

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: P332266-935

Luminaire Tested: **S123RDIP-S340D1195U935-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332266-935
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-S340D1195U935-4F0-1E-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: 4888.5 lumens
Efficiency: N/A
Efficacy: 115.8 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

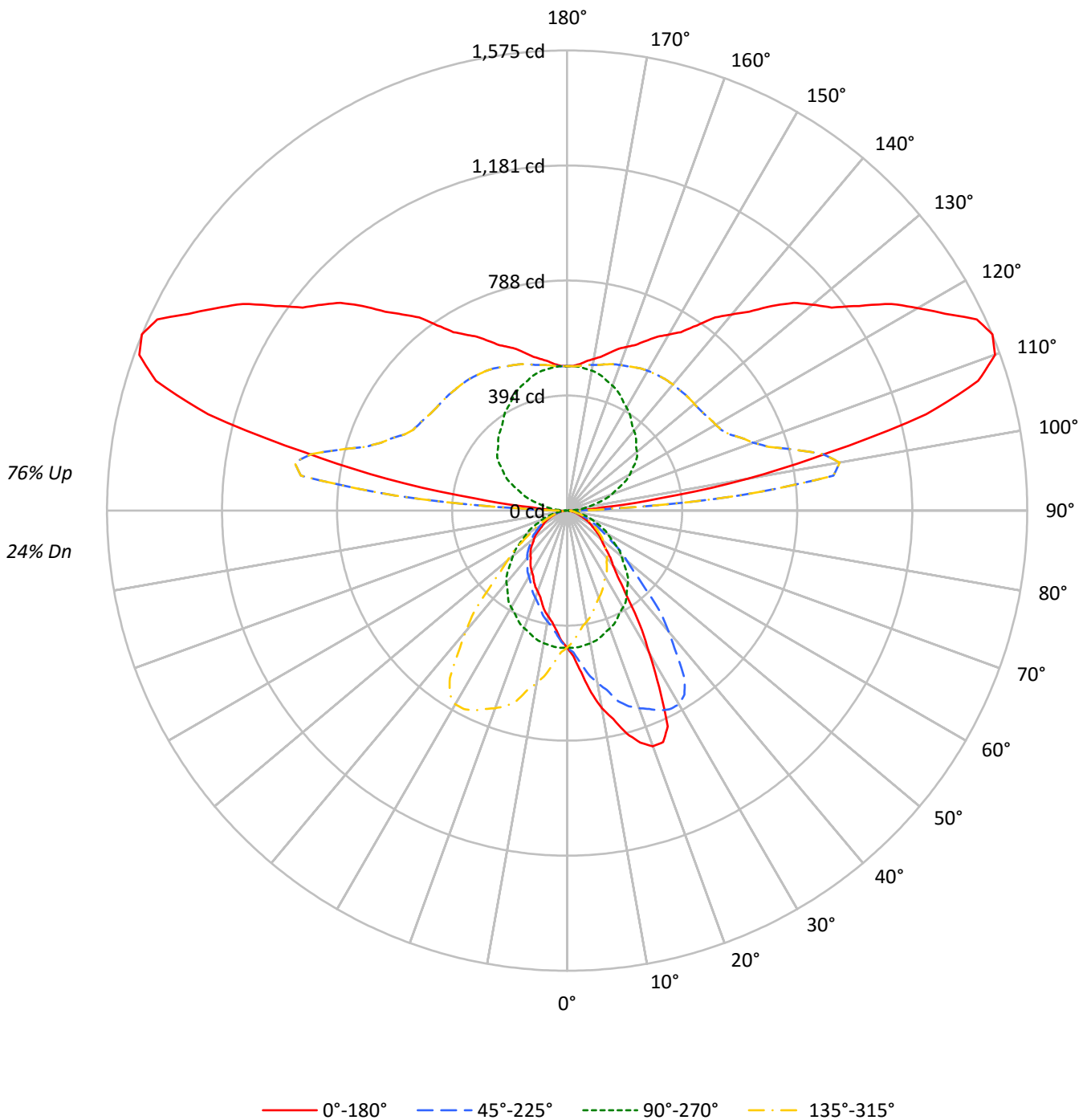
Input Watts (W): 42.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5044	5044	5044	5044
5°	6013	5065	4460	5065
10°	7507	5037	4030	5037
15°	8811	4985	3675	4985
20°	9835	4907	3373	4907
25°	9678	4827	3188	4827
30°	6955	4753	2997	4753
35°	4644	4654	2872	4654
40°	3421	4539	2746	4539
45°	2871	4332	2620	4332
50°	2534	4064	2445	4064
55°	2222	3757	2205	3757
60°	1978	3462	2019	3462
65°	1737	3148	1880	3148
70°	1363	2867	1718	2867
75°	1198	2504	1568	2504
80°	1048	2126	1543	2126
85°	840	1717	1643	1717



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.1	0.9
10°-20°	144.0	2.9
20°-30°	226.2	4.6
30°-40°	236.0	4.8
40°-50°	201.9	4.1
50°-60°	153.9	3.1
60°-70°	98.7	2.0
70°-80°	47.5	1.0
80°-90°	16.4	0.3
90°-100°	275.0	5.6
100°-110°	778.7	15.9
110°-120°	766.1	15.7
120°-130°	611.0	12.5
130°-140°	481.8	9.9
140°-150°	359.6	7.4
150°-160°	250.6	5.1
160°-170°	147.2	3.0
170°-180°	47.9	1.0
0°-30°	416.2	8.5
0°-40°	652.2	13.3
0°-60°	1008.0	20.6
0°-90°	1170.5	23.9
90°-120°	1819.8	37.2
90°-150°	3272.2	66.9
90°-180°	3718.0	76.1
0°-180°	4888.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	469	469	469	469	469	
5°	556	469	413	469	556	57
15°	791	447	330	447	791	224
25°	815	406	268	406	815	350
35°	353	354	219	354	353	232
45°	189	285	172	285	189	148
55°	118	200	118	200	118	107
65°	68	124	74	124	68	67
75°	29	60	38	60	29	31
85°	7	14	13	14	7	9
90°	29	2	29	2	29	16
95°	116	34	116	34	116	209
105°	1272	116	1272	116	1272	1255
115°	1548	205	1548	205	1548	1504
125°	1220	285	1220	285	1220	1106
135°	989	334	989	334	989	767
145°	773	381	773	381	773	492
155°	641	433	641	433	641	299
165°	559	473	559	473	559	160
175°	503	493	503	493	503	49
180°	494	494	494	494	494	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6
2.5°	499.1	499.7	497.7	497.3	494.9	494.3	494.3	490.9	488.8	486.1	484.5
5°	556.5	559.6	558.0	554.5	548.5	547.0	543.2	537.2	530.4	521.9	518.0
7.5°	628.1	632.5	630.8	625.3	618.9	613.8	603.0	593.1	579.1	566.8	556.3
10°	686.8	682.3	678.6	673.2	667.4	658.0	646.7	631.3	613.5	599.3	583.8
12.5°	730.8	730.0	725.5	719.9	711.7	702.7	688.9	670.1	649.4	629.0	611.1
15°	790.7	791.9	788.9	783.2	771.5	755.6	734.8	726.9	697.2	675.2	653.2
17.5°	832.2	832.0	831.6	823.5	811.7	800.4	781.0	760.4	733.6	702.5	672.8
20°	858.6	856.5	857.0	847.9	839.1	826.0	807.2	777.3	755.3	719.4	688.6
22.5°	857.9	857.5	859.0	855.9	849.5	839.6	824.7	799.4	771.3	735.0	700.5
25°	814.9	813.2	822.6	825.3	835.5	837.3	832.8	819.1	792.4	755.0	712.3
27.5°	681.9	681.1	698.5	720.5	748.2	769.8	790.7	800.7	792.4	765.6	722.8
30°	559.6	578.5	587.4	619.1	654.4	696.5	733.4	768.4	777.1	765.4	730.4
32.5°	464.7	481.1	488.5	515.7	548.6	598.0	653.3	703.0	738.1	747.0	725.9
35°	353.4	353.6	370.5	382.5	413.0	463.7	517.5	584.1	650.3	700.5	705.7
37.5°	282.1	283.0	293.3	305.2	328.1	354.9	402.3	457.6	534.1	611.1	656.3
40°	243.5	245.3	253.0	264.8	281.2	301.5	338.4	390.5	454.3	540.0	610.0
42.5°	218.8	221.7	225.7	234.8	245.0	264.0	293.8	334.1	392.1	473.1	553.9
45°	188.6	190.2	193.2	197.4	206.6	219.8	239.9	267.0	315.1	380.3	461.2
47.5°	166.3	165.5	168.7	172.0	178.2	187.3	200.7	222.7	257.1	309.4	378.0
50°	151.3	151.0	153.3	155.8	161.7	168.3	179.3	196.0	223.3	266.6	329.4
52.5°	137.2	137.8	139.5	142.7	146.9	152.2	162.1	174.2	197.6	235.0	287.3
55°	118.4	119.0	121.1	123.0	126.0	131.4	137.6	147.7	163.7	189.8	232.9
57.5°	102.5	102.2	104.3	104.8	108.1	112.5	117.4	125.2	136.8	156.2	185.2
60°	91.9	91.3	93.1	94.5	96.3	99.9	103.9	111.5	120.8	135.0	159.9
62.5°	82.2	82.0	83.3	84.7	86.2	89.5	92.8	98.7	106.0	118.0	137.8
65°	68.2	68.8	69.4	70.0	70.8	72.8	76.0	80.1	85.1	93.5	107.7
67.5°	53.6	54.2	54.4	55.6	57.3	58.6	60.6	64.1	67.7	74.7	82.8
70°	43.3	43.1	43.3	43.9	46.1	48.3	51.0	53.6	55.8	60.8	67.6
72.5°	37.2	36.9	37.4	37.5	38.6	39.2	40.8	43.3	46.1	49.5	54.4
75°	28.8	28.8	28.8	28.8	29.7	30.0	30.7	31.3	32.3	33.9	37.5
77.5°	21.4	21.4	21.7	21.9	22.0	22.3	22.6	23.2	23.6	24.5	26.0
80°	16.9	17.0	16.9	17.0	17.0	17.5	17.7	18.3	18.4	19.5	20.1
82.5°	12.7	12.6	12.7	12.9	12.9	13.3	13.3	13.8	13.8	14.3	14.9
85°	6.8	6.5	6.8	6.6	7.1	6.6	6.8	7.2	7.2	7.4	8.3
87.5°	7.4	7.9	7.4	7.4	7.6	7.3	7.1	6.9	7.1	7.1	6.6
90°	29.0	30.0	29.0	28.0	29.0	27.0	26.0	25.0	24.0	25.0	22.0
92.5°	48.2	50.0	49.0	52.0	53.8	59.0	66.8	84.2	116.1	153.9	169.3
95°	116.1	120.0	127.1	136.0	155.1	191.1	244.1	360.2	481.1	593.2	528.2
97.5°	315.9	324.5	351.5	396.6	470.4	590.0	719.0	897.7	983.5	919.3	673.0
100°	627.2	626.2	665.2	738.2	839.3	981.4	1098.4	1179.4	1144.4	947.4	640.2
102.5°	920.2	943.1	975.8	1033.5	1112.2	1202.2	1270.4	1273.1	1152.4	895.4	592.2
105°	1272.5	1277.5	1309.5	1347.5	1393.5	1419.5	1400.5	1300.5	1091.4	804.3	533.2
107.5°	1475.3	1484.5	1495.3	1508.1	1507.4	1471.7	1384.1	1221.6	984.6	723.8	495.6
110°	1558.6	1560.6	1562.5	1554.5	1526.6	1456.6	1330.5	1146.4	917.3	678.2	481.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1575.4	1574.9	1567.4	1542.6	1491.3	1401.3	1260.1	1071.9	858.9	647.8	473.2
115°	1547.6	1542.6	1522.5	1478.5	1403.5	1294.4	1147.4	973.4	788.2	615.2	470.2
117.5°	1459.1	1452.3	1423.5	1373.1	1294.9	1184.2	1052.1	901.9	745.6	596.0	472.0
120°	1385.5	1379.5	1355.5	1299.4	1220.5	1119.4	999.4	864.3	723.2	587.2	475.2
122.5°	1316.6	1309.1	1282.6	1232.3	1162.0	1068.2	956.9	834.7	704.8	581.6	480.8
125°	1220.5	1213.4	1188.4	1144.4	1080.4	1000.3	904.3	795.3	681.2	574.2	489.1
127.5°	1141.2	1134.8	1112.2	1074.6	1017.5	944.7	858.1	760.9	660.5	570.6	498.8
130°	1096.4	1088.4	1067.4	1031.4	978.4	910.3	829.3	739.3	649.2	568.2	505.1
132.5°	1052.4	1046.8	1028.1	992.1	942.4	877.5	802.1	719.3	638.9	567.4	510.0
135°	989.4	982.3	964.3	934.4	885.3	828.3	763.3	692.2	625.3	566.2	517.2
137.5°	922.7	918.1	902.9	872.5	831.3	781.9	725.8	667.6	613.4	564.0	522.0
140°	876.3	877.3	861.3	833.3	795.3	752.3	704.2	653.2	606.2	563.2	525.2
142.5°	833.1	834.1	819.7	794.9	762.5	725.0	683.5	639.6	599.8	561.6	527.6
145°	773.3	771.3	763.3	742.3	717.2	688.3	656.3	623.2	591.2	559.2	529.2
147.5°	724.0	723.2	715.7	701.5	682.4	661.9	636.0	609.8	582.8	555.4	529.2
150°	695.3	695.3	689.2	678.2	663.2	644.2	623.2	600.2	577.2	552.2	529.2
152.5°	671.2	671.2	667.6	657.5	645.7	629.8	611.2	591.4	570.8	548.2	526.8
155°	641.2	640.2	638.3	630.3	621.2	609.2	594.2	578.2	561.2	541.2	524.2
157.5°	613.8	614.0	612.4	606.4	598.6	589.2	577.6	564.2	550.4	535.0	520.8
160°	596.2	597.2	597.2	591.2	584.2	577.2	567.2	556.2	543.2	530.2	519.2
162.5°	580.2	581.2	581.2	576.0	571.4	565.2	556.0	546.6	536.0	525.4	516.0
165°	559.2	559.2	560.2	556.2	552.2	547.2	540.2	534.2	526.2	518.1	511.2
167.5°	539.2	539.2	540.2	537.4	535.6	532.0	528.0	523.4	516.8	511.0	506.4
170°	527.2	527.2	528.2	526.2	525.2	523.1	519.2	516.2	511.2	506.2	503.2
172.5°	516.0	516.8	518.6	516.6	516.3	515.2	512.0	509.8	505.6	502.1	500.8
175°	503.2	504.2	505.1	504.2	504.2	504.2	502.1	501.2	499.2	497.1	497.1
177.5°	495.8	495.8	497.4	496.5	497.4	497.4	496.5	495.8	495.0	494.2	495.0
180°	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6
2.5°	483.8	483.4	481.1	478.5	475.2	472.9	471.1	470.2	467.3	463.7	461.4
5°	513.8	507.7	501.3	493.4	486.2	478.8	474.2	468.8	462.2	454.8	449.5
7.5°	545.7	533.9	521.2	508.1	495.2	483.5	473.2	464.4	453.9	443.2	435.8
10°	570.3	553.0	535.2	516.9	500.3	484.7	472.6	460.8	448.2	435.9	426.6
12.5°	592.6	569.9	549.3	526.8	505.6	486.9	469.6	455.6	440.4	427.4	416.9
15°	620.9	597.5	572.7	538.6	510.3	486.6	465.5	447.3	428.9	412.8	402.6
17.5°	647.2	612.3	578.8	550.4	513.6	484.1	458.3	436.5	416.2	399.2	386.6
20°	658.1	624.2	588.0	551.6	515.6	482.4	452.5	428.4	407.4	388.1	376.5
22.5°	664.7	626.4	588.1	549.1	510.7	476.3	446.8	420.3	397.4	379.2	364.8
25°	672.4	626.6	584.5	546.0	506.9	469.6	434.5	406.4	381.8	362.3	347.1
27.5°	677.4	623.6	573.9	531.1	491.4	454.3	422.1	392.3	367.2	346.6	330.3
30°	678.4	621.2	565.7	519.4	479.1	444.9	410.8	382.4	355.9	334.0	318.7
32.5°	679.7	615.3	554.6	505.4	464.1	430.3	399.4	372.2	345.1	323.6	308.0
35°	674.4	612.0	537.8	481.2	439.9	407.2	379.4	354.2	327.6	306.7	290.8
37.5°	651.6	599.0	520.4	454.0	410.8	380.6	357.8	336.0	311.5	289.0	274.1
40°	628.7	586.2	506.9	437.5	392.4	361.3	340.8	323.0	299.3	278.2	262.2
42.5°	594.5	568.6	494.0	420.2	371.5	341.6	324.3	307.5	286.8	265.4	250.3
45°	531.8	535.2	467.8	392.5	342.6	312.5	296.3	284.6	266.2	248.6	233.1
47.5°	453.1	485.0	437.0	363.2	312.2	284.0	269.8	259.6	247.1	229.8	215.7
50°	401.8	447.3	412.2	343.5	293.1	265.0	251.0	242.7	231.9	218.3	204.8
52.5°	354.5	403.4	382.4	321.4	272.3	246.7	233.0	226.2	217.6	204.7	192.6
55°	289.0	338.6	333.8	288.3	241.3	218.3	207.8	200.2	194.4	184.8	175.1
57.5°	233.8	280.8	283.3	251.3	214.0	191.1	182.2	176.4	172.6	165.4	156.4
60°	199.0	242.1	250.6	226.4	194.4	174.4	165.5	160.8	157.9	152.1	145.3
62.5°	170.1	206.8	216.4	199.1	175.6	156.8	149.9	145.5	143.4	138.4	132.4
65°	130.2	160.7	169.9	160.3	148.0	133.0	127.3	123.6	121.7	119.0	114.5
67.5°	97.9	120.1	130.3	123.5	119.0	109.5	106.0	103.9	102.3	100.4	96.7
70°	78.6	95.1	105.5	103.8	100.1	95.1	92.5	91.1	89.5	87.8	84.6
72.5°	63.2	74.6	84.3	85.2	82.3	81.3	79.0	78.4	77.4	75.5	73.7
75°	41.9	49.8	56.6	59.2	60.4	61.4	60.4	60.2	60.0	58.4	57.3
77.5°	27.5	31.7	36.0	40.5	42.4	43.7	44.0	44.8	44.2	43.4	42.9
80°	21.1	22.0	25.1	28.8	31.9	33.1	33.9	34.3	34.1	33.9	33.1
82.5°	15.3	16.1	17.6	20.2	22.7	24.7	25.2	25.1	25.6	25.7	25.1
85°	8.3	8.4	8.9	9.2	10.6	12.8	13.4	13.9	14.2	14.2	13.0
87.5°	6.4	5.6	5.3	4.9	5.0	4.6	5.2	5.5	6.1	5.9	6.5
90°	19.0	16.0	13.0	11.0	9.0	6.0	4.0	2.0	4.0	6.0	9.0
92.5°	127.1	84.0	57.9	43.0	34.6	26.8	18.4	12.4	18.4	26.8	34.6
95°	364.1	215.1	130.0	91.0	65.0	48.0	37.0	34.0	37.0	48.0	65.0
97.5°	399.5	231.5	150.2	108.1	82.4	67.6	59.0	58.0	59.0	67.6	82.4
100°	377.1	229.1	159.0	120.0	96.0	82.1	75.0	74.0	75.0	82.1	96.0
102.5°	357.9	232.3	169.4	133.6	112.0	98.8	92.6	90.8	92.6	98.8	112.0
105°	344.1	241.1	187.1	156.0	137.1	125.0	119.1	116.1	119.1	125.0	137.1
107.5°	343.1	257.5	210.1	181.2	163.4	151.6	145.9	142.8	145.9	151.6	163.4
110°	347.2	271.1	226.1	198.0	181.1	170.0	165.1	162.0	165.1	170.0	181.1



TEST NUMBER: P332266-935

CATALOG NUMBER: S123RDIP-S340D1195U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	355.2	284.7	242.9	215.7	198.6	187.7	182.7	179.7	182.7	187.7	198.6
115°	368.2	307.1	269.1	242.1	225.1	215.1	209.1	205.1	209.1	215.1	225.1
117.5°	385.3	330.9	293.3	268.3	249.3	240.0	235.1	230.5	235.1	240.0	249.3
120°	398.1	346.1	310.1	285.1	266.1	256.1	251.1	248.1	251.1	256.1	266.1
122.5°	410.2	362.1	326.9	300.3	282.1	271.3	266.3	263.3	266.3	271.3	282.1
125°	429.1	385.1	350.1	323.1	304.1	293.1	287.1	285.1	287.1	293.1	304.1
127.5°	444.8	405.1	371.3	344.3	323.3	312.1	304.7	301.7	304.7	312.1	323.3
130°	455.1	417.2	384.1	357.1	336.1	324.1	315.1	312.1	315.1	324.1	336.1
132.5°	464.8	427.6	395.4	369.1	348.1	333.7	323.9	320.1	323.9	333.7	348.1
135°	477.2	443.2	412.2	385.1	364.1	349.1	338.1	334.2	338.1	349.1	364.1
137.5°	486.4	453.9	424.1	399.2	378.3	362.3	351.5	347.3	351.5	362.3	378.3
140°	491.2	461.2	432.1	407.2	387.1	371.1	361.1	356.1	361.1	371.1	387.1
142.5°	495.9	466.7	438.6	415.2	395.1	380.7	370.0	365.8	370.0	380.7	395.1
145°	501.2	474.2	448.2	425.2	408.1	393.1	384.1	381.2	384.1	393.1	408.1
147.5°	504.4	480.2	456.3	436.8	420.3	407.3	398.6	396.7	398.6	407.3	420.3
150°	505.1	484.1	461.2	443.2	429.1	416.1	408.1	407.2	408.1	416.1	429.1
152.5°	506.8	486.6	466.7	449.5	437.1	425.8	417.8	417.6	417.8	425.8	437.1
155°	507.2	491.2	474.2	460.1	449.2	439.2	433.2	433.2	433.2	439.2	449.2
157.5°	508.2	493.8	480.2	469.3	459.9	451.2	446.3	445.6	446.3	451.2	459.9
160°	508.2	496.2	484.1	474.2	467.2	459.2	455.1	455.1	455.1	459.2	467.2
162.5°	507.4	497.0	486.6	478.2	472.0	465.5	462.4	462.4	462.4	465.5	472.0
165°	505.1	498.2	490.2	483.2	479.1	474.2	472.2	473.2	472.2	474.2	479.1
167.5°	503.6	498.0	492.1	487.8	485.0	481.1	480.2	481.4	480.2	481.1	485.0
170°	501.2	497.1	492.1	490.2	488.2	485.2	484.1	486.2	484.1	485.2	488.2
172.5°	500.4	497.1	493.0	491.8	490.6	488.4	488.2	489.4	488.2	488.4	490.6
175°	498.2	496.2	494.2	493.2	493.2	491.2	492.1	493.2	492.1	491.2	493.2
177.5°	496.5	495.0	494.2	494.2	494.2	493.4	494.2	495.0	494.2	493.4	494.2
180°	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2



TEST NUMBER: P332266-935

CATALOG NUMBER: S123RDIP-S340D1195U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6
2.5°	460.5	458.5	457.0	453.8	451.8	449.5	447.3	448.7	448.5	448.4	448.4
5°	445.1	440.5	436.3	430.8	427.5	423.3	420.1	419.7	420.4	417.7	416.0
7.5°	429.8	423.5	417.5	411.6	405.2	400.1	397.0	395.5	393.5	391.8	389.9
10°	419.0	411.6	405.8	398.4	391.6	385.6	381.8	379.1	377.7	376.3	373.7
12.5°	407.9	400.7	393.3	384.9	378.4	371.4	368.6	365.7	363.0	361.4	357.8
15°	391.8	382.4	374.5	365.7	358.4	351.6	347.7	341.8	341.0	339.0	335.4
17.5°	375.5	365.3	354.5	347.9	339.8	332.7	326.6	324.7	318.9	316.8	313.6
20°	362.7	353.3	345.0	336.4	324.6	318.0	313.1	310.6	305.9	303.1	301.1
22.5°	351.6	342.0	332.5	322.4	312.7	305.2	301.7	297.6	295.2	291.2	289.0
25°	335.8	325.4	313.9	303.1	296.1	290.5	284.8	281.2	277.6	275.8	271.8
27.5°	317.5	306.5	295.8	287.6	279.0	273.5	268.4	265.2	260.8	257.8	255.5
30°	307.3	294.5	285.2	277.8	266.8	261.6	257.8	253.7	250.6	247.4	245.1
32.5°	295.6	283.9	275.2	266.0	257.5	251.8	246.8	243.3	240.6	237.5	235.3
35°	277.2	267.4	258.4	249.2	242.9	237.1	231.3	228.3	225.7	222.8	220.8
37.5°	260.6	251.4	242.8	234.1	226.4	221.6	217.0	214.6	211.1	209.2	207.2
40°	250.4	241.3	232.1	223.7	215.7	212.1	207.8	204.4	201.2	199.8	197.6
42.5°	239.1	230.1	222.3	213.3	206.6	201.7	197.9	194.2	191.7	189.7	188.5
45°	222.5	214.5	206.8	197.8	191.6	187.4	183.0	179.5	177.4	175.9	173.7
47.5°	206.3	198.3	190.5	182.7	176.7	171.9	167.4	165.1	162.1	160.4	158.9
50°	194.6	187.4	179.2	171.9	165.9	161.1	157.5	154.5	151.9	149.6	148.6
52.5°	183.8	176.2	169.0	162.3	155.9	150.5	147.2	144.0	142.1	139.6	138.4
55°	166.1	158.7	152.7	146.0	139.8	135.2	131.2	128.4	126.4	123.6	122.0
57.5°	149.5	142.8	135.6	129.8	123.5	119.6	116.2	112.4	109.9	107.8	106.2
60°	138.2	130.6	124.3	119.0	113.3	108.3	105.3	102.3	99.7	97.5	96.1
62.5°	126.5	119.9	113.9	108.1	102.9	98.5	95.1	92.6	90.2	88.9	87.4
65°	108.5	103.3	97.3	92.5	87.6	84.5	81.6	79.5	77.8	76.8	75.6
67.5°	92.0	87.0	81.7	77.0	73.7	71.3	69.5	67.6	66.7	65.4	64.7
70°	81.3	76.0	71.4	67.8	64.6	62.8	61.6	60.2	59.4	57.8	57.0
72.5°	69.6	65.8	62.4	59.5	56.9	55.3	53.7	52.0	50.7	48.9	48.1
75°	54.8	51.3	48.7	46.8	45.1	43.0	40.7	38.9	38.3	37.7	37.5
77.5°	40.6	38.4	36.5	34.8	32.8	31.3	30.7	30.3	30.2	29.9	29.9
80°	31.9	29.9	28.5	26.5	25.3	25.3	25.3	24.9	25.1	25.1	25.1
82.5°	23.7	21.9	21.1	20.4	20.1	20.3	20.3	20.4	20.2	20.6	20.4
85°	12.2	12.4	12.8	12.7	12.8	12.8	13.3	13.0	13.3	12.8	13.3
87.5°	6.7	7.6	8.4	9.1	9.8	10.3	10.2	10.4	10.8	11.0	11.5
90°	11.0	13.0	16.0	19.0	22.0	25.0	24.0	25.0	26.0	27.0	29.0
92.5°	43.0	57.9	84.0	127.1	169.3	153.9	116.1	84.2	66.8	59.0	53.8
95°	91.0	130.0	215.1	364.1	528.2	593.2	481.1	360.2	244.1	191.1	155.1
97.5°	108.1	150.2	231.5	399.5	673.0	919.3	983.5	897.7	719.0	590.0	470.4
100°	120.0	159.0	229.1	377.1	640.2	947.4	1144.4	1179.4	1098.4	981.4	839.3
102.5°	133.6	169.4	232.3	357.9	592.2	895.4	1152.4	1273.1	1270.4	1202.2	1112.2
105°	156.0	187.1	241.1	344.1	533.2	804.3	1091.4	1300.5	1400.5	1419.5	1393.5
107.5°	181.2	210.1	257.5	343.1	495.6	723.8	984.6	1221.6	1384.1	1471.7	1507.4
110°	198.0	226.1	271.1	347.2	481.1	678.2	917.3	1146.4	1330.5	1456.6	1526.6



TEST NUMBER: P332266-935

CATALOG NUMBER: S123RDIP-S340D1195U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	215.7	242.9	284.7	355.2	473.2	647.8	858.9	1071.9	1260.1	1401.3	1491.3
115°	242.1	269.1	307.1	368.2	470.2	615.2	788.2	973.4	1147.4	1294.4	1403.5
117.5°	268.3	293.3	330.9	385.3	472.0	596.0	745.6	901.9	1052.1	1184.2	1294.9
120°	285.1	310.1	346.1	398.1	475.2	587.2	723.2	864.3	999.4	1119.4	1220.5
122.5°	300.3	326.9	362.1	410.2	480.8	581.6	704.8	834.7	956.9	1068.2	1162.0
125°	323.1	350.1	385.1	429.1	489.1	574.2	681.2	795.3	904.3	1000.3	1080.4
127.5°	344.3	371.3	405.1	444.8	498.8	570.6	660.5	760.9	858.1	944.7	1017.5
130°	357.1	384.1	417.2	455.1	505.1	568.2	649.2	739.3	829.3	910.3	978.4
132.5°	369.1	395.4	427.6	464.8	510.0	567.4	638.9	719.3	802.1	877.5	942.4
135°	385.1	412.2	443.2	477.2	517.2	566.2	625.3	692.2	763.3	828.3	885.3
137.5°	399.2	424.1	453.9	486.4	522.0	564.0	613.4	667.6	725.8	781.9	831.3
140°	407.2	432.1	461.2	491.2	525.2	563.2	606.2	653.2	704.2	752.3	795.3
142.5°	415.2	438.6	466.7	495.9	527.6	561.6	599.8	639.6	683.5	725.0	762.5
145°	425.2	448.2	474.2	501.2	529.2	559.2	591.2	623.2	656.3	688.3	717.2
147.5°	436.8	456.3	480.2	504.4	529.2	555.4	582.8	609.8	636.0	661.9	682.4
150°	443.2	461.2	484.1	505.1	529.2	552.2	577.2	600.2	623.2	644.2	663.2
152.5°	449.5	466.7	486.6	506.8	526.8	548.2	570.8	591.4	611.2	629.8	645.7
155°	460.1	474.2	491.2	507.2	524.2	541.2	561.2	578.2	594.2	609.2	621.2
157.5°	469.3	480.2	493.8	508.2	520.8	535.0	550.4	564.2	577.6	589.2	598.6
160°	474.2	484.1	496.2	508.2	519.2	530.2	543.2	556.2	567.2	577.2	584.2
162.5°	478.2	486.6	497.0	507.4	516.0	525.4	536.0	546.6	556.0	565.2	571.4
165°	483.2	490.2	498.2	505.1	511.2	518.1	526.2	534.2	540.2	547.2	552.2
167.5°	487.8	492.1	498.0	503.6	506.4	511.0	516.8	523.4	528.0	532.0	535.6
170°	490.2	492.1	497.1	501.2	503.2	506.2	511.2	516.2	519.2	523.1	525.2
172.5°	491.8	493.0	497.1	500.4	500.8	502.1	505.6	509.8	512.0	515.2	516.3
175°	493.2	494.2	496.2	498.2	497.1	497.1	499.2	501.2	502.1	504.2	504.2
177.5°	494.2	494.2	495.0	496.5	495.0	494.2	495.0	495.8	496.5	497.4	497.4
180°	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2



TEST NUMBER: P332266-935

CATALOG NUMBER: S123RDIP-S340D1195U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6
2.5°	446.4	446.3	446.4	445.8	446.4	446.3	446.4	448.4	448.4	448.5	448.7
5°	415.4	415.3	414.7	412.8	414.7	415.3	415.4	416.0	417.7	420.4	419.7
7.5°	388.3	388.1	386.3	386.3	386.3	388.1	388.3	389.9	391.8	393.5	395.5
10°	372.3	372.5	370.1	368.7	370.1	372.5	372.3	373.7	376.3	377.7	379.1
12.5°	356.7	355.9	353.9	352.3	353.9	355.9	356.7	357.8	361.4	363.0	365.7
15°	336.2	334.2	329.4	329.8	329.4	334.2	336.2	335.4	339.0	341.0	341.8
17.5°	312.0	310.6	310.5	307.6	310.5	310.6	312.0	313.6	316.8	318.9	324.7
20°	297.9	296.9	297.3	294.5	297.3	296.9	297.9	301.1	303.1	305.9	310.6
22.5°	286.8	285.8	284.1	283.3	284.1	285.8	286.8	289.0	291.2	295.2	297.6
25°	270.6	269.0	267.4	268.4	267.4	269.0	270.6	271.8	275.8	277.6	281.2
27.5°	254.4	253.2	251.6	251.4	251.6	253.2	254.4	255.5	257.8	260.8	265.2
30°	244.1	242.9	242.1	241.1	242.1	242.9	244.1	245.1	247.4	250.6	253.7
32.5°	233.7	233.4	232.0	231.8	232.0	233.4	233.7	235.3	237.5	240.6	243.3
35°	220.1	218.9	218.4	218.6	218.4	218.9	220.1	220.8	222.8	225.7	228.3
37.5°	207.1	205.5	204.7	204.1	204.7	205.5	207.1	207.2	209.2	211.1	214.6
40°	197.8	196.2	195.8	195.4	195.8	196.2	197.8	197.6	199.8	201.2	204.4
42.5°	187.4	186.8	186.5	185.7	186.5	186.8	187.4	188.5	189.7	191.7	194.2
45°	173.1	172.9	171.7	172.1	171.7	172.9	173.1	173.7	175.9	177.4	179.5
47.5°	158.1	157.2	156.4	157.0	156.4	157.2	158.1	158.9	160.4	162.1	165.1
50°	147.8	147.4	145.6	146.0	145.6	147.4	147.8	148.6	149.6	151.9	154.5
52.5°	137.6	136.0	135.3	135.1	135.3	136.0	137.6	138.4	139.6	142.1	144.0
55°	120.5	118.7	118.0	117.5	118.0	118.7	120.5	122.0	123.6	126.4	128.4
57.5°	103.8	103.4	102.7	103.1	102.7	103.4	103.8	106.2	107.8	109.9	112.4
60°	94.1	94.1	94.1	93.8	94.1	94.1	94.1	96.1	97.5	99.7	102.3
62.5°	86.5	86.0	85.9	86.2	85.9	86.0	86.5	87.4	88.9	90.2	92.6
65°	75.0	74.8	74.0	73.8	74.0	74.8	75.0	75.6	76.8	77.8	79.5
67.5°	64.1	63.5	63.2	62.9	63.2	63.5	64.1	64.7	65.4	66.7	67.6
70°	56.0	55.5	54.3	54.6	54.3	55.5	56.0	57.0	57.8	59.4	60.2
72.5°	47.2	46.8	46.5	46.2	46.5	46.8	47.2	48.1	48.9	50.7	52.0
75°	37.3	37.1	36.9	37.7	36.9	37.1	37.3	37.5	37.7	38.3	38.9
77.5°	29.9	29.9	30.0	29.7	30.0	29.9	29.9	29.9	29.9	30.2	30.3
80°	25.1	25.1	24.9	24.9	24.9	25.1	25.1	25.1	25.1	25.1	24.9
82.5°	20.1	20.2	20.4	20.1	20.4	20.2	20.1	20.4	20.6	20.2	20.4
85°	13.3	13.0	13.4	13.3	13.4	13.0	13.3	13.3	12.8	13.3	13.0
87.5°	11.5	11.5	11.6	11.5	11.6	11.5	11.5	11.5	11.0	10.8	10.4
90°	28.0	29.0	30.0	29.0	30.0	29.0	28.0	29.0	27.0	26.0	25.0
92.5°	52.0	49.0	50.0	48.2	50.0	49.0	52.0	53.8	59.0	66.8	84.2
95°	136.0	127.1	120.0	116.1	120.0	127.1	136.0	155.1	191.1	244.1	360.2
97.5°	396.6	351.5	324.5	315.9	324.5	351.5	396.6	470.4	590.0	719.0	897.7
100°	738.2	665.2	626.2	627.2	626.2	665.2	738.2	839.3	981.4	1098.4	1179.4
102.5°	1033.5	975.8	943.1	920.2	943.1	975.8	1033.5	1112.2	1202.2	1270.4	1273.1
105°	1347.5	1309.5	1277.5	1272.5	1277.5	1309.5	1347.5	1393.5	1419.5	1400.5	1300.5
107.5°	1508.1	1495.3	1484.5	1475.3	1484.5	1495.3	1508.1	1507.4	1471.7	1384.1	1221.6
110°	1554.5	1562.5	1560.6	1558.6	1560.6	1562.5	1554.5	1526.6	1456.6	1330.5	1146.4



TEST NUMBER: P332266-935

CATALOG NUMBER: S123RDIP-S340D1195U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1542.6	1567.4	1574.9	1575.4	1574.9	1567.4	1542.6	1491.3	1401.3	1260.1	1071.9
115°	1478.5	1522.5	1542.6	1547.6	1542.6	1522.5	1478.5	1403.5	1294.4	1147.4	973.4
117.5°	1373.1	1423.5	1452.3	1459.1	1452.3	1423.5	1373.1	1294.9	1184.2	1052.1	901.9
120°	1299.4	1355.5	1379.5	1385.5	1379.5	1355.5	1299.4	1220.5	1119.4	999.4	864.3
122.5°	1232.3	1282.6	1309.1	1316.6	1309.1	1282.6	1232.3	1162.0	1068.2	956.9	834.7
125°	1144.4	1188.4	1213.4	1220.5	1213.4	1188.4	1144.4	1080.4	1000.3	904.3	795.3
127.5°	1074.6	1112.2	1134.8	1141.2	1134.8	1112.2	1074.6	1017.5	944.7	858.1	760.9
130°	1031.4	1067.4	1088.4	1096.4	1088.4	1067.4	1031.4	978.4	910.3	829.3	739.3
132.5°	992.1	1028.1	1046.8	1052.4	1046.8	1028.1	992.1	942.4	877.5	802.1	719.3
135°	934.4	964.3	982.3	989.4	982.3	964.3	934.4	885.3	828.3	763.3	692.2
137.5°	872.5	902.9	918.1	922.7	918.1	902.9	872.5	831.3	781.9	725.8	667.6
140°	833.3	861.3	877.3	876.3	877.3	861.3	833.3	795.3	752.3	704.2	653.2
142.5°	794.9	819.7	834.1	833.1	834.1	819.7	794.9	762.5	725.0	683.5	639.6
145°	742.3	763.3	771.3	773.3	771.3	763.3	742.3	717.2	688.3	656.3	623.2
147.5°	701.5	715.7	723.2	724.0	723.2	715.7	701.5	682.4	661.9	636.0	609.8
150°	678.2	689.2	695.3	695.3	695.3	689.2	678.2	663.2	644.2	623.2	600.2
152.5°	657.5	667.6	671.2	671.2	671.2	667.6	657.5	645.7	629.8	611.2	591.4
155°	630.3	638.3	640.2	641.2	640.2	638.3	630.3	621.2	609.2	594.2	578.2
157.5°	606.4	612.4	614.0	613.8	614.0	612.4	606.4	598.6	589.2	577.6	564.2
160°	591.2	597.2	597.2	596.2	597.2	597.2	591.2	584.2	577.2	567.2	556.2
162.5°	576.0	581.2	581.2	580.2	581.2	581.2	576.0	571.4	565.2	556.0	546.6
165°	556.2	560.2	559.2	559.2	559.2	560.2	556.2	552.2	547.2	540.2	534.2
167.5°	537.4	540.2	539.2	539.2	539.2	540.2	537.4	535.6	532.0	528.0	523.4
170°	526.2	528.2	527.2	527.2	527.2	528.2	526.2	525.2	523.1	519.2	516.2
172.5°	516.6	518.6	516.8	516.0	516.8	518.6	516.6	516.3	515.2	512.0	509.8
175°	504.2	505.1	504.2	503.2	504.2	505.1	504.2	504.2	504.2	502.1	501.2
177.5°	496.5	497.4	495.8	495.8	495.8	497.4	496.5	497.4	497.4	496.5	495.8
180°	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2



TEST NUMBER: P332266-935

CATALOG NUMBER: S123RDIP-S340D1195U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6
2.5°	447.3	449.5	451.8	453.8	457.0	458.5	460.5	461.4	463.7	467.3	470.2
5°	420.1	423.3	427.5	430.8	436.3	440.5	445.1	449.5	454.8	462.2	468.8
7.5°	397.0	400.1	405.2	411.6	417.5	423.5	429.8	435.8	443.2	453.9	464.4
10°	381.8	385.6	391.6	398.4	405.8	411.6	419.0	426.6	435.9	448.2	460.8
12.5°	368.6	371.4	378.4	384.9	393.3	400.7	407.9	416.9	427.4	440.4	455.6
15°	347.7	351.6	358.4	365.7	374.5	382.4	391.8	402.6	412.8	428.9	447.3
17.5°	326.6	332.7	339.8	347.9	354.5	365.3	375.5	386.6	399.2	416.2	436.5
20°	313.1	318.0	324.6	336.4	345.0	353.3	362.7	376.5	388.1	407.4	428.4
22.5°	301.7	305.2	312.7	322.4	332.5	342.0	351.6	364.8	379.2	397.4	420.3
25°	284.8	290.5	296.1	303.1	313.9	325.4	335.8	347.1	362.3	381.8	406.4
27.5°	268.4	273.5	279.0	287.6	295.8	306.5	317.5	330.3	346.6	367.2	392.3
30°	257.8	261.6	266.8	277.8	285.2	294.5	307.3	318.7	334.0	355.9	382.4
32.5°	246.8	251.8	257.5	266.0	275.2	283.9	295.6	308.0	323.6	345.1	372.2
35°	231.3	237.1	242.9	249.2	258.4	267.4	277.2	290.8	306.7	327.6	354.2
37.5°	217.0	221.6	226.4	234.1	242.8	251.4	260.6	274.1	289.0	311.5	336.0
40°	207.8	212.1	215.7	223.7	232.1	241.3	250.4	262.2	278.2	299.3	323.0
42.5°	197.9	201.7	206.6	213.3	222.3	230.1	239.1	250.3	265.4	286.8	307.5
45°	183.0	187.4	191.6	197.8	206.8	214.5	222.5	233.1	248.6	266.2	284.6
47.5°	167.4	171.9	176.7	182.7	190.5	198.3	206.3	215.7	229.8	247.1	259.6
50°	157.5	161.1	165.9	171.9	179.2	187.4	194.6	204.8	218.3	231.9	242.7
52.5°	147.2	150.5	155.9	162.3	169.0	176.2	183.8	192.6	204.7	217.6	226.2
55°	131.2	135.2	139.8	146.0	152.7	158.7	166.1	175.1	184.8	194.4	200.2
57.5°	116.2	119.6	123.5	129.8	135.6	142.8	149.5	156.4	165.4	172.6	176.4
60°	105.3	108.3	113.3	119.0	124.3	130.6	138.2	145.3	152.1	157.9	160.8
62.5°	95.1	98.5	102.9	108.1	113.9	119.9	126.5	132.4	138.4	143.4	145.5
65°	81.6	84.5	87.6	92.5	97.3	103.3	108.5	114.5	119.0	121.7	123.6
67.5°	69.5	71.3	73.7	77.0	81.7	87.0	92.0	96.7	100.4	102.3	103.9
70°	61.6	62.8	64.6	67.8	71.4	76.0	81.3	84.6	87.8	89.5	91.1
72.5°	53.7	55.3	56.9	59.5	62.4	65.8	69.6	73.7	75.5	77.4	78.4
75°	40.7	43.0	45.1	46.8	48.7	51.3	54.8	57.3	58.4	60.0	60.2
77.5°	30.7	31.3	32.8	34.8	36.5	38.4	40.6	42.9	43.4	44.2	44.8
80°	25.3	25.3	25.3	26.5	28.5	29.9	31.9	33.1	33.9	34.1	34.3
82.5°	20.3	20.3	20.1	20.4	21.1	21.9	23.7	25.1	25.7	25.6	25.1
85°	13.3	12.8	12.8	12.7	12.8	12.4	12.2	13.0	14.2	14.2	13.9
87.5°	10.2	10.3	9.8	9.1	8.4	7.6	6.7	6.5	5.9	6.1	5.5
90°	24.0	25.0	22.0	19.0	16.0	13.0	11.0	9.0	6.0	4.0	2.0
92.5°	116.1	153.9	169.3	127.1	84.0	57.9	43.0	34.6	26.8	18.4	12.4
95°	481.1	593.2	528.2	364.1	215.1	130.0	91.0	65.0	48.0	37.0	34.0
97.5°	983.5	919.3	673.0	399.5	231.5	150.2	108.1	82.4	67.6	59.0	58.0
100°	1144.4	947.4	640.2	377.1	229.1	159.0	120.0	96.0	82.1	75.0	74.0
102.5°	1152.4	895.4	592.2	357.9	232.3	169.4	133.6	112.0	98.8	92.6	90.8
105°	1091.4	804.3	533.2	344.1	241.1	187.1	156.0	137.1	125.0	119.1	116.1
107.5°	984.6	723.8	495.6	343.1	257.5	210.1	181.2	163.4	151.6	145.9	142.8
110°	917.3	678.2	481.1	347.2	271.1	226.1	198.0	181.1	170.0	165.1	162.0



TEST NUMBER: P332266-935

CATALOG NUMBER: S123RDIP-S340D1195U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	858.9	647.8	473.2	355.2	284.7	242.9	215.7	198.6	187.7	182.7	179.7
115°	788.2	615.2	470.2	368.2	307.1	269.1	242.1	225.1	215.1	209.1	205.1
117.5°	745.6	596.0	472.0	385.3	330.9	293.3	268.3	249.3	240.0	235.1	230.5
120°	723.2	587.2	475.2	398.1	346.1	310.1	285.1	266.1	256.1	251.1	248.1
122.5°	704.8	581.6	480.8	410.2	362.1	326.9	300.3	282.1	271.3	266.3	263.3
125°	681.2	574.2	489.1	429.1	385.1	350.1	323.1	304.1	293.1	287.1	285.1
127.5°	660.5	570.6	498.8	444.8	405.1	371.3	344.3	323.3	312.1	304.7	301.7
130°	649.2	568.2	505.1	455.1	417.2	384.1	357.1	336.1	324.1	315.1	312.1
132.5°	638.9	567.4	510.0	464.8	427.6	395.4	369.1	348.1	333.7	323.9	320.1
135°	625.3	566.2	517.2	477.2	443.2	412.2	385.1	364.1	349.1	338.1	334.2
137.5°	613.4	564.0	522.0	486.4	453.9	424.1	399.2	378.3	362.3	351.5	347.3
140°	606.2	563.2	525.2	491.2	461.2	432.1	407.2	387.1	371.1	361.1	356.1
142.5°	599.8	561.6	527.6	495.9	466.7	438.6	415.2	395.1	380.7	370.0	365.8
145°	591.2	559.2	529.2	501.2	474.2	448.2	425.2	408.1	393.1	384.1	381.2
147.5°	582.8	555.4	529.2	504.4	480.2	456.3	436.8	420.3	407.3	398.6	396.7
150°	577.2	552.2	529.2	505.1	484.1	461.2	443.2	429.1	416.1	408.1	407.2
152.5°	570.8	548.2	526.8	506.8	486.6	466.7	449.5	437.1	425.8	417.8	417.6
155°	561.2	541.2	524.2	507.2	491.2	474.2	460.1	449.2	439.2	433.2	433.2
157.5°	550.4	535.0	520.8	508.2	493.8	480.2	469.3	459.9	451.2	446.3	445.6
160°	543.2	530.2	519.2	508.2	496.2	484.1	474.2	467.2	459.2	455.1	455.1
162.5°	536.0	525.4	516.0	507.4	497.0	486.6	478.2	472.0	465.5	462.4	462.4
165°	526.2	518.1	511.2	505.1	498.2	490.2	483.2	479.1	474.2	472.2	473.2
167.5°	516.8	511.0	506.4	503.6	498.0	492.1	487.8	485.0	481.1	480.2	481.4
170°	511.2	506.2	503.2	501.2	497.1	492.1	490.2	488.2	485.2	484.1	486.2
172.5°	505.6	502.1	500.8	500.4	497.1	493.0	491.8	490.6	488.4	488.2	489.4
175°	499.2	497.1	497.1	498.2	496.2	494.2	493.2	493.2	491.2	492.1	493.2
177.5°	495.0	494.2	495.0	496.5	495.0	494.2	494.2	494.2	493.4	494.2	495.0
180°	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2



TEST NUMBER: P332266-935

CATALOG NUMBER: S123RDIP-S340D1195U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6
2.5°	471.1	472.9	475.2	478.5	481.1	483.4	483.8	484.5	486.1	488.8	490.9
5°	474.2	478.8	486.2	493.4	501.3	507.7	513.8	518.0	521.9	530.4	537.2
7.5°	473.2	483.5	495.2	508.1	521.2	533.9	545.7	556.3	566.8	579.1	593.1
10°	472.6	484.7	500.3	516.9	535.2	553.0	570.3	583.8	599.3	613.5	631.3
12.5°	469.6	486.9	505.6	526.8	549.3	569.9	592.6	611.1	629.0	649.4	670.1
15°	465.5	486.6	510.3	538.6	572.7	597.5	620.9	653.2	675.2	697.2	726.9
17.5°	458.3	484.1	513.6	550.4	578.8	612.3	647.2	672.8	702.5	733.6	760.4
20°	452.5	482.4	515.6	551.6	588.0	624.2	658.1	688.6	719.4	755.3	777.3
22.5°	446.8	476.3	510.7	549.1	588.1	626.4	664.7	700.5	735.0	771.3	799.4
25°	434.5	469.6	506.9	546.0	584.5	626.6	672.4	712.3	755.0	792.4	819.1
27.5°	422.1	454.3	491.4	531.1	573.9	623.6	677.4	722.8	765.6	792.4	800.7
30°	410.8	444.9	479.1	519.4	565.7	621.2	678.4	730.4	765.4	777.1	768.4
32.5°	399.4	430.3	464.1	505.4	554.6	615.3	679.7	725.9	747.0	738.1	703.0
35°	379.4	407.2	439.9	481.2	537.8	612.0	674.4	705.7	700.5	650.3	584.1
37.5°	357.8	380.6	410.8	454.0	520.4	599.0	651.6	656.3	611.1	534.1	457.6
40°	340.8	361.3	392.4	437.5	506.9	586.2	628.7	610.0	540.0	454.3	390.5
42.5°	324.3	341.6	371.5	420.2	494.0	568.6	594.5	553.9	473.1	392.1	334.1
45°	296.3	312.5	342.6	392.5	467.8	535.2	531.8	461.2	380.3	315.1	267.0
47.5°	269.8	284.0	312.2	363.2	437.0	485.0	453.1	378.0	309.4	257.1	222.7
50°	251.0	265.0	293.1	343.5	412.2	447.3	401.8	329.4	266.6	223.3	196.0
52.5°	233.0	246.7	272.3	321.4	382.4	403.4	354.5	287.3	235.0	197.6	174.2
55°	207.8	218.3	241.3	288.3	333.8	338.6	289.0	232.9	189.8	163.7	147.7
57.5°	182.2	191.1	214.0	251.3	283.3	280.8	233.8	185.2	156.2	136.8	125.2
60°	165.5	174.4	194.4	226.4	250.6	242.1	199.0	159.9	135.0	120.8	111.5
62.5°	149.9	156.8	175.6	199.1	216.4	206.8	170.1	137.8	118.0	106.0	98.7
65°	127.3	133.0	148.0	160.3	169.9	160.7	130.2	107.7	93.5	85.1	80.1
67.5°	106.0	109.5	119.0	123.5	130.3	120.1	97.9	82.8	74.7	67.7	64.1
70°	92.5	95.1	100.1	103.8	105.5	95.1	78.6	67.6	60.8	55.8	53.6
72.5°	79.0	81.3	82.3	85.2	84.3	74.6	63.2	54.4	49.5	46.1	43.3
75°	60.4	61.4	60.4	59.2	56.6	49.8	41.9	37.5	33.9	32.3	31.3
77.5°	44.0	43.7	42.4	40.5	36.0	31.7	27.5	26.0	24.5	23.6	23.2
80°	33.9	33.1	31.9	28.8	25.1	22.0	21.1	20.1	19.5	18.4	18.3
82.5°	25.2	24.7	22.7	20.2	17.6	16.1	15.3	14.9	14.3	13.8	13.8
85°	13.4	12.8	10.6	9.2	8.9	8.4	8.3	8.3	7.4	7.2	7.2
87.5°	5.2	4.6	5.0	4.9	5.3	5.6	6.4	6.6	7.1	7.1	6.9
90°	4.0	6.0	9.0	11.0	13.0	16.0	19.0	22.0	25.0	24.0	25.0
92.5°	18.4	26.8	34.6	43.0	57.9	84.0	127.1	169.3	153.9	116.1	84.2
95°	37.0	48.0	65.0	91.0	130.0	215.1	364.1	528.2	593.2	481.1	360.2
97.5°	59.0	67.6	82.4	108.1	150.2	231.5	399.5	673.0	919.3	983.5	897.7
100°	75.0	82.1	96.0	120.0	159.0	229.1	377.1	640.2	947.4	1144.4	1179.4
102.5°	92.6	98.8	112.0	133.6	169.4	232.3	357.9	592.2	895.4	1152.4	1273.1
105°	119.1	125.0	137.1	156.0	187.1	241.1	344.1	533.2	804.3	1091.4	1300.5
107.5°	145.9	151.6	163.4	181.2	210.1	257.5	343.1	495.6	723.8	984.6	1221.6
110°	165.1	170.0	181.1	198.0	226.1	271.1	347.2	481.1	678.2	917.3	1146.4



TEST NUMBER: P332266-935

CATALOG NUMBER: S123RDIP-S340D1195U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	182.7	187.7	198.6	215.7	242.9	284.7	355.2	473.2	647.8	858.9	1071.9
115°	209.1	215.1	225.1	242.1	269.1	307.1	368.2	470.2	615.2	788.2	973.4
117.5°	235.1	240.0	249.3	268.3	293.3	330.9	385.3	472.0	596.0	745.6	901.9
120°	251.1	256.1	266.1	285.1	310.1	346.1	398.1	475.2	587.2	723.2	864.3
122.5°	266.3	271.3	282.1	300.3	326.9	362.1	410.2	480.8	581.6	704.8	834.7
125°	287.1	293.1	304.1	323.1	350.1	385.1	429.1	489.1	574.2	681.2	795.3
127.5°	304.7	312.1	323.3	344.3	371.3	405.1	444.8	498.8	570.6	660.5	760.9
130°	315.1	324.1	336.1	357.1	384.1	417.2	455.1	505.1	568.2	649.2	739.3
132.5°	323.9	333.7	348.1	369.1	395.4	427.6	464.8	510.0	567.4	638.9	719.3
135°	338.1	349.1	364.1	385.1	412.2	443.2	477.2	517.2	566.2	625.3	692.2
137.5°	351.5	362.3	378.3	399.2	424.1	453.9	486.4	522.0	564.0	613.4	667.6
140°	361.1	371.1	387.1	407.2	432.1	461.2	491.2	525.2	563.2	606.2	653.2
142.5°	370.0	380.7	395.1	415.2	438.6	466.7	495.9	527.6	561.6	599.8	639.6
145°	384.1	393.1	408.1	425.2	448.2	474.2	501.2	529.2	559.2	591.2	623.2
147.5°	398.6	407.3	420.3	436.8	456.3	480.2	504.4	529.2	555.4	582.8	609.8
150°	408.1	416.1	429.1	443.2	461.2	484.1	505.1	529.2	552.2	577.2	600.2
152.5°	417.8	425.8	437.1	449.5	466.7	486.6	506.8	526.8	548.2	570.8	591.4
155°	433.2	439.2	449.2	460.1	474.2	491.2	507.2	524.2	541.2	561.2	578.2
157.5°	446.3	451.2	459.9	469.3	480.2	493.8	508.2	520.8	535.0	550.4	564.2
160°	455.1	459.2	467.2	474.2	484.1	496.2	508.2	519.2	530.2	543.2	556.2
162.5°	462.4	465.5	472.0	478.2	486.6	497.0	507.4	516.0	525.4	536.0	546.6
165°	472.2	474.2	479.1	483.2	490.2	498.2	505.1	511.2	518.1	526.2	534.2
167.5°	480.2	481.1	485.0	487.8	492.1	498.0	503.6	506.4	511.0	516.8	523.4
170°	484.1	485.2	488.2	490.2	492.1	497.1	501.2	503.2	506.2	511.2	516.2
172.5°	488.2	488.4	490.6	491.8	493.0	497.1	500.4	500.8	502.1	505.6	509.8
175°	492.1	491.2	493.2	493.2	494.2	496.2	498.2	497.1	497.1	499.2	501.2
177.5°	494.2	493.4	494.2	494.2	494.2	495.0	496.5	495.0	494.2	495.0	495.8
180°	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	468.6	468.6	468.6	468.6	468.6	468.6	468.6
2.5°	494.3	494.3	494.9	497.3	497.7	499.7	499.1
5°	543.2	547.0	548.5	554.5	558.0	559.6	556.5
7.5°	603.0	613.8	618.9	625.3	630.8	632.5	628.1
10°	646.7	658.0	667.4	673.2	678.6	682.3	686.8
12.5°	688.9	702.7	711.7	719.9	725.5	730.0	730.8
15°	734.8	755.6	771.5	783.2	788.9	791.9	790.7
17.5°	781.0	800.4	811.7	823.5	831.6	832.0	832.2
20°	807.2	826.0	839.1	847.9	857.0	856.5	858.6
22.5°	824.7	839.6	849.5	855.9	859.0	857.5	857.9
25°	832.8	837.3	835.5	825.3	822.6	813.2	814.9
27.5°	790.7	769.8	748.2	720.5	698.5	681.1	681.9
30°	733.4	696.5	654.4	619.1	587.4	578.5	559.6
32.5°	653.3	598.0	548.6	515.7	488.5	481.1	464.7
35°	517.5	463.7	413.0	382.5	370.5	353.6	353.4
37.5°	402.3	354.9	328.1	305.2	293.3	283.0	282.1
40°	338.4	301.5	281.2	264.8	253.0	245.3	243.5
42.5°	293.8	264.0	245.0	234.8	225.7	221.7	218.8
45°	239.9	219.8	206.6	197.4	193.2	190.2	188.6
47.5°	200.7	187.3	178.2	172.0	168.7	165.5	166.3
50°	179.3	168.3	161.7	155.8	153.3	151.0	151.3
52.5°	162.1	152.2	146.9	142.7	139.5	137.8	137.2
55°	137.6	131.4	126.0	123.0	121.1	119.0	118.4
57.5°	117.4	112.5	108.1	104.8	104.3	102.2	102.5
60°	103.9	99.9	96.3	94.5	93.1	91.3	91.9
62.5°	92.8	89.5	86.2	84.7	83.3	82.0	82.2
65°	76.0	72.8	70.8	70.0	69.4	68.8	68.2
67.5°	60.6	58.6	57.3	55.6	54.4	54.2	53.6
70°	51.0	48.3	46.1	43.9	43.3	43.1	43.3
72.5°	40.8	39.2	38.6	37.5	37.4	36.9	37.2
75°	30.7	30.0	29.7	28.8	28.8	28.8	28.8
77.5°	22.6	22.3	22.0	21.9	21.7	21.4	21.4
80°	17.7	17.5	17.0	17.0	16.9	17.0	16.9
82.5°	13.3	13.3	12.9	12.9	12.7	12.6	12.7
85°	6.8	6.6	7.1	6.6	6.8	6.5	6.8
87.5°	7.1	7.3	7.6	7.4	7.4	7.9	7.4
90°	26.0	27.0	29.0	28.0	29.0	30.0	29.0
92.5°	66.8	59.0	53.8	52.0	49.0	50.0	48.2
95°	244.1	191.1	155.1	136.0	127.1	120.0	116.1
97.5°	719.0	590.0	470.4	396.6	351.5	324.5	315.9
100°	1098.4	981.4	839.3	738.2	665.2	626.2	627.2
102.5°	1270.4	1202.2	1112.2	1033.5	975.8	943.1	920.2
105°	1400.5	1419.5	1393.5	1347.5	1309.5	1277.5	1272.5
107.5°	1384.1	1471.7	1507.4	1508.1	1495.3	1484.5	1475.3
110°	1330.5	1456.6	1526.6	1554.5	1562.5	1560.6	1558.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1260.1	1401.3	1491.3	1542.6	1567.4	1574.9	1575.4
115°	1147.4	1294.4	1403.5	1478.5	1522.5	1542.6	1547.6
117.5°	1052.1	1184.2	1294.9	1373.1	1423.5	1452.3	1459.1
120°	999.4	1119.4	1220.5	1299.4	1355.5	1379.5	1385.5
122.5°	956.9	1068.2	1162.0	1232.3	1282.6	1309.1	1316.6
125°	904.3	1000.3	1080.4	1144.4	1188.4	1213.4	1220.5
127.5°	858.1	944.7	1017.5	1074.6	1112.2	1134.8	1141.2
130°	829.3	910.3	978.4	1031.4	1067.4	1088.4	1096.4
132.5°	802.1	877.5	942.4	992.1	1028.1	1046.8	1052.4
135°	763.3	828.3	885.3	934.4	964.3	982.3	989.4
137.5°	725.8	781.9	831.3	872.5	902.9	918.1	922.7
140°	704.2	752.3	795.3	833.3	861.3	877.3	876.3
142.5°	683.5	725.0	762.5	794.9	819.7	834.1	833.1
145°	656.3	688.3	717.2	742.3	763.3	771.3	773.3
147.5°	636.0	661.9	682.4	701.5	715.7	723.2	724.0
150°	623.2	644.2	663.2	678.2	689.2	695.3	695.3
152.5°	611.2	629.8	645.7	657.5	667.6	671.2	671.2
155°	594.2	609.2	621.2	630.3	638.3	640.2	641.2
157.5°	577.6	589.2	598.6	606.4	612.4	614.0	613.8
160°	567.2	577.2	584.2	591.2	597.2	597.2	596.2
162.5°	556.0	565.2	571.4	576.0	581.2	581.2	580.2
165°	540.2	547.2	552.2	556.2	560.2	559.2	559.2
167.5°	528.0	532.0	535.6	537.4	540.2	539.2	539.2
170°	519.2	523.1	525.2	526.2	528.2	527.2	527.2
172.5°	512.0	515.2	516.3	516.6	518.6	516.8	516.0
175°	502.1	504.2	504.2	504.2	505.1	504.2	503.2
177.5°	496.5	497.4	497.4	496.5	497.4	495.8	495.8
180°	494.2	494.2	494.2	494.2	494.2	494.2	494.2

(END OF REPORT)