

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: P332254-840

Luminaire Tested: **S123RDIP-S340D805U840-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332254-840
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-S340D805U840-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 805 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4305.8 lumens
Efficiency: N/A
Efficacy: 138.0 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

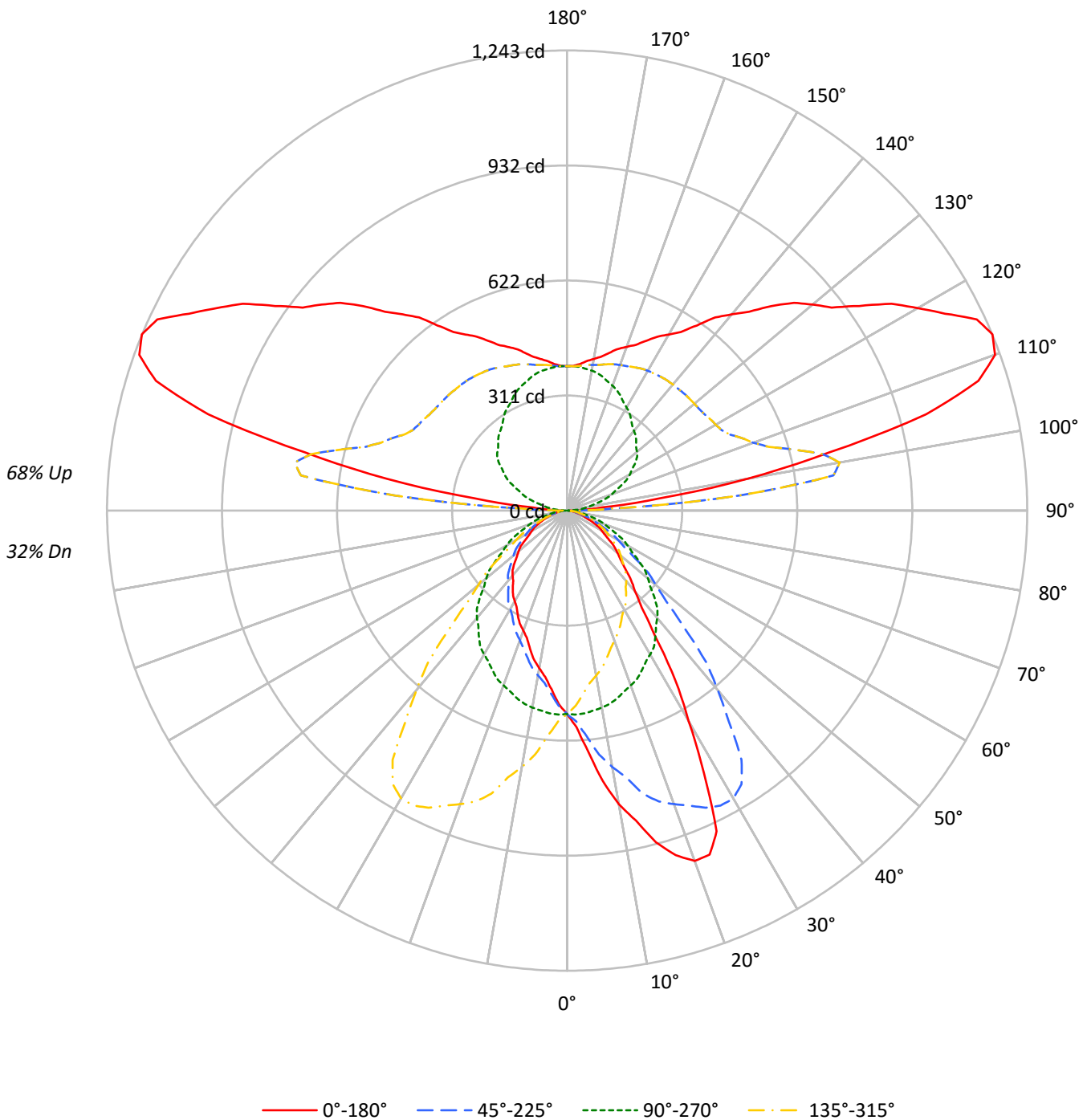
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	50	30	10	0														
RCR																																						
0	103	103	103	103	93	93	93	93	73	73	73	56	56	56	39	39	39	32																				
1	94	90	86	83	85	81	78	75	65	63	61	49	48	47	35	35	34	28																				
2	86	79	73	68	77	71	67	62	57	54	51	44	42	40	32	30	29	24																				
3	79	70	63	57	71	63	57	52	51	46	43	39	36	34	28	27	25	20																				
4	72	62	54	49	65	56	50	45	45	41	37	35	32	29	26	24	22	18																				
5	66	55	47	42	59	50	43	38	40	36	32	31	28	26	23	21	19	16																				
6	61	49	42	36	55	45	38	33	36	32	28	28	25	22	21	19	17	14																				
7	56	45	37	32	51	41	34	29	33	28	25	26	23	20	19	17	15	13																				
8	52	40	33	28	47	37	30	26	30	25	22	24	20	18	18	15	14	11																				
9	49	37	30	25	44	34	27	23	28	23	20	22	18	16	16	14	13	10																				
10	45	34	27	22	41	31	25	21	25	21	18	20	17	14	15	13	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	1.3
10°-20°	168.9	3.9
20°-30°	265.3	6.2
30°-40°	276.8	6.4
40°-50°	236.9	5.5
50°-60°	180.5	4.2
60°-70°	115.7	2.7
70°-80°	55.7	1.3
80°-90°	17.8	0.4
90°-100°	217.1	5.0
100°-110°	614.6	14.3
110°-120°	604.6	14.0
120°-130°	482.3	11.2
130°-140°	380.2	8.8
140°-150°	283.8	6.6
150°-160°	197.8	4.6
160°-170°	116.2	2.7
170°-180°	37.8	0.9
0°-30°	488.2	11.3
0°-40°	764.9	17.8
0°-60°	1182.3	27.5
0°-90°	1371.5	31.9
90°-120°	1436.3	33.4
90°-150°	2582.6	60.0
90°-180°	2934.0	68.1
0°-180°	4305.8	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°	23	2	23	2	23	12
95°	92	27	92	27	92	165
105°	1004	92	1004	92	1004	991
115°	1221	162	1221	162	1221	1187
125°	963	225	963	225	963	873
135°	781	264	781	264	781	606
145°	610	301	610	301	610	388
155°	506	342	506	342	506	236
165°	441	373	441	373	441	126
175°	397	389	397	389	397	39
180°	390	390	390	390	390	



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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°	6.5	7.0	6.5	6.5	6.7	6.6	6.4	6.2	6.5	6.4	6.1
90°	22.9	23.7	22.9	22.1	22.9	21.3	20.5	19.7	19.0	19.7	17.4
92.5°	38.1	39.5	38.7	41.1	42.5	46.6	52.7	66.4	91.6	121.4	133.6
95°	91.6	94.7	100.3	107.3	122.4	150.8	192.7	284.3	379.8	468.2	416.9
97.5°	249.3	256.1	277.4	313.0	371.2	465.6	567.5	708.5	776.3	725.6	531.2
100°	495.0	494.2	525.0	582.7	662.4	774.6	866.9	930.9	903.2	747.7	505.3
102.5°	726.2	744.4	770.1	815.8	877.8	948.9	1002.7	1004.7	909.6	706.6	467.4
105°	1004.3	1008.2	1033.5	1063.5	1099.8	1120.3	1105.3	1026.4	861.4	634.8	420.8
107.5°	1164.4	1171.6	1180.2	1190.3	1189.6	1161.5	1092.4	964.2	777.1	571.3	391.1
110°	1230.1	1231.6	1233.2	1226.9	1204.9	1149.5	1050.1	904.8	724.0	535.3	379.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1243.3	1243.0	1237.1	1217.5	1177.0	1106.0	994.5	846.1	677.9	511.3	373.4
115°	1221.4	1217.5	1201.6	1166.9	1107.7	1021.7	905.5	768.2	622.2	485.5	371.1
117.5°	1151.7	1146.2	1123.5	1083.7	1022.0	934.6	830.4	711.9	588.5	470.4	372.5
120°	1093.5	1088.7	1069.9	1025.6	963.2	883.5	788.7	682.2	570.9	463.4	375.1
122.5°	1039.2	1033.2	1012.3	972.5	917.2	843.0	755.3	658.8	556.3	459.1	379.4
125°	963.2	957.7	938.0	903.2	852.7	789.5	713.8	627.6	537.7	453.2	386.1
127.5°	900.7	895.6	877.8	848.1	803.1	745.7	677.2	600.6	521.3	450.4	393.6
130°	865.4	859.0	842.4	814.1	772.1	718.5	654.5	583.5	512.4	448.5	398.7
132.5°	830.6	826.2	811.5	783.0	743.8	692.6	633.1	567.6	504.2	447.8	402.5
135°	780.8	775.3	761.1	737.4	698.7	653.7	602.4	546.3	493.4	446.9	408.2
137.5°	728.3	724.7	712.7	688.6	656.1	617.1	572.9	526.9	484.1	445.1	412.0
140°	691.7	692.5	679.7	657.7	627.6	593.7	555.8	515.5	478.5	444.5	414.5
142.5°	657.5	658.3	646.9	627.3	601.8	572.3	539.4	504.8	473.4	443.2	416.4
145°	610.3	608.7	602.4	585.8	566.1	543.2	518.0	491.9	466.7	441.3	417.7
147.5°	571.5	570.9	564.8	553.6	538.7	522.4	502.0	481.3	460.0	438.4	417.7
150°	548.8	548.8	544.0	535.3	523.4	508.5	491.9	473.7	455.6	435.9	417.7
152.5°	529.8	529.8	526.9	518.9	509.6	497.1	482.4	466.8	450.5	432.6	415.8
155°	506.0	505.3	503.7	497.4	490.3	480.8	469.0	456.4	442.9	427.2	413.7
157.5°	484.4	484.6	483.3	478.6	472.4	465.0	455.9	445.2	434.4	422.2	411.0
160°	470.6	471.3	471.3	466.7	461.1	455.6	447.7	439.0	428.7	418.5	409.8
162.5°	458.0	458.7	458.7	454.6	451.0	446.1	438.8	431.4	423.0	414.7	407.3
165°	441.3	441.3	442.1	439.0	435.9	431.9	426.4	421.6	415.3	409.0	403.4
167.5°	425.6	425.6	426.4	424.1	422.7	419.9	416.7	413.0	407.9	403.3	399.7
170°	416.1	416.1	416.9	415.3	414.5	412.9	409.8	407.4	403.4	399.5	397.2
172.5°	407.3	407.9	409.3	407.7	407.6	406.6	404.0	402.3	399.0	396.4	395.3
175°	397.2	397.9	398.7	397.9	397.9	397.9	396.4	395.6	393.9	392.4	392.4
177.5°	391.3	391.3	392.5	391.9	392.5	392.5	391.9	391.3	390.6	390.0	390.6
180°	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0



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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°	6.1	5.4	5.3	4.9	5.2	4.9	5.8	6.4	6.9	6.4	6.9
90°	15.0	12.6	10.3	8.7	7.1	4.7	3.1	1.6	3.1	4.7	7.1
92.5°	100.3	66.3	45.6	33.9	27.4	21.2	14.5	9.8	14.5	21.2	27.4
95°	287.4	169.8	102.6	71.8	51.3	37.9	29.2	26.9	29.2	37.9	51.3
97.5°	315.4	182.7	118.6	85.2	65.0	53.4	46.6	45.7	46.6	53.4	65.0
100°	297.6	180.8	125.5	94.7	75.8	64.7	59.2	58.5	59.2	64.7	75.8
102.5°	282.5	183.3	133.7	105.5	88.5	78.0	73.1	71.7	73.1	78.0	88.5
105°	271.6	190.3	147.6	123.2	108.2	98.7	93.9	91.6	93.9	98.7	108.2
107.5°	270.8	203.2	165.8	143.1	129.0	119.7	115.1	112.7	115.1	119.7	129.0
110°	274.0	214.0	178.4	156.3	142.9	134.2	130.3	127.9	130.3	134.2	142.9



TEST NUMBER: P332254-840

CATALOG NUMBER: S123RDIP-S340D805U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	280.2	224.7	191.7	170.3	156.8	148.1	144.2	141.8	144.2	148.1	156.8
115°	290.5	242.4	212.4	191.1	177.6	169.8	165.0	161.9	165.0	169.8	177.6
117.5°	304.2	261.2	231.5	211.8	196.7	189.5	185.5	181.9	185.5	189.5	196.7
120°	314.3	273.2	244.8	225.0	210.1	202.1	198.1	195.8	198.1	202.1	210.1
122.5°	323.7	285.8	258.0	237.0	222.7	214.1	210.2	207.8	210.2	214.1	222.7
125°	338.7	304.0	276.3	255.0	240.0	231.4	226.6	225.0	226.6	231.4	240.0
127.5°	351.0	319.7	293.1	271.8	255.2	246.3	240.4	238.1	240.4	246.3	255.2
130°	359.2	329.2	303.2	281.9	265.3	255.8	248.7	246.3	248.7	255.8	265.3
132.5°	366.8	337.4	312.0	291.3	274.8	263.4	255.7	252.7	255.7	263.4	274.8
135°	376.6	349.7	325.3	304.0	287.4	275.6	266.9	263.7	266.9	275.6	287.4
137.5°	383.8	358.3	334.8	315.0	298.6	286.0	277.4	274.1	277.4	286.0	298.6
140°	387.7	364.0	341.0	321.3	305.6	293.0	285.0	281.0	285.0	293.0	305.6
142.5°	391.4	368.4	346.1	327.7	311.8	300.5	292.0	288.6	292.0	300.5	311.8
145°	395.6	374.3	353.8	335.6	322.1	310.3	303.2	300.8	303.2	310.3	322.1
147.5°	398.1	379.0	360.2	344.7	331.7	321.5	314.6	313.2	314.6	321.5	331.7
150°	398.7	382.1	364.0	349.7	338.7	328.4	322.1	321.3	322.1	328.4	338.7
152.5°	400.0	384.1	368.4	354.8	345.1	336.0	329.7	329.5	329.7	336.0	345.1
155°	400.3	387.7	374.3	363.1	354.5	346.6	341.8	341.8	341.8	346.6	354.5
157.5°	401.1	389.7	379.0	370.4	363.0	356.1	352.2	351.6	352.2	356.1	363.0
160°	401.1	391.6	382.1	374.3	368.7	362.4	359.2	359.2	359.2	362.4	368.7
162.5°	400.4	392.2	384.1	377.4	372.5	367.5	365.0	365.0	365.0	367.5	372.5
165°	398.7	393.1	386.9	381.3	378.2	374.3	372.6	373.4	372.6	374.3	378.2
167.5°	397.5	393.0	388.5	385.0	382.7	379.8	379.0	379.9	379.0	379.8	382.7
170°	395.6	392.4	388.5	386.9	385.3	382.9	382.1	383.7	382.1	382.9	385.3
172.5°	395.0	392.4	389.1	388.1	387.2	385.5	385.3	386.3	385.3	385.5	387.2
175°	393.1	391.6	390.0	389.2	389.2	387.7	388.5	389.2	388.5	387.7	389.2
177.5°	391.9	390.6	390.0	390.0	390.0	389.4	390.0	390.6	390.0	389.4	390.0
180°	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0



TEST NUMBER: P332254-840

CATALOG NUMBER: S123RDIP-S340D805U840-4F0-1E-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°	7.0	7.9	8.6	9.2	9.9	10.2	10.2	10.3	10.7	10.8	11.2
90°	8.7	10.3	12.6	15.0	17.4	19.7	19.0	19.7	20.5	21.3	22.9
92.5°	33.9	45.6	66.3	100.3	133.6	121.4	91.6	66.4	52.7	46.6	42.5
95°	71.8	102.6	169.8	287.4	416.9	468.2	379.8	284.3	192.7	150.8	122.4
97.5°	85.2	118.6	182.7	315.4	531.2	725.6	776.3	708.5	567.5	465.6	371.2
100°	94.7	125.5	180.8	297.6	505.3	747.7	903.2	930.9	866.9	774.6	662.4
102.5°	105.5	133.7	183.3	282.5	467.4	706.6	909.6	1004.7	1002.7	948.9	877.8
105°	123.2	147.6	190.3	271.6	420.8	634.8	861.4	1026.4	1105.3	1120.3	1099.8
107.5°	143.1	165.8	203.2	270.8	391.1	571.3	777.1	964.2	1092.4	1161.5	1189.6
110°	156.3	178.4	214.0	274.0	379.8	535.3	724.0	904.8	1050.1	1149.5	1204.9



TEST NUMBER: P332254-840

CATALOG NUMBER: S123RDIP-S340D805U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	170.3	191.7	224.7	280.2	373.4	511.3	677.9	846.1	994.5	1106.0	1177.0
115°	191.1	212.4	242.4	290.5	371.1	485.5	622.2	768.2	905.5	1021.7	1107.7
117.5°	211.8	231.5	261.2	304.2	372.5	470.4	588.5	711.9	830.4	934.6	1022.0
120°	225.0	244.8	273.2	314.3	375.1	463.4	570.9	682.2	788.7	883.5	963.2
122.5°	237.0	258.0	285.8	323.7	379.4	459.1	556.3	658.8	755.3	843.0	917.2
125°	255.0	276.3	304.0	338.7	386.1	453.2	537.7	627.6	713.8	789.5	852.7
127.5°	271.8	293.1	319.7	351.0	393.6	450.4	521.3	600.6	677.2	745.7	803.1
130°	281.9	303.2	329.2	359.2	398.7	448.5	512.4	583.5	654.5	718.5	772.1
132.5°	291.3	312.0	337.4	366.8	402.5	447.8	504.2	567.6	633.1	692.6	743.8
135°	304.0	325.3	349.7	376.6	408.2	446.9	493.4	546.3	602.4	653.7	698.7
137.5°	315.0	334.8	358.3	383.8	412.0	445.1	484.1	526.9	572.9	617.1	656.1
140°	321.3	341.0	364.0	387.7	414.5	444.5	478.5	515.5	555.8	593.7	627.6
142.5°	327.7	346.1	368.4	391.4	416.4	443.2	473.4	504.8	539.4	572.3	601.8
145°	335.6	353.8	374.3	395.6	417.7	441.3	466.7	491.9	518.0	543.2	566.1
147.5°	344.7	360.2	379.0	398.1	417.7	438.4	460.0	481.3	502.0	522.4	538.7
150°	349.7	364.0	382.1	398.7	417.7	435.9	455.6	473.7	491.9	508.5	523.4
152.5°	354.8	368.4	384.1	400.0	415.8	432.6	450.5	466.8	482.4	497.1	509.6
155°	363.1	374.3	387.7	400.3	413.7	427.2	442.9	456.4	469.0	480.8	490.3
157.5°	370.4	379.0	389.7	401.1	411.0	422.2	434.4	445.2	455.9	465.0	472.4
160°	374.3	382.1	391.6	401.1	409.8	418.5	428.7	439.0	447.7	455.6	461.1
162.5°	377.4	384.1	392.2	400.4	407.3	414.7	423.0	431.4	438.8	446.1	451.0
165°	381.3	386.9	393.1	398.7	403.4	409.0	415.3	421.6	426.4	431.9	435.9
167.5°	385.0	388.5	393.0	397.5	399.7	403.3	407.9	413.0	416.7	419.9	422.7
170°	386.9	388.5	392.4	395.6	397.2	399.5	403.4	407.4	409.8	412.9	414.5
172.5°	388.1	389.1	392.4	395.0	395.3	396.4	399.0	402.3	404.0	406.6	407.6
175°	389.2	390.0	391.6	393.1	392.4	392.4	393.9	395.6	396.4	397.9	397.9
177.5°	390.0	390.0	390.6	391.9	390.6	390.0	390.6	391.3	391.9	392.5	392.5
180°	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0



TEST NUMBER: P332254-840

CATALOG NUMBER: S123RDIP-S340D805U840-4F0-1E-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°	11.4	11.2	11.3	11.3	11.3	11.2	11.4	11.2	10.8	10.7	10.3
90°	22.1	22.9	23.7	22.9	23.7	22.9	22.1	22.9	21.3	20.5	19.7
92.5°	41.1	38.7	39.5	38.1	39.5	38.7	41.1	42.5	46.6	52.7	66.4
95°	107.3	100.3	94.7	91.6	94.7	100.3	107.3	122.4	150.8	192.7	284.3
97.5°	313.0	277.4	256.1	249.3	256.1	277.4	313.0	371.2	465.6	567.5	708.5
100°	582.7	525.0	494.2	495.0	494.2	525.0	582.7	662.4	774.6	866.9	930.9
102.5°	815.8	770.1	744.4	726.2	744.4	770.1	815.8	877.8	948.9	1002.7	1004.7
105°	1063.5	1033.5	1008.2	1004.3	1008.2	1033.5	1063.5	1099.8	1120.3	1105.3	1026.4
107.5°	1190.3	1180.2	1171.6	1164.4	1171.6	1180.2	1190.3	1189.6	1161.5	1092.4	964.2
110°	1226.9	1233.2	1231.6	1230.1	1231.6	1233.2	1226.9	1204.9	1149.5	1050.1	904.8



TEST NUMBER: P332254-840

CATALOG NUMBER: S123RDIP-S340D805U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1217.5	1237.1	1243.0	1243.3	1243.0	1237.1	1217.5	1177.0	1106.0	994.5	846.1
115°	1166.9	1201.6	1217.5	1221.4	1217.5	1201.6	1166.9	1107.7	1021.7	905.5	768.2
117.5°	1083.7	1123.5	1146.2	1151.7	1146.2	1123.5	1083.7	1022.0	934.6	830.4	711.9
120°	1025.6	1069.9	1088.7	1093.5	1088.7	1069.9	1025.6	963.2	883.5	788.7	682.2
122.5°	972.5	1012.3	1033.2	1039.2	1033.2	1012.3	972.5	917.2	843.0	755.3	658.8
125°	903.2	938.0	957.7	963.2	957.7	938.0	903.2	852.7	789.5	713.8	627.6
127.5°	848.1	877.8	895.6	900.7	895.6	877.8	848.1	803.1	745.7	677.2	600.6
130°	814.1	842.4	859.0	865.4	859.0	842.4	814.1	772.1	718.5	654.5	583.5
132.5°	783.0	811.5	826.2	830.6	826.2	811.5	783.0	743.8	692.6	633.1	567.6
135°	737.4	761.1	775.3	780.8	775.3	761.1	737.4	698.7	653.7	602.4	546.3
137.5°	688.6	712.7	724.7	728.3	724.7	712.7	688.6	656.1	617.1	572.9	526.9
140°	657.7	679.7	692.5	691.7	692.5	679.7	657.7	627.6	593.7	555.8	515.5
142.5°	627.3	646.9	658.3	657.5	658.3	646.9	627.3	601.8	572.3	539.4	504.8
145°	585.8	602.4	608.7	610.3	608.7	602.4	585.8	566.1	543.2	518.0	491.9
147.5°	553.6	564.8	570.9	571.5	570.9	564.8	553.6	538.7	522.4	502.0	481.3
150°	535.3	544.0	548.8	548.8	548.8	544.0	535.3	523.4	508.5	491.9	473.7
152.5°	518.9	526.9	529.8	529.8	529.8	526.9	518.9	509.6	497.1	482.4	466.8
155°	497.4	503.7	505.3	506.0	505.3	503.7	497.4	490.3	480.8	469.0	456.4
157.5°	478.6	483.3	484.6	484.4	484.6	483.3	478.6	472.4	465.0	455.9	445.2
160°	466.7	471.3	471.3	470.6	471.3	471.3	466.7	461.1	455.6	447.7	439.0
162.5°	454.6	458.7	458.7	458.0	458.7	458.7	454.6	451.0	446.1	438.8	431.4
165°	439.0	442.1	441.3	441.3	441.3	442.1	439.0	435.9	431.9	426.4	421.6
167.5°	424.1	426.4	425.6	425.6	425.6	426.4	424.1	422.7	419.9	416.7	413.0
170°	415.3	416.9	416.1	416.1	416.1	416.9	415.3	414.5	412.9	409.8	407.4
172.5°	407.7	409.3	407.9	407.3	407.9	409.3	407.7	407.6	406.6	404.0	402.3
175°	397.9	398.7	397.9	397.2	397.9	398.7	397.9	397.9	397.9	396.4	395.6
177.5°	391.9	392.5	391.3	391.3	391.3	392.5	391.9	392.5	392.5	391.9	391.3
180°	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0



TEST NUMBER: P332254-840

CATALOG NUMBER: S123RDIP-S340D805U840-4F0-1E-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°	10.2	10.2	9.9	9.2	8.6	7.9	7.0	6.9	6.4	6.9	6.4
90°	19.0	19.7	17.4	15.0	12.6	10.3	8.7	7.1	4.7	3.1	1.6
92.5°	91.6	121.4	133.6	100.3	66.3	45.6	33.9	27.4	21.2	14.5	9.8
95°	379.8	468.2	416.9	287.4	169.8	102.6	71.8	51.3	37.9	29.2	26.9
97.5°	776.3	725.6	531.2	315.4	182.7	118.6	85.2	65.0	53.4	46.6	45.7
100°	903.2	747.7	505.3	297.6	180.8	125.5	94.7	75.8	64.7	59.2	58.5
102.5°	909.6	706.6	467.4	282.5	183.3	133.7	105.5	88.5	78.0	73.1	71.7
105°	861.4	634.8	420.8	271.6	190.3	147.6	123.2	108.2	98.7	93.9	91.6
107.5°	777.1	571.3	391.1	270.8	203.2	165.8	143.1	129.0	119.7	115.1	112.7
110°	724.0	535.3	379.8	274.0	214.0	178.4	156.3	142.9	134.2	130.3	127.9



TEST NUMBER: P332254-840

CATALOG NUMBER: S123RDIP-S340D805U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	677.9	511.3	373.4	280.2	224.7	191.7	170.3	156.8	148.1	144.2	141.8
115°	622.2	485.5	371.1	290.5	242.4	212.4	191.1	177.6	169.8	165.0	161.9
117.5°	588.5	470.4	372.5	304.2	261.2	231.5	211.8	196.7	189.5	185.5	181.9
120°	570.9	463.4	375.1	314.3	273.2	244.8	225.0	210.1	202.1	198.1	195.8
122.5°	556.3	459.1	379.4	323.7	285.8	258.0	237.0	222.7	214.1	210.2	207.8
125°	537.7	453.2	386.1	338.7	304.0	276.3	255.0	240.0	231.4	226.6	225.0
127.5°	521.3	450.4	393.6	351.0	319.7	293.1	271.8	255.2	246.3	240.4	238.1
130°	512.4	448.5	398.7	359.2	329.2	303.2	281.9	265.3	255.8	248.7	246.3
132.5°	504.2	447.8	402.5	366.8	337.4	312.0	291.3	274.8	263.4	255.7	252.7
135°	493.4	446.9	408.2	376.6	349.7	325.3	304.0	287.4	275.6	266.9	263.7
137.5°	484.1	445.1	412.0	383.8	358.3	334.8	315.0	298.6	286.0	277.4	274.1
140°	478.5	444.5	414.5	387.7	364.0	341.0	321.3	305.6	293.0	285.0	281.0
142.5°	473.4	443.2	416.4	391.4	368.4	346.1	327.7	311.8	300.5	292.0	288.6
145°	466.7	441.3	417.7	395.6	374.3	353.8	335.6	322.1	310.3	303.2	300.8
147.5°	460.0	438.4	417.7	398.1	379.0	360.2	344.7	331.7	321.5	314.6	313.2
150°	455.6	435.9	417.7	398.7	382.1	364.0	349.7	338.7	328.4	322.1	321.3
152.5°	450.5	432.6	415.8	400.0	384.1	368.4	354.8	345.1	336.0	329.7	329.5
155°	442.9	427.2	413.7	400.3	387.7	374.3	363.1	354.5	346.6	341.8	341.8
157.5°	434.4	422.2	411.0	401.1	389.7	379.0	370.4	363.0	356.1	352.2	351.6
160°	428.7	418.5	409.8	401.1	391.6	382.1	374.3	368.7	362.4	359.2	359.2
162.5°	423.0	414.7	407.3	400.4	392.2	384.1	377.4	372.5	367.5	365.0	365.0
165°	415.3	409.0	403.4	398.7	393.1	386.9	381.3	378.2	374.3	372.6	373.4
167.5°	407.9	403.3	399.7	397.5	393.0	388.5	385.0	382.7	379.8	379.0	379.9
170°	403.4	399.5	397.2	395.6	392.4	388.5	386.9	385.3	382.9	382.1	383.7
172.5°	399.0	396.4	395.3	395.0	392.4	389.1	388.1	387.2	385.5	385.3	386.3
175°	393.9	392.4	392.4	393.1	391.6	390.0	389.2	389.2	387.7	388.5	389.2
177.5°	390.6	390.0	390.6	391.9	390.6	390.0	390.0	390.0	389.4	390.0	390.6
180°	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0



TEST NUMBER: P332254-840

CATALOG NUMBER: S123RDIP-S340D805U840-4F0-1E-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°	5.8	4.9	5.2	4.9	5.3	5.4	6.1	6.1	6.4	6.5	6.2
90°	3.1	4.7	7.1	8.7	10.3	12.6	15.0	17.4	19.7	19.0	19.7
92.5°	14.5	21.2	27.4	33.9	45.6	66.3	100.3	133.6	121.4	91.6	66.4
95°	29.2	37.9	51.3	71.8	102.6	169.8	287.4	416.9	468.2	379.8	284.3
97.5°	46.6	53.4	65.0	85.2	118.6	182.7	315.4	531.2	725.6	776.3	708.5
100°	59.2	64.7	75.8	94.7	125.5	180.8	297.6	505.3	747.7	903.2	930.9
102.5°	73.1	78.0	88.5	105.5	133.7	183.3	282.5	467.4	706.6	909.6	1004.7
105°	93.9	98.7	108.2	123.2	147.6	190.3	271.6	420.8	634.8	861.4	1026.4
107.5°	115.1	119.7	129.0	143.1	165.8	203.2	270.8	391.1	571.3	777.1	964.2
110°	130.3	134.2	142.9	156.3	178.4	214.0	274.0	379.8	535.3	724.0	904.8



TEST NUMBER: P332254-840

CATALOG NUMBER: S123RDIP-S340D805U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	144.2	148.1	156.8	170.3	191.7	224.7	280.2	373.4	511.3	677.9	846.1
115°	165.0	169.8	177.6	191.1	212.4	242.4	290.5	371.1	485.5	622.2	768.2
117.5°	185.5	189.5	196.7	211.8	231.5	261.2	304.2	372.5	470.4	588.5	711.9
120°	198.1	202.1	210.1	225.0	244.8	273.2	314.3	375.1	463.4	570.9	682.2
122.5°	210.2	214.1	222.7	237.0	258.0	285.8	323.7	379.4	459.1	556.3	658.8
125°	226.6	231.4	240.0	255.0	276.3	304.0	338.7	386.1	453.2	537.7	627.6
127.5°	240.4	246.3	255.2	271.8	293.1	319.7	351.0	393.6	450.4	521.3	600.6
130°	248.7	255.8	265.3	281.9	303.2	329.2	359.2	398.7	448.5	512.4	583.5
132.5°	255.7	263.4	274.8	291.3	312.0	337.4	366.8	402.5	447.8	504.2	567.6
135°	266.9	275.6	287.4	304.0	325.3	349.7	376.6	408.2	446.9	493.4	546.3
137.5°	277.4	286.0	298.6	315.0	334.8	358.3	383.8	412.0	445.1	484.1	526.9
140°	285.0	293.0	305.6	321.3	341.0	364.0	387.7	414.5	444.5	478.5	515.5
142.5°	292.0	300.5	311.8	327.7	346.1	368.4	391.4	416.4	443.2	473.4	504.8
145°	303.2	310.3	322.1	335.6	353.8	374.3	395.6	417.7	441.3	466.7	491.9
147.5°	314.6	321.5	331.7	344.7	360.2	379.0	398.1	417.7	438.4	460.0	481.3
150°	322.1	328.4	338.7	349.7	364.0	382.1	398.7	417.7	435.9	455.6	473.7
152.5°	329.7	336.0	345.1	354.8	368.4	384.1	400.0	415.8	432.6	450.5	466.8
155°	341.8	346.6	354.5	363.1	374.3	387.7	400.3	413.7	427.2	442.9	456.4
157.5°	352.2	356.1	363.0	370.4	379.0	389.7	401.1	411.0	422.2	434.4	445.2
160°	359.2	362.4	368.7	374.3	382.1	391.6	401.1	409.8	418.5	428.7	439.0
162.5°	365.0	367.5	372.5	377.4	384.1	392.2	400.4	407.3	414.7	423.0	431.4
165°	372.6	374.3	378.2	381.3	386.9	393.1	398.7	403.4	409.0	415.3	421.6
167.5°	379.0	379.8	382.7	385.0	388.5	393.0	397.5	399.7	403.3	407.9	413.0
170°	382.1	382.9	385.3	386.9	388.5	392.4	395.6	397.2	399.5	403.4	407.4
172.5°	385.3	385.5	387.2	388.1	389.1	392.4	395.0	395.3	396.4	399.0	402.3
175°	388.5	387.7	389.2	389.2	390.0	391.6	393.1	392.4	392.4	393.9	395.6
177.5°	390.0	389.4	390.0	390.0	390.0	390.6	391.9	390.6	390.0	390.6	391.3
180°	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0



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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°	6.4	6.6	6.7	6.5	6.5	7.0	6.5
90°	20.5	21.3	22.9	22.1	22.9	23.7	22.9
92.5°	52.7	46.6	42.5	41.1	38.7	39.5	38.1
95°	192.7	150.8	122.4	107.3	100.3	94.7	91.6
97.5°	567.5	465.6	371.2	313.0	277.4	256.1	249.3
100°	866.9	774.6	662.4	582.7	525.0	494.2	495.0
102.5°	1002.7	948.9	877.8	815.8	770.1	744.4	726.2
105°	1105.3	1120.3	1099.8	1063.5	1033.5	1008.2	1004.3
107.5°	1092.4	1161.5	1189.6	1190.3	1180.2	1171.6	1164.4
110°	1050.1	1149.5	1204.9	1226.9	1233.2	1231.6	1230.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	994.5	1106.0	1177.0	1217.5	1237.1	1243.0	1243.3
115°	905.5	1021.7	1107.7	1166.9	1201.6	1217.5	1221.4
117.5°	830.4	934.6	1022.0	1083.7	1123.5	1146.2	1151.7
120°	788.7	883.5	963.2	1025.6	1069.9	1088.7	1093.5
122.5°	755.3	843.0	917.2	972.5	1012.3	1033.2	1039.2
125°	713.8	789.5	852.7	903.2	938.0	957.7	963.2
127.5°	677.2	745.7	803.1	848.1	877.8	895.6	900.7
130°	654.5	718.5	772.1	814.1	842.4	859.0	865.4
132.5°	633.1	692.6	743.8	783.0	811.5	826.2	830.6
135°	602.4	653.7	698.7	737.4	761.1	775.3	780.8
137.5°	572.9	617.1	656.1	688.6	712.7	724.7	728.3
140°	555.8	593.7	627.6	657.7	679.7	692.5	691.7
142.5°	539.4	572.3	601.8	627.3	646.9	658.3	657.5
145°	518.0	543.2	566.1	585.8	602.4	608.7	610.3
147.5°	502.0	522.4	538.7	553.6	564.8	570.9	571.5
150°	491.9	508.5	523.4	535.3	544.0	548.8	548.8
152.5°	482.4	497.1	509.6	518.9	526.9	529.8	529.8
155°	469.0	480.8	490.3	497.4	503.7	505.3	506.0
157.5°	455.9	465.0	472.4	478.6	483.3	484.6	484.4
160°	447.7	455.6	461.1	466.7	471.3	471.3	470.6
162.5°	438.8	446.1	451.0	454.6	458.7	458.7	458.0
165°	426.4	431.9	435.9	439.0	442.1	441.3	441.3
167.5°	416.7	419.9	422.7	424.1	426.4	425.6	425.6
170°	409.8	412.9	414.5	415.3	416.9	416.1	416.1
172.5°	404.0	406.6	407.6	407.7	409.3	407.9	407.3
175°	396.4	397.9	397.9	397.9	398.7	397.9	397.2
177.5°	391.9	392.5	392.5	391.9	392.5	391.3	391.3
180°	390.0	390.0	390.0	390.0	390.0	390.0	390.0

(END OF REPORT)