

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: P332260-840

Luminaire Tested: **S123RDIP-S340D1025U840-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332260-840  
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-S340D1025U840-4F0-1E-UDD-A4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1025 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5118.7 lumens  
Efficiency: N/A  
Efficacy: 137.2 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

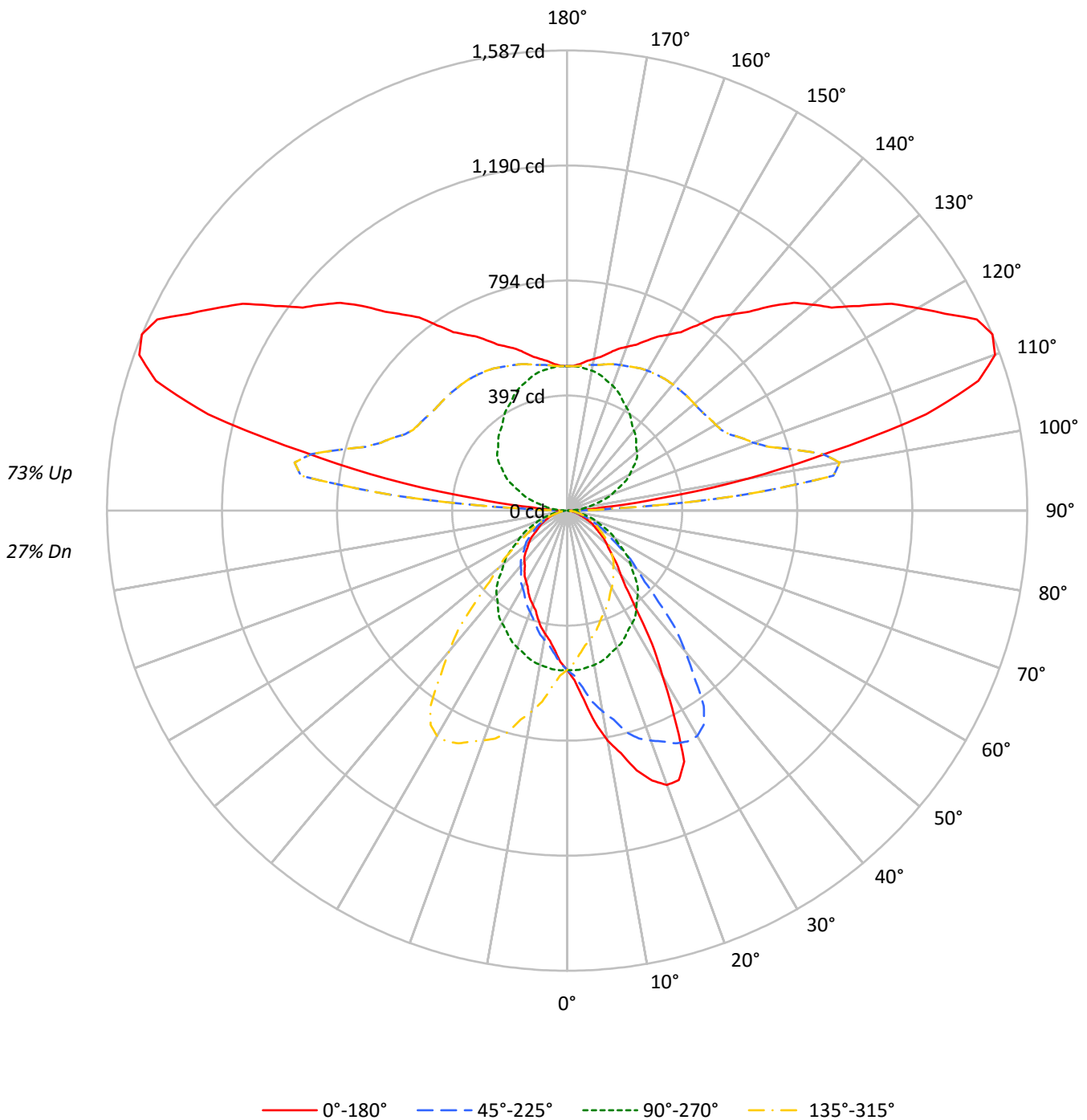
Input Watts (W): 37.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332260-840

CATALOG NUMBER: S123RDIP-S340D1025U840-4F0-1E-UDD-A4

### Luminous Intensity Polar Plot





TEST NUMBER: P332260-840

CATALOG NUMBER: S123RDIP-S340D1025U840-4F0-1E-UDD-A4

**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	102	102	102	102	91	91	91	91	70	70	70	52	52	52	35	35	35	27				
1	93	89	85	82	83	79	76	74	62	60	58	46	45	44	31	31	30	23				
2	85	78	72	67	76	70	65	61	55	51	49	41	39	37	28	27	26	20				
3	77	69	62	56	69	62	56	51	48	44	41	36	34	32	25	23	22	17				
4	71	61	53	48	63	55	48	44	43	39	35	32	30	27	22	21	19	15				
5	65	54	47	41	58	49	42	37	39	34	30	29	26	24	20	18	17	13				
6	60	49	41	35	53	44	37	32	35	30	27	26	23	21	18	17	15	12				
7	55	44	36	31	49	40	33	28	32	27	23	24	21	18	17	15	13	11				
8	51	40	32	27	46	36	29	25	29	24	21	22	19	16	16	14	12	10				
9	48	36	29	24	43	33	27	22	26	22	18	20	17	15	14	12	11	9				
10	44	33	26	22	40	30	24	20	24	20	17	19	15	13	13	11	10	8				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	5916	5916	5916	5916
5°	7052	5942	5232	5942
10°	8805	5908	4726	5908
15°	10336	5846	4310	5846
20°	11535	5756	3956	5756
25°	11351	5662	3739	5662
30°	8158	5574	3515	5574
35°	5447	5460	3369	5460
40°	4013	5323	3219	5323
45°	3367	5083	3073	5083
50°	2971	4767	2869	4767
55°	2607	4406	2586	4406
60°	2321	4060	2370	4060
65°	2038	3691	2203	3691
70°	1599	3361	2014	3361
75°	1406	2936	1838	2936
80°	1227	2492	1810	2492
85°	988	2013	1927	2013



TEST NUMBER: P332260-840

CATALOG NUMBER: S123RDIP-S340D1025U840-4F0-1E-UDD-A4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.0	1.1
10°-20°	168.9	3.3
20°-30°	265.3	5.2
30°-40°	276.8	5.4
40°-50°	236.9	4.6
50°-60°	180.5	3.5
60°-70°	115.7	2.3
70°-80°	55.7	1.1
80°-90°	18.6	0.4
90°-100°	277.1	5.4
100°-110°	784.7	15.3
110°-120°	771.9	15.1
120°-130°	615.7	12.0
130°-140°	485.5	9.5
140°-150°	362.3	7.1
150°-160°	252.5	4.9
160°-170°	148.4	2.9
170°-180°	48.3	0.9
0°-30°	488.2	9.5
0°-40°	764.9	14.9
0°-60°	1182.3	23.1
0°-90°	1372.3	26.8
90°-120°	1833.8	35.8
90°-150°	3297.3	64.4
90°-180°	3746.0	73.2
0°-180°	5118.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	550	550	550	550	550	
5°	653	550	484	550	653	67
15°	928	525	387	525	928	263
25°	956	477	315	477	956	411
35°	414	416	256	416	414	272
45°	221	334	202	334	221	174
55°	139	235	138	235	139	126
65°	80	145	86	145	80	79
75°	34	71	44	71	34	36
85°	8	16	16	16	8	10
90°	29	2	29	2	29	16
95°	117	34	117	34	117	211
105°	1282	117	1282	117	1282	1265
115°	1559	207	1559	207	1559	1515
125°	1230	287	1230	287	1230	1115
135°	997	337	997	337	997	773
145°	779	384	779	384	779	496
155°	646	436	646	436	646	301
165°	564	477	564	477	564	161
175°	507	497	507	497	507	49
180°	498	498	498	498	498	



TEST NUMBER: P332260-840

CATALOG NUMBER: S123RDIP-S340D1025U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6
2.5°	585.4	586.1	583.7	583.3	580.5	579.8	579.8	575.7	573.3	570.2	568.3
5°	652.7	656.4	654.5	650.4	643.3	641.6	637.1	630.1	622.1	612.2	607.5
7.5°	736.7	741.8	739.8	733.4	725.9	719.9	707.3	695.6	679.2	664.8	652.5
10°	805.6	800.2	796.0	789.6	782.7	771.7	758.5	740.4	719.5	703.0	684.7
12.5°	857.2	856.3	850.9	844.3	834.8	824.3	808.0	786.0	761.6	737.8	716.8
15°	927.5	928.9	925.3	918.6	904.8	886.3	861.8	852.6	817.8	791.9	766.1
17.5°	976.1	975.8	975.3	965.9	952.0	938.8	916.0	891.9	860.4	823.9	789.1
20°	1007.0	1004.6	1005.1	994.5	984.2	968.9	946.7	911.7	885.9	843.7	807.7
22.5°	1006.2	1005.7	1007.5	1003.9	996.4	984.7	967.2	937.7	904.6	862.1	821.6
25°	955.7	953.8	964.8	968.0	980.0	982.1	976.8	960.7	929.4	885.6	835.5
27.5°	799.8	798.8	819.3	845.1	877.6	902.9	927.4	939.2	929.4	898.0	847.8
30°	656.4	678.5	688.9	726.1	767.5	816.9	860.2	901.3	911.5	897.8	856.7
32.5°	545.0	564.3	573.0	604.8	643.5	701.4	766.3	824.6	865.8	876.2	851.4
35°	414.5	414.8	434.5	448.7	484.4	543.9	607.0	685.1	762.8	821.6	827.7
37.5°	330.8	331.9	344.0	358.0	384.9	416.3	471.8	536.7	626.4	716.7	769.7
40°	285.6	287.7	296.7	310.5	329.8	353.7	396.9	458.1	532.9	633.4	715.5
42.5°	256.6	260.0	264.7	275.4	287.3	309.6	344.6	391.8	459.9	554.9	649.6
45°	221.2	223.1	226.6	231.6	242.4	257.8	281.3	313.2	369.6	446.1	540.9
47.5°	195.1	194.1	197.8	201.8	209.0	219.6	235.4	261.3	301.5	362.9	443.3
50°	177.4	177.1	179.8	182.8	189.7	197.4	210.4	229.8	261.9	312.7	386.4
52.5°	160.9	161.7	163.6	167.3	172.3	178.5	190.2	204.3	231.8	275.6	337.0
55°	138.9	139.6	142.1	144.2	147.7	154.1	161.4	173.2	192.0	222.6	273.2
57.5°	120.2	119.9	122.3	122.9	126.8	132.0	137.6	146.8	160.5	183.2	217.2
60°	107.8	107.0	109.2	110.8	112.9	117.1	121.9	130.8	141.7	158.3	187.5
62.5°	96.4	96.1	97.7	99.4	101.1	104.9	108.9	115.7	124.3	138.4	161.6
65°	80.0	80.7	81.4	82.1	83.0	85.4	89.2	93.9	99.8	109.7	126.3
67.5°	62.9	63.6	63.8	65.2	67.3	68.8	71.1	75.2	79.4	87.7	97.1
70°	50.8	50.6	50.8	51.5	54.1	56.7	59.8	62.8	65.4	71.3	79.3
72.5°	43.6	43.2	43.8	44.0	45.2	45.9	47.9	50.8	54.1	58.1	63.8
75°	33.8	33.8	33.8	33.8	34.8	35.2	36.0	36.7	37.9	39.8	44.0
77.5°	25.0	25.0	25.4	25.7	25.9	26.2	26.6	27.3	27.7	28.7	30.5
80°	19.8	20.0	19.8	20.0	20.0	20.5	20.7	21.4	21.6	22.8	23.5
82.5°	14.8	14.7	14.8	15.1	15.1	15.6	15.7	16.2	16.2	16.8	17.5
85°	8.0	7.6	8.0	7.8	8.3	7.8	8.0	8.5	8.5	8.7	9.7
87.5°	7.8	8.3	7.8	7.7	7.9	7.7	7.5	7.3	7.5	7.5	7.1
90°	29.2	30.2	29.2	28.2	29.2	27.3	26.3	25.2	24.2	25.2	22.2
92.5°	48.6	50.4	49.4	52.4	54.2	59.5	67.4	84.8	116.9	155.0	170.6
95°	116.9	121.0	128.1	137.1	156.2	192.6	246.0	362.8	484.8	597.7	532.2
97.5°	318.3	327.0	354.3	399.6	473.9	594.5	724.6	904.6	991.1	926.3	678.2
100°	632.1	631.1	670.3	744.0	845.8	988.9	1106.8	1188.5	1153.2	954.6	645.1
102.5°	927.2	950.4	983.2	1041.5	1120.7	1211.4	1280.2	1282.8	1161.2	902.2	596.7
105°	1282.2	1287.3	1319.5	1357.8	1404.2	1430.4	1411.3	1310.4	1099.7	810.4	537.2
107.5°	1486.6	1495.9	1506.8	1519.7	1518.9	1483.0	1394.7	1231.0	992.1	729.4	499.4
110°	1570.5	1572.6	1574.6	1566.5	1538.2	1467.6	1340.7	1155.2	924.3	683.5	484.8



TEST NUMBER: P332260-840

CATALOG NUMBER: S123RDIP-S340D1025U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1587.4	1587.0	1579.3	1554.4	1502.8	1412.0	1269.7	1080.2	865.5	652.8	476.8
115°	1559.4	1554.4	1534.2	1489.9	1414.2	1304.3	1156.2	980.8	794.4	620.0	473.7
117.5°	1470.3	1463.5	1434.4	1383.6	1304.7	1193.3	1060.3	908.9	751.3	600.6	475.5
120°	1396.1	1390.1	1365.8	1309.4	1229.8	1128.0	1007.0	870.9	728.8	591.7	478.8
122.5°	1326.8	1319.1	1292.5	1241.7	1170.9	1076.4	964.3	841.1	710.2	586.0	484.4
125°	1229.8	1222.7	1197.5	1153.2	1088.6	1008.0	911.3	801.4	686.5	578.7	492.9
127.5°	1149.9	1143.5	1120.7	1082.8	1025.3	952.0	864.6	766.7	665.5	575.0	502.6
130°	1104.8	1096.7	1075.6	1039.3	985.8	917.3	835.7	745.0	654.2	572.6	509.1
132.5°	1060.5	1054.8	1036.0	999.8	949.6	884.2	808.2	724.8	643.7	571.8	513.9
135°	996.9	989.9	971.7	941.5	892.1	834.7	769.1	697.5	630.1	570.6	521.2
137.5°	929.8	925.1	909.9	879.2	837.7	787.9	731.4	672.8	618.1	568.4	525.9
140°	883.0	884.0	867.9	839.7	801.4	758.0	709.6	658.2	610.9	567.5	529.2
142.5°	839.5	840.5	826.0	801.0	768.3	730.6	688.7	644.5	604.4	565.9	531.6
145°	779.2	777.2	769.1	747.9	722.8	693.5	661.3	628.0	595.7	563.5	533.2
147.5°	729.6	728.8	721.1	706.8	687.7	666.9	640.9	614.5	587.2	559.7	533.2
150°	700.5	700.5	694.5	683.5	668.3	649.1	628.0	604.8	581.6	556.4	533.2
152.5°	676.4	676.4	672.8	662.5	650.6	634.7	615.9	595.9	575.2	552.4	530.8
155°	646.1	645.1	643.1	635.1	626.0	613.9	598.7	582.6	565.5	545.3	528.2
157.5°	618.5	618.7	617.1	611.1	603.2	593.7	582.0	568.6	554.6	539.1	524.8
160°	600.8	601.8	601.8	595.7	588.7	581.6	571.6	560.5	547.3	534.2	523.2
162.5°	584.6	585.6	585.6	580.5	575.8	569.6	560.3	550.8	540.1	529.4	520.0
165°	563.5	563.5	564.5	560.5	556.4	551.4	544.3	538.3	530.2	522.2	515.1
167.5°	543.3	543.3	544.3	541.5	539.7	536.0	532.0	527.4	520.8	514.9	510.3
170°	531.2	531.2	532.2	530.2	529.2	527.1	523.2	520.2	515.1	510.1	507.1
172.5°	520.0	520.8	522.6	520.6	520.4	519.2	515.9	513.7	509.5	506.0	504.6
175°	507.1	508.1	509.1	508.1	508.1	508.1	506.0	505.0	503.0	501.0	501.0
177.5°	499.6	499.6	501.2	500.4	501.2	501.2	500.4	499.6	498.8	498.0	498.8
180°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0



TEST NUMBER: P332260-840

CATALOG NUMBER: S123RDIP-S340D1025U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6
2.5°	567.4	566.9	564.3	561.3	557.3	554.7	552.6	551.5	548.1	543.9	541.2
5°	602.6	595.5	587.9	578.8	570.3	561.6	556.2	549.9	542.1	533.4	527.3
7.5°	640.1	626.2	611.4	595.9	580.8	567.1	555.0	544.7	532.4	519.9	511.2
10°	668.9	648.6	627.7	606.3	586.8	568.5	554.3	540.5	525.6	511.3	500.4
12.5°	695.1	668.4	644.3	617.9	593.0	571.1	550.8	534.4	516.5	501.3	489.0
15°	728.2	700.8	671.8	631.7	598.5	570.8	546.0	524.6	503.0	484.2	472.2
17.5°	759.1	718.1	678.8	645.5	602.4	567.7	537.6	512.0	488.2	468.3	453.4
20°	771.9	732.2	689.6	647.0	604.7	565.8	530.8	502.5	477.9	455.2	441.6
22.5°	779.6	734.7	689.7	644.0	599.1	558.7	524.0	492.9	466.2	444.7	427.9
25°	788.6	735.0	685.6	640.5	594.5	550.8	509.6	476.7	447.8	425.0	407.1
27.5°	794.6	731.4	673.1	622.9	576.3	532.8	495.0	460.1	430.7	406.6	387.4
30°	795.7	728.6	663.5	609.2	561.9	521.8	481.8	448.5	417.4	391.7	373.9
32.5°	797.2	721.6	650.5	592.8	544.3	504.7	468.5	436.6	404.8	379.5	361.2
35°	791.0	717.8	630.8	564.4	515.9	477.6	444.9	415.5	384.3	359.7	341.1
37.5°	764.3	702.6	610.4	532.5	481.8	446.4	419.7	394.0	365.4	338.9	321.4
40°	737.4	687.5	594.5	513.1	460.2	423.7	399.7	378.8	351.0	326.3	307.5
42.5°	697.3	666.9	579.5	492.8	435.8	400.6	380.3	360.7	336.4	311.2	293.6
45°	623.7	627.7	548.7	460.4	401.8	366.6	347.5	333.9	312.3	291.5	273.4
47.5°	531.5	568.9	512.5	426.0	366.2	333.1	316.4	304.5	289.8	269.5	253.0
50°	471.3	524.6	483.5	402.8	343.8	310.8	294.4	284.7	272.0	256.0	240.2
52.5°	415.8	473.1	448.5	377.0	319.4	289.3	273.3	265.3	255.2	240.1	225.9
55°	339.0	397.2	391.5	338.1	283.1	256.0	243.8	234.8	228.0	216.7	205.4
57.5°	274.3	329.3	332.2	294.8	251.0	224.2	213.7	206.9	202.5	194.0	183.5
60°	233.4	284.0	293.9	265.6	228.0	204.5	194.1	188.6	185.2	178.3	170.4
62.5°	199.5	242.6	253.8	233.5	206.0	183.9	175.8	170.7	168.2	162.4	155.3
65°	152.7	188.4	199.2	188.0	173.6	156.0	149.4	144.9	142.8	139.6	134.3
67.5°	114.8	140.9	152.8	144.8	139.6	128.5	124.3	121.9	120.0	117.8	113.4
70°	92.2	111.5	123.7	121.7	117.4	111.5	108.5	106.8	104.9	103.0	99.3
72.5°	74.1	87.5	98.9	100.0	96.5	95.3	92.6	91.9	90.8	88.6	86.4
75°	49.2	58.4	66.3	69.4	70.8	72.0	70.8	70.6	70.4	68.5	67.3
77.5°	32.2	37.2	42.2	47.5	49.7	51.2	51.6	52.5	51.8	50.9	50.3
80°	24.7	25.9	29.4	33.8	37.4	38.8	39.8	40.2	40.0	39.8	38.8
82.5°	18.0	18.9	20.6	23.7	26.7	29.0	29.6	29.5	30.0	30.2	29.4
85°	9.7	9.9	10.4	10.8	12.4	15.0	15.8	16.3	16.7	16.7	15.2
87.5°	6.9	6.1	5.9	5.5	5.6	5.2	5.9	6.5	7.0	6.7	7.3
90°	19.2	16.2	13.1	11.1	9.1	6.1	4.0	2.0	4.0	6.1	9.1
92.5°	128.1	84.6	58.3	43.3	34.8	27.1	18.6	12.5	18.6	27.1	34.8
95°	366.9	216.7	131.1	91.7	65.5	48.4	37.3	34.2	37.3	48.4	65.5
97.5°	402.6	233.3	151.4	108.9	83.0	68.2	59.5	58.5	59.5	68.2	83.0
100°	380.0	230.9	160.3	121.0	96.7	82.7	75.6	74.6	75.6	82.7	96.7
102.5°	360.6	234.1	170.8	134.7	112.9	99.6	93.3	91.5	93.3	99.6	112.9
105°	346.8	243.0	188.5	157.2	138.1	126.0	120.0	116.9	120.0	126.0	138.1
107.5°	345.8	259.4	211.7	182.7	164.7	152.8	146.9	143.9	146.9	152.8	164.7
110°	349.8	273.2	227.8	199.5	182.5	171.4	166.3	163.3	166.3	171.4	182.5





TEST NUMBER: P332260-840

CATALOG NUMBER: S123RDIP-S340D1025U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	357.9	286.9	244.8	217.3	200.2	189.1	184.1	181.1	184.1	189.1	200.2
115°	370.9	309.4	271.1	244.0	226.8	216.7	210.7	206.6	210.7	216.7	226.8
117.5°	388.3	333.5	295.6	270.3	251.2	242.0	236.9	232.3	236.9	242.0	251.2
120°	401.2	348.8	312.5	287.3	268.1	258.0	253.0	249.9	253.0	258.0	268.1
122.5°	413.3	364.9	329.4	302.7	284.3	273.4	268.3	265.3	268.3	273.4	284.3
125°	432.4	388.1	352.8	325.6	306.4	295.4	289.3	287.3	289.3	295.4	306.4
127.5°	448.2	408.3	374.2	347.0	325.8	314.5	307.0	304.1	307.0	314.5	325.8
130°	458.7	420.3	387.1	359.8	338.7	326.6	317.5	314.5	317.5	326.6	338.7
132.5°	468.4	430.8	398.4	371.9	350.8	336.3	326.4	322.6	326.4	336.3	350.8
135°	480.8	446.6	415.3	388.1	366.9	351.8	340.7	336.7	340.7	351.8	366.9
137.5°	490.1	457.5	427.4	402.2	381.2	365.1	354.3	350.0	354.3	365.1	381.2
140°	494.9	464.7	435.5	410.3	390.1	374.0	363.9	358.9	363.9	374.0	390.1
142.5°	499.8	470.4	441.9	418.3	398.2	383.6	372.7	368.5	372.7	383.6	398.2
145°	505.0	477.8	451.6	428.4	411.3	396.2	387.1	384.1	387.1	396.2	411.3
147.5°	508.3	483.8	459.9	440.1	423.5	410.5	401.6	399.8	401.6	410.5	423.5
150°	509.1	487.9	464.7	446.6	432.4	419.3	411.3	410.3	411.3	419.3	432.4
152.5°	510.7	490.3	470.4	453.0	440.5	429.0	420.9	420.7	420.9	429.0	440.5
155°	511.1	494.9	477.8	463.7	452.6	442.5	436.5	436.5	436.5	442.5	452.6
157.5°	512.1	497.6	483.8	472.9	463.5	454.6	449.8	449.0	449.8	454.6	463.5
160°	512.1	500.0	487.9	477.8	470.7	462.7	458.7	458.7	458.7	462.7	470.7
162.5°	511.3	500.8	490.3	481.8	475.5	469.2	466.0	466.0	466.0	469.2	475.5
165°	509.1	502.0	493.9	486.9	482.8	477.8	475.7	476.8	475.7	477.8	482.8
167.5°	507.5	501.8	495.9	491.5	488.7	484.8	483.8	485.0	483.8	484.8	488.7
170°	505.0	501.0	495.9	493.9	491.9	488.9	487.9	489.9	487.9	488.9	491.9
172.5°	504.2	501.0	496.8	495.5	494.3	492.1	491.9	493.1	491.9	492.1	494.3
175°	502.0	500.0	498.0	497.0	497.0	494.9	495.9	497.0	495.9	494.9	497.0
177.5°	500.4	498.8	498.0	498.0	498.0	497.2	498.0	498.8	498.0	497.2	498.0
180°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0



TEST NUMBER: P332260-840

CATALOG NUMBER: S123RDIP-S340D1025U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6
2.5°	540.2	537.8	536.0	532.3	529.9	527.3	524.6	526.2	526.0	525.9	525.9
5°	522.1	516.6	511.7	505.3	501.4	496.4	492.7	492.2	493.1	489.9	488.0
7.5°	504.1	496.8	489.7	482.7	475.2	469.3	465.6	463.8	461.5	459.5	457.4
10°	491.5	482.8	475.9	467.3	459.3	452.2	447.8	444.6	443.0	441.4	438.3
12.5°	478.5	470.0	461.3	451.4	443.8	435.7	432.3	428.9	425.8	423.8	419.7
15°	459.5	448.5	439.3	428.9	420.4	412.4	407.8	400.9	400.0	397.6	393.3
17.5°	440.4	428.5	415.8	408.1	398.6	390.2	383.0	380.8	374.1	371.5	367.8
20°	425.4	414.3	404.7	394.6	380.7	372.9	367.3	364.3	358.8	355.5	353.1
22.5°	412.4	401.1	390.0	378.2	366.8	358.0	353.9	349.1	346.2	341.5	339.0
25°	393.8	381.6	368.2	355.5	347.3	340.7	334.1	329.8	325.6	323.5	318.8
27.5°	372.3	359.5	347.0	337.3	327.2	320.7	314.8	311.0	305.9	302.4	299.7
30°	360.4	345.4	334.6	325.9	313.0	306.8	302.4	297.6	293.9	290.1	287.5
32.5°	346.7	333.0	322.8	311.9	302.1	295.3	289.5	285.4	282.2	278.6	276.0
35°	325.2	313.7	303.1	292.3	284.9	278.1	271.2	267.7	264.7	261.4	259.0
37.5°	305.7	294.9	284.8	274.6	265.5	259.9	254.5	251.8	247.6	245.4	243.1
40°	293.7	283.1	272.3	262.4	253.0	248.7	243.8	239.7	236.0	234.3	231.8
42.5°	280.4	269.8	260.7	250.1	242.4	236.6	232.1	227.7	224.9	222.5	221.1
45°	260.9	251.6	242.6	232.0	224.7	219.7	214.6	210.6	208.0	206.3	203.8
47.5°	242.0	232.6	223.5	214.3	207.2	201.6	196.3	193.6	190.2	188.1	186.4
50°	228.2	219.7	210.2	201.7	194.6	188.9	184.7	181.2	178.1	175.5	174.3
52.5°	215.6	206.6	198.2	190.4	182.9	176.5	172.7	169.0	166.6	163.7	162.3
55°	194.8	186.1	179.0	171.3	164.0	158.5	153.9	150.6	148.2	144.9	143.1
57.5°	175.3	167.4	159.1	152.3	144.8	140.3	136.3	131.9	129.0	126.4	124.5
60°	162.1	153.2	145.8	139.6	132.9	127.0	123.5	120.0	116.9	114.3	112.7
62.5°	148.3	140.6	133.6	126.7	120.7	115.5	111.5	108.6	105.8	104.2	102.5
65°	127.2	121.2	114.1	108.5	102.8	99.1	95.7	93.2	91.3	90.1	88.7
67.5°	107.9	102.0	95.8	90.3	86.4	83.6	81.5	79.3	78.3	76.7	75.8
70°	95.3	89.2	83.7	79.5	75.7	73.6	72.2	70.6	69.7	67.8	66.9
72.5°	81.6	77.2	73.2	69.8	66.8	64.8	63.0	61.0	59.5	57.4	56.5
75°	64.2	60.2	57.2	54.8	52.9	50.4	47.8	45.6	44.9	44.2	44.0
77.5°	47.6	45.0	42.8	40.8	38.5	36.7	36.1	35.5	35.4	35.0	35.0
80°	37.4	35.0	33.4	31.1	29.7	29.7	29.7	29.2	29.4	29.4	29.4
82.5°	27.8	25.7	24.7	23.9	23.6	23.8	23.8	23.9	23.7	24.1	23.9
85°	14.3	14.5	15.0	14.8	15.0	15.0	15.6	15.2	15.6	15.0	15.6
87.5°	7.5	8.5	9.3	10.0	10.8	11.2	11.2	11.4	11.8	12.0	12.4
90°	11.1	13.1	16.2	19.2	22.2	25.2	24.2	25.2	26.3	27.3	29.2
92.5°	43.3	58.3	84.6	128.1	170.6	155.0	116.9	84.8	67.4	59.5	54.2
95°	91.7	131.1	216.7	366.9	532.2	597.7	484.8	362.8	246.0	192.6	156.2
97.5°	108.9	151.4	233.3	402.6	678.2	926.3	991.1	904.6	724.6	594.5	473.9
100°	121.0	160.3	230.9	380.0	645.1	954.6	1153.2	1188.5	1106.8	988.9	845.8
102.5°	134.7	170.8	234.1	360.6	596.7	902.2	1161.2	1282.8	1280.2	1211.4	1120.7
105°	157.2	188.5	243.0	346.8	537.2	810.4	1099.7	1310.4	1411.3	1430.4	1404.2
107.5°	182.7	211.7	259.4	345.8	499.4	729.4	992.1	1231.0	1394.7	1483.0	1518.9
110°	199.5	227.8	273.2	349.8	484.8	683.5	924.3	1155.2	1340.7	1467.6	1538.2



TEST NUMBER: P332260-840

CATALOG NUMBER: S123RDIP-S340D1025U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	217.3	244.8	286.9	357.9	476.8	652.8	865.5	1080.2	1269.7	1412.0	1502.8
115°	244.0	271.1	309.4	370.9	473.7	620.0	794.4	980.8	1156.2	1304.3	1414.2
117.5°	270.3	295.6	333.5	388.3	475.5	600.6	751.3	908.9	1060.3	1193.3	1304.7
120°	287.3	312.5	348.8	401.2	478.8	591.7	728.8	870.9	1007.0	1128.0	1229.8
122.5°	302.7	329.4	364.9	413.3	484.4	586.0	710.2	841.1	964.3	1076.4	1170.9
125°	325.6	352.8	388.1	432.4	492.9	578.7	686.5	801.4	911.3	1008.0	1088.6
127.5°	347.0	374.2	408.3	448.2	502.6	575.0	665.5	766.7	864.6	952.0	1025.3
130°	359.8	387.1	420.3	458.7	509.1	572.6	654.2	745.0	835.7	917.3	985.8
132.5°	371.9	398.4	430.8	468.4	513.9	571.8	643.7	724.8	808.2	884.2	949.6
135°	388.1	415.3	446.6	480.8	521.2	570.6	630.1	697.5	769.1	834.7	892.1
137.5°	402.2	427.4	457.5	490.1	525.9	568.4	618.1	672.8	731.4	787.9	837.7
140°	410.3	435.5	464.7	494.9	529.2	567.5	610.9	658.2	709.6	758.0	801.4
142.5°	418.3	441.9	470.4	499.8	531.6	565.9	604.4	644.5	688.7	730.6	768.3
145°	428.4	451.6	477.8	505.0	533.2	563.5	595.7	628.0	661.3	693.5	722.8
147.5°	440.1	459.9	483.8	508.3	533.2	559.7	587.2	614.5	640.9	666.9	687.7
150°	446.6	464.7	487.9	509.1	533.2	556.4	581.6	604.8	628.0	649.1	668.3
152.5°	453.0	470.4	490.3	510.7	530.8	552.4	575.2	595.9	615.9	634.7	650.6
155°	463.7	477.8	494.9	511.1	528.2	545.3	565.5	582.6	598.7	613.9	626.0
157.5°	472.9	483.8	497.6	512.1	524.8	539.1	554.6	568.6	582.0	593.7	603.2
160°	477.8	487.9	500.0	512.1	523.2	534.2	547.3	560.5	571.6	581.6	588.7
162.5°	481.8	490.3	500.8	511.3	520.0	529.4	540.1	550.8	560.3	569.6	575.8
165°	486.9	493.9	502.0	509.1	515.1	522.2	530.2	538.3	544.3	551.4	556.4
167.5°	491.5	495.9	501.8	507.5	510.3	514.9	520.8	527.4	532.0	536.0	539.7
170°	493.9	495.9	501.0	505.0	507.1	510.1	515.1	520.2	523.2	527.1	529.2
172.5°	495.5	496.8	501.0	504.2	504.6	506.0	509.5	513.7	515.9	519.2	520.4
175°	497.0	498.0	500.0	502.0	501.0	501.0	503.0	505.0	506.0	508.1	508.1
177.5°	498.0	498.0	498.8	500.4	498.8	498.0	498.8	499.6	500.4	501.2	501.2
180°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0



TEST NUMBER: P332260-840

CATALOG NUMBER: S123RDIP-S340D1025U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6
2.5°	523.6	523.4	523.6	522.9	523.6	523.4	523.6	525.9	525.9	526.0	526.2
5°	487.3	487.1	486.4	484.2	486.4	487.1	487.3	488.0	489.9	493.1	492.2
7.5°	455.4	455.1	453.1	453.1	453.1	455.1	455.4	457.4	459.5	461.5	463.8
10°	436.7	436.9	434.0	432.4	434.0	436.9	436.7	438.3	441.4	443.0	444.6
12.5°	418.4	417.4	415.1	413.2	415.1	417.4	418.4	419.7	423.8	425.8	428.9
15°	394.4	391.9	386.4	386.8	386.4	391.9	394.4	393.3	397.6	400.0	400.9
17.5°	366.0	364.3	364.2	360.8	364.2	364.3	366.0	367.8	371.5	374.1	380.8
20°	349.4	348.2	348.7	345.4	348.7	348.2	349.4	353.1	355.5	358.8	364.3
22.5°	336.4	335.2	333.3	332.2	333.3	335.2	336.4	339.0	341.5	346.2	349.1
25°	317.4	315.5	313.7	314.8	313.7	315.5	317.4	318.8	323.5	325.6	329.8
27.5°	298.4	297.0	295.1	294.9	295.1	297.0	298.4	299.7	302.4	305.9	311.0
30°	286.3	284.9	284.0	282.8	284.0	284.9	286.3	287.5	290.1	293.9	297.6
32.5°	274.1	273.8	272.2	271.9	272.2	273.8	274.1	276.0	278.6	282.2	285.4
35°	258.1	256.7	256.2	256.4	256.2	256.7	258.1	259.0	261.4	264.7	267.7
37.5°	242.9	241.1	240.1	239.3	240.1	241.1	242.9	243.1	245.4	247.6	251.8
40°	232.0	230.1	229.6	229.1	229.6	230.1	232.0	231.8	234.3	236.0	239.7
42.5°	219.7	219.0	218.7	217.8	218.7	219.0	219.7	221.1	222.5	224.9	227.7
45°	203.1	202.8	201.4	201.9	201.4	202.8	203.1	203.8	206.3	208.0	210.6
47.5°	185.4	184.4	183.4	184.1	183.4	184.4	185.4	186.4	188.1	190.2	193.6
50°	173.4	172.9	170.8	171.3	170.8	172.9	173.4	174.3	175.5	178.1	181.2
52.5°	161.4	159.6	158.8	158.4	158.8	159.6	161.4	162.3	163.7	166.6	169.0
55°	141.4	139.3	138.4	137.8	138.4	139.3	141.4	143.1	144.9	148.2	150.6
57.5°	121.8	121.3	120.5	121.0	120.5	121.3	121.8	124.5	126.4	129.0	131.9
60°	110.4	110.4	110.4	110.1	110.4	110.4	110.4	112.7	114.3	116.9	120.0
62.5°	101.5	100.9	100.8	101.1	100.8	100.9	101.5	102.5	104.2	105.8	108.6
65°	88.0	87.8	86.8	86.5	86.8	87.8	88.0	88.7	90.1	91.3	93.2
67.5°	75.2	74.4	74.1	73.8	74.1	74.4	75.2	75.8	76.7	78.3	79.3
70°	65.6	65.1	63.7	64.0	63.7	65.1	65.6	66.9	67.8	69.7	70.6
72.5°	55.3	54.8	54.5	54.2	54.5	54.8	55.3	56.5	57.4	59.5	61.0
75°	43.7	43.5	43.3	44.2	43.3	43.5	43.7	44.0	44.2	44.9	45.6
77.5°	35.0	35.0	35.2	34.8	35.2	35.0	35.0	35.0	35.0	35.4	35.5
80°	29.4	29.4	29.2	29.2	29.2	29.4	29.4	29.4	29.4	29.4	29.2
82.5°	23.5	23.7	23.9	23.5	23.9	23.7	23.5	23.9	24.1	23.7	23.9
85°	15.6	15.2	15.8	15.6	15.8	15.2	15.6	15.6	15.0	15.6	15.2
87.5°	12.6	12.4	12.6	12.6	12.6	12.4	12.6	12.4	12.0	11.8	11.4
90°	28.2	29.2	30.2	29.2	30.2	29.2	28.2	29.2	27.3	26.3	25.2
92.5°	52.4	49.4	50.4	48.6	50.4	49.4	52.4	54.2	59.5	67.4	84.8
95°	137.1	128.1	121.0	116.9	121.0	128.1	137.1	156.2	192.6	246.0	362.8
97.5°	399.6	354.3	327.0	318.3	327.0	354.3	399.6	473.9	594.5	724.6	904.6
100°	744.0	670.3	631.1	632.1	631.1	670.3	744.0	845.8	988.9	1106.8	1188.5
102.5°	1041.5	983.2	950.4	927.2	950.4	983.2	1041.5	1120.7	1211.4	1280.2	1282.8
105°	1357.8	1319.5	1287.3	1282.2	1287.3	1319.5	1357.8	1404.2	1430.4	1411.3	1310.4
107.5°	1519.7	1506.8	1495.9	1486.6	1495.9	1506.8	1519.7	1518.9	1483.0	1394.7	1231.0
110°	1566.5	1574.6	1572.6	1570.5	1572.6	1574.6	1566.5	1538.2	1467.6	1340.7	1155.2



TEST NUMBER: P332260-840

CATALOG NUMBER: S123RDIP-S340D1025U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1554.4	1579.3	1587.0	1587.4	1587.0	1579.3	1554.4	1502.8	1412.0	1269.7	1080.2
115°	1489.9	1534.2	1554.4	1559.4	1554.4	1534.2	1489.9	1414.2	1304.3	1156.2	980.8
117.5°	1383.6	1434.4	1463.5	1470.3	1463.5	1434.4	1383.6	1304.7	1193.3	1060.3	908.9
120°	1309.4	1365.8	1390.1	1396.1	1390.1	1365.8	1309.4	1229.8	1128.0	1007.0	870.9
122.5°	1241.7	1292.5	1319.1	1326.8	1319.1	1292.5	1241.7	1170.9	1076.4	964.3	841.1
125°	1153.2	1197.5	1222.7	1229.8	1222.7	1197.5	1153.2	1088.6	1008.0	911.3	801.4
127.5°	1082.8	1120.7	1143.5	1149.9	1143.5	1120.7	1082.8	1025.3	952.0	864.6	766.7
130°	1039.3	1075.6	1096.7	1104.8	1096.7	1075.6	1039.3	985.8	917.3	835.7	745.0
132.5°	999.8	1036.0	1054.8	1060.5	1054.8	1036.0	999.8	949.6	884.2	808.2	724.8
135°	941.5	971.7	989.9	996.9	989.9	971.7	941.5	892.1	834.7	769.1	697.5
137.5°	879.2	909.9	925.1	929.8	925.1	909.9	879.2	837.7	787.9	731.4	672.8
140°	839.7	867.9	884.0	883.0	884.0	867.9	839.7	801.4	758.0	709.6	658.2
142.5°	801.0	826.0	840.5	839.5	840.5	826.0	801.0	768.3	730.6	688.7	644.5
145°	747.9	769.1	777.2	779.2	777.2	769.1	747.9	722.8	693.5	661.3	628.0
147.5°	706.8	721.1	728.8	729.6	728.8	721.1	706.8	687.7	666.9	640.9	614.5
150°	683.5	694.5	700.5	700.5	700.5	694.5	683.5	668.3	649.1	628.0	604.8
152.5°	662.5	672.8	676.4	676.4	676.4	672.8	662.5	650.6	634.7	615.9	595.9
155°	635.1	643.1	645.1	646.1	645.1	643.1	635.1	626.0	613.9	598.7	582.6
157.5°	611.1	617.1	618.7	618.5	618.7	617.1	611.1	603.2	593.7	582.0	568.6
160°	595.7	601.8	601.8	600.8	601.8	601.8	595.7	588.7	581.6	571.6	560.5
162.5°	580.5	585.6	585.6	584.6	585.6	585.6	580.5	575.8	569.6	560.3	550.8
165°	560.5	564.5	563.5	563.5	563.5	564.5	560.5	556.4	551.4	544.3	538.3
167.5°	541.5	544.3	543.3	543.3	543.3	544.3	541.5	539.7	536.0	532.0	527.4
170°	530.2	532.2	531.2	531.2	531.2	532.2	530.2	529.2	527.1	523.2	520.2
172.5°	520.6	522.6	520.8	520.0	520.8	522.6	520.6	520.4	519.2	515.9	513.7
175°	508.1	509.1	508.1	507.1	508.1	509.1	508.1	508.1	508.1	506.0	505.0
177.5°	500.4	501.2	499.6	499.6	499.6	501.2	500.4	501.2	501.2	500.4	499.6
180°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0



TEST NUMBER: P332260-840

CATALOG NUMBER: S123RDIP-S340D1025U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6
2.5°	524.6	527.3	529.9	532.3	536.0	537.8	540.2	541.2	543.9	548.1	551.5
5°	492.7	496.4	501.4	505.3	511.7	516.6	522.1	527.3	533.4	542.1	549.9
7.5°	465.6	469.3	475.2	482.7	489.7	496.8	504.1	511.2	519.9	532.4	544.7
10°	447.8	452.2	459.3	467.3	475.9	482.8	491.5	500.4	511.3	525.6	540.5
12.5°	432.3	435.7	443.8	451.4	461.3	470.0	478.5	489.0	501.3	516.5	534.4
15°	407.8	412.4	420.4	428.9	439.3	448.5	459.5	472.2	484.2	503.0	524.6
17.5°	383.0	390.2	398.6	408.1	415.8	428.5	440.4	453.4	468.3	488.2	512.0
20°	367.3	372.9	380.7	394.6	404.7	414.3	425.4	441.6	455.2	477.9	502.5
22.5°	353.9	358.0	366.8	378.2	390.0	401.1	412.4	427.9	444.7	466.2	492.9
25°	334.1	340.7	347.3	355.5	368.2	381.6	393.8	407.1	425.0	447.8	476.7
27.5°	314.8	320.7	327.2	337.3	347.0	359.5	372.3	387.4	406.6	430.7	460.1
30°	302.4	306.8	313.0	325.9	334.6	345.4	360.4	373.9	391.7	417.4	448.5
32.5°	289.5	295.3	302.1	311.9	322.8	333.0	346.7	361.2	379.5	404.8	436.6
35°	271.2	278.1	284.9	292.3	303.1	313.7	325.2	341.1	359.7	384.3	415.5
37.5°	254.5	259.9	265.5	274.6	284.8	294.9	305.7	321.4	338.9	365.4	394.0
40°	243.8	248.7	253.0	262.4	272.3	283.1	293.7	307.5	326.3	351.0	378.8
42.5°	232.1	236.6	242.4	250.1	260.7	269.8	280.4	293.6	311.2	336.4	360.7
45°	214.6	219.7	224.7	232.0	242.6	251.6	260.9	273.4	291.5	312.3	333.9
47.5°	196.3	201.6	207.2	214.3	223.5	232.6	242.0	253.0	269.5	289.8	304.5
50°	184.7	188.9	194.6	201.7	210.2	219.7	228.2	240.2	256.0	272.0	284.7
52.5°	172.7	176.5	182.9	190.4	198.2	206.6	215.6	225.9	240.1	255.2	265.3
55°	153.9	158.5	164.0	171.3	179.0	186.1	194.8	205.4	216.7	228.0	234.8
57.5°	136.3	140.3	144.8	152.3	159.1	167.4	175.3	183.5	194.0	202.5	206.9
60°	123.5	127.0	132.9	139.6	145.8	153.2	162.1	170.4	178.3	185.2	188.6
62.5°	111.5	115.5	120.7	126.7	133.6	140.6	148.3	155.3	162.4	168.2	170.7
65°	95.7	99.1	102.8	108.5	114.1	121.2	127.2	134.3	139.6	142.8	144.9
67.5°	81.5	83.6	86.4	90.3	95.8	102.0	107.9	113.4	117.8	120.0	121.9
70°	72.2	73.6	75.7	79.5	83.7	89.2	95.3	99.3	103.0	104.9	106.8
72.5°	63.0	64.8	66.8	69.8	73.2	77.2	81.6	86.4	88.6	90.8	91.9
75°	47.8	50.4	52.9	54.8	57.2	60.2	64.2	67.3	68.5	70.4	70.6
77.5°	36.1	36.7	38.5	40.8	42.8	45.0	47.6	50.3	50.9	51.8	52.5
80°	29.7	29.7	29.7	31.1	33.4	35.0	37.4	38.8	39.8	40.0	40.2
82.5°	23.8	23.8	23.6	23.9	24.7	25.7	27.8	29.4	30.2	30.0	29.5
85°	15.6	15.0	15.0	14.8	15.0	14.5	14.3	15.2	16.7	16.7	16.3
87.5°	11.2	11.2	10.8	10.0	9.3	8.5	7.5	7.3	6.7	7.0	6.5
90°	24.2	25.2	22.2	19.2	16.2	13.1	11.1	9.1	6.1	4.0	2.0
92.5°	116.9	155.0	170.6	128.1	84.6	58.3	43.3	34.8	27.1	18.6	12.5
95°	484.8	597.7	532.2	366.9	216.7	131.1	91.7	65.5	48.4	37.3	34.2
97.5°	991.1	926.3	678.2	402.6	233.3	151.4	108.9	83.0	68.2	59.5	58.5
100°	1153.2	954.6	645.1	380.0	230.9	160.3	121.0	96.7	82.7	75.6	74.6
102.5°	1161.2	902.2	596.7	360.6	234.1	170.8	134.7	112.9	99.6	93.3	91.5
105°	1099.7	810.4	537.2	346.8	243.0	188.5	157.2	138.1	126.0	120.0	116.9
107.5°	992.1	729.4	499.4	345.8	259.4	211.7	182.7	164.7	152.8	146.9	143.9
110°	924.3	683.5	484.8	349.8	273.2	227.8	199.5	182.5	171.4	166.3	163.3



TEST NUMBER: P332260-840

CATALOG NUMBER: S123RDIP-S340D1025U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	865.5	652.8	476.8	357.9	286.9	244.8	217.3	200.2	189.1	184.1	181.1
115°	794.4	620.0	473.7	370.9	309.4	271.1	244.0	226.8	216.7	210.7	206.6
117.5°	751.3	600.6	475.5	388.3	333.5	295.6	270.3	251.2	242.0	236.9	232.3
120°	728.8	591.7	478.8	401.2	348.8	312.5	287.3	268.1	258.0	253.0	249.9
122.5°	710.2	586.0	484.4	413.3	364.9	329.4	302.7	284.3	273.4	268.3	265.3
125°	686.5	578.7	492.9	432.4	388.1	352.8	325.6	306.4	295.4	289.3	287.3
127.5°	665.5	575.0	502.6	448.2	408.3	374.2	347.0	325.8	314.5	307.0	304.1
130°	654.2	572.6	509.1	458.7	420.3	387.1	359.8	338.7	326.6	317.5	314.5
132.5°	643.7	571.8	513.9	468.4	430.8	398.4	371.9	350.8	336.3	326.4	322.6
135°	630.1	570.6	521.2	480.8	446.6	415.3	388.1	366.9	351.8	340.7	336.7
137.5°	618.1	568.4	525.9	490.1	457.5	427.4	402.2	381.2	365.1	354.3	350.0
140°	610.9	567.5	529.2	494.9	464.7	435.5	410.3	390.1	374.0	363.9	358.9
142.5°	604.4	565.9	531.6	499.8	470.4	441.9	418.3	398.2	383.6	372.7	368.5
145°	595.7	563.5	533.2	505.0	477.8	451.6	428.4	411.3	396.2	387.1	384.1
147.5°	587.2	559.7	533.2	508.3	483.8	459.9	440.1	423.5	410.5	401.6	399.8
150°	581.6	556.4	533.2	509.1	487.9	464.7	446.6	432.4	419.3	411.3	410.3
152.5°	575.2	552.4	530.8	510.7	490.3	470.4	453.0	440.5	429.0	420.9	420.7
155°	565.5	545.3	528.2	511.1	494.9	477.8	463.7	452.6	442.5	436.5	436.5
157.5°	554.6	539.1	524.8	512.1	497.6	483.8	472.9	463.5	454.6	449.8	449.0
160°	547.3	534.2	523.2	512.1	500.0	487.9	477.8	470.7	462.7	458.7	458.7
162.5°	540.1	529.4	520.0	511.3	500.8	490.3	481.8	475.5	469.2	466.0	466.0
165°	530.2	522.2	515.1	509.1	502.0	493.9	486.9	482.8	477.8	475.7	476.8
167.5°	520.8	514.9	510.3	507.5	501.8	495.9	491.5	488.7	484.8	483.8	485.0
170°	515.1	510.1	507.1	505.0	501.0	495.9	493.9	491.9	488.9	487.9	489.9
172.5°	509.5	506.0	504.6	504.2	501.0	496.8	495.5	494.3	492.1	491.9	493.1
175°	503.0	501.0	501.0	502.0	500.0	498.0	497.0	497.0	494.9	495.9	497.0
177.5°	498.8	498.0	498.8	500.4	498.8	498.0	498.0	498.0	497.2	498.0	498.8
180°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0



TEST NUMBER: P332260-840

CATALOG NUMBER: S123RDIP-S340D1025U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6
2.5°	552.6	554.7	557.3	561.3	564.3	566.9	567.4	568.3	570.2	573.3	575.7
5°	556.2	561.6	570.3	578.8	587.9	595.5	602.6	607.5	612.2	622.1	630.1
7.5°	555.0	567.1	580.8	595.9	611.4	626.2	640.1	652.5	664.8	679.2	695.6
10°	554.3	568.5	586.8	606.3	627.7	648.6	668.9	684.7	703.0	719.5	740.4
12.5°	550.8	571.1	593.0	617.9	644.3	668.4	695.1	716.8	737.8	761.6	786.0
15°	546.0	570.8	598.5	631.7	671.8	700.8	728.2	766.1	791.9	817.8	852.6
17.5°	537.6	567.7	602.4	645.5	678.8	718.1	759.1	789.1	823.9	860.4	891.9
20°	530.8	565.8	604.7	647.0	689.6	732.2	771.9	807.7	843.7	885.9	911.7
22.5°	524.0	558.7	599.1	644.0	689.7	734.7	779.6	821.6	862.1	904.6	937.7
25°	509.6	550.8	594.5	640.5	685.6	735.0	788.6	835.5	885.6	929.4	960.7
27.5°	495.0	532.8	576.3	622.9	673.1	731.4	794.6	847.8	898.0	929.4	939.2
30°	481.8	521.8	561.9	609.2	663.5	728.6	795.7	856.7	897.8	911.5	901.3
32.5°	468.5	504.7	544.3	592.8	650.5	721.6	797.2	851.4	876.2	865.8	824.6
35°	444.9	477.6	515.9	564.4	630.8	717.8	791.0	827.7	821.6	762.8	685.1
37.5°	419.7	446.4	481.8	532.5	610.4	702.6	764.3	769.7	716.7	626.4	536.7
40°	399.7	423.7	460.2	513.1	594.5	687.5	737.4	715.5	633.4	532.9	458.1
42.5°	380.3	400.6	435.8	492.8	579.5	666.9	697.3	649.6	554.9	459.9	391.8
45°	347.5	366.6	401.8	460.4	548.7	627.7	623.7	540.9	446.1	369.6	313.2
47.5°	316.4	333.1	366.2	426.0	512.5	568.9	531.5	443.3	362.9	301.5	261.3
50°	294.4	310.8	343.8	402.8	483.5	524.6	471.3	386.4	312.7	261.9	229.8
52.5°	273.3	289.3	319.4	377.0	448.5	473.1	415.8	337.0	275.6	231.8	204.3
55°	243.8	256.0	283.1	338.1	391.5	397.2	339.0	273.2	222.6	192.0	173.2
57.5°	213.7	224.2	251.0	294.8	332.2	329.3	274.3	217.2	183.2	160.5	146.8
60°	194.1	204.5	228.0	265.6	293.9	284.0	233.4	187.5	158.3	141.7	130.8
62.5°	175.8	183.9	206.0	233.5	253.8	242.6	199.5	161.6	138.4	124.3	115.7
65°	149.4	156.0	173.6	188.0	199.2	188.4	152.7	126.3	109.7	99.8	93.9
67.5°	124.3	128.5	139.6	144.8	152.8	140.9	114.8	97.1	87.7	79.4	75.2
70°	108.5	111.5	117.4	121.7	123.7	111.5	92.2	79.3	71.3	65.4	62.8
72.5°	92.6	95.3	96.5	100.0	98.9	87.5	74.1	63.8	58.1	54.1	50.8
75°	70.8	72.0	70.8	69.4	66.3	58.4	49.2	44.0	39.8	37.9	36.7
77.5°	51.6	51.2	49.7	47.5	42.2	37.2	32.2	30.5	28.7	27.7	27.3
80°	39.8	38.8	37.4	33.8	29.4	25.9	24.7	23.5	22.8	21.6	21.4
82.5°	29.6	29.0	26.7	23.7	20.6	18.9	18.0	17.5	16.8	16.2	16.2
85°	15.8	15.0	12.4	10.8	10.4	9.9	9.7	9.7	8.7	8.5	8.5
87.5°	5.9	5.2	5.6	5.5	5.9	6.1	6.9	7.1	7.5	7.5	7.3
90°	4.0	6.1	9.1	11.1	13.1	16.2	19.2	22.2	25.2	24.2	25.2
92.5°	18.6	27.1	34.8	43.3	58.3	84.6	128.1	170.6	155.0	116.9	84.8
95°	37.3	48.4	65.5	91.7	131.1	216.7	366.9	532.2	597.7	484.8	362.8
97.5°	59.5	68.2	83.0	108.9	151.4	233.3	402.6	678.2	926.3	991.1	904.6
100°	75.6	82.7	96.7	121.0	160.3	230.9	380.0	645.1	954.6	1153.2	1188.5
102.5°	93.3	99.6	112.9	134.7	170.8	234.1	360.6	596.7	902.2	1161.2	1282.8
105°	120.0	126.0	138.1	157.2	188.5	243.0	346.8	537.2	810.4	1099.7	1310.4
107.5°	146.9	152.8	164.7	182.7	211.7	259.4	345.8	499.4	729.4	992.1	1231.0
110°	166.3	171.4	182.5	199.5	227.8	273.2	349.8	484.8	683.5	924.3	1155.2





TEST NUMBER: P332260-840

CATALOG NUMBER: S123RDIP-S340D1025U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	184.1	189.1	200.2	217.3	244.8	286.9	357.9	476.8	652.8	865.5	1080.2
115°	210.7	216.7	226.8	244.0	271.1	309.4	370.9	473.7	620.0	794.4	980.8
117.5°	236.9	242.0	251.2	270.3	295.6	333.5	388.3	475.5	600.6	751.3	908.9
120°	253.0	258.0	268.1	287.3	312.5	348.8	401.2	478.8	591.7	728.8	870.9
122.5°	268.3	273.4	284.3	302.7	329.4	364.9	413.3	484.4	586.0	710.2	841.1
125°	289.3	295.4	306.4	325.6	352.8	388.1	432.4	492.9	578.7	686.5	801.4
127.5°	307.0	314.5	325.8	347.0	374.2	408.3	448.2	502.6	575.0	665.5	766.7
130°	317.5	326.6	338.7	359.8	387.1	420.3	458.7	509.1	572.6	654.2	745.0
132.5°	326.4	336.3	350.8	371.9	398.4	430.8	468.4	513.9	571.8	643.7	724.8
135°	340.7	351.8	366.9	388.1	415.3	446.6	480.8	521.2	570.6	630.1	697.5
137.5°	354.3	365.1	381.2	402.2	427.4	457.5	490.1	525.9	568.4	618.1	672.8
140°	363.9	374.0	390.1	410.3	435.5	464.7	494.9	529.2	567.5	610.9	658.2
142.5°	372.7	383.6	398.2	418.3	441.9	470.4	499.8	531.6	565.9	604.4	644.5
145°	387.1	396.2	411.3	428.4	451.6	477.8	505.0	533.2	563.5	595.7	628.0
147.5°	401.6	410.5	423.5	440.1	459.9	483.8	508.3	533.2	559.7	587.2	614.5
150°	411.3	419.3	432.4	446.6	464.7	487.9	509.1	533.2	556.4	581.6	604.8
152.5°	420.9	429.0	440.5	453.0	470.4	490.3	510.7	530.8	552.4	575.2	595.9
155°	436.5	442.5	452.6	463.7	477.8	494.9	511.1	528.2	545.3	565.5	582.6
157.5°	449.8	454.6	463.5	472.9	483.8	497.6	512.1	524.8	539.1	554.6	568.6
160°	458.7	462.7	470.7	477.8	487.9	500.0	512.1	523.2	534.2	547.3	560.5
162.5°	466.0	469.2	475.5	481.8	490.3	500.8	511.3	520.0	529.4	540.1	550.8
165°	475.7	477.8	482.8	486.9	493.9	502.0	509.1	515.1	522.2	530.2	538.3
167.5°	483.8	484.8	488.7	491.5	495.9	501.8	507.5	510.3	514.9	520.8	527.4
170°	487.9	488.9	491.9	493.9	495.9	501.0	505.0	507.1	510.1	515.1	520.2
172.5°	491.9	492.1	494.3	495.5	496.8	501.0	504.2	504.6	506.0	509.5	513.7
175°	495.9	494.9	497.0	497.0	498.0	500.0	502.0	501.0	501.0	503.0	505.0
177.5°	498.0	497.2	498.0	498.0	498.0	498.8	500.4	498.8	498.0	498.8	499.6
180°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0



TEST NUMBER: P332260-840

CATALOG NUMBER: S123RDIP-S340D1025U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	549.6	549.6	549.6	549.6	549.6	549.6	549.6
2.5°	579.8	579.8	580.5	583.3	583.7	586.1	585.4
5°	637.1	641.6	643.3	650.4	654.5	656.4	652.7
7.5°	707.3	719.9	725.9	733.4	739.8	741.8	736.7
10°	758.5	771.7	782.7	789.6	796.0	800.2	805.6
12.5°	808.0	824.3	834.8	844.3	850.9	856.3	857.2
15°	861.8	886.3	904.8	918.6	925.3	928.9	927.5
17.5°	916.0	938.8	952.0	965.9	975.3	975.8	976.1
20°	946.7	968.9	984.2	994.5	1005.1	1004.6	1007.0
22.5°	967.2	984.7	996.4	1003.9	1007.5	1005.7	1006.2
25°	976.8	982.1	980.0	968.0	964.8	953.8	955.7
27.5°	927.4	902.9	877.6	845.1	819.3	798.8	799.8
30°	860.2	816.9	767.5	726.1	688.9	678.5	656.4
32.5°	766.3	701.4	643.5	604.8	573.0	564.3	545.0
35°	607.0	543.9	484.4	448.7	434.5	414.8	414.5
37.5°	471.8	416.3	384.9	358.0	344.0	331.9	330.8
40°	396.9	353.7	329.8	310.5	296.7	287.7	285.6
42.5°	344.6	309.6	287.3	275.4	264.7	260.0	256.6
45°	281.3	257.8	242.4	231.6	226.6	223.1	221.2
47.5°	235.4	219.6	209.0	201.8	197.8	194.1	195.1
50°	210.4	197.4	189.7	182.8	179.8	177.1	177.4
52.5°	190.2	178.5	172.3	167.3	163.6	161.7	160.9
55°	161.4	154.1	147.7	144.2	142.1	139.6	138.9
57.5°	137.6	132.0	126.8	122.9	122.3	119.9	120.2
60°	121.9	117.1	112.9	110.8	109.2	107.0	107.8
62.5°	108.9	104.9	101.1	99.4	97.7	96.1	96.4
65°	89.2	85.4	83.0	82.1	81.4	80.7	80.0
67.5°	71.1	68.8	67.3	65.2	63.8	63.6	62.9
70°	59.8	56.7	54.1	51.5	50.8	50.6	50.8
72.5°	47.9	45.9	45.2	44.0	43.8	43.2	43.6
75°	36.0	35.2	34.8	33.8	33.8	33.8	33.8
77.5°	26.6	26.2	25.9	25.7	25.4	25.0	25.0
80°	20.7	20.5	20.0	20.0	19.8	20.0	19.8
82.5°	15.7	15.6	15.1	15.1	14.8	14.7	14.8
85°	8.0	7.8	8.3	7.8	8.0	7.6	8.0
87.5°	7.5	7.7	7.9	7.7	7.8	8.3	7.8
90°	26.3	27.3	29.2	28.2	29.2	30.2	29.2
92.5°	67.4	59.5	54.2	52.4	49.4	50.4	48.6
95°	246.0	192.6	156.2	137.1	128.1	121.0	116.9
97.5°	724.6	594.5	473.9	399.6	354.3	327.0	318.3
100°	1106.8	988.9	845.8	744.0	670.3	631.1	632.1
102.5°	1280.2	1211.4	1120.7	1041.5	983.2	950.4	927.2
105°	1411.3	1430.4	1404.2	1357.8	1319.5	1287.3	1282.2
107.5°	1394.7	1483.0	1518.9	1519.7	1506.8	1495.9	1486.6
110°	1340.7	1467.6	1538.2	1566.5	1574.6	1572.6	1570.5



TEST NUMBER: P332260-840

CATALOG NUMBER: S123RDIP-S340D1025U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	1269.7	1412.0	1502.8	1554.4	1579.3	1587.0	1587.4
115°	1156.2	1304.3	1414.2	1489.9	1534.2	1554.4	1559.4
117.5°	1060.3	1193.3	1304.7	1383.6	1434.4	1463.5	1470.3
120°	1007.0	1128.0	1229.8	1309.4	1365.8	1390.1	1396.1
122.5°	964.3	1076.4	1170.9	1241.7	1292.5	1319.1	1326.8
125°	911.3	1008.0	1088.6	1153.2	1197.5	1222.7	1229.8
127.5°	864.6	952.0	1025.3	1082.8	1120.7	1143.5	1149.9
130°	835.7	917.3	985.8	1039.3	1075.6	1096.7	1104.8
132.5°	808.2	884.2	949.6	999.8	1036.0	1054.8	1060.5
135°	769.1	834.7	892.1	941.5	971.7	989.9	996.9
137.5°	731.4	787.9	837.7	879.2	909.9	925.1	929.8
140°	709.6	758.0	801.4	839.7	867.9	884.0	883.0
142.5°	688.7	730.6	768.3	801.0	826.0	840.5	839.5
145°	661.3	693.5	722.8	747.9	769.1	777.2	779.2
147.5°	640.9	666.9	687.7	706.8	721.1	728.8	729.6
150°	628.0	649.1	668.3	683.5	694.5	700.5	700.5
152.5°	615.9	634.7	650.6	662.5	672.8	676.4	676.4
155°	598.7	613.9	626.0	635.1	643.1	645.1	646.1
157.5°	582.0	593.7	603.2	611.1	617.1	618.7	618.5
160°	571.6	581.6	588.7	595.7	601.8	601.8	600.8
162.5°	560.3	569.6	575.8	580.5	585.6	585.6	584.6
165°	544.3	551.4	556.4	560.5	564.5	563.5	563.5
167.5°	532.0	536.0	539.7	541.5	544.3	543.3	543.3
170°	523.2	527.1	529.2	530.2	532.2	531.2	531.2
172.5°	515.9	519.2	520.4	520.6	522.6	520.8	520.0
175°	506.0	508.1	508.1	508.1	509.1	508.1	507.1
177.5°	500.4	501.2	501.2	500.4	501.2	499.6	499.6
180°	498.0	498.0	498.0	498.0	498.0	498.0	498.0

(END OF REPORT)