

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: P332266-840

Luminaire Tested: **S123RDIP-S340D1195U840-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332266-840
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-S340D1195U840-4F0-1E-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: 5733.7 lumens
Efficiency: N/A
Efficacy: 135.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

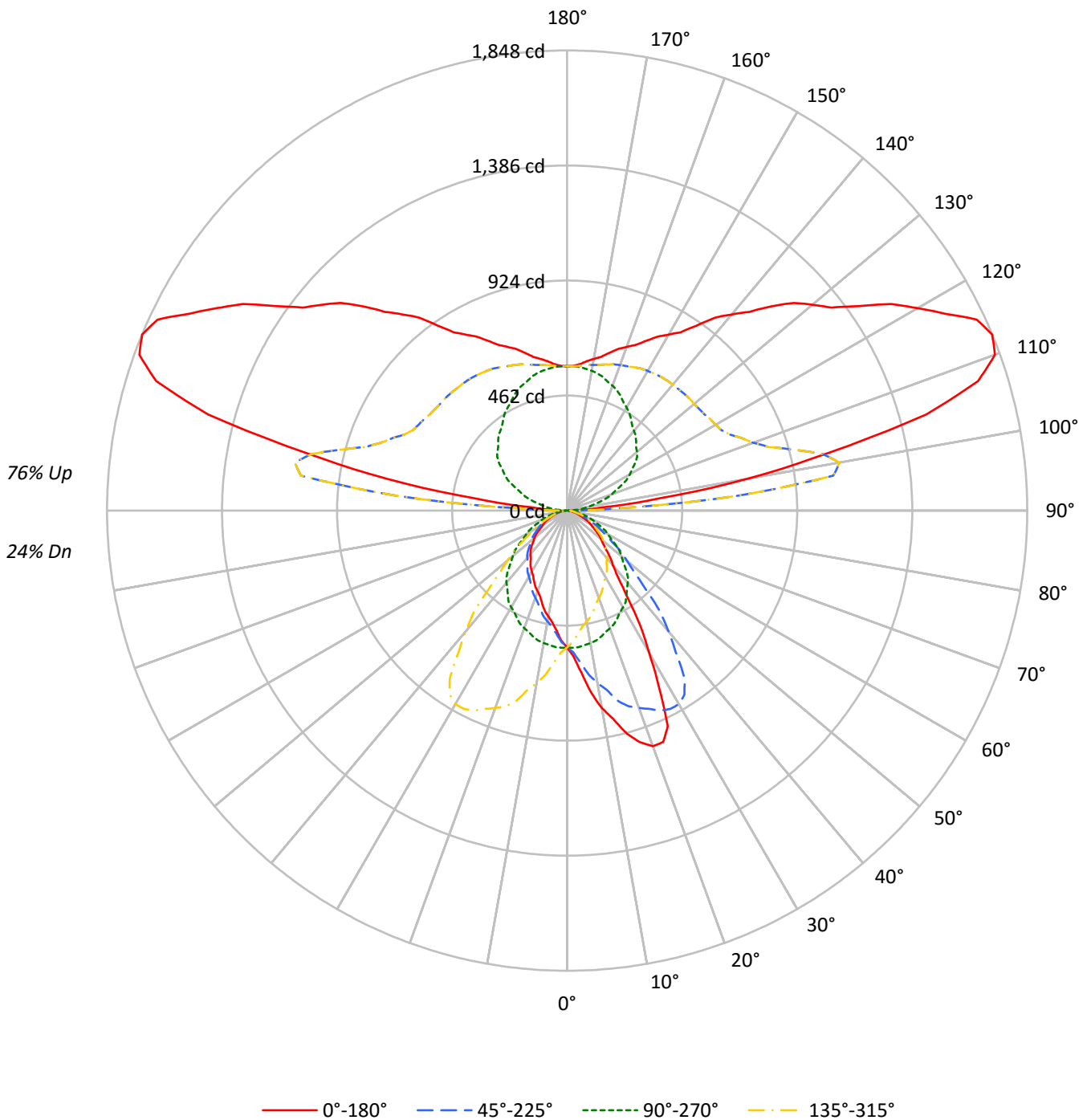
Input Watts (W): 42.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	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	0.9
10°-20°	168.9	2.9
20°-30°	265.3	4.6
30°-40°	276.8	4.8
40°-50°	236.9	4.1
50°-60°	180.5	3.1
60°-70°	115.7	2.0
70°-80°	55.7	1.0
80°-90°	19.2	0.3
90°-100°	322.6	5.6
100°-110°	913.4	15.9
110°-120°	898.5	15.7
120°-130°	716.7	12.5
130°-140°	565.1	9.9
140°-150°	421.7	7.4
150°-160°	294.0	5.1
160°-170°	172.7	3.0
170°-180°	56.2	1.0
0°-30°	488.2	8.5
0°-40°	764.9	13.3
0°-60°	1182.3	20.6
0°-90°	1372.9	23.9
90°-120°	2134.4	37.2
90°-150°	3837.9	66.9
90°-180°	4361.0	76.1
0°-180°	5733.7	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°	34	2	34	2	34	18
95°	136	40	136	40	136	245
105°	1492	136	1492	136	1492	1472
115°	1815	240	1815	240	1815	1764
125°	1432	334	1432	334	1432	1297
135°	1160	392	1160	392	1160	900
145°	907	447	907	447	907	577
155°	752	508	752	508	752	351
165°	656	555	656	555	656	187
175°	590	578	590	578	590	57
180°	580	580	580	580	580	



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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°	8.7	9.3	8.7	8.7	8.9	8.6	8.4	8.1	8.3	8.3	7.8
90°	34.0	35.2	34.0	32.8	34.0	31.7	30.5	29.3	28.2	29.3	25.9
92.5°	56.6	58.7	57.5	61.0	63.1	69.2	78.4	98.8	136.1	180.5	198.5
95°	136.1	140.8	149.1	159.6	181.9	224.1	286.3	422.4	564.3	695.8	619.6
97.5°	370.5	380.6	412.3	465.1	551.7	692.1	843.3	1052.9	1153.6	1078.2	789.4
100°	735.7	734.5	780.2	865.9	984.4	1151.0	1288.3	1383.3	1342.3	1111.2	750.9
102.5°	1079.2	1106.2	1144.5	1212.2	1304.4	1410.1	1490.1	1493.2	1351.6	1050.2	694.6
105°	1492.5	1498.3	1535.9	1580.4	1634.5	1665.0	1642.6	1525.3	1280.1	943.3	625.4
107.5°	1730.4	1741.2	1753.8	1768.9	1768.0	1726.2	1623.4	1432.8	1154.8	849.0	581.3
110°	1828.1	1830.4	1832.7	1823.3	1790.5	1708.4	1560.5	1344.6	1075.9	795.5	564.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1847.8	1847.2	1838.4	1809.3	1749.2	1643.6	1477.9	1257.3	1007.4	759.8	555.0
115°	1815.1	1809.3	1785.7	1734.1	1646.2	1518.2	1345.7	1141.7	924.5	721.5	551.5
117.5°	1711.4	1703.4	1669.6	1610.5	1518.7	1389.0	1234.1	1057.8	874.5	699.0	553.6
120°	1625.1	1618.0	1589.8	1524.1	1431.5	1312.9	1172.2	1013.7	848.3	688.7	557.3
122.5°	1544.3	1535.4	1504.4	1445.3	1362.9	1252.8	1122.4	979.0	826.7	682.2	563.9
125°	1431.5	1423.2	1393.9	1342.3	1267.2	1173.3	1060.7	932.8	799.0	673.5	573.7
127.5°	1338.5	1331.0	1304.4	1260.4	1193.5	1108.0	1006.4	892.4	774.7	669.2	585.0
130°	1286.0	1276.6	1251.9	1209.7	1147.5	1067.7	972.7	867.1	761.4	666.4	592.5
132.5°	1234.4	1227.8	1205.9	1163.7	1105.3	1029.3	940.8	843.6	749.3	665.5	598.1
135°	1160.4	1152.2	1131.0	1095.9	1038.3	971.5	895.2	811.9	733.4	664.1	606.6
137.5°	1082.3	1076.8	1059.0	1023.4	975.0	917.1	851.3	783.0	719.4	661.5	612.3
140°	1027.8	1029.0	1010.3	977.3	932.8	882.3	826.0	766.2	711.0	660.6	616.0
142.5°	977.1	978.3	961.4	932.3	894.3	850.4	801.6	750.2	703.5	658.7	618.8
145°	907.0	904.6	895.2	870.6	841.2	807.3	769.7	730.9	693.5	655.9	620.7
147.5°	849.2	848.3	839.4	822.7	800.4	776.3	746.0	715.3	683.6	651.5	620.7
150°	815.5	815.5	808.4	795.5	777.9	755.6	730.9	704.0	677.0	647.6	620.7
152.5°	787.3	787.3	783.0	771.1	757.3	738.7	716.9	693.7	669.5	643.0	617.8
155°	752.0	750.9	748.6	739.2	728.6	714.6	696.9	678.1	658.2	634.8	614.8
157.5°	719.9	720.1	718.3	711.2	702.1	691.1	677.5	661.8	645.5	627.5	610.9
160°	699.3	700.4	700.4	693.5	685.2	677.0	665.3	652.4	637.1	621.9	608.9
162.5°	680.5	681.7	681.7	675.6	670.1	662.9	652.2	641.1	628.6	616.2	605.2
165°	655.9	655.9	657.0	652.4	647.6	641.8	633.6	626.5	617.1	607.7	599.6
167.5°	632.4	632.4	633.6	630.3	628.2	624.0	619.2	613.9	606.1	599.4	593.9
170°	618.3	618.3	619.6	617.1	616.0	613.6	608.9	605.4	599.6	593.7	590.2
172.5°	605.2	606.1	608.2	605.9	605.6	604.3	600.5	597.9	593.0	589.0	587.3
175°	590.2	591.4	592.5	591.4	591.4	591.4	589.0	587.8	585.5	583.1	583.1
177.5°	581.5	581.5	583.4	582.4	583.4	583.4	582.4	581.5	580.6	579.7	580.6
180°	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7



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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°	7.5	6.6	6.3	5.8	5.9	5.4	6.1	6.5	7.2	6.9	7.6
90°	22.3	18.8	15.2	12.9	10.6	7.1	4.6	2.3	4.6	7.1	10.6
92.5°	149.1	98.6	67.9	50.5	40.6	31.4	21.6	14.5	21.6	31.4	40.6
95°	427.1	252.3	152.5	106.7	76.2	56.4	43.4	39.9	43.4	56.4	76.2
97.5°	468.6	271.6	176.2	126.7	96.6	79.3	69.2	68.1	69.2	79.3	96.6
100°	442.3	268.7	186.5	140.8	112.6	96.2	88.0	86.8	88.0	96.2	112.6
102.5°	419.8	272.5	198.7	156.7	131.4	115.9	108.7	106.5	108.7	115.9	131.4
105°	403.6	282.8	219.4	183.0	160.8	146.6	139.7	136.1	139.7	146.6	160.8
107.5°	402.4	302.1	246.4	212.6	191.7	177.8	171.1	167.5	171.1	177.8	191.7
110°	407.2	318.0	265.2	232.3	212.4	199.4	193.6	190.1	193.6	199.4	212.4



TEST NUMBER: P332266-840

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	416.6	334.0	284.9	253.0	233.0	220.2	214.3	210.8	214.3	220.2	233.0
115°	431.8	360.2	315.6	284.0	264.0	252.3	245.2	240.5	245.2	252.3	264.0
117.5°	451.9	388.1	344.1	314.7	292.4	281.6	275.7	270.3	275.7	281.6	292.4
120°	467.0	406.0	363.8	334.4	312.1	300.3	294.5	290.9	294.5	300.3	312.1
122.5°	481.1	424.7	383.4	352.2	330.8	318.2	312.4	308.8	312.4	318.2	330.8
125°	503.3	451.7	410.6	379.0	356.7	343.8	336.8	334.4	336.8	343.8	356.7
127.5°	521.7	475.1	435.6	403.8	379.2	366.1	357.4	353.9	357.4	366.1	379.2
130°	533.8	489.3	450.5	418.9	394.3	380.1	369.6	366.1	369.6	380.1	394.3
132.5°	545.1	501.5	463.7	432.9	408.3	391.4	379.9	375.5	379.9	391.4	408.3
135°	559.7	519.8	483.4	451.7	427.1	409.5	396.6	391.9	396.6	409.5	427.1
137.5°	570.5	532.4	497.5	468.2	443.7	425.0	412.3	407.4	412.3	425.0	443.7
140°	576.1	540.9	506.9	477.6	454.0	435.3	423.5	417.7	423.5	435.3	454.0
142.5°	581.7	547.4	514.4	487.0	463.4	446.6	433.9	429.0	433.9	446.6	463.4
145°	587.8	556.1	525.6	498.7	478.7	461.1	450.5	447.1	450.5	461.1	478.7
147.5°	591.6	563.2	535.2	512.3	493.0	477.8	467.5	465.3	467.5	477.8	493.0
150°	592.5	567.8	540.9	519.8	503.3	488.1	478.7	477.6	478.7	488.1	503.3
152.5°	594.4	570.7	547.4	527.3	512.7	499.4	490.0	489.8	490.0	499.4	512.7
155°	594.9	576.1	556.1	539.7	526.8	515.1	508.1	508.1	508.1	515.1	526.8
157.5°	596.0	579.2	563.2	550.5	539.5	529.2	523.5	522.6	523.5	529.2	539.5
160°	596.0	582.0	567.8	556.1	548.0	538.6	533.8	533.8	533.8	538.6	548.0
162.5°	595.1	582.9	570.7	560.9	553.6	546.0	542.3	542.3	542.3	546.0	553.6
165°	592.5	584.3	574.9	566.7	562.0	556.1	553.8	555.0	553.8	556.1	562.0
167.5°	590.7	584.1	577.2	572.1	568.9	564.3	563.2	564.6	563.2	564.3	568.9
170°	587.8	583.1	577.2	574.9	572.6	569.1	567.8	570.3	567.8	569.1	572.6
172.5°	586.9	583.1	578.2	576.8	575.4	572.8	572.6	574.0	572.6	572.8	575.4
175°	584.3	582.0	579.7	578.5	578.5	576.1	577.2	578.5	577.2	576.1	578.5
177.5°	582.4	580.6	579.7	579.7	579.7	578.7	579.7	580.6	579.7	578.7	579.7
180°	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7



TEST NUMBER: P332266-840

CATALOG NUMBER: S123RDIP-S340D1195U840-4F0-1E-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°	7.9	8.9	9.8	10.7	11.5	12.1	12.0	12.2	12.7	12.9	13.4
90°	12.9	15.2	18.8	22.3	25.9	29.3	28.2	29.3	30.5	31.7	34.0
92.5°	50.5	67.9	98.6	149.1	198.5	180.5	136.1	98.8	78.4	69.2	63.1
95°	106.7	152.5	252.3	427.1	619.6	695.8	564.3	422.4	286.3	224.1	181.9
97.5°	126.7	176.2	271.6	468.6	789.4	1078.2	1153.6	1052.9	843.3	692.1	551.7
100°	140.8	186.5	268.7	442.3	750.9	1111.2	1342.3	1383.3	1288.3	1151.0	984.4
102.5°	156.7	198.7	272.5	419.8	694.6	1050.2	1351.6	1493.2	1490.1	1410.1	1304.4
105°	183.0	219.4	282.8	403.6	625.4	943.3	1280.1	1525.3	1642.6	1665.0	1634.5
107.5°	212.6	246.4	302.1	402.4	581.3	849.0	1154.8	1432.8	1623.4	1726.2	1768.0
110°	232.3	265.2	318.0	407.2	564.3	795.5	1075.9	1344.6	1560.5	1708.4	1790.5



TEST NUMBER: P332266-840

CATALOG NUMBER: S123RDIP-S340D1195U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	253.0	284.9	334.0	416.6	555.0	759.8	1007.4	1257.3	1477.9	1643.6	1749.2
115°	284.0	315.6	360.2	431.8	551.5	721.5	924.5	1141.7	1345.7	1518.2	1646.2
117.5°	314.7	344.1	388.1	451.9	553.6	699.0	874.5	1057.8	1234.1	1389.0	1518.7
120°	334.4	363.8	406.0	467.0	557.3	688.7	848.3	1013.7	1172.2	1312.9	1431.5
122.5°	352.2	383.4	424.7	481.1	563.9	682.2	826.7	979.0	1122.4	1252.8	1362.9
125°	379.0	410.6	451.7	503.3	573.7	673.5	799.0	932.8	1060.7	1173.3	1267.2
127.5°	403.8	435.6	475.1	521.7	585.0	669.2	774.7	892.4	1006.4	1108.0	1193.5
130°	418.9	450.5	489.3	533.8	592.5	666.4	761.4	867.1	972.7	1067.7	1147.5
132.5°	432.9	463.7	501.5	545.1	598.1	665.5	749.3	843.6	940.8	1029.3	1105.3
135°	451.7	483.4	519.8	559.7	606.6	664.1	733.4	811.9	895.2	971.5	1038.3
137.5°	468.2	497.5	532.4	570.5	612.3	661.5	719.4	783.0	851.3	917.1	975.0
140°	477.6	506.9	540.9	576.1	616.0	660.6	711.0	766.2	826.0	882.3	932.8
142.5°	487.0	514.4	547.4	581.7	618.8	658.7	703.5	750.2	801.6	850.4	894.3
145°	498.7	525.6	556.1	587.8	620.7	655.9	693.5	730.9	769.7	807.3	841.2
147.5°	512.3	535.2	563.2	591.6	620.7	651.5	683.6	715.3	746.0	776.3	800.4
150°	519.8	540.9	567.8	592.5	620.7	647.6	677.0	704.0	730.9	755.6	777.9
152.5°	527.3	547.4	570.7	594.4	617.8	643.0	669.5	693.7	716.9	738.7	757.3
155°	539.7	556.1	576.1	594.9	614.8	634.8	658.2	678.1	696.9	714.6	728.6
157.5°	550.5	563.2	579.2	596.0	610.9	627.5	645.5	661.8	677.5	691.1	702.1
160°	556.1	567.8	582.0	596.0	608.9	621.9	637.1	652.4	665.3	677.0	685.2
162.5°	560.9	570.7	582.9	595.1	605.2	616.2	628.6	641.1	652.2	662.9	670.1
165°	566.7	574.9	584.3	592.5	599.6	607.7	617.1	626.5	633.6	641.8	647.6
167.5°	572.1	577.2	584.1	590.7	593.9	599.4	606.1	613.9	619.2	624.0	628.2
170°	574.9	577.2	583.1	587.8	590.2	593.7	599.6	605.4	608.9	613.6	616.0
172.5°	576.8	578.2	583.1	586.9	587.3	589.0	593.0	597.9	600.5	604.3	605.6
175°	578.5	579.7	582.0	584.3	583.1	583.1	585.5	587.8	589.0	591.4	591.4
177.5°	579.7	579.7	580.6	582.4	580.6	579.7	580.6	581.5	582.4	583.4	583.4
180°	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7



TEST NUMBER: P332266-840

CATALOG NUMBER: S123RDIP-S340D1195U840-4F0-1E-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°	13.5	13.4	13.6	13.5	13.6	13.4	13.5	13.4	12.9	12.7	12.2
90°	32.8	34.0	35.2	34.0	35.2	34.0	32.8	34.0	31.7	30.5	29.3
92.5°	61.0	57.5	58.7	56.6	58.7	57.5	61.0	63.1	69.2	78.4	98.8
95°	159.6	149.1	140.8	136.1	140.8	149.1	159.6	181.9	224.1	286.3	422.4
97.5°	465.1	412.3	380.6	370.5	380.6	412.3	465.1	551.7	692.1	843.3	1052.9
100°	865.9	780.2	734.5	735.7	734.5	780.2	865.9	984.4	1151.0	1288.3	1383.3
102.5°	1212.2	1144.5	1106.2	1079.2	1106.2	1144.5	1212.2	1304.4	1410.1	1490.1	1493.2
105°	1580.4	1535.9	1498.3	1492.5	1498.3	1535.9	1580.4	1634.5	1665.0	1642.6	1525.3
107.5°	1768.9	1753.8	1741.2	1730.4	1741.2	1753.8	1768.9	1768.0	1726.2	1623.4	1432.8
110°	1823.3	1832.7	1830.4	1828.1	1830.4	1832.7	1823.3	1790.5	1708.4	1560.5	1344.6



TEST NUMBER: P332266-840

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1809.3	1838.4	1847.2	1847.8	1847.2	1838.4	1809.3	1749.2	1643.6	1477.9	1257.3
115°	1734.1	1785.7	1809.3	1815.1	1809.3	1785.7	1734.1	1646.2	1518.2	1345.7	1141.7
117.5°	1610.5	1669.6	1703.4	1711.4	1703.4	1669.6	1610.5	1518.7	1389.0	1234.1	1057.8
120°	1524.1	1589.8	1618.0	1625.1	1618.0	1589.8	1524.1	1431.5	1312.9	1172.2	1013.7
122.5°	1445.3	1504.4	1535.4	1544.3	1535.4	1504.4	1445.3	1362.9	1252.8	1122.4	979.0
125°	1342.3	1393.9	1423.2	1431.5	1423.2	1393.9	1342.3	1267.2	1173.3	1060.7	932.8
127.5°	1260.4	1304.4	1331.0	1338.5	1331.0	1304.4	1260.4	1193.5	1108.0	1006.4	892.4
130°	1209.7	1251.9	1276.6	1286.0	1276.6	1251.9	1209.7	1147.5	1067.7	972.7	867.1
132.5°	1163.7	1205.9	1227.8	1234.4	1227.8	1205.9	1163.7	1105.3	1029.3	940.8	843.6
135°	1095.9	1131.0	1152.2	1160.4	1152.2	1131.0	1095.9	1038.3	971.5	895.2	811.9
137.5°	1023.4	1059.0	1076.8	1082.3	1076.8	1059.0	1023.4	975.0	917.1	851.3	783.0
140°	977.3	1010.3	1029.0	1027.8	1029.0	1010.3	977.3	932.8	882.3	826.0	766.2
142.5°	932.3	961.4	978.3	977.1	978.3	961.4	932.3	894.3	850.4	801.6	750.2
145°	870.6	895.2	904.6	907.0	904.6	895.2	870.6	841.2	807.3	769.7	730.9
147.5°	822.7	839.4	848.3	849.2	848.3	839.4	822.7	800.4	776.3	746.0	715.3
150°	795.5	808.4	815.5	815.5	815.5	808.4	795.5	777.9	755.6	730.9	704.0
152.5°	771.1	783.0	787.3	787.3	787.3	783.0	771.1	757.3	738.7	716.9	693.7
155°	739.2	748.6	750.9	752.0	750.9	748.6	739.2	728.6	714.6	696.9	678.1
157.5°	711.2	718.3	720.1	719.9	720.1	718.3	711.2	702.1	691.1	677.5	661.8
160°	693.5	700.4	700.4	699.3	700.4	700.4	693.5	685.2	677.0	665.3	652.4
162.5°	675.6	681.7	681.7	680.5	681.7	681.7	675.6	670.1	662.9	652.2	641.1
165°	652.4	657.0	655.9	655.9	655.9	657.0	652.4	647.6	641.8	633.6	626.5
167.5°	630.3	633.6	632.4	632.4	632.4	633.6	630.3	628.2	624.0	619.2	613.9
170°	617.1	619.6	618.3	618.3	618.3	619.6	617.1	616.0	613.6	608.9	605.4
172.5°	605.9	608.2	606.1	605.2	606.1	608.2	605.9	605.6	604.3	600.5	597.9
175°	591.4	592.5	591.4	590.2	591.4	592.5	591.4	591.4	591.4	589.0	587.8
177.5°	582.4	583.4	581.5	581.5	581.5	583.4	582.4	583.4	583.4	582.4	581.5
180°	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7



TEST NUMBER: P332266-840

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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°	12.0	12.1	11.5	10.7	9.8	8.9	7.9	7.6	6.9	7.2	6.5
90°	28.2	29.3	25.9	22.3	18.8	15.2	12.9	10.6	7.1	4.6	2.3
92.5°	136.1	180.5	198.5	149.1	98.6	67.9	50.5	40.6	31.4	21.6	14.5
95°	564.3	695.8	619.6	427.1	252.3	152.5	106.7	76.2	56.4	43.4	39.9
97.5°	1153.6	1078.2	789.4	468.6	271.6	176.2	126.7	96.6	79.3	69.2	68.1
100°	1342.3	1111.2	750.9	442.3	268.7	186.5	140.8	112.6	96.2	88.0	86.8
102.5°	1351.6	1050.2	694.6	419.8	272.5	198.7	156.7	131.4	115.9	108.7	106.5
105°	1280.1	943.3	625.4	403.6	282.8	219.4	183.0	160.8	146.6	139.7	136.1
107.5°	1154.8	849.0	581.3	402.4	302.1	246.4	212.6	191.7	177.8	171.1	167.5
110°	1075.9	795.5	564.3	407.2	318.0	265.2	232.3	212.4	199.4	193.6	190.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	1007.4	759.8	555.0	416.6	334.0	284.9	253.0	233.0	220.2	214.3	210.8
115°	924.5	721.5	551.5	431.8	360.2	315.6	284.0	264.0	252.3	245.2	240.5
117.5°	874.5	699.0	553.6	451.9	388.1	344.1	314.7	292.4	281.6	275.7	270.3
120°	848.3	688.7	557.3	467.0	406.0	363.8	334.4	312.1	300.3	294.5	290.9
122.5°	826.7	682.2	563.9	481.1	424.7	383.4	352.2	330.8	318.2	312.4	308.8
125°	799.0	673.5	573.7	503.3	451.7	410.6	379.0	356.7	343.8	336.8	334.4
127.5°	774.7	669.2	585.0	521.7	475.1	435.6	403.8	379.2	366.1	357.4	353.9
130°	761.4	666.4	592.5	533.8	489.3	450.5	418.9	394.3	380.1	369.6	366.1
132.5°	749.3	665.5	598.1	545.1	501.5	463.7	432.9	408.3	391.4	379.9	375.5
135°	733.4	664.1	606.6	559.7	519.8	483.4	451.7	427.1	409.5	396.6	391.9
137.5°	719.4	661.5	612.3	570.5	532.4	497.5	468.2	443.7	425.0	412.3	407.4
140°	711.0	660.6	616.0	576.1	540.9	506.9	477.6	454.0	435.3	423.5	417.7
142.5°	703.5	658.7	618.8	581.7	547.4	514.4	487.0	463.4	446.6	433.9	429.0
145°	693.5	655.9	620.7	587.8	556.1	525.6	498.7	478.7	461.1	450.5	447.1
147.5°	683.6	651.5	620.7	591.6	563.2	535.2	512.3	493.0	477.8	467.5	465.3
150°	677.0	647.6	620.7	592.5	567.8	540.9	519.8	503.3	488.1	478.7	477.6
152.5°	669.5	643.0	617.8	594.4	570.7	547.4	527.3	512.7	499.4	490.0	489.8
155°	658.2	634.8	614.8	594.9	576.1	556.1	539.7	526.8	515.1	508.1	508.1
157.5°	645.5	627.5	610.9	596.0	579.2	563.2	550.5	539.5	529.2	523.5	522.6
160°	637.1	621.9	608.9	596.0	582.0	567.8	556.1	548.0	538.6	533.8	533.8
162.5°	628.6	616.2	605.2	595.1	582.9	570.7	560.9	553.6	546.0	542.3	542.3
165°	617.1	607.7	599.6	592.5	584.3	574.9	566.7	562.0	556.1	553.8	555.0
167.5°	606.1	599.4	593.9	590.7	584.1	577.2	572.1	568.9	564.3	563.2	564.6
170°	599.6	593.7	590.2	587.8	583.1	577.2	574.9	572.6	569.1	567.8	570.3
172.5°	593.0	589.0	587.3	586.9	583.1	578.2	576.8	575.4	572.8	572.6	574.0
175°	585.5	583.1	583.1	584.3	582.0	579.7	578.5	578.5	576.1	577.2	578.5
177.5°	580.6	579.7	580.6	582.4	580.6	579.7	579.7	579.7	578.7	579.7	580.6
180°	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7



TEST NUMBER: P332266-840

CATALOG NUMBER: S123RDIP-S340D1195U840-4F0-1E-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°	6.1	5.4	5.9	5.8	6.3	6.6	7.5	7.8	8.3	8.3	8.1
90°	4.6	7.1	10.6	12.9	15.2	18.8	22.3	25.9	29.3	28.2	29.3
92.5°	21.6	31.4	40.6	50.5	67.9	98.6	149.1	198.5	180.5	136.1	98.8
95°	43.4	56.4	76.2	106.7	152.5	252.3	427.1	619.6	695.8	564.3	422.4
97.5°	69.2	79.3	96.6	126.7	176.2	271.6	468.6	789.4	1078.2	1153.6	1052.9
100°	88.0	96.2	112.6	140.8	186.5	268.7	442.3	750.9	1111.2	1342.3	1383.3
102.5°	108.7	115.9	131.4	156.7	198.7	272.5	419.8	694.6	1050.2	1351.6	1493.2
105°	139.7	146.6	160.8	183.0	219.4	282.8	403.6	625.4	943.3	1280.1	1525.3
107.5°	171.1	177.8	191.7	212.6	246.4	302.1	402.4	581.3	849.0	1154.8	1432.8
110°	193.6	199.4	212.4	232.3	265.2	318.0	407.2	564.3	795.5	1075.9	1344.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	214.3	220.2	233.0	253.0	284.9	334.0	416.6	555.0	759.8	1007.4	1257.3
115°	245.2	252.3	264.0	284.0	315.6	360.2	431.8	551.5	721.5	924.5	1141.7
117.5°	275.7	281.6	292.4	314.7	344.1	388.1	451.9	553.6	699.0	874.5	1057.8
120°	294.5	300.3	312.1	334.4	363.8	406.0	467.0	557.3	688.7	848.3	1013.7
122.5°	312.4	318.2	330.8	352.2	383.4	424.7	481.1	563.9	682.2	826.7	979.0
125°	336.8	343.8	356.7	379.0	410.6	451.7	503.3	573.7	673.5	799.0	932.8
127.5°	357.4	366.1	379.2	403.8	435.6	475.1	521.7	585.0	669.2	774.7	892.4
130°	369.6	380.1	394.3	418.9	450.5	489.3	533.8	592.5	666.4	761.4	867.1
132.5°	379.9	391.4	408.3	432.9	463.7	501.5	545.1	598.1	665.5	749.3	843.6
135°	396.6	409.5	427.1	451.7	483.4	519.8	559.7	606.6	664.1	733.4	811.9
137.5°	412.3	425.0	443.7	468.2	497.5	532.4	570.5	612.3	661.5	719.4	783.0
140°	423.5	435.3	454.0	477.6	506.9	540.9	576.1	616.0	660.6	711.0	766.2
142.5°	433.9	446.6	463.4	487.0	514.4	547.4	581.7	618.8	658.7	703.5	750.2
145°	450.5	461.1	478.7	498.7	525.6	556.1	587.8	620.7	655.9	693.5	730.9
147.5°	467.5	477.8	493.0	512.3	535.2	563.2	591.6	620.7	651.5	683.6	715.3
150°	478.7	488.1	503.3	519.8	540.9	567.8	592.5	620.7	647.6	677.0	704.0
152.5°	490.0	499.4	512.7	527.3	547.4	570.7	594.4	617.8	643.0	669.5	693.7
155°	508.1	515.1	526.8	539.7	556.1	576.1	594.9	614.8	634.8	658.2	678.1
157.5°	523.5	529.2	539.5	550.5	563.2	579.2	596.0	610.9	627.5	645.5	661.8
160°	533.8	538.6	548.0	556.1	567.8	582.0	596.0	608.9	621.9	637.1	652.4
162.5°	542.3	546.0	553.6	560.9	570.7	582.9	595.1	605.2	616.2	628.6	641.1
165°	553.8	556.1	562.0	566.7	574.9	584.3	592.5	599.6	607.7	617.1	626.5
167.5°	563.2	564.3	568.9	572.1	577.2	584.1	590.7	593.9	599.4	606.1	613.9
170°	567.8	569.1	572.6	574.9	577.2	583.1	587.8	590.2	593.7	599.6	605.4
172.5°	572.6	572.8	575.4	576.8	578.2	583.1	586.9	587.3	589.0	593.0	597.9
175°	577.2	576.1	578.5	578.5	579.7	582.0	584.3	583.1	583.1	585.5	587.8
177.5°	579.7	578.7	579.7	579.7	579.7	580.6	582.4	580.6	579.7	580.6	581.5
180°	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7



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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°	8.4	8.6	8.9	8.7	8.7	9.3	8.7
90°	30.5	31.7	34.0	32.8	34.0	35.2	34.0
92.5°	78.4	69.2	63.1	61.0	57.5	58.7	56.6
95°	286.3	224.1	181.9	159.6	149.1	140.8	136.1
97.5°	843.3	692.1	551.7	465.1	412.3	380.6	370.5
100°	1288.3	1151.0	984.4	865.9	780.2	734.5	735.7
102.5°	1490.1	1410.1	1304.4	1212.2	1144.5	1106.2	1079.2
105°	1642.6	1665.0	1634.5	1580.4	1535.9	1498.3	1492.5
107.5°	1623.4	1726.2	1768.0	1768.9	1753.8	1741.2	1730.4
110°	1560.5	1708.4	1790.5	1823.3	1832.7	1830.4	1828.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1477.9	1643.6	1749.2	1809.3	1838.4	1847.2	1847.8
115°	1345.7	1518.2	1646.2	1734.1	1785.7	1809.3	1815.1
117.5°	1234.1	1389.0	1518.7	1610.5	1669.6	1703.4	1711.4
120°	1172.2	1312.9	1431.5	1524.1	1589.8	1618.0	1625.1
122.5°	1122.4	1252.8	1362.9	1445.3	1504.4	1535.4	1544.3
125°	1060.7	1173.3	1267.2	1342.3	1393.9	1423.2	1431.5
127.5°	1006.4	1108.0	1193.5	1260.4	1304.4	1331.0	1338.5
130°	972.7	1067.7	1147.5	1209.7	1251.9	1276.6	1286.0
132.5°	940.8	1029.3	1105.3	1163.7	1205.9	1227.8	1234.4
135°	895.2	971.5	1038.3	1095.9	1131.0	1152.2	1160.4
137.5°	851.3	917.1	975.0	1023.4	1059.0	1076.8	1082.3
140°	826.0	882.3	932.8	977.3	1010.3	1029.0	1027.8
142.5°	801.6	850.4	894.3	932.3	961.4	978.3	977.1
145°	769.7	807.3	841.2	870.6	895.2	904.6	907.0
147.5°	746.0	776.3	800.4	822.7	839.4	848.3	849.2
150°	730.9	755.6	777.9	795.5	808.4	815.5	815.5
152.5°	716.9	738.7	757.3	771.1	783.0	787.3	787.3
155°	696.9	714.6	728.6	739.2	748.6	750.9	752.0
157.5°	677.5	691.1	702.1	711.2	718.3	720.1	719.9
160°	665.3	677.0	685.2	693.5	700.4	700.4	699.3
162.5°	652.2	662.9	670.1	675.6	681.7	681.7	680.5
165°	633.6	641.8	647.6	652.4	657.0	655.9	655.9
167.5°	619.2	624.0	628.2	630.3	633.6	632.4	632.4
170°	608.9	613.6	616.0	617.1	619.6	618.3	618.3
172.5°	600.5	604.3	605.6	605.9	608.2	606.1	605.2
175°	589.0	591.4	591.4	591.4	592.5	591.4	590.2
177.5°	582.4	583.4	583.4	582.4	583.4	581.5	581.5
180°	579.7	579.7	579.7	579.7	579.7	579.7	579.7

(END OF REPORT)