

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: P332390-840

Luminaire Tested: **S123RDIW-S340D460U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332390-840
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: S123RDIW-S340D460U840-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 460 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3232.4 lumens
Efficiency: N/A
Efficacy: 140.5 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: General Diffuse

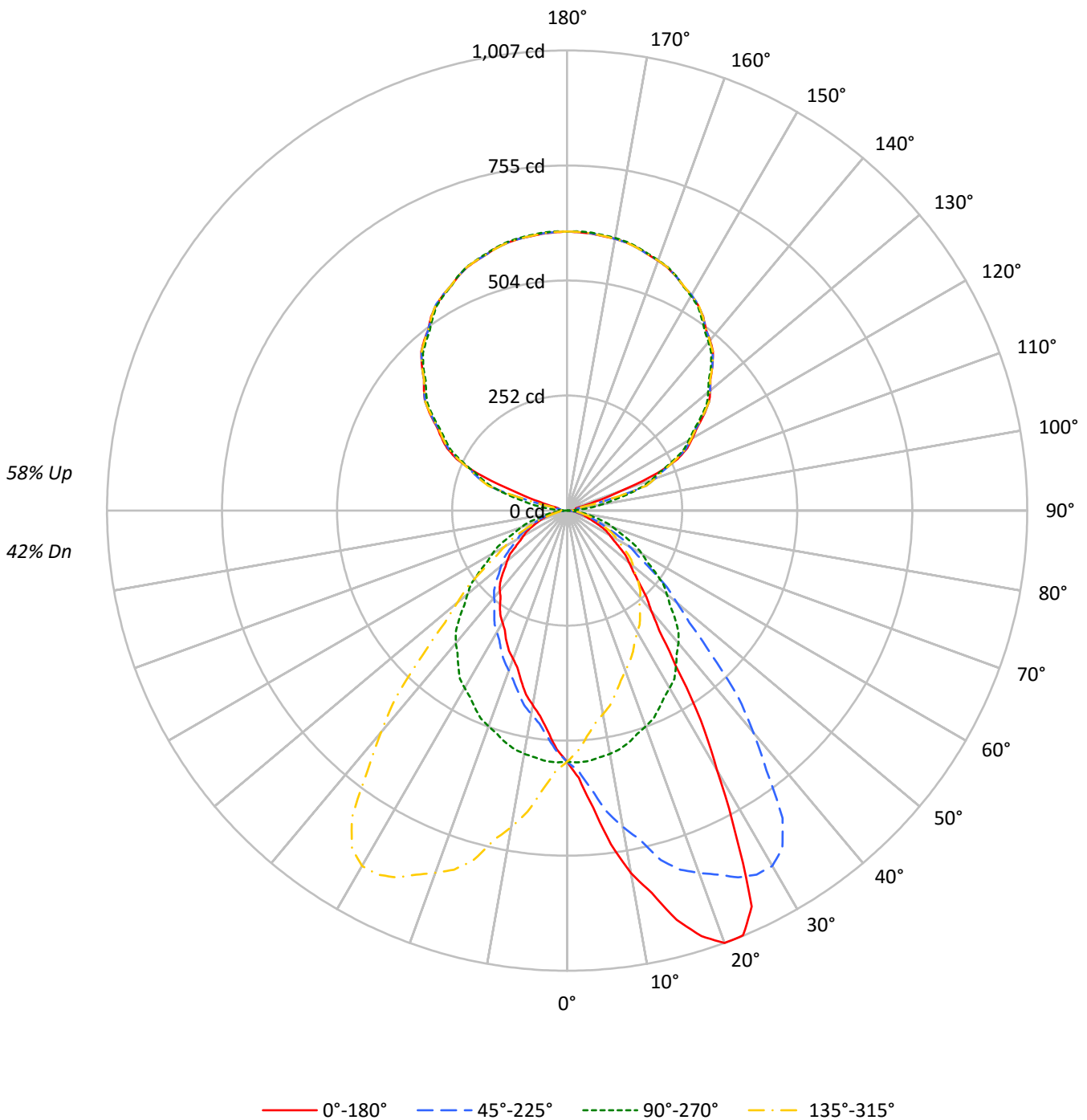
Input Watts (W): 23
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	97	92	89	86	88	85	82	79	70	68	66	57	55	54	44	43	42	37
2	88	81	76	71	81	75	70	65	62	58	55	50	48	46	39	38	36	32
3	81	72	65	59	74	66	60	55	55	51	47	45	42	39	35	33	32	27
4	74	64	56	51	68	59	52	47	49	44	40	40	37	34	32	30	28	24
5	68	57	49	44	62	53	46	41	44	39	35	36	33	30	29	26	24	21
6	63	51	44	38	57	47	41	36	40	35	31	33	29	26	26	24	22	19
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	24	21	19	17
8	54	42	35	30	49	39	32	28	33	28	24	28	24	21	22	20	17	15
9	50	39	31	26	46	36	29	25	30	25	22	25	22	19	21	18	16	14
10	47	35	28	24	43	33	27	22	28	23	20	23	20	17	19	16	14	12

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	1.7
10°-20°	168.9	5.2
20°-30°	265.3	8.2
30°-40°	276.8	8.6
40°-50°	236.9	7.3
50°-60°	180.5	5.6
60°-70°	115.7	3.6
70°-80°	55.7	1.7
80°-90°	16.4	0.5
90°-100°	22.2	0.7
100°-110°	105.8	3.3
110°-120°	254.2	7.9
120°-130°	323.7	10.0
130°-140°	345.8	10.7
140°-150°	323.4	10.0
150°-160°	260.8	8.1
160°-170°	168.4	5.2
170°-180°	58.0	1.8
0°-30°	488.2	15.1
0°-40°	764.9	23.7
0°-60°	1182.3	36.6
0°-90°	1370.1	42.4
90°-120°	382.2	11.8
90°-150°	1375.1	42.5
90°-180°	1862.0	57.6
0°-180°	3232.4	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°	14	0	14	0	14	6
95°	17	28	17	28	17	14
105°	20	135	20	135	20	46
115°	267	254	267	254	267	247
125°	365	358	365	358	365	326
135°	450	445	450	445	450	347
145°	519	514	519	514	519	324
155°	565	566	565	566	565	260
165°	595	597	595	597	595	168
175°	608	611	608	611	608	58
180°	611	611	611	611	611	



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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°	4.6	4.9	4.5	4.6	4.6	4.7	4.6	4.6	4.8	4.6	4.5
90°	13.6	13.4	13.2	13.0	12.8	12.5	12.1	11.7	11.3	10.9	9.6
92.5°	15.0	14.9	14.8	14.7	14.5	14.2	13.5	12.9	12.2	11.6	10.6
95°	17.3	17.3	17.3	17.3	17.3	16.9	16.2	15.5	14.7	14.0	12.9
97.5°	18.7	18.6	18.5	18.4	18.3	17.9	17.1	16.3	15.5	14.6	21.9
100°	19.1	19.0	18.9	18.8	18.7	18.2	17.4	16.6	15.8	14.9	30.7
102.5°	19.4	19.2	19.1	18.9	18.7	19.9	22.3	24.8	27.4	29.9	47.1
105°	20.0	19.8	19.6	19.4	19.2	28.0	45.8	63.6	81.5	99.4	108.5
107.5°	62.7	76.1	89.6	103.0	116.5	129.8	142.9	155.9	169.1	182.1	180.7
110°	124.8	139.2	153.6	168.0	182.5	191.3	194.6	197.9	201.3	204.6	203.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	214.1	217.1	220.2	223.2	226.2	227.7	227.6	227.6	227.5	227.5	226.4
115°	266.8	266.4	266.0	265.6	265.2	264.5	263.5	262.5	261.5	260.4	259.5
117.5°	296.4	296.3	296.2	296.1	296.0	295.6	294.8	294.0	293.2	292.4	292.0
120°	316.7	316.7	316.7	316.7	316.7	316.3	315.5	314.7	313.9	313.1	312.8
122.5°	336.7	336.6	336.5	336.4	336.3	336.0	335.5	334.9	334.3	333.8	333.4
125°	364.8	364.6	364.4	364.2	364.0	363.8	363.6	363.3	363.1	362.9	362.5
127.5°	391.8	392.0	392.2	392.4	392.6	392.5	392.2	391.9	391.6	391.3	390.8
130°	409.2	409.4	409.6	409.8	410.0	409.9	409.5	409.1	408.7	408.3	408.0
132.5°	425.3	425.5	425.8	426.1	426.4	426.3	425.9	425.5	425.1	424.6	424.3
135°	449.6	449.9	450.2	450.5	450.8	450.8	450.5	450.2	449.9	449.6	449.2
137.5°	472.6	472.8	473.0	473.2	473.4	473.2	472.7	472.3	471.8	471.3	471.1
140°	486.4	486.6	486.8	487.0	487.2	487.1	486.7	486.3	485.8	485.4	485.1
142.5°	499.1	499.4	499.7	499.9	500.2	500.2	499.9	499.6	499.2	498.9	498.6
145°	518.6	518.6	518.6	518.6	518.6	518.5	518.3	518.1	517.9	517.7	517.5
147.5°	533.1	533.6	534.0	534.5	534.9	535.1	534.9	534.7	534.5	534.3	534.1
150°	544.0	544.3	544.6	544.9	545.2	545.2	545.0	544.8	544.6	544.4	544.2
152.5°	552.7	553.2	553.6	554.1	554.5	554.6	554.2	553.9	553.5	553.2	553.0
155°	564.9	565.4	566.0	566.6	567.2	567.3	566.8	566.3	565.8	565.3	565.2
157.5°	575.1	575.9	576.7	577.4	578.2	578.3	577.7	577.1	576.5	575.9	576.0
160°	581.7	582.4	583.1	583.8	584.5	584.5	583.9	583.3	582.7	582.1	582.2
162.5°	587.8	588.4	589.1	589.7	590.4	590.3	589.7	589.0	588.2	587.5	587.6
165°	595.3	596.0	596.7	597.3	598.0	598.0	597.2	596.4	595.6	594.8	594.9
167.5°	600.7	601.5	602.3	603.0	603.8	603.8	603.0	602.3	601.5	600.7	600.7
170°	603.9	604.7	605.5	606.3	607.1	607.1	606.3	605.5	604.7	603.9	603.9
172.5°	605.7	606.6	607.4	608.3	609.3	609.3	608.4	607.6	606.8	606.0	606.0
175°	608.4	609.3	610.1	610.9	611.7	611.7	611.0	610.3	609.6	608.8	608.7
177.5°	609.3	610.1	610.9	611.7	612.5	612.6	611.9	611.3	610.6	610.0	609.9
180°	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7



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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°	4.6	4.2	4.3	4.1	4.4	4.4	5.4	6.2	6.5	6.0	6.2
90°	8.3	7.0	5.7	4.4	3.4	2.4	1.4	0.4	1.4	2.4	3.4
92.5°	9.6	8.7	7.7	7.3	7.6	7.9	8.2	8.5	8.2	7.9	7.6
95°	11.8	10.7	9.6	11.1	15.2	19.4	23.5	27.7	23.5	19.4	15.2
97.5°	29.1	36.4	43.6	48.2	50.1	51.9	53.7	55.6	53.7	51.9	50.1
100°	46.5	62.2	77.9	84.7	82.7	80.7	78.7	76.6	78.7	80.7	82.7
102.5°	64.2	81.4	98.6	106.4	105.0	103.5	102.1	100.6	102.1	103.5	105.0
105°	117.5	126.5	135.6	139.7	138.6	137.4	136.3	135.2	136.3	137.4	138.6
107.5°	179.3	177.8	176.4	175.2	174.3	173.5	172.6	171.7	172.6	173.5	174.3
110°	202.4	201.3	200.2	199.2	198.4	197.6	196.8	196.0	196.8	197.6	198.4



TEST NUMBER: P332390-840

CATALOG NUMBER: S123RDIW-S340D460U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	225.3	224.2	223.1	222.2	221.4	220.7	219.9	219.2	219.9	220.7	221.4
115°	258.6	257.7	256.8	256.0	255.4	254.8	254.2	253.6	254.2	254.8	255.4
117.5°	291.4	290.9	290.5	289.9	289.1	288.4	287.7	286.9	287.7	288.4	289.1
120°	312.5	312.1	311.8	311.2	310.3	309.4	308.5	307.6	308.5	309.4	310.3
122.5°	333.0	332.6	332.2	331.6	330.9	330.1	329.4	328.7	329.4	330.1	330.9
125°	362.1	361.7	361.3	360.7	359.9	359.1	358.3	357.5	358.3	359.1	359.9
127.5°	390.3	389.8	389.3	388.7	387.9	387.1	386.3	385.5	386.3	387.1	387.9
130°	407.6	407.2	406.8	406.2	405.4	404.6	403.7	402.9	403.7	404.6	405.4
132.5°	424.0	423.7	423.3	422.8	422.0	421.2	420.4	419.6	420.4	421.2	422.0
135°	448.8	448.4	448.0	447.5	446.9	446.3	445.7	445.0	445.7	446.3	446.9
137.5°	470.9	470.7	470.4	469.9	469.2	468.4	467.7	466.9	467.7	468.4	469.2
140°	484.8	484.5	484.2	483.8	483.2	482.6	482.0	481.4	482.0	482.6	483.2
142.5°	498.3	498.0	497.7	497.3	496.7	496.0	495.4	494.8	495.4	496.0	496.7
145°	517.3	517.1	516.8	516.4	515.7	515.0	514.3	513.6	514.3	515.0	515.7
147.5°	533.9	533.7	533.5	533.1	532.7	532.2	531.8	531.3	531.8	532.2	532.7
150°	544.0	543.8	543.6	543.4	543.1	542.8	542.5	542.2	542.5	542.8	543.1
152.5°	552.9	552.8	552.7	552.6	552.4	552.3	552.1	552.0	552.1	552.3	552.4
155°	565.1	565.0	564.9	565.0	565.2	565.3	565.5	565.7	565.5	565.3	565.2
157.5°	576.1	576.2	576.3	576.4	576.4	576.4	576.4	576.5	576.4	576.4	576.4
160°	582.3	582.4	582.5	582.6	582.7	582.8	582.9	583.0	582.9	582.8	582.7
162.5°	587.7	587.8	587.9	588.1	588.4	588.7	589.0	589.2	589.0	588.7	588.4
165°	595.0	595.1	595.2	595.4	595.7	596.0	596.3	596.6	596.3	596.0	595.7
167.5°	600.7	600.7	600.7	600.9	601.3	601.7	602.1	602.5	602.1	601.7	601.3
170°	603.9	603.9	603.9	604.1	604.5	604.9	605.3	605.7	605.3	604.9	604.5
172.5°	605.9	605.8	605.7	605.9	606.4	606.9	607.4	607.8	607.4	606.9	606.4
175°	608.6	608.5	608.4	608.6	609.2	609.7	610.2	610.7	610.2	609.7	609.2
177.5°	609.8	609.8	609.7	609.8	610.2	610.6	611.0	611.4	611.0	610.6	610.2
180°	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7



TEST NUMBER: P332390-840

CATALOG NUMBER: S123RDIW-S340D460U840-4F0-1E-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°	6.2	7.0	7.4	7.9	8.3	8.4	8.7	8.8	9.0	9.1	9.2
90°	4.4	5.7	7.0	8.3	9.6	10.9	11.3	11.7	12.1	12.5	12.8
92.5°	7.3	7.7	8.7	9.6	10.6	11.6	12.2	12.9	13.5	14.2	14.5
95°	11.1	9.6	10.7	11.8	12.9	14.0	14.7	15.5	16.2	16.9	17.3
97.5°	48.2	43.6	36.4	29.1	21.9	14.6	15.5	16.3	17.1	17.9	18.3
100°	84.7	77.9	62.2	46.5	30.7	14.9	15.8	16.6	17.4	18.2	18.7
102.5°	106.4	98.6	81.4	64.2	47.1	29.9	27.4	24.8	22.3	19.9	18.7
105°	139.7	135.6	126.5	117.5	108.5	99.4	81.5	63.6	45.8	28.0	19.2
107.5°	175.2	176.4	177.8	179.3	180.7	182.1	169.1	155.9	142.9	129.8	116.5
110°	199.2	200.2	201.3	202.4	203.5	204.6	201.3	197.9	194.6	191.3	182.5



TEST NUMBER: P332390-840

CATALOG NUMBER: S123RDIW-S340D460U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	222.2	223.1	224.2	225.3	226.4	227.5	227.5	227.6	227.6	227.7	226.2
115°	256.0	256.8	257.7	258.6	259.5	260.4	261.5	262.5	263.5	264.5	265.2
117.5°	289.9	290.5	290.9	291.4	292.0	292.4	293.2	294.0	294.8	295.6	296.0
120°	311.2	311.8	312.1	312.5	312.8	313.1	313.9	314.7	315.5	316.3	316.7
122.5°	331.6	332.2	332.6	333.0	333.4	333.8	334.3	334.9	335.5	336.0	336.3
125°	360.7	361.3	361.7	362.1	362.5	362.9	363.1	363.3	363.6	363.8	364.0
127.5°	388.7	389.3	389.8	390.3	390.8	391.3	391.6	391.9	392.2	392.5	392.6
130°	406.2	406.8	407.2	407.6	408.0	408.3	408.7	409.1	409.5	409.9	410.0
132.5°	422.8	423.3	423.7	424.0	424.3	424.6	425.1	425.5	425.9	426.3	426.4
135°	447.5	448.0	448.4	448.8	449.2	449.6	449.9	450.2	450.5	450.8	450.8
137.5°	469.9	470.4	470.7	470.9	471.1	471.3	471.8	472.3	472.7	473.2	473.4
140°	483.8	484.2	484.5	484.8	485.1	485.4	485.8	486.3	486.7	487.1	487.2
142.5°	497.3	497.7	498.0	498.3	498.6	498.9	499.2	499.6	499.9	500.2	500.2
145°	516.4	516.8	517.1	517.3	517.5	517.7	517.9	518.1	518.3	518.5	518.6
147.5°	533.1	533.5	533.7	533.9	534.1	534.3	534.5	534.7	534.9	535.1	534.9
150°	543.4	543.6	543.8	544.0	544.2	544.4	544.6	544.8	545.0	545.2	545.2
152.5°	552.6	552.7	552.8	552.9	553.0	553.2	553.5	553.9	554.2	554.6	554.5
155°	565.0	564.9	565.0	565.1	565.2	565.3	565.8	566.3	566.8	567.3	567.2
157.5°	576.4	576.3	576.2	576.1	576.0	575.9	576.5	577.1	577.7	578.3	578.2
160°	582.6	582.5	582.4	582.3	582.2	582.1	582.7	583.3	583.9	584.5	584.5
162.5°	588.1	587.9	587.8	587.7	587.6	587.5	588.2	589.0	589.7	590.3	590.4
165°	595.4	595.2	595.1	595.0	594.9	594.8	595.6	596.4	597.2	598.0	598.0
167.5°	600.9	600.7	600.7	600.7	600.7	600.7	601.5	602.3	603.0	603.8	603.8
170°	604.1	603.9	603.9	603.9	603.9	603.9	604.7	605.5	606.3	607.1	607.1
172.5°	605.9	605.7	605.8	605.9	606.0	606.0	606.8	607.6	608.4	609.3	609.3
175°	608.6	608.4	608.5	608.6	608.7	608.8	609.6	610.3	611.0	611.7	611.7
177.5°	609.8	609.7	609.8	609.8	609.9	610.0	610.6	611.3	611.9	612.6	612.5
180°	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7



TEST NUMBER: P332390-840

CATALOG NUMBER: S123RDIW-S340D460U840-4F0-1E-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°	9.6	9.2	9.3	9.5	9.3	9.2	9.6	9.2	9.1	9.0	8.8
90°	13.0	13.2	13.4	13.6	13.4	13.2	13.0	12.8	12.5	12.1	11.7
92.5°	14.7	14.8	14.9	15.0	14.9	14.8	14.7	14.5	14.2	13.5	12.9
95°	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	16.9	16.2	15.5
97.5°	18.4	18.5	18.6	18.7	18.6	18.5	18.4	18.3	17.9	17.1	16.3
100°	18.8	18.9	19.0	19.1	19.0	18.9	18.8	18.7	18.2	17.4	16.6
102.5°	18.9	19.1	19.2	19.4	19.2	19.1	18.9	18.7	19.9	22.3	24.8
105°	19.4	19.6	19.8	20.0	19.8	19.6	19.4	19.2	28.0	45.8	63.6
107.5°	103.0	89.6	76.1	62.7	76.1	89.6	103.0	116.5	129.8	142.9	155.9
110°	168.0	153.6	139.2	124.8	139.2	153.6	168.0	182.5	191.3	194.6	197.9



TEST NUMBER: P332390-840

CATALOG NUMBER: S123RDIW-S340D460U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	223.2	220.2	217.1	214.1	217.1	220.2	223.2	226.2	227.7	227.6	227.6
115°	265.6	266.0	266.4	266.8	266.4	266.0	265.6	265.2	264.5	263.5	262.5
117.5°	296.1	296.2	296.3	296.4	296.3	296.2	296.1	296.0	295.6	294.8	294.0
120°	316.7	316.7	316.7	316.7	316.7	316.7	316.7	316.7	316.3	315.5	314.7
122.5°	336.4	336.5	336.6	336.7	336.6	336.5	336.4	336.3	336.0	335.5	334.9
125°	364.2	364.4	364.6	364.8	364.6	364.4	364.2	364.0	363.8	363.6	363.3
127.5°	392.4	392.2	392.0	391.8	392.0	392.2	392.4	392.6	392.5	392.2	391.9
130°	409.8	409.6	409.4	409.2	409.4	409.6	409.8	410.0	409.9	409.5	409.1
132.5°	426.1	425.8	425.5	425.3	425.5	425.8	426.1	426.4	426.3	425.9	425.5
135°	450.5	450.2	449.9	449.6	449.9	450.2	450.5	450.8	450.8	450.5	450.2
137.5°	473.2	473.0	472.8	472.6	472.8	473.0	473.2	473.4	473.2	472.7	472.3
140°	487.0	486.8	486.6	486.4	486.6	486.8	487.0	487.2	487.1	486.7	486.3
142.5°	499.9	499.7	499.4	499.1	499.4	499.7	499.9	500.2	500.2	499.9	499.6
145°	518.6	518.6	518.6	518.6	518.6	518.6	518.6	518.6	518.5	518.3	518.1
147.5°	534.5	534.0	533.6	533.1	533.6	534.0	534.5	534.9	535.1	534.9	534.7
150°	544.9	544.6	544.3	544.0	544.3	544.6	544.9	545.2	545.2	545.0	544.8
152.5°	554.1	553.6	553.2	552.7	553.2	553.6	554.1	554.5	554.6	554.2	553.9
155°	566.6	566.0	565.4	564.9	565.4	566.0	566.6	567.2	567.3	566.8	566.3
157.5°	577.4	576.7	575.9	575.1	575.9	576.7	577.4	578.2	578.3	577.7	577.1
160°	583.8	583.1	582.4	581.7	582.4	583.1	583.8	584.5	584.5	583.9	583.3
162.5°	589.7	589.1	588.4	587.8	588.4	589.1	589.7	590.4	590.3	589.7	589.0
165°	597.3	596.7	596.0	595.3	596.0	596.7	597.3	598.0	598.0	597.2	596.4
167.5°	603.0	602.3	601.5	600.7	601.5	602.3	603.0	603.8	603.8	603.0	602.3
170°	606.3	605.5	604.7	603.9	604.7	605.5	606.3	607.1	607.1	606.3	605.5
172.5°	608.3	607.4	606.6	605.7	606.6	607.4	608.3	609.3	609.3	608.4	607.6
175°	610.9	610.1	609.3	608.4	609.3	610.1	610.9	611.7	611.7	611.0	610.3
177.5°	611.7	610.9	610.1	609.3	610.1	610.9	611.7	612.5	612.6	611.9	611.3
180°	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7



TEST NUMBER: P332390-840

CATALOG NUMBER: S123RDIW-S340D460U840-4F0-1E-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°	8.7	8.4	8.3	7.9	7.4	7.0	6.2	6.2	6.0	6.5	6.2
90°	11.3	10.9	9.6	8.3	7.0	5.7	4.4	3.4	2.4	1.4	0.4
92.5°	12.2	11.6	10.6	9.6	8.7	7.7	7.3	7.6	7.9	8.2	8.5
95°	14.7	14.0	12.9	11.8	10.7	9.6	11.1	15.2	19.4	23.5	27.7
97.5°	15.5	14.6	21.9	29.1	36.4	43.6	48.2	50.1	51.9	53.7	55.6
100°	15.8	14.9	30.7	46.5	62.2	77.9	84.7	82.7	80.7	78.7	76.6
102.5°	27.4	29.9	47.1	64.2	81.4	98.6	106.4	105.0	103.5	102.1	100.6
105°	81.5	99.4	108.5	117.5	126.5	135.6	139.7	138.6	137.4	136.3	135.2
107.5°	169.1	182.1	180.7	179.3	177.8	176.4	175.2	174.3	173.5	172.6	171.7
110°	201.3	204.6	203.5	202.4	201.3	200.2	199.2	198.4	197.6	196.8	196.0



TEST NUMBER: P332390-840

CATALOG NUMBER: S123RDIW-S340D460U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	227.5	227.5	226.4	225.3	224.2	223.1	222.2	221.4	220.7	219.9	219.2
115°	261.5	260.4	259.5	258.6	257.7	256.8	256.0	255.4	254.8	254.2	253.6
117.5°	293.2	292.4	292.0	291.4	290.9	290.5	289.9	289.1	288.4	287.7	286.9
120°	313.9	313.1	312.8	312.5	312.1	311.8	311.2	310.3	309.4	308.5	307.6
122.5°	334.3	333.8	333.4	333.0	332.6	332.2	331.6	330.9	330.1	329.4	328.7
125°	363.1	362.9	362.5	362.1	361.7	361.3	360.7	359.9	359.1	358.3	357.5
127.5°	391.6	391.3	390.8	390.3	389.8	389.3	388.7	387.9	387.1	386.3	385.5
130°	408.7	408.3	408.0	407.6	407.2	406.8	406.2	405.4	404.6	403.7	402.9
132.5°	425.1	424.6	424.3	424.0	423.7	423.3	422.8	422.0	421.2	420.4	419.6
135°	449.9	449.6	449.2	448.8	448.4	448.0	447.5	446.9	446.3	445.7	445.0
137.5°	471.8	471.3	471.1	470.9	470.7	470.4	469.9	469.2	468.4	467.7	466.9
140°	485.8	485.4	485.1	484.8	484.5	484.2	483.8	483.2	482.6	482.0	481.4
142.5°	499.2	498.9	498.6	498.3	498.0	497.7	497.3	496.7	496.0	495.4	494.8
145°	517.9	517.7	517.5	517.3	517.1	516.8	516.4	515.7	515.0	514.3	513.6
147.5°	534.5	534.3	534.1	533.9	533.7	533.5	533.1	532.7	532.2	531.8	531.3
150°	544.6	544.4	544.2	544.0	543.8	543.6	543.4	543.1	542.8	542.5	542.2
152.5°	553.5	553.2	553.0	552.9	552.8	552.7	552.6	552.4	552.3	552.1	552.0
155°	565.8	565.3	565.2	565.1	565.0	564.9	565.0	565.2	565.3	565.5	565.7
157.5°	576.5	575.9	576.0	576.1	576.2	576.3	576.4	576.4	576.4	576.4	576.5
160°	582.7	582.1	582.2	582.3	582.4	582.5	582.6	582.7	582.8	582.9	583.0
162.5°	588.2	587.5	587.6	587.7	587.8	587.9	588.1	588.4	588.7	589.0	589.2
165°	595.6	594.8	594.9	595.0	595.1	595.2	595.4	595.7	596.0	596.3	596.6
167.5°	601.5	600.7	600.7	600.7	600.7	600.7	600.9	601.3	601.7	602.1	602.5
170°	604.7	603.9	603.9	603.9	603.9	603.9	604.1	604.5	604.9	605.3	605.7
172.5°	606.8	606.0	606.0	605.9	605.8	605.7	605.9	606.4	606.9	607.4	607.8
175°	609.6	608.8	608.7	608.6	608.5	608.4	608.6	609.2	609.7	610.2	610.7
177.5°	610.6	610.0	609.9	609.8	609.8	609.7	609.8	610.2	610.6	611.0	611.4
180°	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7



TEST NUMBER: P332390-840

CATALOG NUMBER: S123RDIW-S340D460U840-4F0-1E-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°	5.4	4.4	4.4	4.1	4.3	4.2	4.6	4.5	4.6	4.8	4.6
90°	1.4	2.4	3.4	4.4	5.7	7.0	8.3	9.6	10.9	11.3	11.7
92.5°	8.2	7.9	7.6	7.3	7.7	8.7	9.6	10.6	11.6	12.2	12.9
95°	23.5	19.4	15.2	11.1	9.6	10.7	11.8	12.9	14.0	14.7	15.5
97.5°	53.7	51.9	50.1	48.2	43.6	36.4	29.1	21.9	14.6	15.5	16.3
100°	78.7	80.7	82.7	84.7	77.9	62.2	46.5	30.7	14.9	15.8	16.6
102.5°	102.1	103.5	105.0	106.4	98.6	81.4	64.2	47.1	29.9	27.4	24.8
105°	136.3	137.4	138.6	139.7	135.6	126.5	117.5	108.5	99.4	81.5	63.6
107.5°	172.6	173.5	174.3	175.2	176.4	177.8	179.3	180.7	182.1	169.1	155.9
110°	196.8	197.6	198.4	199.2	200.2	201.3	202.4	203.5	204.6	201.3	197.9



TEST NUMBER: P332390-840

CATALOG NUMBER: S123RDIW-S340D460U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	219.9	220.7	221.4	222.2	223.1	224.2	225.3	226.4	227.5	227.5	227.6
115°	254.2	254.8	255.4	256.0	256.8	257.7	258.6	259.5	260.4	261.5	262.5
117.5°	287.7	288.4	289.1	289.9	290.5	290.9	291.4	292.0	292.4	293.2	294.0
120°	308.5	309.4	310.3	311.2	311.8	312.1	312.5	312.8	313.1	313.9	314.7
122.5°	329.4	330.1	330.9	331.6	332.2	332.6	333.0	333.4	333.8	334.3	334.9
125°	358.3	359.1	359.9	360.7	361.3	361.7	362.1	362.5	362.9	363.1	363.3
127.5°	386.3	387.1	387.9	388.7	389.3	389.8	390.3	390.8	391.3	391.6	391.9
130°	403.7	404.6	405.4	406.2	406.8	407.2	407.6	408.0	408.3	408.7	409.1
132.5°	420.4	421.2	422.0	422.8	423.3	423.7	424.0	424.3	424.6	425.1	425.5
135°	445.7	446.3	446.9	447.5	448.0	448.4	448.8	449.2	449.6	449.9	450.2
137.5°	467.7	468.4	469.2	469.9	470.4	470.7	470.9	471.1	471.3	471.8	472.3
140°	482.0	482.6	483.2	483.8	484.2	484.5	484.8	485.1	485.4	485.8	486.3
142.5°	495.4	496.0	496.7	497.3	497.7	498.0	498.3	498.6	498.9	499.2	499.6
145°	514.3	515.0	515.7	516.4	516.8	517.1	517.3	517.5	517.7	517.9	518.1
147.5°	531.8	532.2	532.7	533.1	533.5	533.7	533.9	534.1	534.3	534.5	534.7
150°	542.5	542.8	543.1	543.4	543.6	543.8	544.0	544.2	544.4	544.6	544.8
152.5°	552.1	552.3	552.4	552.6	552.7	552.8	552.9	553.0	553.2	553.5	553.9
155°	565.5	565.3	565.2	565.0	564.9	565.0	565.1	565.2	565.3	565.8	566.3
157.5°	576.4	576.4	576.4	576.4	576.3	576.2	576.1	576.0	575.9	576.5	577.1
160°	582.9	582.8	582.7	582.6	582.5	582.4	582.3	582.2	582.1	582.7	583.3
162.5°	589.0	588.7	588.4	588.1	587.9	587.8	587.7	587.6	587.5	588.2	589.0
165°	596.3	596.0	595.7	595.4	595.2	595.1	595.0	594.9	594.8	595.6	596.4
167.5°	602.1	601.7	601.3	600.9	600.7	600.7	600.7	600.7	600.7	601.5	602.3
170°	605.3	604.9	604.5	604.1	603.9	603.9	603.9	603.9	603.9	604.7	605.5
172.5°	607.4	606.9	606.4	605.9	605.7	605.8	605.9	606.0	606.0	606.8	607.6
175°	610.2	609.7	609.2	608.6	608.4	608.5	608.6	608.7	608.8	609.6	610.3
177.5°	611.0	610.6	610.2	609.8	609.7	609.8	609.8	609.9	610.0	610.6	611.3
180°	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7



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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°	4.6	4.7	4.6	4.6	4.5	4.9	4.6
90°	12.1	12.5	12.8	13.0	13.2	13.4	13.6
92.5°	13.5	14.2	14.5	14.7	14.8	14.9	15.0
95°	16.2	16.9	17.3	17.3	17.3	17.3	17.3
97.5°	17.1	17.9	18.3	18.4	18.5	18.6	18.7
100°	17.4	18.2	18.7	18.8	18.9	19.0	19.1
102.5°	22.3	19.9	18.7	18.9	19.1	19.2	19.4
105°	45.8	28.0	19.2	19.4	19.6	19.8	20.0
107.5°	142.9	129.8	116.5	103.0	89.6	76.1	62.7
110°	194.6	191.3	182.5	168.0	153.6	139.2	124.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	227.6	227.7	226.2	223.2	220.2	217.1	214.1
115°	263.5	264.5	265.2	265.6	266.0	266.4	266.8
117.5°	294.8	295.6	296.0	296.1	296.2	296.3	296.4
120°	315.5	316.3	316.7	316.7	316.7	316.7	316.7
122.5°	335.5	336.0	336.3	336.4	336.5	336.6	336.7
125°	363.6	363.8	364.0	364.2	364.4	364.6	364.8
127.5°	392.2	392.5	392.6	392.4	392.2	392.0	391.8
130°	409.5	409.9	410.0	409.8	409.6	409.4	409.2
132.5°	425.9	426.3	426.4	426.1	425.8	425.5	425.3
135°	450.5	450.8	450.8	450.5	450.2	449.9	449.6
137.5°	472.7	473.2	473.4	473.2	473.0	472.8	472.6
140°	486.7	487.1	487.2	487.0	486.8	486.6	486.4
142.5°	499.9	500.2	500.2	499.9	499.7	499.4	499.1
145°	518.3	518.5	518.6	518.6	518.6	518.6	518.6
147.5°	534.9	535.1	534.9	534.5	534.0	533.6	533.1
150°	545.0	545.2	545.2	544.9	544.6	544.3	544.0
152.5°	554.2	554.6	554.5	554.1	553.6	553.2	552.7
155°	566.8	567.3	567.2	566.6	566.0	565.4	564.9
157.5°	577.7	578.3	578.2	577.4	576.7	575.9	575.1
160°	583.9	584.5	584.5	583.8	583.1	582.4	581.7
162.5°	589.7	590.3	590.4	589.7	589.1	588.4	587.8
165°	597.2	598.0	598.0	597.3	596.7	596.0	595.3
167.5°	603.0	603.8	603.8	603.0	602.3	601.5	600.7
170°	606.3	607.1	607.1	606.3	605.5	604.7	603.9
172.5°	608.4	609.3	609.3	608.3	607.4	606.6	605.7
175°	611.0	611.7	611.7	610.9	610.1	609.3	608.4
177.5°	611.9	612.6	612.5	611.7	610.9	610.1	609.3
180°	610.7	610.7	610.7	610.7	610.7	610.7	610.7

(END OF REPORT)