

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: P332252-840

Luminaire Tested: **S123RDIP-S340D805U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332252-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123RDIP-S340D805U840-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 805 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4612.1 lumens  
Efficiency: N/A  
Efficacy: 147.8 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

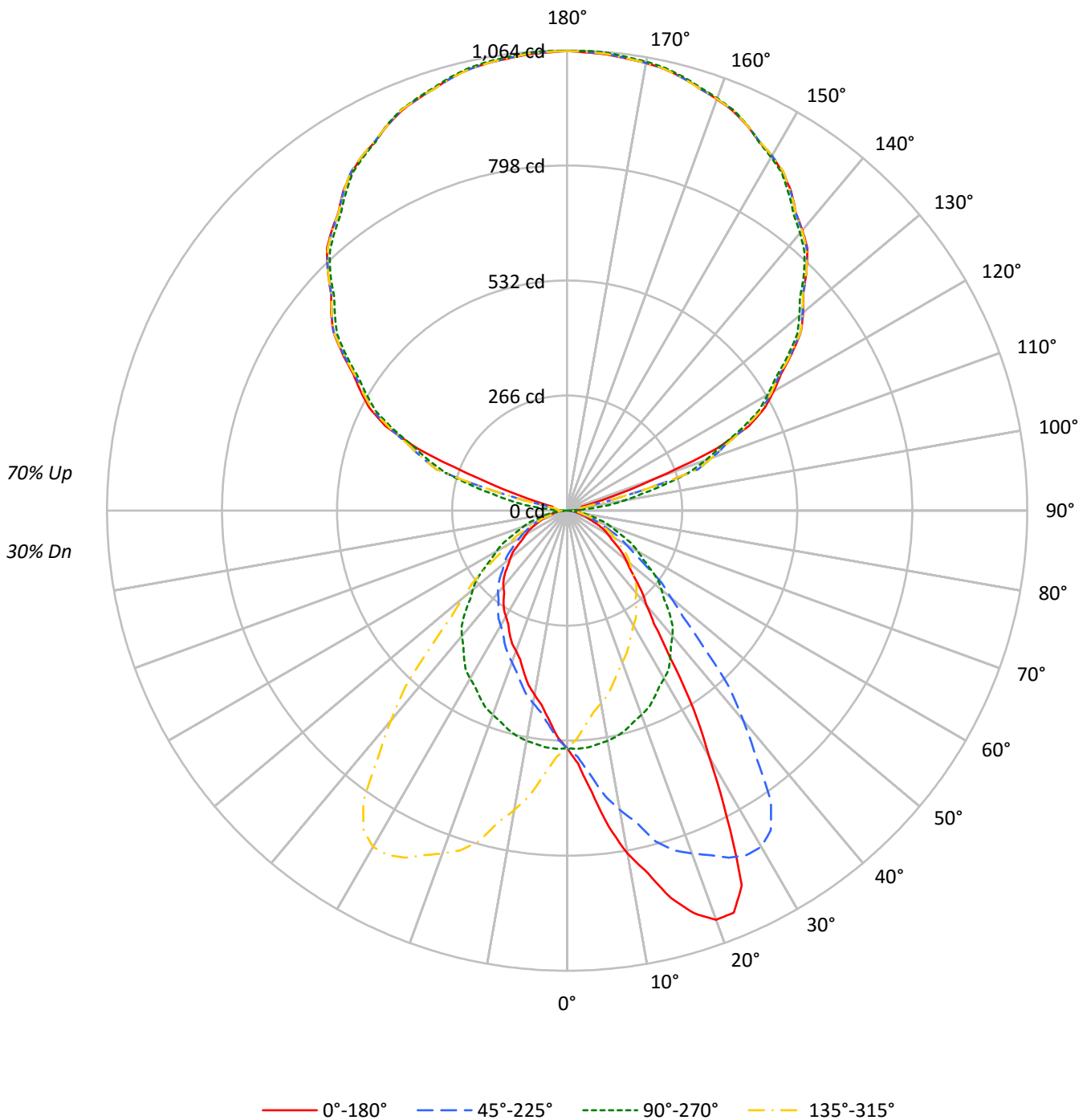
Input Watts (W): 31.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	38	38	38	30
1	94	90	86	83	84	80	77	75	64	62	60	48	47	46	34	33	32	26
2	85	79	73	68	76	71	66	62	56	53	50	43	40	39	30	29	28	22
3	78	69	62	57	70	62	57	52	50	46	42	38	35	33	27	25	24	19
4	72	61	54	48	64	55	49	44	44	40	36	34	31	28	24	22	21	17
5	66	55	47	41	59	50	43	38	40	35	31	30	27	25	22	20	18	15
6	60	49	41	36	54	44	38	33	36	31	27	28	24	22	20	18	16	13
7	56	44	37	31	50	40	34	29	32	28	24	25	22	19	18	16	15	12
8	52	40	33	28	46	36	30	26	30	25	21	23	20	17	17	15	13	11
9	48	37	29	25	43	33	27	23	27	22	19	21	18	15	16	13	12	10
10	45	33	27	22	40	30	24	20	25	20	17	19	16	14	14	12	11	9

**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



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.0	1.2
10°-20°	168.9	3.7
20°-30°	265.3	5.8
30°-40°	276.8	6.0
40°-50°	236.9	5.1
50°-60°	180.5	3.9
60°-70°	115.7	2.5
70°-80°	55.7	1.2
80°-90°	17.7	0.4
90°-100°	38.6	0.8
100°-110°	184.1	4.0
110°-120°	442.3	9.6
120°-130°	563.2	12.2
130°-140°	601.8	13.0
140°-150°	562.7	12.2
150°-160°	453.9	9.8
160°-170°	293.0	6.4
170°-180°	101.0	2.2
0°-30°	488.2	10.6
0°-40°	764.9	16.6
0°-60°	1182.3	25.6
0°-90°	1371.4	29.7
90°-120°	665.1	14.4
90°-150°	2392.8	51.9
90°-180°	3241.0	70.3
0°-180°	4612.1	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°	24	1	24	1	24	11
95°	30	48	30	48	30	25
105°	35	235	35	235	35	79
115°	464	441	464	441	464	429
125°	635	622	635	622	635	567
135°	782	774	782	774	782	603
145°	902	894	902	894	902	563
155°	983	984	983	984	983	453
165°	1036	1038	1036	1038	1036	292
175°	1059	1063	1059	1063	1059	101
180°	1063	1063	1063	1063	1063	



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**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°	6.7	7.0	6.5	6.6	6.6	6.6	6.5	6.4	6.6	6.3	6.0
90°	23.7	23.3	23.0	22.6	22.3	21.7	21.0	20.4	19.7	19.0	16.7
92.5°	26.3	26.0	25.8	25.5	25.3	24.7	23.5	22.4	21.3	20.2	18.5
95°	30.0	30.0	30.0	30.0	30.0	29.4	28.2	27.0	25.8	24.4	22.5
97.5°	32.5	32.3	32.2	32.0	31.8	31.0	29.6	28.3	26.9	25.4	38.1
100°	33.1	33.0	32.8	32.6	32.4	31.7	30.3	28.9	27.5	26.1	53.4
102.5°	33.8	33.4	33.1	32.8	32.5	34.5	38.9	43.2	47.6	51.9	81.8
105°	34.7	34.4	34.0	33.7	33.3	48.7	79.8	110.8	141.9	172.9	188.6
107.5°	109.1	132.5	155.9	179.4	202.7	225.8	248.6	271.4	294.2	316.9	314.4
110°	217.1	242.2	267.3	292.4	317.5	333.0	338.7	344.5	350.3	356.1	354.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	372.5	377.8	383.0	388.4	393.6	396.3	396.2	396.1	396.0	395.9	393.9
115°	464.2	463.5	462.8	462.1	461.4	460.2	458.5	456.7	454.9	453.2	451.6
117.5°	515.7	515.5	515.4	515.3	515.1	514.3	513.0	511.6	510.2	508.8	508.0
120°	551.1	551.1	551.1	551.1	551.1	550.4	549.0	547.5	546.1	544.7	544.2
122.5°	585.8	585.7	585.5	585.4	585.2	584.7	583.7	582.7	581.8	580.8	580.1
125°	634.8	634.4	634.1	633.7	633.4	633.0	632.7	632.3	632.0	631.6	630.9
127.5°	681.9	682.2	682.6	682.9	683.2	683.1	682.6	682.0	681.5	680.9	680.0
130°	712.2	712.5	712.9	713.2	713.6	713.4	712.7	712.0	711.2	710.5	709.8
132.5°	739.9	740.4	740.9	741.4	741.8	741.7	741.0	740.3	739.7	739.0	738.4
135°	782.4	782.9	783.5	784.0	784.5	784.5	784.0	783.5	782.9	782.4	781.7
137.5°	822.3	822.7	823.0	823.4	823.7	823.5	822.6	821.8	821.0	820.1	819.7
140°	846.4	846.7	847.1	847.4	847.8	847.6	846.9	846.2	845.5	844.8	844.2
142.5°	868.5	869.0	869.4	869.9	870.4	870.4	869.8	869.3	868.7	868.2	867.6
145°	902.4	902.4	902.4	902.4	902.4	902.2	901.9	901.5	901.2	900.8	900.5
147.5°	927.7	928.5	929.3	930.1	930.9	931.1	930.8	930.4	930.1	929.7	929.4
150°	946.6	947.2	947.7	948.2	948.8	948.8	948.5	948.1	947.8	947.5	947.1
152.5°	961.8	962.6	963.4	964.2	965.0	965.1	964.4	963.8	963.2	962.6	962.4
155°	982.9	984.0	985.0	986.1	987.1	987.2	986.3	985.5	984.6	983.7	983.5
157.5°	1000.8	1002.2	1003.5	1004.9	1006.2	1006.4	1005.3	1004.3	1003.3	1002.2	1002.4
160°	1012.2	1013.4	1014.6	1015.8	1017.0	1017.1	1016.1	1015.0	1014.0	1012.9	1013.1
162.5°	1022.9	1024.0	1025.0	1026.1	1027.2	1027.1	1026.0	1024.8	1023.6	1022.4	1022.6
165°	1035.8	1037.0	1038.2	1039.6	1040.8	1040.7	1039.3	1037.8	1036.4	1035.0	1035.2
167.5°	1045.1	1046.5	1047.9	1049.4	1050.8	1050.8	1049.4	1047.9	1046.5	1045.1	1045.1
170°	1050.9	1052.3	1053.6	1055.0	1056.4	1056.4	1055.0	1053.6	1052.3	1050.9	1050.9
172.5°	1054.0	1055.5	1057.1	1058.6	1060.2	1060.3	1058.8	1057.4	1056.0	1054.6	1054.5
175°	1058.7	1060.2	1061.6	1063.0	1064.3	1064.4	1063.2	1062.0	1060.8	1059.6	1059.3
177.5°	1060.2	1061.6	1063.0	1064.4	1065.8	1065.9	1064.8	1063.7	1062.6	1061.4	1061.3
180°	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7



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**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°	5.9	5.3	5.2	4.7	4.9	4.8	5.6	6.2	6.8	6.4	6.7
90°	14.3	12.1	9.8	7.8	6.1	4.3	2.5	0.8	2.5	4.3	6.1
92.5°	16.8	15.0	13.3	12.7	13.2	13.7	14.2	14.6	14.2	13.7	13.2
95°	20.6	18.7	16.8	19.4	26.6	33.7	41.0	48.2	41.0	33.7	26.6
97.5°	50.7	63.3	75.9	83.9	87.2	90.4	93.6	96.7	93.6	90.4	87.2
100°	80.8	108.2	135.5	147.4	143.9	140.5	136.9	133.4	136.9	140.5	143.9
102.5°	111.7	141.7	171.6	185.2	182.7	180.2	177.6	175.1	177.6	180.2	182.7
105°	204.5	220.3	236.1	243.0	241.1	239.1	237.2	235.3	237.2	239.1	241.1
107.5°	311.9	309.4	306.9	304.9	303.4	301.8	300.3	298.7	300.3	301.8	303.4
110°	352.2	350.3	348.3	346.7	345.3	343.9	342.4	341.0	342.4	343.9	345.3





TEST NUMBER: P332252-840

CATALOG NUMBER: S123RDIP-S340D805U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	392.0	390.1	388.1	386.6	385.3	384.1	382.7	381.5	382.7	384.1	385.3
115°	450.0	448.5	446.9	445.6	444.5	443.4	442.4	441.3	442.4	443.4	444.5
117.5°	507.2	506.3	505.5	504.4	503.2	501.9	500.6	499.3	500.6	501.9	503.2
120°	543.7	543.2	542.7	541.6	540.0	538.5	536.8	535.3	536.8	538.5	540.0
122.5°	579.5	578.8	578.0	577.1	575.8	574.5	573.2	571.9	573.2	574.5	575.8
125°	630.2	629.5	628.8	627.7	626.3	624.9	623.5	622.2	623.5	624.9	626.3
127.5°	679.2	678.3	677.5	676.4	675.0	673.6	672.2	670.8	672.2	673.6	675.0
130°	709.1	708.4	707.7	706.7	705.3	703.9	702.5	701.0	702.5	703.9	705.3
132.5°	737.8	737.3	736.7	735.8	734.4	733.0	731.5	730.1	731.5	733.0	734.4
135°	781.0	780.3	779.6	778.7	777.7	776.6	775.6	774.5	775.6	776.6	777.7
137.5°	819.4	819.0	818.6	817.7	816.4	815.1	813.7	812.4	813.7	815.1	816.4
140°	843.7	843.2	842.6	841.9	840.8	839.8	838.7	837.7	838.7	839.8	840.8
142.5°	867.1	866.6	866.1	865.3	864.2	863.1	862.1	861.0	862.1	863.1	864.2
145°	900.1	899.8	899.4	898.7	897.4	896.2	894.9	893.7	894.9	896.2	897.4
147.5°	929.0	928.7	928.4	927.8	927.0	926.1	925.3	924.5	925.3	926.1	927.0
150°	946.7	946.3	946.0	945.5	945.0	944.5	944.0	943.4	944.0	944.5	945.0
152.5°	962.1	961.9	961.7	961.5	961.3	961.0	960.8	960.5	960.8	961.0	961.3
155°	983.4	983.2	983.0	983.1	983.5	983.8	984.2	984.5	984.2	983.8	983.5
157.5°	1002.6	1002.7	1002.9	1003.0	1003.0	1003.1	1003.1	1003.1	1003.1	1003.1	1003.0
160°	1013.3	1013.5	1013.6	1013.8	1014.0	1014.2	1014.3	1014.5	1014.3	1014.2	1014.0
162.5°	1022.8	1022.9	1023.1	1023.4	1023.9	1024.3	1024.8	1025.2	1024.8	1024.3	1023.9
165°	1035.4	1035.6	1035.7	1036.1	1036.6	1037.1	1037.6	1038.2	1037.6	1037.1	1036.6
167.5°	1045.1	1045.1	1045.1	1045.5	1046.2	1046.9	1047.6	1048.3	1047.6	1046.9	1046.2
170°	1050.9	1050.9	1050.9	1051.2	1051.9	1052.6	1053.3	1054.0	1053.3	1052.6	1051.9
172.5°	1054.3	1054.2	1054.1	1054.4	1055.2	1056.1	1056.9	1057.7	1056.9	1056.1	1055.2
175°	1059.1	1058.9	1058.8	1059.1	1060.1	1061.0	1061.8	1062.7	1061.8	1061.0	1060.1
177.5°	1061.2	1061.0	1060.9	1061.2	1061.9	1062.6	1063.3	1063.9	1063.3	1062.6	1061.9
180°	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7



TEST NUMBER: P332252-840

CATALOG NUMBER: S123RDIP-S340D805U840-4F0-1E-UDD-A

**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°	6.9	7.8	8.5	9.1	9.7	10.0	10.3	10.5	10.8	10.9	11.0
90°	7.8	9.8	12.1	14.3	16.7	19.0	19.7	20.4	21.0	21.7	22.3
92.5°	12.7	13.3	15.0	16.8	18.5	20.2	21.3	22.4	23.5	24.7	25.3
95°	19.4	16.8	18.7	20.6	22.5	24.4	25.8	27.0	28.2	29.4	30.0
97.5°	83.9	75.9	63.3	50.7	38.1	25.4	26.9	28.3	29.6	31.0	31.8
100°	147.4	135.5	108.2	80.8	53.4	26.1	27.5	28.9	30.3	31.7	32.4
102.5°	185.2	171.6	141.7	111.7	81.8	51.9	47.6	43.2	38.9	34.5	32.5
105°	243.0	236.1	220.3	204.5	188.6	172.9	141.9	110.8	79.8	48.7	33.3
107.5°	304.9	306.9	309.4	311.9	314.4	316.9	294.2	271.4	248.6	225.8	202.7
110°	346.7	348.3	350.3	352.2	354.2	356.1	350.3	344.5	338.7	333.0	317.5



TEST NUMBER: P332252-840

CATALOG NUMBER: S123RDIP-S340D805U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	386.6	388.1	390.1	392.0	393.9	395.9	396.0	396.1	396.2	396.3	393.6
115°	445.6	446.9	448.5	450.0	451.6	453.2	454.9	456.7	458.5	460.2	461.4
117.5°	504.4	505.5	506.3	507.2	508.0	508.8	510.2	511.6	513.0	514.3	515.1
120°	541.6	542.7	543.2	543.7	544.2	544.7	546.1	547.5	549.0	550.4	551.1
122.5°	577.1	578.0	578.8	579.5	580.1	580.8	581.8	582.7	583.7	584.7	585.2
125°	627.7	628.8	629.5	630.2	630.9	631.6	632.0	632.3	632.7	633.0	633.4
127.5°	676.4	677.5	678.3	679.2	680.0	680.9	681.5	682.0	682.6	683.1	683.2
130°	706.7	707.7	708.4	709.1	709.8	710.5	711.2	712.0	712.7	713.4	713.6
132.5°	735.8	736.7	737.3	737.8	738.4	739.0	739.7	740.3	741.0	741.7	741.8
135°	778.7	779.6	780.3	781.0	781.7	782.4	782.9	783.5	784.0	784.5	784.5
137.5°	817.7	818.6	819.0	819.4	819.7	820.1	821.0	821.8	822.6	823.5	823.7
140°	841.9	842.6	843.2	843.7	844.2	844.8	845.5	846.2	846.9	847.6	847.8
142.5°	865.3	866.1	866.6	867.1	867.6	868.2	868.7	869.3	869.8	870.4	870.4
145°	898.7	899.4	899.8	900.1	900.5	900.8	901.2	901.5	901.9	902.2	902.4
147.5°	927.8	928.4	928.7	929.0	929.4	929.7	930.1	930.4	930.8	931.1	930.9
150°	945.5	946.0	946.3	946.7	947.1	947.5	947.8	948.1	948.5	948.8	948.8
152.5°	961.5	961.7	961.9	962.1	962.4	962.6	963.2	963.8	964.4	965.1	965.0
155°	983.1	983.0	983.2	983.4	983.5	983.7	984.6	985.5	986.3	987.2	987.1
157.5°	1003.0	1002.9	1002.7	1002.6	1002.4	1002.2	1003.3	1004.3	1005.3	1006.4	1006.2
160°	1013.8	1013.6	1013.5	1013.3	1013.1	1012.9	1014.0	1015.0	1016.1	1017.1	1017.0
162.5°	1023.4	1023.1	1022.9	1022.8	1022.6	1022.4	1023.6	1024.8	1026.0	1027.1	1027.2
165°	1036.1	1035.7	1035.6	1035.4	1035.2	1035.0	1036.4	1037.8	1039.3	1040.7	1040.8
167.5°	1045.5	1045.1	1045.1	1045.1	1045.1	1045.1	1046.5	1047.9	1049.4	1050.8	1050.8
170°	1051.2	1050.9	1050.9	1050.9	1050.9	1050.9	1052.3	1053.6	1055.0	1056.4	1056.4
172.5°	1054.4	1054.1	1054.2	1054.3	1054.5	1054.6	1056.0	1057.4	1058.8	1060.3	1060.2
175°	1059.1	1058.8	1058.9	1059.1	1059.3	1059.6	1060.8	1062.0	1063.2	1064.4	1064.3
177.5°	1061.2	1060.9	1061.0	1061.2	1061.3	1061.4	1062.6	1063.7	1064.8	1065.9	1065.8
180°	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7



TEST NUMBER: P332252-840

CATALOG NUMBER: S123RDIP-S340D805U840-4F0-1E-UDD-A

**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°	11.5	11.2	11.2	11.5	11.2	11.2	11.5	11.0	10.9	10.8	10.5
90°	22.6	23.0	23.3	23.7	23.3	23.0	22.6	22.3	21.7	21.0	20.4
92.5°	25.5	25.8	26.0	26.3	26.0	25.8	25.5	25.3	24.7	23.5	22.4
95°	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	29.4	28.2	27.0
97.5°	32.0	32.2	32.3	32.5	32.3	32.2	32.0	31.8	31.0	29.6	28.3
100°	32.6	32.8	33.0	33.1	33.0	32.8	32.6	32.4	31.7	30.3	28.9
102.5°	32.8	33.1	33.4	33.8	33.4	33.1	32.8	32.5	34.5	38.9	43.2
105°	33.7	34.0	34.4	34.7	34.4	34.0	33.7	33.3	48.7	79.8	110.8
107.5°	179.4	155.9	132.5	109.1	132.5	155.9	179.4	202.7	225.8	248.6	271.4
110°	292.4	267.3	242.2	217.1	242.2	267.3	292.4	317.5	333.0	338.7	344.5



TEST NUMBER: P332252-840

CATALOG NUMBER: S123RDIP-S340D805U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	388.4	383.0	377.8	372.5	377.8	383.0	388.4	393.6	396.3	396.2	396.1
115°	462.1	462.8	463.5	464.2	463.5	462.8	462.1	461.4	460.2	458.5	456.7
117.5°	515.3	515.4	515.5	515.7	515.5	515.4	515.3	515.1	514.3	513.0	511.6
120°	551.1	551.1	551.1	551.1	551.1	551.1	551.1	551.1	550.4	549.0	547.5
122.5°	585.4	585.5	585.7	585.8	585.7	585.5	585.4	585.2	584.7	583.7	582.7
125°	633.7	634.1	634.4	634.8	634.4	634.1	633.7	633.4	633.0	632.7	632.3
127.5°	682.9	682.6	682.2	681.9	682.2	682.6	682.9	683.2	683.1	682.6	682.0
130°	713.2	712.9	712.5	712.2	712.5	712.9	713.2	713.6	713.4	712.7	712.0
132.5°	741.4	740.9	740.4	739.9	740.4	740.9	741.4	741.8	741.7	741.0	740.3
135°	784.0	783.5	782.9	782.4	782.9	783.5	784.0	784.5	784.5	784.0	783.5
137.5°	823.4	823.0	822.7	822.3	822.7	823.0	823.4	823.7	823.5	822.6	821.8
140°	847.4	847.1	846.7	846.4	846.7	847.1	847.4	847.8	847.6	846.9	846.2
142.5°	869.9	869.4	869.0	868.5	869.0	869.4	869.9	870.4	870.4	869.8	869.3
145°	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.2	901.9	901.5
147.5°	930.1	929.3	928.5	927.7	928.5	929.3	930.1	930.9	931.1	930.8	930.4
150°	948.2	947.7	947.2	946.6	947.2	947.7	948.2	948.8	948.8	948.5	948.1
152.5°	964.2	963.4	962.6	961.8	962.6	963.4	964.2	965.0	965.1	964.4	963.8
155°	986.1	985.0	984.0	982.9	984.0	985.0	986.1	987.1	987.2	986.3	985.5
157.5°	1004.9	1003.5	1002.2	1000.8	1002.2	1003.5	1004.9	1006.2	1006.4	1005.3	1004.3
160°	1015.8	1014.6	1013.4	1012.2	1013.4	1014.6	1015.8	1017.0	1017.1	1016.1	1015.0
162.5°	1026.1	1025.0	1024.0	1022.9	1024.0	1025.0	1026.1	1027.2	1027.1	1026.0	1024.8
165°	1039.6	1038.2	1037.0	1035.8	1037.0	1038.2	1039.6	1040.8	1040.7	1039.3	1037.8
167.5°	1049.4	1047.9	1046.5	1045.1	1046.5	1047.9	1049.4	1050.8	1050.8	1049.4	1047.9
170°	1055.0	1053.6	1052.3	1050.9	1052.3	1053.6	1055.0	1056.4	1056.4	1055.0	1053.6
172.5°	1058.6	1057.1	1055.5	1054.0	1055.5	1057.1	1058.6	1060.2	1060.3	1058.8	1057.4
175°	1063.0	1061.6	1060.2	1058.7	1060.2	1061.6	1063.0	1064.3	1064.4	1063.2	1062.0
177.5°	1064.4	1063.0	1061.6	1060.2	1061.6	1063.0	1064.4	1065.8	1065.9	1064.8	1063.7
180°	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7



TEST NUMBER: P332252-840

CATALOG NUMBER: S123RDIP-S340D805U840-4F0-1E-UDD-A

**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°	10.3	10.0	9.7	9.1	8.5	7.8	6.9	6.7	6.4	6.8	6.2
90°	19.7	19.0	16.7	14.3	12.1	9.8	7.8	6.1	4.3	2.5	0.8
92.5°	21.3	20.2	18.5	16.8	15.0	13.3	12.7	13.2	13.7	14.2	14.6
95°	25.8	24.4	22.5	20.6	18.7	16.8	19.4	26.6	33.7	41.0	48.2
97.5°	26.9	25.4	38.1	50.7	63.3	75.9	83.9	87.2	90.4	93.6	96.7
100°	27.5	26.1	53.4	80.8	108.2	135.5	147.4	143.9	140.5	136.9	133.4
102.5°	47.6	51.9	81.8	111.7	141.7	171.6	185.2	182.7	180.2	177.6	175.1
105°	141.9	172.9	188.6	204.5	220.3	236.1	243.0	241.1	239.1	237.2	235.3
107.5°	294.2	316.9	314.4	311.9	309.4	306.9	304.9	303.4	301.8	300.3	298.7
110°	350.3	356.1	354.2	352.2	350.3	348.3	346.7	345.3	343.9	342.4	341.0



TEST NUMBER: P332252-840

CATALOG NUMBER: S123RDIP-S340D805U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	396.0	395.9	393.9	392.0	390.1	388.1	386.6	385.3	384.1	382.7	381.5
115°	454.9	453.2	451.6	450.0	448.5	446.9	445.6	444.5	443.4	442.4	441.3
117.5°	510.2	508.8	508.0	507.2	506.3	505.5	504.4	503.2	501.9	500.6	499.3
120°	546.1	544.7	544.2	543.7	543.2	542.7	541.6	540.0	538.5	536.8	535.3
122.5°	581.8	580.8	580.1	579.5	578.8	578.0	577.1	575.8	574.5	573.2	571.9
125°	632.0	631.6	630.9	630.2	629.5	628.8	627.7	626.3	624.9	623.5	622.2
127.5°	681.5	680.9	680.0	679.2	678.3	677.5	676.4	675.0	673.6	672.2	670.8
130°	711.2	710.5	709.8	709.1	708.4	707.7	706.7	705.3	703.9	702.5	701.0
132.5°	739.7	739.0	738.4	737.8	737.3	736.7	735.8	734.4	733.0	731.5	730.1
135°	782.9	782.4	781.7	781.0	780.3	779.6	778.7	777.7	776.6	775.6	774.5
137.5°	821.0	820.1	819.7	819.4	819.0	818.6	817.7	816.4	815.1	813.7	812.4
140°	845.5	844.8	844.2	843.7	843.2	842.6	841.9	840.8	839.8	838.7	837.7
142.5°	868.7	868.2	867.6	867.1	866.6	866.1	865.3	864.2	863.1	862.1	861.0
145°	901.2	900.8	900.5	900.1	899.8	899.4	898.7	897.4	896.2	894.9	893.7
147.5°	930.1	929.7	929.4	929.0	928.7	928.4	927.8	927.0	926.1	925.3	924.5
150°	947.8	947.5	947.1	946.7	946.3	946.0	945.5	945.0	944.5	944.0	943.4
152.5°	963.2	962.6	962.4	962.1	961.9	961.7	961.5	961.3	961.0	960.8	960.5
155°	984.6	983.7	983.5	983.4	983.2	983.0	983.1	983.5	983.8	984.2	984.5
157.5°	1003.3	1002.2	1002.4	1002.6	1002.7	1002.9	1003.0	1003.0	1003.1	1003.1	1003.1
160°	1014.0	1012.9	1013.1	1013.3	1013.5	1013.6	1013.8	1014.0	1014.2	1014.3	1014.5
162.5°	1023.6	1022.4	1022.6	1022.8	1022.9	1023.1	1023.4	1023.9	1024.3	1024.8	1025.2
165°	1036.4	1035.0	1035.2	1035.4	1035.6	1035.7	1036.1	1036.6	1037.1	1037.6	1038.2
167.5°	1046.5	1045.1	1045.1	1045.1	1045.1	1045.1	1045.5	1046.2	1046.9	1047.6	1048.3
170°	1052.3	1050.9	1050.9	1050.9	1050.9	1050.9	1051.2	1051.9	1052.6	1053.3	1054.0
172.5°	1056.0	1054.6	1054.5	1054.3	1054.2	1054.1	1054.4	1055.2	1056.1	1056.9	1057.7
175°	1060.8	1059.6	1059.3	1059.1	1058.9	1058.8	1059.1	1060.1	1061.0	1061.8	1062.7
177.5°	1062.6	1061.4	1061.3	1061.2	1061.0	1060.9	1061.2	1061.9	1062.6	1063.3	1063.9
180°	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7



TEST NUMBER: P332252-840

CATALOG NUMBER: S123RDIP-S340D805U840-4F0-1E-UDD-A

**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°	5.6	4.8	4.9	4.7	5.2	5.3	5.9	6.0	6.3	6.6	6.4
90°	2.5	4.3	6.1	7.8	9.8	12.1	14.3	16.7	19.0	19.7	20.4
92.5°	14.2	13.7	13.2	12.7	13.3	15.0	16.8	18.5	20.2	21.3	22.4
95°	41.0	33.7	26.6	19.4	16.8	18.7	20.6	22.5	24.4	25.8	27.0
97.5°	93.6	90.4	87.2	83.9	75.9	63.3	50.7	38.1	25.4	26.9	28.3
100°	136.9	140.5	143.9	147.4	135.5	108.2	80.8	53.4	26.1	27.5	28.9
102.5°	177.6	180.2	182.7	185.2	171.6	141.7	111.7	81.8	51.9	47.6	43.2
105°	237.2	239.1	241.1	243.0	236.1	220.3	204.5	188.6	172.9	141.9	110.8
107.5°	300.3	301.8	303.4	304.9	306.9	309.4	311.9	314.4	316.9	294.2	271.4
110°	342.4	343.9	345.3	346.7	348.3	350.3	352.2	354.2	356.1	350.3	344.5





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	382.7	384.1	385.3	386.6	388.1	390.1	392.0	393.9	395.9	396.0	396.1
115°	442.4	443.4	444.5	445.6	446.9	448.5	450.0	451.6	453.2	454.9	456.7
117.5°	500.6	501.9	503.2	504.4	505.5	506.3	507.2	508.0	508.8	510.2	511.6
120°	536.8	538.5	540.0	541.6	542.7	543.2	543.7	544.2	544.7	546.1	547.5
122.5°	573.2	574.5	575.8	577.1	578.0	578.8	579.5	580.1	580.8	581.8	582.7
125°	623.5	624.9	626.3	627.7	628.8	629.5	630.2	630.9	631.6	632.0	632.3
127.5°	672.2	673.6	675.0	676.4	677.5	678.3	679.2	680.0	680.9	681.5	682.0
130°	702.5	703.9	705.3	706.7	707.7	708.4	709.1	709.8	710.5	711.2	712.0
132.5°	731.5	733.0	734.4	735.8	736.7	737.3	737.8	738.4	739.0	739.7	740.3
135°	775.6	776.6	777.7	778.7	779.6	780.3	781.0	781.7	782.4	782.9	783.5
137.5°	813.7	815.1	816.4	817.7	818.6	819.0	819.4	819.7	820.1	821.0	821.8
140°	838.7	839.8	840.8	841.9	842.6	843.2	843.7	844.2	844.8	845.5	846.2
142.5°	862.1	863.1	864.2	865.3	866.1	866.6	867.1	867.6	868.2	868.7	869.3
145°	894.9	896.2	897.4	898.7	899.4	899.8	900.1	900.5	900.8	901.2	901.5
147.5°	925.3	926.1	927.0	927.8	928.4	928.7	929.0	929.4	929.7	930.1	930.4
150°	944.0	944.5	945.0	945.5	946.0	946.3	946.7	947.1	947.5	947.8	948.1
152.5°	960.8	961.0	961.3	961.5	961.7	961.9	962.1	962.4	962.6	963.2	963.8
155°	984.2	983.8	983.5	983.1	983.0	983.2	983.4	983.5	983.7	984.6	985.5
157.5°	1003.1	1003.1	1003.0	1003.0	1002.9	1002.7	1002.6	1002.4	1002.2	1003.3	1004.3
160°	1014.3	1014.2	1014.0	1013.8	1013.6	1013.5	1013.3	1013.1	1012.9	1014.0	1015.0
162.5°	1024.8	1024.3	1023.9	1023.4	1023.1	1022.9	1022.8	1022.6	1022.4	1023.6	1024.8
165°	1037.6	1037.1	1036.6	1036.1	1035.7	1035.6	1035.4	1035.2	1035.0	1036.4	1037.8
167.5°	1047.6	1046.9	1046.2	1045.5	1045.1	1045.1	1045.1	1045.1	1045.1	1046.5	1047.9
170°	1053.3	1052.6	1051.9	1051.2	1050.9	1050.9	1050.9	1050.9	1050.9	1052.3	1053.6
172.5°	1056.9	1056.1	1055.2	1054.4	1054.1	1054.2	1054.3	1054.5	1054.6	1056.0	1057.4
175°	1061.8	1061.0	1060.1	1059.1	1058.8	1058.9	1059.1	1059.3	1059.6	1060.8	1062.0
177.5°	1063.3	1062.6	1061.9	1061.2	1060.9	1061.0	1061.2	1061.3	1061.4	1062.6	1063.7
180°	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7



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**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°	6.5	6.6	6.6	6.6	6.5	7.0	6.7
90°	21.0	21.7	22.3	22.6	23.0	23.3	23.7
92.5°	23.5	24.7	25.3	25.5	25.8	26.0	26.3
95°	28.2	29.4	30.0	30.0	30.0	30.0	30.0
97.5°	29.6	31.0	31.8	32.0	32.2	32.3	32.5
100°	30.3	31.7	32.4	32.6	32.8	33.0	33.1
102.5°	38.9	34.5	32.5	32.8	33.1	33.4	33.8
105°	79.8	48.7	33.3	33.7	34.0	34.4	34.7
107.5°	248.6	225.8	202.7	179.4	155.9	132.5	109.1
110°	338.7	333.0	317.5	292.4	267.3	242.2	217.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	396.2	396.3	393.6	388.4	383.0	377.8	372.5
115°	458.5	460.2	461.4	462.1	462.8	463.5	464.2
117.5°	513.0	514.3	515.1	515.3	515.4	515.5	515.7
120°	549.0	550.4	551.1	551.1	551.1	551.1	551.1
122.5°	583.7	584.7	585.2	585.4	585.5	585.7	585.8
125°	632.7	633.0	633.4	633.7	634.1	634.4	634.8
127.5°	682.6	683.1	683.2	682.9	682.6	682.2	681.9
130°	712.7	713.4	713.6	713.2	712.9	712.5	712.2
132.5°	741.0	741.7	741.8	741.4	740.9	740.4	739.9
135°	784.0	784.5	784.5	784.0	783.5	782.9	782.4
137.5°	822.6	823.5	823.7	823.4	823.0	822.7	822.3
140°	846.9	847.6	847.8	847.4	847.1	846.7	846.4
142.5°	869.8	870.4	870.4	869.9	869.4	869.0	868.5
145°	901.9	902.2	902.4	902.4	902.4	902.4	902.4
147.5°	930.8	931.1	930.9	930.1	929.3	928.5	927.7
150°	948.5	948.8	948.8	948.2	947.7	947.2	946.6
152.5°	964.4	965.1	965.0	964.2	963.4	962.6	961.8
155°	986.3	987.2	987.1	986.1	985.0	984.0	982.9
157.5°	1005.3	1006.4	1006.2	1004.9	1003.5	1002.2	1000.8
160°	1016.1	1017.1	1017.0	1015.8	1014.6	1013.4	1012.2
162.5°	1026.0	1027.1	1027.2	1026.1	1025.0	1024.0	1022.9
165°	1039.3	1040.7	1040.8	1039.6	1038.2	1037.0	1035.8
167.5°	1049.4	1050.8	1050.8	1049.4	1047.9	1046.5	1045.1
170°	1055.0	1056.4	1056.4	1055.0	1053.6	1052.3	1050.9
172.5°	1058.8	1060.3	1060.2	1058.6	1057.1	1055.5	1054.0
175°	1063.2	1064.4	1064.3	1063.0	1061.6	1060.2	1058.7
177.5°	1064.8	1065.9	1065.8	1064.4	1063.0	1061.6	1060.2
180°	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7

(END OF REPORT)