

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: P332266-930

Luminaire Tested: **S123RDIP-S340D1195U930-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332266-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIP-S340D1195U930-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1195 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4629.0 lumens
Efficiency: N/A
Efficacy: 109.7 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

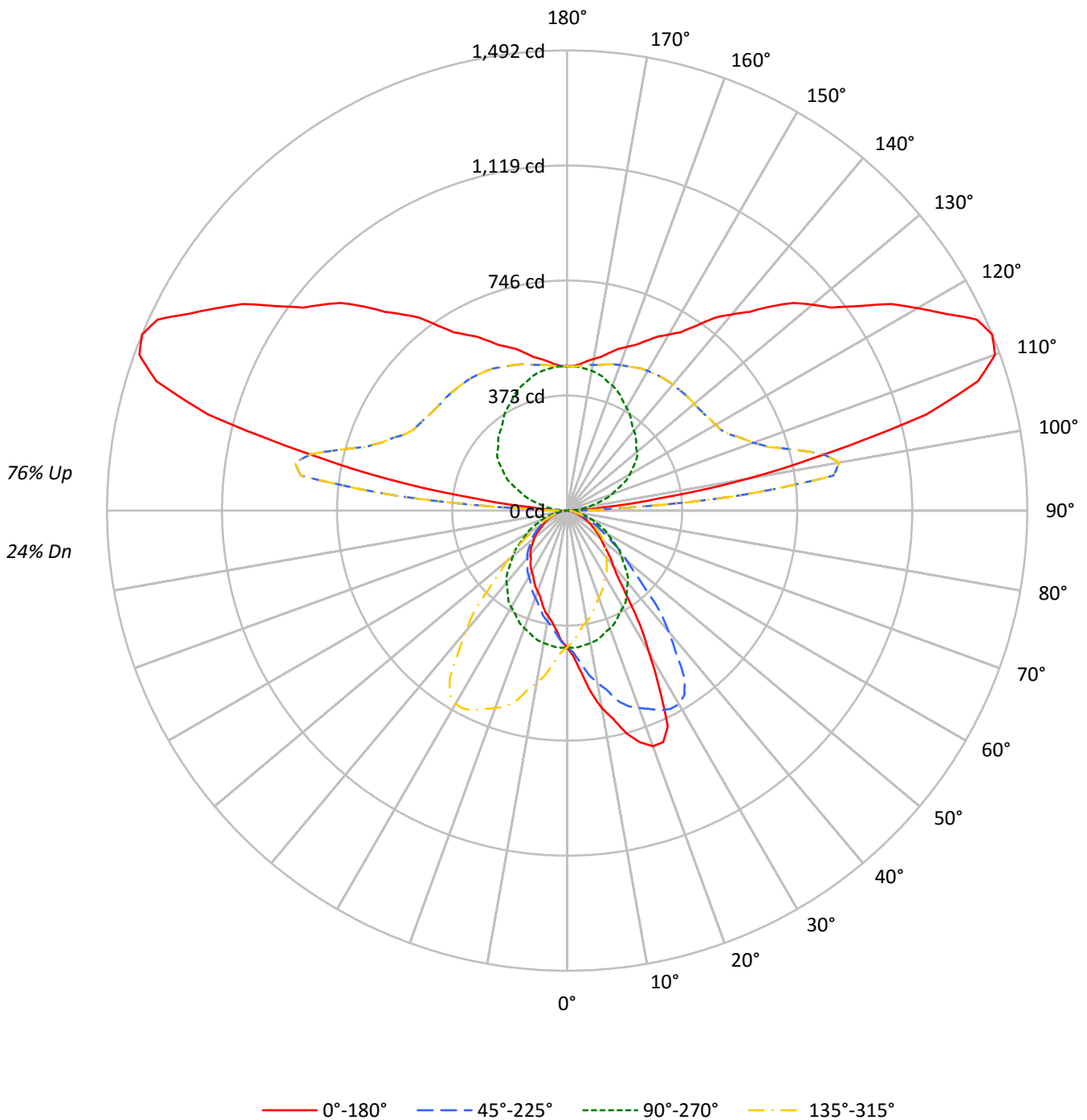
Input Watts (W): 42.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	101	101	101	101	90	90	90	90	69	69	69	50	50	50	32	32	32	24
1	92	88	85	81	82	79	76	73	61	59	57	44	43	42	29	28	28	21
2	84	77	72	67	75	69	64	60	53	50	47	39	37	35	26	25	24	18
3	77	68	61	56	68	61	55	50	47	43	40	35	32	30	23	22	20	15
4	70	60	53	47	62	54	48	43	42	38	34	31	28	26	21	19	18	13
5	65	54	46	40	57	48	42	37	38	33	30	28	25	23	19	17	16	12
6	59	48	40	35	53	43	37	32	34	29	26	25	22	20	17	15	14	11
7	55	43	36	31	49	39	32	28	31	26	23	23	20	17	16	14	12	9
8	51	39	32	27	45	35	29	25	28	23	20	21	18	16	14	12	11	8
9	47	36	29	24	42	32	26	22	25	21	18	19	16	14	13	11	10	8
10	44	33	26	21	39	29	23	19	23	19	16	18	15	13	12	10	9	7

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	0.9
10°-20°	136.3	2.9
20°-30°	214.2	4.6
30°-40°	223.4	4.8
40°-50°	191.2	4.1
50°-60°	145.7	3.1
60°-70°	93.4	2.0
70°-80°	44.9	1.0
80°-90°	15.5	0.3
90°-100°	260.4	5.6
100°-110°	737.4	15.9
110°-120°	725.4	15.7
120°-130°	578.6	12.5
130°-140°	456.2	9.9
140°-150°	340.5	7.4
150°-160°	237.3	5.1
160°-170°	139.4	3.0
170°-180°	45.4	1.0
0°-30°	394.1	8.5
0°-40°	617.6	13.3
0°-60°	954.5	20.6
0°-90°	1108.4	23.9
90°-120°	1723.2	37.2
90°-150°	3098.5	66.9
90°-180°	3521.0	76.1
0°-180°	4629.0	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°	28	2	28	2	28	15
95°	110	32	110	32	110	198
105°	1205	110	1205	110	1205	1189
115°	1465	194	1465	194	1465	1424
125°	1156	270	1156	270	1156	1047
135°	937	316	937	316	937	727
145°	732	361	732	361	732	466
155°	607	410	607	410	607	283
165°	530	448	530	448	530	151
175°	476	467	476	467	476	46
180°	468	468	468	468	468	



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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°	7.0	7.5	7.0	7.0	7.2	6.9	6.8	6.5	6.7	6.7	6.3
90°	27.5	28.5	27.5	26.5	27.5	25.6	24.6	23.6	22.7	23.6	20.9
92.5°	45.7	47.4	46.4	49.2	51.0	55.8	63.3	79.7	109.9	145.7	160.3
95°	109.9	113.7	120.3	128.8	146.8	180.9	231.1	341.0	455.6	561.7	500.2
97.5°	299.1	307.3	332.9	375.5	445.4	558.7	680.9	850.0	931.3	870.5	637.3
100°	593.9	593.0	629.9	699.0	794.8	929.3	1040.1	1116.8	1083.7	897.1	606.3
102.5°	871.3	893.1	924.0	978.7	1053.1	1138.4	1203.0	1205.5	1091.2	847.8	560.8
105°	1204.9	1209.7	1240.0	1275.9	1319.6	1344.2	1326.2	1231.4	1033.5	761.6	504.9
107.5°	1397.0	1405.7	1415.9	1428.1	1427.3	1393.6	1310.6	1156.7	932.3	685.4	469.3
110°	1475.9	1477.7	1479.6	1472.0	1445.5	1379.2	1259.9	1085.6	868.6	642.2	455.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1491.8	1491.3	1484.2	1460.7	1412.2	1326.9	1193.2	1015.0	813.3	613.4	448.1
115°	1465.4	1460.7	1441.7	1400.0	1329.0	1225.7	1086.5	921.7	746.4	582.5	445.2
117.5°	1381.7	1375.2	1347.9	1300.2	1226.1	1121.4	996.3	854.0	706.0	564.4	446.9
120°	1312.0	1306.3	1283.5	1230.4	1155.7	1060.0	946.3	818.4	684.9	556.0	450.0
122.5°	1246.8	1239.6	1214.6	1166.9	1100.3	1011.5	906.1	790.4	667.4	550.7	455.3
125°	1155.7	1149.0	1125.4	1083.7	1023.0	947.2	856.3	753.1	645.1	543.7	463.2
127.5°	1080.6	1074.6	1053.1	1017.6	963.5	894.5	812.5	720.5	625.4	540.3	472.3
130°	1038.2	1030.6	1010.7	976.6	926.4	862.0	785.3	700.0	614.7	538.0	478.3
132.5°	996.5	991.2	973.5	939.5	892.3	831.0	759.5	681.1	605.0	537.3	482.9
135°	936.9	930.2	913.1	884.8	838.3	784.3	722.8	655.5	592.1	536.1	489.8
137.5°	873.8	869.4	855.0	826.2	787.2	740.4	687.3	632.2	580.8	534.0	494.3
140°	829.8	830.7	815.6	789.0	753.1	712.3	666.8	618.6	574.1	533.3	497.3
142.5°	788.9	789.8	776.2	752.7	722.0	686.6	647.2	605.7	567.9	531.8	499.6
145°	732.2	730.3	722.8	702.9	679.1	651.8	621.4	590.1	559.9	529.5	501.1
147.5°	685.6	684.9	677.7	664.2	646.2	626.7	602.3	577.5	551.9	525.9	501.1
150°	658.4	658.4	652.6	642.2	628.0	610.0	590.1	568.3	546.6	522.9	501.1
152.5°	635.6	635.6	632.2	622.6	611.4	596.4	578.8	560.0	540.5	519.1	498.8
155°	607.2	606.3	604.4	596.8	588.2	576.9	562.6	547.5	531.4	512.5	496.4
157.5°	581.2	581.4	579.9	574.2	566.8	557.9	547.0	534.3	521.1	506.6	493.2
160°	564.6	565.5	565.5	559.9	553.2	546.6	537.1	526.7	514.4	502.1	491.6
162.5°	549.4	550.3	550.3	545.4	541.0	535.2	526.5	517.6	507.5	497.5	488.6
165°	529.5	529.5	530.4	526.7	522.9	518.1	511.5	505.8	498.2	490.6	484.0
167.5°	510.5	510.5	511.5	508.8	507.2	503.8	499.9	495.6	489.3	483.9	479.5
170°	499.2	499.2	500.2	498.2	497.3	495.4	491.6	488.8	484.0	479.3	476.5
172.5°	488.6	489.3	491.1	489.2	488.9	487.9	484.8	482.7	478.7	475.5	474.2
175°	476.5	477.4	478.3	477.4	477.4	477.4	475.5	474.6	472.7	470.8	470.8
177.5°	469.4	469.4	471.0	470.2	471.0	471.0	470.2	469.4	468.7	468.0	468.7
180°	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0



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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°	6.0	5.3	5.1	4.6	4.7	4.3	4.9	5.2	5.8	5.5	6.1
90°	18.0	15.2	12.3	10.4	8.6	5.7	3.8	1.9	3.8	5.7	8.6
92.5°	120.3	79.6	54.8	40.8	32.8	25.4	17.4	11.7	17.4	25.4	32.8
95°	344.8	203.7	123.1	86.2	61.6	45.5	35.1	32.2	35.1	45.5	61.6
97.5°	378.3	219.2	142.3	102.3	78.0	64.0	55.8	55.0	55.8	64.0	78.0
100°	357.1	217.0	150.6	113.7	90.9	77.7	71.0	70.1	71.0	77.7	90.9
102.5°	338.9	220.0	160.5	126.5	106.1	93.6	87.7	86.0	87.7	93.6	106.1
105°	325.9	228.3	177.2	147.7	129.8	118.4	112.8	109.9	112.8	118.4	129.8
107.5°	324.9	243.9	198.9	171.6	154.7	143.6	138.1	135.3	138.1	143.6	154.7
110°	328.7	256.7	214.1	187.5	171.5	161.0	156.3	153.4	156.3	161.0	171.5



TEST NUMBER: P332266-930

CATALOG NUMBER: S123RDIP-S340D1195U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	336.3	269.6	230.0	204.2	188.1	177.7	173.0	170.2	173.0	177.7	188.1
115°	348.6	290.8	254.8	229.3	213.1	203.7	198.0	194.2	198.0	203.7	213.1
117.5°	364.8	313.3	277.8	254.0	236.0	227.3	222.6	218.3	222.6	227.3	236.0
120°	377.0	327.8	293.7	269.9	252.0	242.5	237.7	234.9	237.7	242.5	252.0
122.5°	388.4	342.9	309.6	284.4	267.1	256.9	252.2	249.3	252.2	256.9	267.1
125°	406.3	364.7	331.5	306.0	288.0	277.5	271.9	269.9	271.9	277.5	288.0
127.5°	421.2	383.6	351.6	326.0	306.1	295.5	288.5	285.7	288.5	295.5	306.1
130°	431.0	395.0	363.7	338.2	318.3	306.9	298.4	295.5	298.4	306.9	318.3
132.5°	440.1	404.9	374.4	349.5	329.6	316.0	306.7	303.1	306.7	316.0	329.6
135°	451.8	419.6	390.3	364.7	344.8	330.6	320.2	316.4	320.2	330.6	344.8
137.5°	460.6	429.8	401.6	378.0	358.2	343.1	332.9	328.9	332.9	343.1	358.2
140°	465.1	436.7	409.2	385.6	366.6	351.4	341.9	337.2	341.9	351.4	366.6
142.5°	469.6	442.0	415.3	393.1	374.1	360.5	350.3	346.3	350.3	360.5	374.1
145°	474.6	449.0	424.4	402.6	386.5	372.3	363.7	360.9	363.7	372.3	386.5
147.5°	477.6	454.7	432.1	413.6	398.0	385.7	377.4	375.7	377.4	385.7	398.0
150°	478.3	458.4	436.7	419.6	406.3	394.0	386.5	385.6	386.5	394.0	406.3
152.5°	479.9	460.7	442.0	425.7	413.9	403.2	395.6	395.4	395.6	403.2	413.9
155°	480.3	465.1	449.0	435.7	425.3	415.9	410.2	410.2	410.2	415.9	425.3
157.5°	481.2	467.6	454.7	444.4	435.5	427.2	422.7	421.9	422.7	427.2	435.5
160°	481.2	469.9	458.4	449.0	442.4	434.8	431.0	431.0	431.0	434.8	442.4
162.5°	480.5	470.6	460.7	452.8	446.9	440.8	437.8	437.8	437.8	440.8	446.9
165°	478.3	471.7	464.1	457.5	453.7	449.0	447.1	448.1	447.1	449.0	453.7
167.5°	476.9	471.6	466.0	461.9	459.3	455.6	454.7	455.8	454.7	455.6	459.3
170°	474.6	470.8	466.0	464.1	462.3	459.4	458.4	460.4	458.4	459.4	462.3
172.5°	473.9	470.8	466.8	465.7	464.6	462.4	462.3	463.4	462.3	462.4	464.6
175°	471.7	469.9	468.0	467.0	467.0	465.1	466.0	467.0	466.0	465.1	467.0
177.5°	470.2	468.7	468.0	468.0	468.0	467.2	468.0	468.7	468.0	467.2	468.0
180°	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0



TEST NUMBER: P332266-930

CATALOG NUMBER: S123RDIP-S340D1195U930-4F0-1E-UDD-A4

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°	6.4	7.2	7.9	8.6	9.3	9.8	9.7	9.9	10.3	10.4	10.8
90°	10.4	12.3	15.2	18.0	20.9	23.6	22.7	23.6	24.6	25.6	27.5
92.5°	40.8	54.8	79.6	120.3	160.3	145.7	109.9	79.7	63.3	55.8	51.0
95°	86.2	123.1	203.7	344.8	500.2	561.7	455.6	341.0	231.1	180.9	146.8
97.5°	102.3	142.3	219.2	378.3	637.3	870.5	931.3	850.0	680.9	558.7	445.4
100°	113.7	150.6	217.0	357.1	606.3	897.1	1083.7	1116.8	1040.1	929.3	794.8
102.5°	126.5	160.5	220.0	338.9	560.8	847.8	1091.2	1205.5	1203.0	1138.4	1053.1
105°	147.7	177.2	228.3	325.9	504.9	761.6	1033.5	1231.4	1326.2	1344.2	1319.6
107.5°	171.6	198.9	243.9	324.9	469.3	685.4	932.3	1156.7	1310.6	1393.6	1427.3
110°	187.5	214.1	256.7	328.7	455.6	642.2	868.6	1085.6	1259.9	1379.2	1445.5



TEST NUMBER: P332266-930

CATALOG NUMBER: S123RDIP-S340D1195U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	204.2	230.0	269.6	336.3	448.1	613.4	813.3	1015.0	1193.2	1326.9	1412.2
115°	229.3	254.8	290.8	348.6	445.2	582.5	746.4	921.7	1086.5	1225.7	1329.0
117.5°	254.0	277.8	313.3	364.8	446.9	564.4	706.0	854.0	996.3	1121.4	1226.1
120°	269.9	293.7	327.8	377.0	450.0	556.0	684.9	818.4	946.3	1060.0	1155.7
122.5°	284.4	309.6	342.9	388.4	455.3	550.7	667.4	790.4	906.1	1011.5	1100.3
125°	306.0	331.5	364.7	406.3	463.2	543.7	645.1	753.1	856.3	947.2	1023.0
127.5°	326.0	351.6	383.6	421.2	472.3	540.3	625.4	720.5	812.5	894.5	963.5
130°	338.2	363.7	395.0	431.0	478.3	538.0	614.7	700.0	785.3	862.0	926.4
132.5°	349.5	374.4	404.9	440.1	482.9	537.3	605.0	681.1	759.5	831.0	892.3
135°	364.7	390.3	419.6	451.8	489.8	536.1	592.1	655.5	722.8	784.3	838.3
137.5°	378.0	401.6	429.8	460.6	494.3	534.0	580.8	632.2	687.3	740.4	787.2
140°	385.6	409.2	436.7	465.1	497.3	533.3	574.1	618.6	666.8	712.3	753.1
142.5°	393.1	415.3	442.0	469.6	499.6	531.8	567.9	605.7	647.2	686.6	722.0
145°	402.6	424.4	449.0	474.6	501.1	529.5	559.9	590.1	621.4	651.8	679.1
147.5°	413.6	432.1	454.7	477.6	501.1	525.9	551.9	577.5	602.3	626.7	646.2
150°	419.6	436.7	458.4	478.3	501.1	522.9	546.6	568.3	590.1	610.0	628.0
152.5°	425.7	442.0	460.7	479.9	498.8	519.1	540.5	560.0	578.8	596.4	611.4
155°	435.7	449.0	465.1	480.3	496.4	512.5	531.4	547.5	562.6	576.9	588.2
157.5°	444.4	454.7	467.6	481.2	493.2	506.6	521.1	534.3	547.0	557.9	566.8
160°	449.0	458.4	469.9	481.2	491.6	502.1	514.4	526.7	537.1	546.6	553.2
162.5°	452.8	460.7	470.6	480.5	488.6	497.5	507.5	517.6	526.5	535.2	541.0
165°	457.5	464.1	471.7	478.3	484.0	490.6	498.2	505.8	511.5	518.1	522.9
167.5°	461.9	466.0	471.6	476.9	479.5	483.9	489.3	495.6	499.9	503.8	507.2
170°	464.1	466.0	470.8	474.6	476.5	479.3	484.0	488.8	491.6	495.4	497.3
172.5°	465.7	466.8	470.8	473.9	474.2	475.5	478.7	482.7	484.8	487.9	488.9
175°	467.0	468.0	469.9	471.7	470.8	470.8	472.7	474.6	475.5	477.4	477.4
177.5°	468.0	468.0	468.7	470.2	468.7	468.0	468.7	469.4	470.2	471.0	471.0
180°	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0



TEST NUMBER: P332266-930

CATALOG NUMBER: S123RDIP-S340D1195U930-4F0-1E-UDD-A4

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°	10.9	10.8	11.0	10.9	11.0	10.8	10.9	10.8	10.4	10.3	9.9
90°	26.5	27.5	28.5	27.5	28.5	27.5	26.5	27.5	25.6	24.6	23.6
92.5°	49.2	46.4	47.4	45.7	47.4	46.4	49.2	51.0	55.8	63.3	79.7
95°	128.8	120.3	113.7	109.9	113.7	120.3	128.8	146.8	180.9	231.1	341.0
97.5°	375.5	332.9	307.3	299.1	307.3	332.9	375.5	445.4	558.7	680.9	850.0
100°	699.0	629.9	593.0	593.9	593.0	629.9	699.0	794.8	929.3	1040.1	1116.8
102.5°	978.7	924.0	893.1	871.3	893.1	924.0	978.7	1053.1	1138.4	1203.0	1205.5
105°	1275.9	1240.0	1209.7	1204.9	1209.7	1240.0	1275.9	1319.6	1344.2	1326.2	1231.4
107.5°	1428.1	1415.9	1405.7	1397.0	1405.7	1415.9	1428.1	1427.3	1393.6	1310.6	1156.7
110°	1472.0	1479.6	1477.7	1475.9	1477.7	1479.6	1472.0	1445.5	1379.2	1259.9	1085.6



TEST NUMBER: P332266-930

CATALOG NUMBER: S123RDIP-S340D1195U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1460.7	1484.2	1491.3	1491.8	1491.3	1484.2	1460.7	1412.2	1326.9	1193.2	1015.0
115°	1400.0	1441.7	1460.7	1465.4	1460.7	1441.7	1400.0	1329.0	1225.7	1086.5	921.7
117.5°	1300.2	1347.9	1375.2	1381.7	1375.2	1347.9	1300.2	1226.1	1121.4	996.3	854.0
120°	1230.4	1283.5	1306.3	1312.0	1306.3	1283.5	1230.4	1155.7	1060.0	946.3	818.4
122.5°	1166.9	1214.6	1239.6	1246.8	1239.6	1214.6	1166.9	1100.3	1011.5	906.1	790.4
125°	1083.7	1125.4	1149.0	1155.7	1149.0	1125.4	1083.7	1023.0	947.2	856.3	753.1
127.5°	1017.6	1053.1	1074.6	1080.6	1074.6	1053.1	1017.6	963.5	894.5	812.5	720.5
130°	976.6	1010.7	1030.6	1038.2	1030.6	1010.7	976.6	926.4	862.0	785.3	700.0
132.5°	939.5	973.5	991.2	996.5	991.2	973.5	939.5	892.3	831.0	759.5	681.1
135°	884.8	913.1	930.2	936.9	930.2	913.1	884.8	838.3	784.3	722.8	655.5
137.5°	826.2	855.0	869.4	873.8	869.4	855.0	826.2	787.2	740.4	687.3	632.2
140°	789.0	815.6	830.7	829.8	830.7	815.6	789.0	753.1	712.3	666.8	618.6
142.5°	752.7	776.2	789.8	788.9	789.8	776.2	752.7	722.0	686.6	647.2	605.7
145°	702.9	722.8	730.3	732.2	730.3	722.8	702.9	679.1	651.8	621.4	590.1
147.5°	664.2	677.7	684.9	685.6	684.9	677.7	664.2	646.2	626.7	602.3	577.5
150°	642.2	652.6	658.4	658.4	658.4	652.6	642.2	628.0	610.0	590.1	568.3
152.5°	622.6	632.2	635.6	635.6	635.6	632.2	622.6	611.4	596.4	578.8	560.0
155°	596.8	604.4	606.3	607.2	606.3	604.4	596.8	588.2	576.9	562.6	547.5
157.5°	574.2	579.9	581.4	581.2	581.4	579.9	574.2	566.8	557.9	547.0	534.3
160°	559.9	565.5	565.5	564.6	565.5	565.5	559.9	553.2	546.6	537.1	526.7
162.5°	545.4	550.3	550.3	549.4	550.3	550.3	545.4	541.0	535.2	526.5	517.6
165°	526.7	530.4	529.5	529.5	529.5	530.4	526.7	522.9	518.1	511.5	505.8
167.5°	508.8	511.5	510.5	510.5	510.5	511.5	508.8	507.2	503.8	499.9	495.6
170°	498.2	500.2	499.2	499.2	499.2	500.2	498.2	497.3	495.4	491.6	488.8
172.5°	489.2	491.1	489.3	488.6	489.3	491.1	489.2	488.9	487.9	484.8	482.7
175°	477.4	478.3	477.4	476.5	477.4	478.3	477.4	477.4	477.4	475.5	474.6
177.5°	470.2	471.0	469.4	469.4	469.4	471.0	470.2	471.0	471.0	470.2	469.4
180°	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0



TEST NUMBER: P332266-930

CATALOG NUMBER: S123RDIP-S340D1195U930-4F0-1E-UDD-A4

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°	9.7	9.8	9.3	8.6	7.9	7.2	6.4	6.1	5.5	5.8	5.2
90°	22.7	23.6	20.9	18.0	15.2	12.3	10.4	8.6	5.7	3.8	1.9
92.5°	109.9	145.7	160.3	120.3	79.6	54.8	40.8	32.8	25.4	17.4	11.7
95°	455.6	561.7	500.2	344.8	203.7	123.1	86.2	61.6	45.5	35.1	32.2
97.5°	931.3	870.5	637.3	378.3	219.2	142.3	102.3	78.0	64.0	55.8	55.0
100°	1083.7	897.1	606.3	357.1	217.0	150.6	113.7	90.9	77.7	71.0	70.1
102.5°	1091.2	847.8	560.8	338.9	220.0	160.5	126.5	106.1	93.6	87.7	86.0
105°	1033.5	761.6	504.9	325.9	228.3	177.2	147.7	129.8	118.4	112.8	109.9
107.5°	932.3	685.4	469.3	324.9	243.9	198.9	171.6	154.7	143.6	138.1	135.3
110°	868.6	642.2	455.6	328.7	256.7	214.1	187.5	171.5	161.0	156.3	153.4



TEST NUMBER: P332266-930

CATALOG NUMBER: S123RDIP-S340D1195U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	813.3	613.4	448.1	336.3	269.6	230.0	204.2	188.1	177.7	173.0	170.2
115°	746.4	582.5	445.2	348.6	290.8	254.8	229.3	213.1	203.7	198.0	194.2
117.5°	706.0	564.4	446.9	364.8	313.3	277.8	254.0	236.0	227.3	222.6	218.3
120°	684.9	556.0	450.0	377.0	327.8	293.7	269.9	252.0	242.5	237.7	234.9
122.5°	667.4	550.7	455.3	388.4	342.9	309.6	284.4	267.1	256.9	252.2	249.3
125°	645.1	543.7	463.2	406.3	364.7	331.5	306.0	288.0	277.5	271.9	269.9
127.5°	625.4	540.3	472.3	421.2	383.6	351.6	326.0	306.1	295.5	288.5	285.7
130°	614.7	538.0	478.3	431.0	395.0	363.7	338.2	318.3	306.9	298.4	295.5
132.5°	605.0	537.3	482.9	440.1	404.9	374.4	349.5	329.6	316.0	306.7	303.1
135°	592.1	536.1	489.8	451.8	419.6	390.3	364.7	344.8	330.6	320.2	316.4
137.5°	580.8	534.0	494.3	460.6	429.8	401.6	378.0	358.2	343.1	332.9	328.9
140°	574.1	533.3	497.3	465.1	436.7	409.2	385.6	366.6	351.4	341.9	337.2
142.5°	567.9	531.8	499.6	469.6	442.0	415.3	393.1	374.1	360.5	350.3	346.3
145°	559.9	529.5	501.1	474.6	449.0	424.4	402.6	386.5	372.3	363.7	360.9
147.5°	551.9	525.9	501.1	477.6	454.7	432.1	413.6	398.0	385.7	377.4	375.7
150°	546.6	522.9	501.1	478.3	458.4	436.7	419.6	406.3	394.0	386.5	385.6
152.5°	540.5	519.1	498.8	479.9	460.7	442.0	425.7	413.9	403.2	395.6	395.4
155°	531.4	512.5	496.4	480.3	465.1	449.0	435.7	425.3	415.9	410.2	410.2
157.5°	521.1	506.6	493.2	481.2	467.6	454.7	444.4	435.5	427.2	422.7	421.9
160°	514.4	502.1	491.6	481.2	469.9	458.4	449.0	442.4	434.8	431.0	431.0
162.5°	507.5	497.5	488.6	480.5	470.6	460.7	452.8	446.9	440.8	437.8	437.8
165°	498.2	490.6	484.0	478.3	471.7	464.1	457.5	453.7	449.0	447.1	448.1
167.5°	489.3	483.9	479.5	476.9	471.6	466.0	461.9	459.3	455.6	454.7	455.8
170°	484.0	479.3	476.5	474.6	470.8	466.0	464.1	462.3	459.4	458.4	460.4
172.5°	478.7	475.5	474.2	473.9	470.8	466.8	465.7	464.6	462.4	462.3	463.4
175°	472.7	470.8	470.8	471.7	469.9	468.0	467.0	467.0	465.1	466.0	467.0
177.5°	468.7	468.0	468.7	470.2	468.7	468.0	468.0	468.0	467.2	468.0	468.7
180°	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0



TEST NUMBER: P332266-930

CATALOG NUMBER: S123RDIP-S340D1195U930-4F0-1E-UDD-A4

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°	4.9	4.3	4.7	4.6	5.1	5.3	6.0	6.3	6.7	6.7	6.5
90°	3.8	5.7	8.6	10.4	12.3	15.2	18.0	20.9	23.6	22.7	23.6
92.5°	17.4	25.4	32.8	40.8	54.8	79.6	120.3	160.3	145.7	109.9	79.7
95°	35.1	45.5	61.6	86.2	123.1	203.7	344.8	500.2	561.7	455.6	341.0
97.5°	55.8	64.0	78.0	102.3	142.3	219.2	378.3	637.3	870.5	931.3	850.0
100°	71.0	77.7	90.9	113.7	150.6	217.0	357.1	606.3	897.1	1083.7	1116.8
102.5°	87.7	93.6	106.1	126.5	160.5	220.0	338.9	560.8	847.8	1091.2	1205.5
105°	112.8	118.4	129.8	147.7	177.2	228.3	325.9	504.9	761.6	1033.5	1231.4
107.5°	138.1	143.6	154.7	171.6	198.9	243.9	324.9	469.3	685.4	932.3	1156.7
110°	156.3	161.0	171.5	187.5	214.1	256.7	328.7	455.6	642.2	868.6	1085.6



TEST NUMBER: P332266-930

CATALOG NUMBER: S123RDIP-S340D1195U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	173.0	177.7	188.1	204.2	230.0	269.6	336.3	448.1	613.4	813.3	1015.0
115°	198.0	203.7	213.1	229.3	254.8	290.8	348.6	445.2	582.5	746.4	921.7
117.5°	222.6	227.3	236.0	254.0	277.8	313.3	364.8	446.9	564.4	706.0	854.0
120°	237.7	242.5	252.0	269.9	293.7	327.8	377.0	450.0	556.0	684.9	818.4
122.5°	252.2	256.9	267.1	284.4	309.6	342.9	388.4	455.3	550.7	667.4	790.4
125°	271.9	277.5	288.0	306.0	331.5	364.7	406.3	463.2	543.7	645.1	753.1
127.5°	288.5	295.5	306.1	326.0	351.6	383.6	421.2	472.3	540.3	625.4	720.5
130°	298.4	306.9	318.3	338.2	363.7	395.0	431.0	478.3	538.0	614.7	700.0
132.5°	306.7	316.0	329.6	349.5	374.4	404.9	440.1	482.9	537.3	605.0	681.1
135°	320.2	330.6	344.8	364.7	390.3	419.6	451.8	489.8	536.1	592.1	655.5
137.5°	332.9	343.1	358.2	378.0	401.6	429.8	460.6	494.3	534.0	580.8	632.2
140°	341.9	351.4	366.6	385.6	409.2	436.7	465.1	497.3	533.3	574.1	618.6
142.5°	350.3	360.5	374.1	393.1	415.3	442.0	469.6	499.6	531.8	567.9	605.7
145°	363.7	372.3	386.5	402.6	424.4	449.0	474.6	501.1	529.5	559.9	590.1
147.5°	377.4	385.7	398.0	413.6	432.1	454.7	477.6	501.1	525.9	551.9	577.5
150°	386.5	394.0	406.3	419.6	436.7	458.4	478.3	501.1	522.9	546.6	568.3
152.5°	395.6	403.2	413.9	425.7	442.0	460.7	479.9	498.8	519.1	540.5	560.0
155°	410.2	415.9	425.3	435.7	449.0	465.1	480.3	496.4	512.5	531.4	547.5
157.5°	422.7	427.2	435.5	444.4	454.7	467.6	481.2	493.2	506.6	521.1	534.3
160°	431.0	434.8	442.4	449.0	458.4	469.9	481.2	491.6	502.1	514.4	526.7
162.5°	437.8	440.8	446.9	452.8	460.7	470.6	480.5	488.6	497.5	507.5	517.6
165°	447.1	449.0	453.7	457.5	464.1	471.7	478.3	484.0	490.6	498.2	505.8
167.5°	454.7	455.6	459.3	461.9	466.0	471.6	476.9	479.5	483.9	489.3	495.6
170°	458.4	459.4	462.3	464.1	466.0	470.8	474.6	476.5	479.3	484.0	488.8
172.5°	462.3	462.4	464.6	465.7	466.8	470.8	473.9	474.2	475.5	478.7	482.7
175°	466.0	465.1	467.0	467.0	468.0	469.9	471.7	470.8	470.8	472.7	474.6
177.5°	468.0	467.2	468.0	468.0	468.0	468.7	470.2	468.7	468.0	468.7	469.4
180°	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0



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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°	6.8	6.9	7.2	7.0	7.0	7.5	7.0
90°	24.6	25.6	27.5	26.5	27.5	28.5	27.5
92.5°	63.3	55.8	51.0	49.2	46.4	47.4	45.7
95°	231.1	180.9	146.8	128.8	120.3	113.7	109.9
97.5°	680.9	558.7	445.4	375.5	332.9	307.3	299.1
100°	1040.1	929.3	794.8	699.0	629.9	593.0	593.9
102.5°	1203.0	1138.4	1053.1	978.7	924.0	893.1	871.3
105°	1326.2	1344.2	1319.6	1275.9	1240.0	1209.7	1204.9
107.5°	1310.6	1393.6	1427.3	1428.1	1415.9	1405.7	1397.0
110°	1259.9	1379.2	1445.5	1472.0	1479.6	1477.7	1475.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1193.2	1326.9	1412.2	1460.7	1484.2	1491.3	1491.8
115°	1086.5	1225.7	1329.0	1400.0	1441.7	1460.7	1465.4
117.5°	996.3	1121.4	1226.1	1300.2	1347.9	1375.2	1381.7
120°	946.3	1060.0	1155.7	1230.4	1283.5	1306.3	1312.0
122.5°	906.1	1011.5	1100.3	1166.9	1214.6	1239.6	1246.8
125°	856.3	947.2	1023.0	1083.7	1125.4	1149.0	1155.7
127.5°	812.5	894.5	963.5	1017.6	1053.1	1074.6	1080.6
130°	785.3	862.0	926.4	976.6	1010.7	1030.6	1038.2
132.5°	759.5	831.0	892.3	939.5	973.5	991.2	996.5
135°	722.8	784.3	838.3	884.8	913.1	930.2	936.9
137.5°	687.3	740.4	787.2	826.2	855.0	869.4	873.8
140°	666.8	712.3	753.1	789.0	815.6	830.7	829.8
142.5°	647.2	686.6	722.0	752.7	776.2	789.8	788.9
145°	621.4	651.8	679.1	702.9	722.8	730.3	732.2
147.5°	602.3	626.7	646.2	664.2	677.7	684.9	685.6
150°	590.1	610.0	628.0	642.2	652.6	658.4	658.4
152.5°	578.8	596.4	611.4	622.6	632.2	635.6	635.6
155°	562.6	576.9	588.2	596.8	604.4	606.3	607.2
157.5°	547.0	557.9	566.8	574.2	579.9	581.4	581.2
160°	537.1	546.6	553.2	559.9	565.5	565.5	564.6
162.5°	526.5	535.2	541.0	545.4	550.3	550.3	549.4
165°	511.5	518.1	522.9	526.7	530.4	529.5	529.5
167.5°	499.9	503.8	507.2	508.8	511.5	510.5	510.5
170°	491.6	495.4	497.3	498.2	500.2	499.2	499.2
172.5°	484.8	487.9	488.9	489.2	491.1	489.3	488.6
175°	475.5	477.4	477.4	477.4	478.3	477.4	476.5
177.5°	470.2	471.0	471.0	470.2	471.0	469.4	469.4
180°	468.0	468.0	468.0	468.0	468.0	468.0	468.0

(END OF REPORT)