.4	6.3	6.7	6.3	6.4	6.8	6.8	7.0	7.8
87.5°	6.4	6.6	6.3	6.4	6.3	6.3	6.2	6.0	6.2	5.9	5.5
90°	24.4	24.1	23.7	23.3	23.0	22.4	21.7	21.0	20.2	19.6	17.2
92.5°	32.9	33.1	33.3	33.5	33.8	33.6	33.0	32.4	31.8	31.2	29.9
95°	63.5	63.5	63.5	63.5	63.5	63.1	62.4	61.6	61.0	60.3	58.8
97.5°	97.7	97.8	97.8	97.9	97.9	97.6	96.8	95.9	95.1	94.2	93.2
100°	123.7	123.4	122.9	122.6	122.3	121.8	121.2	120.7	120.2	119.6	118.7
102.5°	150.4	150.5	150.5	150.6	150.7	150.4	149.9	149.4	148.8	148.3	147.1
105°	193.7	193.3	193.0	192.6	192.2	192.1	192.1	192.1	192.1	192.1	190.5
107.5°	238.8	239.0	239.2	239.5	239.6	239.5	238.9	238.3	237.7	237.2	236.5
110°	269.4	269.8	270.1	270.4	270.8	270.7	269.9	269.2	268.5	267.7	267.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	301.9	302.0	302.1	302.1	302.2	301.8	300.9	300.1	299.2	298.3	298.3
115°	346.7	346.9	347.1	347.2	347.4	347.4	347.2	347.1	346.9	346.7	347.1
117.5°	392.1	392.6	393.1	393.6	394.1	394.4	394.4	394.4	394.5	394.5	395.0
120°	424.0	424.4	424.8	425.1	425.4	425.7	425.9	426.1	426.2	426.5	427.4
122.5°	454.6	455.1	455.6	456.2	456.6	457.1	457.6	458.0	458.5	459.0	459.5
125°	500.5	501.2	502.0	502.7	503.4	504.1	504.8	505.6	506.3	507.0	507.4
127.5°	546.3	547.1	547.9	548.8	549.6	550.5	551.5	552.5	553.5	554.6	555.0
130°	576.2	577.5	578.7	580.0	581.2	582.3	582.9	583.7	584.4	585.1	585.7
132.5°	607.5	608.5	609.4	610.4	611.4	612.3	613.2	614.0	614.9	615.7	616.1
135°	656.0	656.3	656.6	657.0	657.4	657.9	658.7	659.4	660.1	660.8	661.0
137.5°	698.8	699.4	700.1	700.8	701.5	702.2	703.0	703.8	704.5	705.2	704.8
140°	726.8	728.1	729.3	730.6	731.8	732.5	732.7	732.9	733.1	733.3	733.1
142.5°	755.4	756.4	757.3	758.3	759.3	759.9	760.1	760.3	760.4	760.6	760.3
145°	796.7	797.4	798.2	798.9	799.6	800.1	800.3	800.5	800.6	800.8	800.3
147.5°	833.6	834.6	835.7	836.8	837.9	838.5	838.5	838.5	838.5	838.5	837.9
150°	857.0	858.0	859.2	860.2	861.3	861.9	861.9	861.9	861.9	861.9	861.5
152.5°	879.8	880.7	881.7	882.6	883.5	883.9	883.5	883.3	883.0	882.7	882.5
155°	910.7	911.9	913.2	914.5	915.7	916.0	915.3	914.6	913.9	913.1	913.0
157.5°	938.8	939.9	940.9	941.9	942.9	943.1	942.2	941.5	940.8	940.0	939.9
160°	957.1	957.8	958.5	959.3	959.9	959.9	959.0	958.1	957.2	956.3	956.3
162.5°	970.8	971.9	973.1	974.2	975.3	975.5	974.6	973.7	972.8	971.9	971.8
165°	990.4	991.7	993.0	994.3	995.5	995.6	994.5	993.4	992.3	991.2	991.2
167.5°	1007.2	1008.4	1009.4	1010.6	1011.7	1011.7	1010.6	1009.4	1008.4	1007.2	1007.1
170°	1015.7	1016.9	1018.2	1019.5	1020.8	1020.8	1019.5	1018.2	1016.9	1015.7	1015.7
172.5°	1022.1	1023.4	1024.7	1026.0	1027.3	1027.3	1026.2	1025.1	1023.9	1022.8	1022.8
175°	1029.5	1030.8	1032.0	1033.3	1034.5	1034.7	1033.6	1032.5	1031.4	1030.3	1030.3
177.5°	1033.4	1034.5	1035.4	1036.5	1037.5	1037.5	1036.7	1035.8	1034.9	1034.0	1034.0
180°	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	458.1	457.7	455.6	453.1	450.0	447.8	446.1	445.2	442.5	439.1	436.9
5°	486.5	480.8	474.7	467.2	460.4	453.4	449.1	443.9	437.7	430.6	425.7
7.5°	516.7	505.6	493.6	481.1	468.9	457.9	448.1	439.8	429.8	419.7	412.7
10°	540.1	523.7	506.8	489.5	473.8	458.9	447.5	436.3	424.4	412.8	404.0
12.5°	561.2	539.6	520.2	498.9	478.7	461.1	444.7	431.5	417.0	404.7	394.8
15°	587.9	565.8	542.3	510.0	483.2	460.8	440.8	423.5	406.1	390.9	381.2
17.5°	612.9	579.8	548.0	521.1	486.3	458.4	434.0	413.4	394.1	378.1	366.1
20°	623.2	591.1	556.8	522.4	488.2	456.8	428.5	405.7	385.8	367.5	356.5
22.5°	629.4	593.1	556.8	519.9	483.6	451.0	423.1	397.9	376.3	359.1	345.4
25°	636.7	593.4	553.5	517.1	480.0	444.7	411.4	384.8	361.5	343.1	328.6
27.5°	641.5	590.5	543.4	502.9	465.3	430.2	399.7	371.5	347.7	328.2	312.7
30°	642.4	588.2	535.7	491.8	453.6	421.3	389.0	362.1	337.0	316.3	301.8
32.5°	643.6	582.6	525.1	478.6	439.4	407.5	378.2	352.5	326.8	306.4	291.6
35°	638.6	579.5	509.2	455.7	416.5	385.6	359.2	335.4	310.2	290.4	275.4
37.5°	617.0	567.2	492.8	429.9	389.0	360.4	338.8	318.1	295.0	273.6	259.5
40°	595.3	555.1	480.0	414.3	371.5	342.1	322.7	305.8	283.4	263.4	248.3
42.5°	563.0	538.4	467.8	397.9	351.8	323.4	307.0	291.2	271.6	251.3	237.0
45°	503.5	506.8	443.0	371.7	324.4	296.0	280.5	269.5	252.1	235.4	220.7
47.5°	429.1	459.3	413.8	343.9	295.6	268.9	255.4	245.8	234.0	217.6	204.2
50°	380.5	423.5	390.4	325.2	277.5	250.9	237.7	229.8	219.6	206.7	194.0
52.5°	335.7	382.0	362.1	304.4	257.9	233.6	220.6	214.2	206.0	193.9	182.4
55°	273.7	320.7	316.1	273.0	228.5	206.7	196.8	189.6	184.1	175.0	165.8
57.5°	221.4	265.9	268.2	238.0	202.6	181.0	172.5	167.1	163.5	156.6	148.1
60°	188.4	229.3	237.3	214.4	184.1	165.1	156.7	152.3	149.5	144.0	137.5
62.5°	161.1	195.8	204.9	188.5	166.3	148.5	141.9	137.8	135.8	131.1	125.4
65°	123.3	152.1	160.9	151.8	140.1	126.0	120.6	117.0	115.3	112.7	108.4
67.5°	92.7	113.7	123.4	116.9	112.7	103.7	100.4	98.4	96.9	95.1	91.6
70°	74.4	90.0	99.9	98.2	94.8	90.0	87.6	86.3	84.7	83.2	80.1
72.5°	59.8	70.6	79.8	80.7	77.9	77.0	74.8	74.2	73.3	71.5	69.8
75°	39.7	47.1	53.6	56.0	57.2	58.1	57.2	57.0	56.8	55.3	54.3
77.5°	26.0	30.0	34.1	38.3	40.1	41.3	41.7	42.4	41.8	41.1	40.6
80°	20.0	20.9	23.7	27.3	30.2	31.3	32.1	32.4	32.3	32.1	31.3
82.5°	14.5	15.2	16.6	19.2	21.5	23.4	23.9	23.8	24.2	24.4	23.7
85°	7.8	8.0	8.4	8.7	10.0	12.1	12.7	13.1	13.5	13.5	12.3
87.5°	5.4	4.8	4.6	4.2	4.3	4.1	4.6	5.1	5.5	5.3	5.6
90°	14.8	12.5	10.1	8.1	6.3	4.4	2.6	0.8	2.6	4.4	6.3
92.5°	28.5	27.2	25.9	24.6	23.4	22.2	21.0	19.7	21.0	22.2	23.4
95°	57.3	55.8	54.5	53.1	51.9	50.5	49.2	48.0	49.2	50.5	51.9
97.5°	92.1	91.1	90.0	89.0	88.1	87.2	86.3	85.3	86.3	87.2	88.1
100°	117.8	116.9	116.0	115.0	113.9	112.8	111.8	110.7	111.8	112.8	113.9
102.5°	145.9	144.7	143.5	142.6	141.9	141.3	140.6	140.0	140.6	141.3	141.9
105°	188.8	187.2	185.6	184.6	184.2	183.8	183.4	183.1	183.4	183.8	184.2
107.5°	235.9	235.2	234.6	234.2	233.9	233.7	233.5	233.3	233.5	233.7	233.9
110°	267.0	266.7	266.3	266.0	265.5	265.2	264.9	264.5	264.9	265.2	265.5



TEST NUMBER: P332259-930

CATALOG NUMBER: S123RDIP-S340D1025U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	298.2	298.2	298.1	297.9	297.7	297.5	297.3	297.0	297.3	297.5	297.7
115°	347.4	347.8	348.1	348.1	347.5	347.0	346.4	345.8	346.4	347.0	347.5
117.5°	395.5	396.0	396.4	396.5	396.2	395.7	395.4	395.0	395.4	395.7	396.2
120°	428.3	429.2	430.1	430.0	428.9	427.8	426.7	425.7	426.7	427.8	428.9
122.5°	459.9	460.4	460.9	460.7	459.9	459.1	458.4	457.5	458.4	459.1	459.9
125°	507.8	508.1	508.5	508.3	507.8	507.3	506.8	506.2	506.8	507.3	507.8
127.5°	555.4	555.7	556.1	555.8	554.6	553.4	552.3	551.1	552.3	553.4	554.6
130°	586.2	586.8	587.3	586.9	585.4	584.0	582.5	581.1	582.5	584.0	585.4
132.5°	616.5	616.9	617.3	616.9	615.4	613.9	612.5	611.1	612.5	613.9	615.4
135°	661.2	661.4	661.5	661.1	660.0	658.9	657.9	656.8	657.9	658.9	660.0
137.5°	704.3	703.8	703.4	702.7	701.8	700.9	700.0	699.1	700.0	700.9	701.8
140°	732.9	732.7	732.5	732.0	731.1	730.2	729.3	728.4	729.3	730.2	731.1
142.5°	759.9	759.6	759.3	758.7	757.8	756.9	755.9	755.0	755.9	756.9	757.8
145°	799.7	799.2	798.7	798.2	797.9	797.4	797.1	796.7	797.1	797.4	797.9
147.5°	837.4	836.9	836.4	835.8	835.2	834.5	833.9	833.2	833.9	834.5	835.2
150°	861.1	860.8	860.4	860.1	859.7	859.3	859.0	858.6	859.0	859.3	859.7
152.5°	882.2	882.1	881.8	881.4	880.9	880.4	880.0	879.5	880.0	880.4	880.9
155°	912.7	912.6	912.4	912.3	912.3	912.3	912.3	912.3	912.3	912.3	912.3
157.5°	939.7	939.6	939.4	939.5	939.6	939.9	940.1	940.3	940.1	939.9	939.6
160°	956.3	956.3	956.3	956.4	956.8	957.2	957.5	957.9	957.5	957.2	956.8
162.5°	971.6	971.4	971.3	971.5	972.0	972.5	973.0	973.5	973.0	972.5	972.0
165°	991.2	991.2	991.2	991.6	992.1	992.6	993.1	993.7	993.1	992.6	992.1
167.5°	1006.9	1006.8	1006.7	1006.9	1007.6	1008.4	1009.1	1009.8	1009.1	1008.4	1007.6
170°	1015.7	1015.7	1015.7	1016.0	1016.8	1017.5	1018.2	1019.0	1018.2	1017.5	1016.8
172.5°	1022.8	1022.8	1022.8	1023.2	1023.9	1024.7	1025.4	1026.1	1025.4	1024.7	1023.9
175°	1030.3	1030.3	1030.3	1030.7	1031.4	1032.1	1032.8	1033.6	1032.8	1032.1	1031.4
177.5°	1034.0	1034.0	1034.0	1034.4	1034.9	1035.5	1036.1	1036.7	1036.1	1035.5	1034.9
180°	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0



TEST NUMBER: P332259-930

CATALOG NUMBER: S123RDIP-S340D1025U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	436.1	434.1	432.8	429.7	427.8	425.7	423.5	424.9	424.7	424.6	424.6
5°	421.5	417.1	413.1	408.0	404.8	400.8	397.8	397.4	398.1	395.5	394.0
7.5°	407.0	401.0	395.3	389.7	383.7	378.9	375.9	374.5	372.6	371.0	369.2
10°	396.8	389.8	384.3	377.2	370.8	365.1	361.5	359.0	357.7	356.4	353.8
12.5°	386.3	379.4	372.4	364.4	358.3	351.7	349.0	346.3	343.7	342.2	338.8
15°	371.0	362.1	354.7	346.3	339.4	333.0	329.2	323.7	322.9	321.0	317.6
17.5°	355.6	345.9	335.7	329.5	321.8	315.0	309.2	307.4	302.0	299.9	296.9
20°	343.4	334.5	326.7	318.5	307.4	301.1	296.5	294.1	289.7	287.0	285.1
22.5°	333.0	323.8	314.9	305.3	296.1	289.0	285.7	281.8	279.5	275.7	273.7
25°	318.0	308.1	297.3	287.0	280.4	275.1	269.7	266.3	262.9	261.1	257.4
27.5°	300.6	290.2	280.1	272.3	264.2	258.9	254.1	251.1	247.0	244.1	242.0
30°	291.0	278.8	270.1	263.1	252.7	247.7	244.1	240.3	237.3	234.2	232.1
32.5°	279.9	268.8	260.6	251.8	243.9	238.4	233.7	230.4	227.8	224.9	222.8
35°	262.5	253.2	244.7	235.9	230.0	224.5	219.0	216.1	213.7	211.0	209.1
37.5°	246.8	238.1	229.9	221.7	214.3	209.9	205.5	203.3	199.9	198.1	196.2
40°	237.1	228.5	219.8	211.8	204.2	200.8	196.8	193.6	190.5	189.1	187.1
42.5°	226.4	217.8	210.5	201.9	195.7	191.0	187.4	183.8	181.6	179.6	178.5
45°	210.7	203.1	195.8	187.3	181.4	177.4	173.3	170.0	168.0	166.6	164.5
47.5°	195.3	187.8	180.4	173.0	167.3	162.7	158.5	156.3	153.5	151.9	150.5
50°	184.3	177.4	169.7	162.8	157.1	152.5	149.1	146.3	143.8	141.7	140.7
52.5°	174.1	166.8	160.0	153.7	147.7	142.5	139.4	136.4	134.5	132.2	131.0
55°	157.3	150.3	144.6	138.3	132.4	128.0	124.3	121.6	119.7	117.0	115.5
57.5°	141.5	135.2	128.4	122.9	116.9	113.2	110.1	106.5	104.1	102.1	100.5
60°	130.9	123.7	117.7	112.7	107.3	102.6	99.7	96.9	94.4	92.3	91.0
62.5°	119.8	113.5	107.9	102.3	97.4	93.3	90.0	87.6	85.4	84.1	82.8
65°	102.7	97.8	92.1	87.6	83.0	80.0	77.3	75.3	73.7	72.7	71.6
67.5°	87.1	82.3	77.4	72.9	69.8	67.5	65.8	64.0	63.2	62.0	61.2
70°	77.0	72.0	67.6	64.2	61.1	59.4	58.3	57.0	56.3	54.7	54.0
72.5°	65.9	62.3	59.1	56.3	53.9	52.3	50.9	49.2	48.0	46.3	45.6
75°	51.9	48.6	46.1	44.3	42.7	40.7	38.6	36.9	36.3	35.7	35.5
77.5°	38.4	36.4	34.6	32.9	31.1	29.6	29.1	28.7	28.6	28.3	28.3
80°	30.2	28.3	27.0	25.1	24.0	24.0	24.0	23.6	23.7	23.7	23.7
82.5°	22.4	20.7	20.0	19.3	19.1	19.2	19.2	19.3	19.2	19.5	19.3
85°	11.6	11.7	12.1	12.0	12.1	12.1	12.6	12.3	12.6	12.1	12.6
87.5°	5.9	6.8	7.3	8.0	8.6	8.9	9.2	9.4	9.6	9.8	9.9
90°	8.1	10.1	12.5	14.8	17.2	19.6	20.2	21.0	21.7	22.4	23.0
92.5°	24.6	25.9	27.2	28.5	29.9	31.2	31.8	32.4	33.0	33.6	33.8
95°	53.1	54.5	55.8	57.3	58.8	60.3	61.0	61.6	62.4	63.1	63.5
97.5°	89.0	90.0	91.1	92.1	93.2	94.2	95.1	95.9	96.8	97.6	97.9
100°	115.0	116.0	116.9	117.8	118.7	119.6	120.2	120.7	121.2	121.8	122.3
102.5°	142.6	143.5	144.7	145.9	147.1	148.3	148.8	149.4	149.9	150.4	150.7
105°	184.6	185.6	187.2	188.8	190.5	192.1	192.1	192.1	192.1	192.1	192.2
107.5°	234.2	234.6	235.2	235.9	236.5	237.2	237.7	238.3	238.9	239.5	239.6
110°	266.0	266.3	266.7	267.0	267.4	267.7	268.5	269.2	269.9	270.7	270.8



TEST NUMBER: P332259-930

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	297.9	298.1	298.2	298.2	298.3	298.3	299.2	300.1	300.9	301.8	302.2
115°	348.1	348.1	347.8	347.4	347.1	346.7	346.9	347.1	347.2	347.4	347.4
117.5°	396.5	396.4	396.0	395.5	395.0	394.5	394.5	394.4	394.4	394.4	394.1
120°	430.0	430.1	429.2	428.3	427.4	426.5	426.2	426.1	425.9	425.7	425.4
122.5°	460.7	460.9	460.4	459.9	459.5	459.0	458.5	458.0	457.6	457.1	456.6
125°	508.3	508.5	508.1	507.8	507.4	507.0	506.3	505.6	504.8	504.1	503.4
127.5°	555.8	556.1	555.7	555.4	555.0	554.6	553.5	552.5	551.5	550.5	549.6
130°	586.9	587.3	586.8	586.2	585.7	585.1	584.4	583.7	582.9	582.3	581.2
132.5°	616.9	617.3	616.9	616.5	616.1	615.7	614.9	614.0	613.2	612.3	611.4
135°	661.1	661.5	661.4	661.2	661.0	660.8	660.1	659.4	658.7	657.9	657.4
137.5°	702.7	703.4	703.8	704.3	704.8	705.2	704.5	703.8	703.0	702.2	701.5
140°	732.0	732.5	732.7	732.9	733.1	733.3	733.1	732.9	732.7	732.5	731.8
142.5°	758.7	759.3	759.6	759.9	760.3	760.6	760.4	760.3	760.1	759.9	759.3
145°	798.2	798.7	799.2	799.7	800.3	800.8	800.6	800.5	800.3	800.1	799.6
147.5°	835.8	836.4	836.9	837.4	837.9	838.5	838.5	838.5	838.5	838.5	837.9
150°	860.1	860.4	860.8	861.1	861.5	861.9	861.9	861.9	861.9	861.9	861.3
152.5°	881.4	881.8	882.1	882.2	882.5	882.7	883.0	883.3	883.5	883.9	883.5
155°	912.3	912.4	912.6	912.7	913.0	913.1	913.9	914.6	915.3	916.0	915.7
157.5°	939.5	939.4	939.6	939.7	939.9	940.0	940.8	941.5	942.2	943.1	942.9
160°	956.4	956.3	956.3	956.3	956.3	956.3	957.2	958.1	959.0	959.9	959.9
162.5°	971.5	971.3	971.4	971.6	971.8	971.9	972.8	973.7	974.6	975.5	975.3
165°	991.6	991.2	991.2	991.2	991.2	991.2	992.3	993.4	994.5	995.6	995.5
167.5°	1006.9	1006.7	1006.8	1006.9	1007.1	1007.2	1008.4	1009.4	1010.6	1011.7	1011.7
170°	1016.0	1015.7	1015.7	1015.7	1015.7	1015.7	1016.9	1018.2	1019.5	1020.8	1020.8
172.5°	1023.2	1022.8	1022.8	1022.8	1022.8	1022.8	1023.9	1025.1	1026.2	1027.3	1027.3
175°	1030.7	1030.3	1030.3	1030.3	1030.3	1030.3	1031.4	1032.5	1033.6	1034.7	1034.5
177.5°	1034.4	1034.0	1034.0	1034.0	1034.0	1034.0	1034.9	1035.8	1036.7	1037.5	1037.5
180°	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0



TEST NUMBER: P332259-930

CATALOG NUMBER: S123RDIP-S340D1025U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	422.7	422.6	422.7	422.2	422.7	422.6	422.7	424.6	424.6	424.7	424.9
5°	393.4	393.2	392.6	390.9	392.6	393.2	393.4	394.0	395.5	398.1	397.4
7.5°	367.7	367.5	365.8	365.8	365.8	367.5	367.7	369.2	371.0	372.6	374.5
10°	352.5	352.7	350.4	349.1	350.4	352.7	352.5	353.8	356.4	357.7	359.0
12.5°	337.8	337.0	335.1	333.6	335.1	337.0	337.8	338.8	342.2	343.7	346.3
15°	318.4	316.4	311.9	312.3	311.9	316.4	318.4	317.6	321.0	322.9	323.7
17.5°	295.5	294.1	294.0	291.3	294.0	294.1	295.5	296.9	299.9	302.0	307.4
20°	282.1	281.1	281.5	278.8	281.5	281.1	282.1	285.1	287.0	289.7	294.1
22.5°	271.6	270.6	269.0	268.2	269.0	270.6	271.6	273.7	275.7	279.5	281.8
25°	256.2	254.7	253.2	254.1	253.2	254.7	256.2	257.4	261.1	262.9	266.3
27.5°	240.9	239.8	238.2	238.1	238.2	239.8	240.9	242.0	244.1	247.0	251.1
30°	231.1	230.0	229.3	228.3	229.3	230.0	231.1	232.1	234.2	237.3	240.3
32.5°	221.3	221.0	219.7	219.5	219.7	221.0	221.3	222.8	224.9	227.8	230.4
35°	208.4	207.2	206.8	207.0	206.8	207.2	208.4	209.1	211.0	213.7	216.1
37.5°	196.1	194.6	193.9	193.2	193.9	194.6	196.1	196.2	198.1	199.9	203.3
40°	187.3	185.8	185.4	185.0	185.4	185.8	187.3	187.1	189.1	190.5	193.6
42.5°	177.4	176.8	176.6	175.9	176.6	176.8	177.4	178.5	179.6	181.6	183.8
45°	164.0	163.7	162.6	163.0	162.6	163.7	164.0	164.5	166.6	168.0	170.0
47.5°	149.7	148.9	148.1	148.6	148.1	148.9	149.7	150.5	151.9	153.5	156.3
50°	140.0	139.6	137.9	138.3	137.9	139.6	140.0	140.7	141.7	143.8	146.3
52.5°	130.3	128.8	128.2	127.9	128.2	128.8	130.3	131.0	132.2	134.5	136.4
55°	114.1	112.4	111.7	111.3	111.7	112.4	114.1	115.5	117.0	119.7	121.6
57.5°	98.3	97.9	97.3	97.7	97.3	97.9	98.3	100.5	102.1	104.1	106.5
60°	89.1	89.1	89.1	88.9	89.1	89.1	89.1	91.0	92.3	94.4	96.9
62.5°	81.9	81.4	81.4	81.6	81.4	81.4	81.9	82.8	84.1	85.4	87.6
65°	71.0	70.8	70.1	69.9	70.1	70.8	71.0	71.6	72.7	73.7	75.3
67.5°	60.7	60.1	59.8	59.6	59.8	60.1	60.7	61.2	62.0	63.2	64.0
70°	53.0	52.6	51.4	51.7	51.4	52.6	53.0	54.0	54.7	56.3	57.0
72.5°	44.7	44.3	44.0	43.8	44.0	44.3	44.7	45.6	46.3	48.0	49.2
75°	35.3	35.1	35.0	35.7	35.0	35.1	35.3	35.5	35.7	36.3	36.9
77.5°	28.3	28.3	28.5	28.1	28.5	28.3	28.3	28.3	28.3	28.6	28.7
80°	23.7	23.7	23.6	23.6	23.6	23.7	23.7	23.7	23.7	23.7	23.6
82.5°	19.0	19.2	19.3	19.0	19.3	19.2	19.0	19.3	19.5	19.2	19.3
85°	12.6	12.3	12.7	12.6	12.7	12.3	12.6	12.6	12.1	12.6	12.3
87.5°	10.3	10.0	10.1	10.4	10.1	10.0	10.3	9.9	9.8	9.6	9.4
90°	23.3	23.7	24.1	24.4	24.1	23.7	23.3	23.0	22.4	21.7	21.0
92.5°	33.5	33.3	33.1	32.9	33.1	33.3	33.5	33.8	33.6	33.0	32.4
95°	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.1	62.4	61.6
97.5°	97.9	97.8	97.8	97.7	97.8	97.8	97.9	97.9	97.6	96.8	95.9
100°	122.6	122.9	123.4	123.7	123.4	122.9	122.6	122.3	121.8	121.2	120.7
102.5°	150.6	150.5	150.5	150.4	150.5	150.5	150.6	150.7	150.4	149.9	149.4
105°	192.6	193.0	193.3	193.7	193.3	193.0	192.6	192.2	192.1	192.1	192.1
107.5°	239.5	239.2	239.0	238.8	239.0	239.2	239.5	239.6	239.5	238.9	238.3
110°	270.4	270.1	269.8	269.4	269.8	270.1	270.4	270.8	270.7	269.9	269.2



TEST NUMBER: P332259-930

CATALOG NUMBER: S123RDIP-S340D1025U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	302.1	302.1	302.0	301.9	302.0	302.1	302.1	302.2	301.8	300.9	300.1
115°	347.2	347.1	346.9	346.7	346.9	347.1	347.2	347.4	347.4	347.2	347.1
117.5°	393.6	393.1	392.6	392.1	392.6	393.1	393.6	394.1	394.4	394.4	394.4
120°	425.1	424.8	424.4	424.0	424.4	424.8	425.1	425.4	425.7	425.9	426.1
122.5°	456.2	455.6	455.1	454.6	455.1	455.6	456.2	456.6	457.1	457.6	458.0
125°	502.7	502.0	501.2	500.5	501.2	502.0	502.7	503.4	504.1	504.8	505.6
127.5°	548.8	547.9	547.1	546.3	547.1	547.9	548.8	549.6	550.5	551.5	552.5
130°	580.0	578.7	577.5	576.2	577.5	578.7	580.0	581.2	582.3	582.9	583.7
132.5°	610.4	609.4	608.5	607.5	608.5	609.4	610.4	611.4	612.3	613.2	614.0
135°	657.0	656.6	656.3	656.0	656.3	656.6	657.0	657.4	657.9	658.7	659.4
137.5°	700.8	700.1	699.4	698.8	699.4	700.1	700.8	701.5	702.2	703.0	703.8
140°	730.6	729.3	728.1	726.8	728.1	729.3	730.6	731.8	732.5	732.7	732.9
142.5°	758.3	757.3	756.4	755.4	756.4	757.3	758.3	759.3	759.9	760.1	760.3
145°	798.9	798.2	797.4	796.7	797.4	798.2	798.9	799.6	800.1	800.3	800.5
147.5°	836.8	835.7	834.6	833.6	834.6	835.7	836.8	837.9	838.5	838.5	838.5
150°	860.2	859.2	858.0	857.0	858.0	859.2	860.2	861.3	861.9	861.9	861.9
152.5°	882.6	881.7	880.7	879.8	880.7	881.7	882.6	883.5	883.9	883.5	883.3
155°	914.5	913.2	911.9	910.7	911.9	913.2	914.5	915.7	916.0	915.3	914.6
157.5°	941.9	940.9	939.9	938.8	939.9	940.9	941.9	942.9	943.1	942.2	941.5
160°	959.3	958.5	957.8	957.1	957.8	958.5	959.3	959.9	959.9	959.0	958.1
162.5°	974.2	973.1	971.9	970.8	971.9	973.1	974.2	975.3	975.5	974.6	973.7
165°	994.3	993.0	991.7	990.4	991.7	993.0	994.3	995.5	995.6	994.5	993.4
167.5°	1010.6	1009.4	1008.4	1007.2	1008.4	1009.4	1010.6	1011.7	1011.7	1010.6	1009.4
170°	1019.5	1018.2	1016.9	1015.7	1016.9	1018.2	1019.5	1020.8	1020.8	1019.5	1018.2
172.5°	1026.0	1024.7	1023.4	1022.1	1023.4	1024.7	1026.0	1027.3	1027.3	1026.2	1025.1
175°	1033.3	1032.0	1030.8	1029.5	1030.8	1032.0	1033.3	1034.5	1034.7	1033.6	1032.5
177.5°	1036.5	1035.4	1034.5	1033.4	1034.5	1035.4	1036.5	1037.5	1037.5	1036.7	1035.8
180°	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0



TEST NUMBER: P332259-930

CATALOG NUMBER: S123RDIP-S340D1025U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	423.5	425.7	427.8	429.7	432.8	434.1	436.1	436.9	439.1	442.5	445.2
5°	397.8	400.8	404.8	408.0	413.1	417.1	421.5	425.7	430.6	437.7	443.9
7.5°	375.9	378.9	383.7	389.7	395.3	401.0	407.0	412.7	419.7	429.8	439.8
10°	361.5	365.1	370.8	377.2	384.3	389.8	396.8	404.0	412.8	424.4	436.3
12.5°	349.0	351.7	358.3	364.4	372.4	379.4	386.3	394.8	404.7	417.0	431.5
15°	329.2	333.0	339.4	346.3	354.7	362.1	371.0	381.2	390.9	406.1	423.5
17.5°	309.2	315.0	321.8	329.5	335.7	345.9	355.6	366.1	378.1	394.1	413.4
20°	296.5	301.1	307.4	318.5	326.7	334.5	343.4	356.5	367.5	385.8	405.7
22.5°	285.7	289.0	296.1	305.3	314.9	323.8	333.0	345.4	359.1	376.3	397.9
25°	269.7	275.1	280.4	287.0	297.3	308.1	318.0	328.6	343.1	361.5	384.8
27.5°	254.1	258.9	264.2	272.3	280.1	290.2	300.6	312.7	328.2	347.7	371.5
30°	244.1	247.7	252.7	263.1	270.1	278.8	291.0	301.8	316.3	337.0	362.1
32.5°	233.7	238.4	243.9	251.8	260.6	268.8	279.9	291.6	306.4	326.8	352.5
35°	219.0	224.5	230.0	235.9	244.7	253.2	262.5	275.4	290.4	310.2	335.4
37.5°	205.5	209.9	214.3	221.7	229.9	238.1	246.8	259.5	273.6	295.0	318.1
40°	196.8	200.8	204.2	211.8	219.8	228.5	237.1	248.3	263.4	283.4	305.8
42.5°	187.4	191.0	195.7	201.9	210.5	217.8	226.4	237.0	251.3	271.6	291.2
45°	173.3	177.4	181.4	187.3	195.8	203.1	210.7	220.7	235.4	252.1	269.5
47.5°	158.5	162.7	167.3	173.0	180.4	187.8	195.3	204.2	217.6	234.0	245.8
50°	149.1	152.5	157.1	162.8	169.7	177.4	184.3	194.0	206.7	219.6	229.8
52.5°	139.4	142.5	147.7	153.7	160.0	166.8	174.1	182.4	193.9	206.0	214.2
55°	124.3	128.0	132.4	138.3	144.6	150.3	157.3	165.8	175.0	184.1	189.6
57.5°	110.1	113.2	116.9	122.9	128.4	135.2	141.5	148.1	156.6	163.5	167.1
60°	99.7	102.6	107.3	112.7	117.7	123.7	130.9	137.5	144.0	149.5	152.3
62.5°	90.0	93.3	97.4	102.3	107.9	113.5	119.8	125.4	131.1	135.8	137.8
65°	77.3	80.0	83.0	87.6	92.1	97.8	102.7	108.4	112.7	115.3	117.0
67.5°	65.8	67.5	69.8	72.9	77.4	82.3	87.1	91.6	95.1	96.9	98.4
70°	58.3	59.4	61.1	64.2	67.6	72.0	77.0	80.1	83.2	84.7	86.3
72.5°	50.9	52.3	53.9	56.3	59.1	62.3	65.9	69.8	71.5	73.3	74.2
75°	38.6	40.7	42.7	44.3	46.1	48.6	51.9	54.3	55.3	56.8	57.0
77.5°	29.1	29.6	31.1	32.9	34.6	36.4	38.4	40.6	41.1	41.8	42.4
80°	24.0	24.0	24.0	25.1	27.0	28.3	30.2	31.3	32.1	32.3	32.4
82.5°	19.2	19.2	19.1	19.3	20.0	20.7	22.4	23.7	24.4	24.2	23.8
85°	12.6	12.1	12.1	12.0	12.1	11.7	11.6	12.3	13.5	13.5	13.1
87.5°	9.2	8.9	8.6	8.0	7.3	6.8	5.9	5.6	5.3	5.5	5.1
90°	20.2	19.6	17.2	14.8	12.5	10.1	8.1	6.3	4.4	2.6	0.8
92.5°	31.8	31.2	29.9	28.5	27.2	25.9	24.6	23.4	22.2	21.0	19.7
95°	61.0	60.3	58.8	57.3	55.8	54.5	53.1	51.9	50.5	49.2	48.0
97.5°	95.1	94.2	93.2	92.1	91.1	90.0	89.0	88.1	87.2	86.3	85.3
100°	120.2	119.6	118.7	117.8	116.9	116.0	115.0	113.9	112.8	111.8	110.7
102.5°	148.8	148.3	147.1	145.9	144.7	143.5	142.6	141.9	141.3	140.6	140.0
105°	192.1	192.1	190.5	188.8	187.2	185.6	184.6	184.2	183.8	183.4	183.1
107.5°	237.7	237.2	236.5	235.9	235.2	234.6	234.2	233.9	233.7	233.5	233.3
110°	268.5	267.7	267.4	267.0	266.7	266.3	266.0	265.5	265.2	264.9	264.5



TEST NUMBER: P332259-930

CATALOG NUMBER: S123RDIP-S340D1025U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	299.2	298.3	298.3	298.2	298.2	298.1	297.9	297.7	297.5	297.3	297.0
115°	346.9	346.7	347.1	347.4	347.8	348.1	348.1	347.5	347.0	346.4	345.8
117.5°	394.5	394.5	395.0	395.5	396.0	396.4	396.5	396.2	395.7	395.4	395.0
120°	426.2	426.5	427.4	428.3	429.2	430.1	430.0	428.9	427.8	426.7	425.7
122.5°	458.5	459.0	459.5	459.9	460.4	460.9	460.7	459.9	459.1	458.4	457.5
125°	506.3	507.0	507.4	507.8	508.1	508.5	508.3	507.8	507.3	506.8	506.2
127.5°	553.5	554.6	555.0	555.4	555.7	556.1	555.8	554.6	553.4	552.3	551.1
130°	584.4	585.1	585.7	586.2	586.8	587.3	586.9	585.4	584.0	582.5	581.1
132.5°	614.9	615.7	616.1	616.5	616.9	617.3	616.9	615.4	613.9	612.5	611.1
135°	660.1	660.8	661.0	661.2	661.4	661.5	661.1	660.0	658.9	657.9	656.8
137.5°	704.5	705.2	704.8	704.3	703.8	703.4	702.7	701.8	700.9	700.0	699.1
140°	733.1	733.3	733.1	732.9	732.7	732.5	732.0	731.1	730.2	729.3	728.4
142.5°	760.4	760.6	760.3	759.9	759.6	759.3	758.7	757.8	756.9	755.9	755.0
145°	800.6	800.8	800.3	799.7	799.2	798.7	798.2	797.9	797.4	797.1	796.7
147.5°	838.5	838.5	837.9	837.4	836.9	836.4	835.8	835.2	834.5	833.9	833.2
150°	861.9	861.9	861.5	861.1	860.8	860.4	860.1	859.7	859.3	859.0	858.6
152.5°	883.0	882.7	882.5	882.2	882.1	881.8	881.4	880.9	880.4	880.0	879.5
155°	913.9	913.1	913.0	912.7	912.6	912.4	912.3	912.3	912.3	912.3	912.3
157.5°	940.8	940.0	939.9	939.7	939.6	939.4	939.5	939.6	939.9	940.1	940.3
160°	957.2	956.3	956.3	956.3	956.3	956.3	956.4	956.8	957.2	957.5	957.9
162.5°	972.8	971.9	971.8	971.6	971.4	971.3	971.5	972.0	972.5	973.0	973.5
165°	992.3	991.2	991.2	991.2	991.2	991.2	991.6	992.1	992.6	993.1	993.7
167.5°	1008.4	1007.2	1007.1	1006.9	1006.8	1006.7	1006.9	1007.6	1008.4	1009.1	1009.8
170°	1016.9	1015.7	1015.7	1015.7	1015.7	1015.7	1016.0	1016.8	1017.5	1018.2	1019.0
172.5°	1023.9	1022.8	1022.8	1022.8	1022.8	1022.8	1023.2	1023.9	1024.7	1025.4	1026.1
175°	1031.4	1030.3	1030.3	1030.3	1030.3	1030.3	1030.7	1031.4	1032.1	1032.8	1033.6
177.5°	1034.9	1034.0	1034.0	1034.0	1034.0	1034.0	1034.4	1034.9	1035.5	1036.1	1036.7
180°	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0



TEST NUMBER: P332259-930

CATALOG NUMBER: S123RDIP-S340D1025U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	446.1	447.8	450.0	453.1	455.6	457.7	458.1	458.8	460.3	462.8	464.8
5°	449.1	453.4	460.4	467.2	474.7	480.8	486.5	490.5	494.2	502.2	508.7
7.5°	448.1	457.9	468.9	481.1	493.6	505.6	516.7	526.8	536.7	548.4	561.6
10°	447.5	458.9	473.8	489.5	506.8	523.7	540.1	552.8	567.5	580.9	597.8
12.5°	444.7	461.1	478.7	498.9	520.2	539.6	561.2	578.7	595.7	614.9	634.5
15°	440.8	460.8	483.2	510.0	542.3	565.8	587.9	618.5	639.4	660.2	688.4
17.5°	434.0	458.4	486.3	521.1	548.0	579.8	612.9	637.1	665.2	694.6	720.1
20°	428.5	456.8	488.2	522.4	556.8	591.1	623.2	652.1	681.2	715.2	736.1
22.5°	423.1	451.0	483.6	519.9	556.8	593.1	629.4	663.3	696.0	730.3	757.0
25°	411.4	444.7	480.0	517.1	553.5	593.4	636.7	674.5	714.9	750.3	775.6
27.5°	399.7	430.2	465.3	502.9	543.4	590.5	641.5	684.4	725.0	750.3	758.2
30°	389.0	421.3	453.6	491.8	535.7	588.2	642.4	691.6	724.8	735.9	727.7
32.5°	378.2	407.5	439.4	478.6	525.1	582.6	643.6	687.4	707.4	699.0	665.7
35°	359.2	385.6	416.5	455.7	509.2	579.5	638.6	668.2	663.3	615.8	553.1
37.5°	338.8	360.4	389.0	429.9	492.8	567.2	617.0	621.4	578.6	505.7	433.3
40°	322.7	342.1	371.5	414.3	480.0	555.1	595.3	577.6	511.4	430.2	369.8
42.5°	307.0	323.4	351.8	397.9	467.8	538.4	563.0	524.5	448.0	371.3	316.3
45°	280.5	296.0	324.4	371.7	443.0	506.8	503.5	436.7	360.1	298.4	252.8
47.5°	255.4	268.9	295.6	343.9	413.8	459.3	429.1	357.9	293.0	243.4	210.9
50°	237.7	250.9	277.5	325.2	390.4	423.5	380.5	311.9	252.4	211.4	185.6
52.5°	220.6	233.6	257.9	304.4	362.1	382.0	335.7	272.1	222.5	187.1	164.9
55°	196.8	206.7	228.5	273.0	316.1	320.7	273.7	220.5	179.7	155.0	139.8
57.5°	172.5	181.0	202.6	238.0	268.2	265.9	221.4	175.4	147.9	129.6	118.5
60°	156.7	165.1	184.1	214.4	237.3	229.3	188.4	151.4	127.8	114.4	105.6
62.5°	141.9	148.5	166.3	188.5	204.9	195.8	161.1	130.4	111.7	100.4	93.4
65°	120.6	126.0	140.1	151.8	160.9	152.1	123.3	102.0	88.5	80.6	75.8
67.5°	100.4	103.7	112.7	116.9	123.4	113.7	92.7	78.4	70.8	64.1	60.7
70°	87.6	90.0	94.8	98.2	99.9	90.0	74.4	64.0	57.6	52.8	50.7
72.5°	74.8	77.0	77.9	80.7	79.8	70.6	59.8	51.5	46.9	43.7	41.0
75°	57.2	58.1	57.2	56.0	53.6	47.1	39.7	35.5	32.1	30.6	29.6
77.5°	41.7	41.3	40.1	38.3	34.1	30.0	26.0	24.6	23.2	22.3	22.0
80°	32.1	31.3	30.2	27.3	23.7	20.9	20.0	19.0	18.4	17.4	17.3
82.5°	23.9	23.4	21.5	19.2	16.6	15.2	14.5	14.1	13.5	13.0	13.0
85°	12.7	12.1	10.0	8.7	8.4	8.0	7.8	7.8	7.0	6.8	6.8
87.5°	4.6	4.1	4.3	4.2	4.6	4.8	5.4	5.5	5.9	6.2	6.0
90°	2.6	4.4	6.3	8.1	10.1	12.5	14.8	17.2	19.6	20.2	21.0
92.5°	21.0	22.2	23.4	24.6	25.9	27.2	28.5	29.9	31.2	31.8	32.4
95°	49.2	50.5	51.9	53.1	54.5	55.8	57.3	58.8	60.3	61.0	61.6
97.5°	86.3	87.2	88.1	89.0	90.0	91.1	92.1	93.2	94.2	95.1	95.9
100°	111.8	112.8	113.9	115.0	116.0	116.9	117.8	118.7	119.6	120.2	120.7
102.5°	140.6	141.3	141.9	142.6	143.5	144.7	145.9	147.1	148.3	148.8	149.4
105°	183.4	183.8	184.2	184.6	185.6	187.2	188.8	190.5	192.1	192.1	192.1
107.5°	233.5	233.7	233.9	234.2	234.6	235.2	235.9	236.5	237.2	237.7	238.3
110°	264.9	265.2	265.5	266.0	266.3	266.7	267.0	267.4	267.7	268.5	269.2



TEST NUMBER: P332259-930

CATALOG NUMBER: S123RDIP-S340D1025U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	297.3	297.5	297.7	297.9	298.1	298.2	298.2	298.3	298.3	299.2	300.1
115°	346.4	347.0	347.5	348.1	348.1	347.8	347.4	347.1	346.7	346.9	347.1
117.5°	395.4	395.7	396.2	396.5	396.4	396.0	395.5	395.0	394.5	394.5	394.4
120°	426.7	427.8	428.9	430.0	430.1	429.2	428.3	427.4	426.5	426.2	426.1
122.5°	458.4	459.1	459.9	460.7	460.9	460.4	459.9	459.5	459.0	458.5	458.0
125°	506.8	507.3	507.8	508.3	508.5	508.1	507.8	507.4	507.0	506.3	505.6
127.5°	552.3	553.4	554.6	555.8	556.1	555.7	555.4	555.0	554.6	553.5	552.5
130°	582.5	584.0	585.4	586.9	587.3	586.8	586.2	585.7	585.1	584.4	583.7
132.5°	612.5	613.9	615.4	616.9	617.3	616.9	616.5	616.1	615.7	614.9	614.0
135°	657.9	658.9	660.0	661.1	661.5	661.4	661.2	661.0	660.8	660.1	659.4
137.5°	700.0	700.9	701.8	702.7	703.4	703.8	704.3	704.8	705.2	704.5	703.8
140°	729.3	730.2	731.1	732.0	732.5	732.7	732.9	733.1	733.3	733.1	732.9
142.5°	755.9	756.9	757.8	758.7	759.3	759.6	759.9	760.3	760.6	760.4	760.3
145°	797.1	797.4	797.9	798.2	798.7	799.2	799.7	800.3	800.8	800.6	800.5
147.5°	833.9	834.5	835.2	835.8	836.4	836.9	837.4	837.9	838.5	838.5	838.5
150°	859.0	859.3	859.7	860.1	860.4	860.8	861.1	861.5	861.9	861.9	861.9
152.5°	880.0	880.4	880.9	881.4	881.8	882.1	882.2	882.5	882.7	883.0	883.3
155°	912.3	912.3	912.3	912.3	912.4	912.6	912.7	913.0	913.1	913.9	914.6
157.5°	940.1	939.9	939.6	939.5	939.4	939.6	939.7	939.9	940.0	940.8	941.5
160°	957.5	957.2	956.8	956.4	956.3	956.3	956.3	956.3	956.3	957.2	958.1
162.5°	973.0	972.5	972.0	971.5	971.3	971.4	971.6	971.8	971.9	972.8	973.7
165°	993.1	992.6	992.1	991.6	991.2	991.2	991.2	991.2	991.2	992.3	993.4
167.5°	1009.1	1008.4	1007.6	1006.9	1006.7	1006.8	1006.9	1007.1	1007.2	1008.4	1009.4
170°	1018.2	1017.5	1016.8	1016.0	1015.7	1015.7	1015.7	1015.7	1015.7	1016.9	1018.2
172.5°	1025.4	1024.7	1023.9	1023.2	1022.8	1022.8	1022.8	1022.8	1022.8	1023.9	1025.1
175°	1032.8	1032.1	1031.4	1030.7	1030.3	1030.3	1030.3	1030.3	1030.3	1031.4	1032.5
177.5°	1036.1	1035.5	1034.9	1034.4	1034.0	1034.0	1034.0	1034.0	1034.0	1034.9	1035.8
180°	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	468.1	468.1	468.6	470.9	471.2	473.2	472.6
5°	514.4	518.0	519.3	525.1	528.4	529.9	526.9
7.5°	571.0	581.2	586.0	592.1	597.3	598.9	594.8
10°	612.4	623.1	631.9	637.5	642.6	646.0	650.4
12.5°	652.3	665.4	673.9	681.7	687.0	691.3	692.0
15°	695.8	715.5	730.5	741.6	747.1	749.9	748.8
17.5°	739.6	757.9	768.6	779.8	787.4	787.8	788.1
20°	764.3	782.2	794.6	802.9	811.5	811.1	813.0
22.5°	780.9	795.0	804.5	810.5	813.4	812.0	812.4
25°	788.6	792.9	791.2	781.5	778.9	770.1	771.6
27.5°	748.7	729.0	708.5	682.2	661.5	644.9	645.7
30°	694.5	659.5	619.6	586.2	556.2	547.8	529.9
32.5°	618.6	566.2	519.5	488.3	462.6	455.6	440.0
35°	490.1	439.1	391.1	362.2	350.8	334.8	334.7
37.5°	380.9	336.1	310.7	289.0	277.7	268.0	267.1
40°	320.4	285.5	266.3	250.7	239.5	232.3	230.6
42.5°	278.2	250.0	232.0	222.3	213.7	209.9	207.2
45°	227.1	208.1	195.7	186.9	183.0	180.1	178.6
47.5°	190.0	177.3	168.8	162.9	159.7	156.7	157.5
50°	169.8	159.4	153.1	147.6	145.1	143.0	143.2
52.5°	153.5	144.1	139.1	135.1	132.1	130.5	129.9
55°	130.3	124.4	119.3	116.4	114.7	112.7	112.1
57.5°	111.1	106.6	102.4	99.2	98.7	96.8	97.0
60°	98.4	94.6	91.2	89.4	88.1	86.4	87.0
62.5°	87.9	84.7	81.6	80.2	78.8	77.6	77.9
65°	72.0	69.0	67.0	66.3	65.7	65.1	64.6
67.5°	57.4	55.5	54.3	52.7	51.5	51.4	50.8
70°	48.3	45.7	43.7	41.6	41.0	40.8	41.0
72.5°	38.6	37.1	36.5	35.5	35.4	34.9	35.2
75°	29.0	28.5	28.1	27.3	27.3	27.3	27.3
77.5°	21.4	21.1	20.9	20.7	20.5	20.2	20.2
80°	16.7	16.6	16.1	16.1	16.0	16.1	16.0
82.5°	12.6	12.6	12.2	12.2	12.0	11.9	12.0
85°	6.4	6.3	6.7	6.3	6.4	6.1	6.4
87.5°	6.2	6.3	6.3	6.4	6.3	6.6	6.4
90°	21.7	22.4	23.0	23.3	23.7	24.1	24.4
92.5°	33.0	33.6	33.8	33.5	33.3	33.1	32.9
95°	62.4	63.1	63.5	63.5	63.5	63.5	63.5
97.5°	96.8	97.6	97.9	97.9	97.8	97.8	97.7
100°	121.2	121.8	122.3	122.6	122.9	123.4	123.7
102.5°	149.9	150.4	150.7	150.6	150.5	150.5	150.4
105°	192.1	192.1	192.2	192.6	193.0	193.3	193.7
107.5°	238.9	239.5	239.6	239.5	239.2	239.0	238.8
110°	269.9	270.7	270.8	270.4	270.1	269.8	269.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	300.9	301.8	302.2	302.1	302.1	302.0	301.9
115°	347.2	347.4	347.4	347.2	347.1	346.9	346.7
117.5°	394.4	394.4	394.1	393.6	393.1	392.6	392.1
120°	425.9	425.7	425.4	425.1	424.8	424.4	424.0
122.5°	457.6	457.1	456.6	456.2	455.6	455.1	454.6
125°	504.8	504.1	503.4	502.7	502.0	501.2	500.5
127.5°	551.5	550.5	549.6	548.8	547.9	547.1	546.3
130°	582.9	582.3	581.2	580.0	578.7	577.5	576.2
132.5°	613.2	612.3	611.4	610.4	609.4	608.5	607.5
135°	658.7	657.9	657.4	657.0	656.6	656.3	656.0
137.5°	703.0	702.2	701.5	700.8	700.1	699.4	698.8
140°	732.7	732.5	731.8	730.6	729.3	728.1	726.8
142.5°	760.1	759.9	759.3	758.3	757.3	756.4	755.4
145°	800.3	800.1	799.6	798.9	798.2	797.4	796.7
147.5°	838.5	838.5	837.9	836.8	835.7	834.6	833.6
150°	861.9	861.9	861.3	860.2	859.2	858.0	857.0
152.5°	883.5	883.9	883.5	882.6	881.7	880.7	879.8
155°	915.3	916.0	915.7	914.5	913.2	911.9	910.7
157.5°	942.2	943.1	942.9	941.9	940.9	939.9	938.8
160°	959.0	959.9	959.9	959.3	958.5	957.8	957.1
162.5°	974.6	975.5	975.3	974.2	973.1	971.9	970.8
165°	994.5	995.6	995.5	994.3	993.0	991.7	990.4
167.5°	1010.6	1011.7	1011.7	1010.6	1009.4	1008.4	1007.2
170°	1019.5	1020.8	1020.8	1019.5	1018.2	1016.9	1015.7
172.5°	1026.2	1027.3	1027.3	1026.0	1024.7	1023.4	1022.1
175°	1033.6	1034.7	1034.5	1033.3	1032.0	1030.8	1029.5
177.5°	1036.7	1037.5	1037.5	1036.5	1035.4	1034.5	1033.4
180°	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0

(END OF REPORT)