

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

Luminaire Tested: **S123RDIW-S340D460U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332390  
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-S340D460U835-4F0-1E-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: 3200.9 lumens  
Efficiency: N/A  
Efficacy: 139.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse

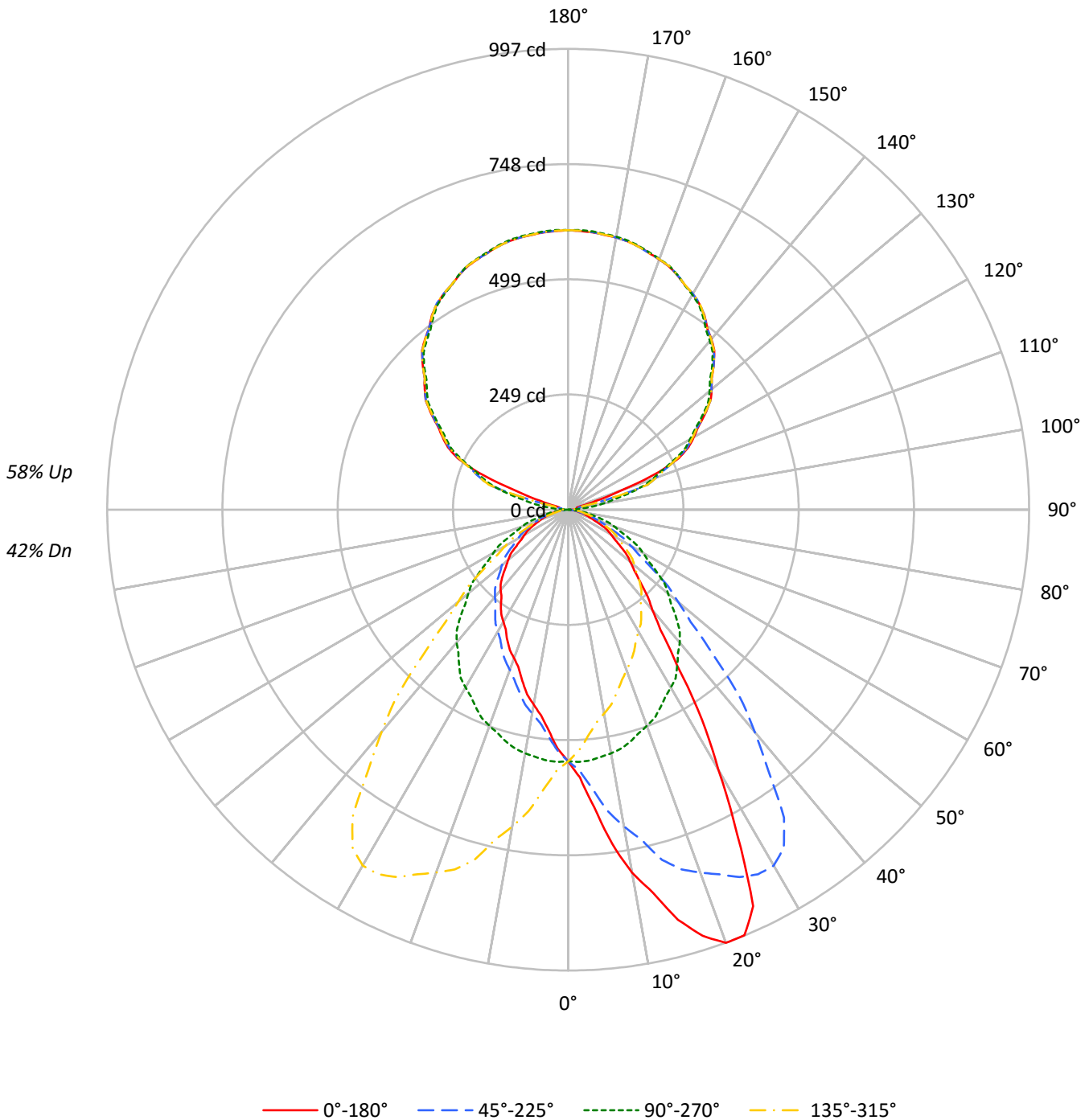
Input Watts (W): 23  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20										
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	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°	5858	5858	5858	5858
5°	6983	5883	5181	5883
10°	8719	5850	4680	5850
15°	10234	5789	4268	5789
20°	11423	5700	3918	5700
25°	11240	5606	3702	5606
30°	8079	5520	3480	5520
35°	5394	5406	3336	5406
40°	3974	5271	3188	5271
45°	3334	5033	3043	5033
50°	2942	4721	2840	4721
55°	2580	4363	2562	4363
60°	2297	4021	2347	4021
65°	2017	3655	2183	3655
70°	1583	3330	1995	3330
75°	1393	2907	1822	2907
80°	1215	2467	1791	2467
85°	976	1988	1902	1988



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.5	1.7
10°-20°	167.2	5.2
20°-30°	262.7	8.2
30°-40°	274.1	8.6
40°-50°	234.5	7.3
50°-60°	178.8	5.6
60°-70°	114.6	3.6
70°-80°	55.1	1.7
80°-90°	16.3	0.5
90°-100°	22.0	0.7
100°-110°	104.8	3.3
110°-120°	251.7	7.9
120°-130°	320.5	10.0
130°-140°	342.4	10.7
140°-150°	320.2	10.0
150°-160°	258.3	8.1
160°-170°	166.7	5.2
170°-180°	57.5	1.8
0°-30°	483.4	15.1
0°-40°	757.5	23.7
0°-60°	1170.8	36.6
0°-90°	1356.8	42.4
90°-120°	378.5	11.8
90°-150°	1361.6	42.5
90°-180°	1844.0	57.6
0°-180°	3200.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	544	544	544	544	544	
5°	646	544	480	544	646	67
15°	918	520	383	520	918	260
25°	946	472	312	472	946	407
35°	410	411	254	411	410	269
45°	219	331	200	331	219	172
55°	138	232	136	232	138	124
65°	79	144	86	144	79	78
75°	34	70	44	70	34	36
85°	8	16	15	16	8	9
90°	14	0	14	0	14	6
95°	17	27	17	27	17	14
105°	20	134	20	134	20	45
115°	264	251	264	251	264	244
125°	361	354	361	354	361	323
135°	445	441	445	441	445	343
145°	514	509	514	509	514	321
155°	559	560	559	560	559	258
165°	590	591	590	591	590	166
175°	602	605	602	605	602	57
180°	605	605	605	605	605	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2
2.5°	579.7	580.4	578.0	577.6	574.8	574.1	574.1	570.1	567.7	564.6	562.7
5°	646.3	650.0	648.1	644.0	637.0	635.3	630.9	623.9	616.0	606.2	601.6
7.5°	729.5	734.6	732.6	726.2	718.8	712.9	700.4	688.8	672.6	658.3	646.1
10°	797.7	792.4	788.2	781.9	775.1	764.2	751.1	733.2	712.5	696.1	678.0
12.5°	848.8	847.9	842.6	836.1	826.6	816.2	800.1	778.3	754.2	730.6	709.8
15°	918.4	919.8	916.3	909.6	896.0	877.6	853.4	844.3	809.8	784.2	758.6
17.5°	966.6	966.3	965.8	956.5	942.7	929.6	907.1	883.2	852.0	815.9	781.4
20°	997.2	994.8	995.3	984.8	974.6	959.4	937.5	902.8	877.2	835.5	799.8
22.5°	996.4	995.9	997.7	994.1	986.7	975.1	957.8	928.5	895.8	853.7	813.6
25°	946.4	944.5	955.4	958.5	970.4	972.5	967.3	951.3	920.3	876.9	827.3
27.5°	792.0	791.0	811.3	836.8	869.0	894.1	918.3	930.0	920.3	889.2	839.5
30°	650.0	671.9	682.2	719.0	760.0	808.9	851.8	892.5	902.6	889.0	848.3
32.5°	539.7	558.8	567.4	598.9	637.2	694.5	758.8	816.5	857.3	867.6	843.1
35°	410.5	410.7	430.3	444.3	479.7	538.6	601.1	678.4	755.3	813.6	819.6
37.5°	327.6	328.7	340.6	354.5	381.1	412.2	467.2	531.5	620.3	709.7	762.2
40°	282.8	284.9	293.8	307.5	326.6	350.2	393.0	453.6	527.7	627.2	708.5
42.5°	254.1	257.5	262.1	272.7	284.5	306.6	341.2	388.0	455.4	549.5	643.3
45°	219.0	220.9	224.4	229.3	240.0	255.3	278.6	310.1	366.0	441.7	535.6
47.5°	193.2	192.2	195.9	199.8	207.0	217.5	233.1	258.7	298.6	359.4	439.0
50°	175.7	175.4	178.0	181.0	187.8	195.5	208.3	227.6	259.3	309.6	382.6
52.5°	159.3	160.1	162.0	165.7	170.6	176.8	188.3	202.3	229.5	272.9	333.7
55°	137.5	138.2	140.7	142.8	146.3	152.6	159.8	171.5	190.1	220.4	270.5
57.5°	119.0	118.7	121.1	121.7	125.6	130.7	136.3	145.4	158.9	181.4	215.1
60°	106.7	106.0	108.1	109.7	111.8	116.0	120.7	129.5	140.3	156.8	185.7
62.5°	95.5	95.2	96.7	98.4	100.1	103.9	107.8	114.6	123.1	137.0	160.0
65°	79.2	79.9	80.6	81.3	82.2	84.6	88.3	93.0	98.8	108.6	125.1
67.5°	62.3	63.0	63.2	64.6	66.6	68.1	70.4	74.5	78.6	86.8	96.2
70°	50.3	50.1	50.3	51.0	53.6	56.1	59.2	62.2	64.8	70.6	78.5
72.5°	43.2	42.8	43.4	43.6	44.8	45.5	47.4	50.3	53.6	57.5	63.2
75°	33.5	33.5	33.5	33.5	34.5	34.9	35.6	36.3	37.5	39.4	43.6
77.5°	24.8	24.8	25.2	25.4	25.6	25.9	26.3	27.0	27.4	28.4	30.2
80°	19.6	19.8	19.6	19.8	19.8	20.3	20.5	21.2	21.4	22.6	23.3
82.5°	14.7	14.6	14.7	15.0	15.0	15.4	15.5	16.0	16.0	16.6	17.3
85°	7.9	7.5	7.9	7.7	8.2	7.7	7.9	8.4	8.4	8.6	9.6
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°	13.5	13.3	13.1	12.9	12.7	12.4	12.0	11.6	11.2	10.8	9.5
92.5°	14.9	14.8	14.7	14.6	14.4	14.1	13.4	12.8	12.1	11.5	10.5
95°	17.1	17.1	17.1	17.1	17.1	16.7	16.0	15.3	14.6	13.9	12.8
97.5°	18.5	18.4	18.3	18.2	18.1	17.7	16.9	16.1	15.3	14.5	21.7
100°	18.9	18.8	18.7	18.6	18.5	18.0	17.2	16.4	15.6	14.8	30.4
102.5°	19.2	19.0	18.9	18.7	18.5	19.7	22.1	24.6	27.1	29.6	46.6
105°	19.8	19.6	19.4	19.2	19.0	27.7	45.4	63.0	80.7	98.4	107.4
107.5°	62.1	75.4	88.7	102.0	115.4	128.5	141.5	154.4	167.4	180.3	178.9
110°	123.6	137.8	152.1	166.4	180.7	189.4	192.7	196.0	199.3	202.6	201.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	212.0	215.0	218.0	221.0	224.0	225.5	225.4	225.4	225.3	225.3	224.2
115°	264.2	263.8	263.4	263.0	262.6	261.9	260.9	259.9	258.9	257.9	257.0
117.5°	293.5	293.4	293.3	293.2	293.1	292.7	291.9	291.1	290.3	289.5	289.1
120°	313.6	313.6	313.6	313.6	313.6	313.2	312.4	311.6	310.8	310.0	309.7
122.5°	333.4	333.3	333.2	333.1	333.0	332.7	332.2	331.6	331.0	330.5	330.1
125°	361.2	361.0	360.8	360.6	360.4	360.2	360.0	359.8	359.6	359.4	359.0
127.5°	388.0	388.2	388.4	388.6	388.8	388.7	388.4	388.1	387.8	387.5	387.0
130°	405.2	405.4	405.6	405.8	406.0	405.9	405.5	405.1	404.7	404.3	404.0
132.5°	421.1	421.3	421.6	421.9	422.2	422.1	421.7	421.3	420.9	420.5	420.2
135°	445.2	445.5	445.8	446.1	446.4	446.4	446.1	445.8	445.5	445.2	444.8
137.5°	468.0	468.2	468.4	468.6	468.8	468.6	468.1	467.7	467.2	466.7	466.5
140°	481.6	481.8	482.0	482.2	482.4	482.3	481.9	481.5	481.1	480.7	480.4
142.5°	494.2	494.5	494.8	495.0	495.3	495.3	495.0	494.7	494.3	494.0	493.7
145°	513.5	513.5	513.5	513.5	513.5	513.4	513.2	513.0	512.8	512.6	512.4
147.5°	527.9	528.4	528.8	529.3	529.7	529.9	529.7	529.5	529.3	529.1	528.9
150°	538.7	539.0	539.3	539.6	539.9	539.9	539.7	539.5	539.3	539.1	538.9
152.5°	547.3	547.8	548.2	548.7	549.1	549.2	548.8	548.5	548.1	547.8	547.6
155°	559.4	559.9	560.5	561.1	561.7	561.8	561.3	560.8	560.3	559.8	559.7
157.5°	569.5	570.3	571.1	571.8	572.6	572.7	572.1	571.5	570.9	570.3	570.4
160°	576.0	576.7	577.4	578.1	578.8	578.8	578.2	577.6	577.0	576.4	576.5
162.5°	582.1	582.7	583.3	583.9	584.6	584.5	583.9	583.2	582.5	581.8	581.9
165°	589.5	590.2	590.9	591.5	592.2	592.2	591.4	590.6	589.8	589.0	589.1
167.5°	594.8	595.6	596.4	597.1	597.9	597.9	597.1	596.4	595.6	594.8	594.8
170°	598.0	598.8	599.6	600.4	601.2	601.2	600.4	599.6	598.8	598.0	598.0
172.5°	599.8	600.7	601.5	602.4	603.3	603.3	602.5	601.7	600.9	600.1	600.1
175°	602.5	603.3	604.1	604.9	605.7	605.7	605.0	604.3	603.6	602.9	602.8
177.5°	603.3	604.1	604.9	605.7	606.5	606.6	605.9	605.3	604.6	604.0	603.9
180°	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2
2.5°	561.9	561.4	558.8	555.8	551.9	549.3	547.2	546.1	542.7	538.6	535.9
5°	596.7	589.7	582.2	573.1	564.7	556.1	550.8	544.5	536.8	528.2	522.1
7.5°	633.8	620.1	605.4	590.1	575.1	561.6	549.6	539.4	527.2	514.8	506.2
10°	662.4	642.3	621.6	600.4	581.1	562.9	548.9	535.2	520.5	506.3	495.5
12.5°	688.3	661.9	638.0	611.9	587.2	565.5	545.4	529.2	511.5	496.4	484.2
15°	721.1	694.0	665.2	625.5	592.7	565.2	540.7	519.5	498.1	479.5	467.6
17.5°	751.7	711.1	672.2	639.2	596.5	562.2	532.3	507.0	483.4	463.7	449.0
20°	764.4	725.0	682.9	640.7	598.8	560.3	525.6	497.6	473.2	450.8	437.3
22.5°	772.0	727.5	683.0	637.7	593.2	553.2	518.9	488.1	461.6	440.4	423.7
25°	780.9	727.8	678.9	634.2	588.7	545.4	504.6	472.0	443.4	420.8	403.1
27.5°	786.8	724.3	666.5	616.8	570.7	527.6	490.2	455.6	426.5	402.6	383.6
30°	787.9	721.5	657.0	603.2	556.4	516.7	477.1	444.1	413.3	387.9	370.2
32.5°	789.4	714.6	644.1	587.0	539.0	499.8	463.9	432.3	400.8	375.8	357.7
35°	783.3	710.8	624.6	558.9	510.9	472.9	440.6	411.4	380.5	356.2	337.8
37.5°	756.8	695.7	604.4	527.3	477.1	442.0	415.6	390.2	361.8	335.6	318.3
40°	730.2	680.8	588.7	508.1	455.7	419.6	395.8	375.1	347.6	323.1	304.5
42.5°	690.5	660.4	573.8	488.0	431.5	396.7	376.6	357.2	333.1	308.2	290.7
45°	617.6	621.6	543.3	455.9	397.9	363.0	344.1	330.6	309.2	288.7	270.7
47.5°	526.3	563.3	507.5	421.8	362.6	329.8	313.3	301.5	287.0	266.9	250.5
50°	466.7	519.5	478.8	398.9	340.4	307.8	291.5	281.9	269.3	253.5	237.9
52.5°	411.7	468.5	444.1	373.3	316.3	286.5	270.6	262.7	252.7	237.8	223.7
55°	335.7	393.3	387.7	334.8	280.3	253.5	241.4	232.5	225.8	214.6	203.4
57.5°	271.6	326.1	329.0	291.9	248.5	222.0	211.6	204.9	200.5	192.1	181.7
60°	231.1	281.2	291.0	263.0	225.8	202.5	192.2	186.8	183.4	176.6	168.7
62.5°	197.6	240.2	251.3	231.2	204.0	182.1	174.1	169.0	166.6	160.8	153.8
65°	151.2	186.6	197.3	186.2	171.9	154.5	147.9	143.5	141.4	138.2	133.0
67.5°	113.7	139.5	151.3	143.4	138.2	127.2	123.1	120.7	118.8	116.6	112.3
70°	91.3	110.4	122.5	120.5	116.3	110.4	107.4	105.8	103.9	102.0	98.3
72.5°	73.4	86.6	97.9	99.0	95.6	94.4	91.7	91.0	89.9	87.7	85.6
75°	48.7	57.8	65.7	68.7	70.1	71.3	70.1	69.9	69.7	67.8	66.6
77.5°	31.9	36.8	41.8	47.0	49.2	50.7	51.1	52.0	51.3	50.4	49.8
80°	24.5	25.6	29.1	33.5	37.0	38.4	39.4	39.8	39.6	39.4	38.4
82.5°	17.8	18.7	20.4	23.5	26.4	28.7	29.3	29.2	29.7	29.9	29.1
85°	9.6	9.8	10.3	10.7	12.3	14.9	15.6	16.1	16.5	16.5	15.1
87.5°	4.6	4.2	4.3	4.1	4.4	4.4	5.3	6.1	6.4	5.9	6.1
90°	8.2	6.9	5.6	4.4	3.4	2.4	1.4	0.4	1.4	2.4	3.4
92.5°	9.5	8.6	7.6	7.2	7.5	7.8	8.1	8.4	8.1	7.8	7.5
95°	11.7	10.6	9.5	11.0	15.1	19.2	23.3	27.4	23.3	19.2	15.1
97.5°	28.8	36.0	43.2	47.7	49.6	51.4	53.2	55.1	53.2	51.4	49.6
100°	46.0	61.6	77.1	83.9	81.9	79.9	77.9	75.9	77.9	79.9	81.9
102.5°	63.6	80.6	97.6	105.4	104.0	102.5	101.1	99.6	101.1	102.5	104.0
105°	116.4	125.3	134.3	138.3	137.2	136.1	135.0	133.9	135.0	136.1	137.2
107.5°	177.5	176.1	174.7	173.5	172.6	171.8	170.9	170.0	170.9	171.8	172.6
110°	200.4	199.3	198.2	197.3	196.5	195.7	194.9	194.1	194.9	195.7	196.5





TEST NUMBER: P332390

CATALOG NUMBER: S123RDIW-S340D460U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	223.1	222.0	220.9	220.0	219.2	218.5	217.8	217.1	217.8	218.5	219.2
115°	256.1	255.2	254.3	253.5	252.9	252.3	251.7	251.1	251.7	252.3	252.9
117.5°	288.6	288.1	287.7	287.1	286.3	285.6	284.9	284.1	284.9	285.6	286.3
120°	309.4	309.1	308.8	308.2	307.3	306.4	305.5	304.6	305.5	306.4	307.3
122.5°	329.7	329.4	329.0	328.4	327.7	326.9	326.2	325.5	326.2	326.9	327.7
125°	358.6	358.2	357.8	357.2	356.4	355.6	354.8	354.0	354.8	355.6	356.4
127.5°	386.5	386.0	385.5	384.9	384.1	383.3	382.5	381.7	382.5	383.3	384.1
130°	403.6	403.2	402.8	402.2	401.4	400.6	399.8	399.0	399.8	400.6	401.4
132.5°	419.9	419.6	419.2	418.7	417.9	417.1	416.3	415.5	416.3	417.1	417.9
135°	444.4	444.0	443.6	443.1	442.5	441.9	441.3	440.7	441.3	441.9	442.5
137.5°	466.3	466.1	465.8	465.3	464.6	463.8	463.1	462.3	463.1	463.8	464.6
140°	480.1	479.8	479.5	479.1	478.5	477.9	477.3	476.7	477.3	477.9	478.5
142.5°	493.4	493.1	492.8	492.4	491.8	491.2	490.6	490.0	490.6	491.2	491.8
145°	512.2	512.0	511.8	511.4	510.7	510.0	509.3	508.6	509.3	510.0	510.7
147.5°	528.7	528.5	528.3	527.9	527.5	527.0	526.6	526.1	526.6	527.0	527.5
150°	538.7	538.5	538.3	538.1	537.8	537.5	537.2	536.9	537.2	537.5	537.8
152.5°	547.5	547.4	547.3	547.2	547.0	546.9	546.7	546.6	546.7	546.9	547.0
155°	559.6	559.5	559.4	559.5	559.7	559.8	560.0	560.2	560.0	559.8	559.7
157.5°	570.5	570.6	570.7	570.8	570.8	570.8	570.8	570.9	570.8	570.8	570.8
160°	576.6	576.7	576.8	576.9	577.0	577.1	577.2	577.3	577.2	577.1	577.0
162.5°	582.0	582.1	582.2	582.4	582.7	582.9	583.2	583.4	583.2	582.9	582.7
165°	589.2	589.3	589.4	589.6	589.9	590.2	590.5	590.8	590.5	590.2	589.9
167.5°	594.8	594.8	594.8	595.0	595.4	595.8	596.2	596.6	596.2	595.8	595.4
170°	598.0	598.0	598.0	598.2	598.6	599.0	599.4	599.8	599.4	599.0	598.6
172.5°	600.0	599.9	599.8	600.0	600.5	601.0	601.5	601.9	601.5	601.0	600.5
175°	602.7	602.6	602.5	602.7	603.2	603.7	604.2	604.7	604.2	603.7	603.2
177.5°	603.8	603.8	603.7	603.8	604.2	604.6	605.0	605.4	605.0	604.6	604.2
180°	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7



TEST NUMBER: P332390

CATALOG NUMBER: S123RDIW-S340D460U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2
2.5°	534.9	532.5	530.8	527.1	524.7	522.1	519.5	521.1	520.9	520.8	520.8
5°	517.0	511.6	506.7	500.4	496.5	491.6	487.9	487.4	488.3	485.1	483.2
7.5°	499.2	491.9	484.9	478.0	470.6	464.7	461.1	459.3	457.0	455.0	452.9
10°	486.7	478.1	471.3	462.7	454.8	447.8	443.4	440.3	438.7	437.1	434.0
12.5°	473.8	465.4	456.8	447.0	439.5	431.4	428.1	424.7	421.6	419.7	415.6
15°	455.0	444.1	435.0	424.7	416.3	408.4	403.8	397.0	396.1	393.7	389.5
17.5°	436.1	424.3	411.7	404.1	394.7	386.4	379.3	377.1	370.4	367.9	364.2
20°	421.2	410.3	400.7	390.7	377.0	369.3	363.7	360.7	355.3	352.0	349.7
22.5°	408.4	397.2	386.2	374.5	363.2	354.5	350.4	345.7	342.8	338.2	335.7
25°	390.0	377.9	364.6	352.0	343.9	337.4	330.8	326.6	322.4	320.3	315.7
27.5°	368.7	356.0	343.6	334.0	324.0	317.6	311.7	308.0	302.9	299.4	296.8
30°	356.9	342.0	331.3	322.7	309.9	303.8	299.4	294.7	291.0	287.3	284.7
32.5°	343.3	329.7	319.6	308.9	299.1	292.4	286.7	282.6	279.4	275.9	273.3
35°	322.0	310.6	300.1	289.4	282.1	275.4	268.6	265.1	262.1	258.8	256.5
37.5°	302.7	292.0	282.0	271.9	262.9	257.4	252.0	249.3	245.2	243.0	240.7
40°	290.8	280.3	269.6	259.8	250.5	246.3	241.4	237.4	233.7	232.0	229.5
42.5°	277.7	267.2	258.2	247.7	240.0	234.3	229.8	225.5	222.7	220.3	218.9
45°	258.4	249.1	240.2	229.7	222.5	217.6	212.5	208.5	206.0	204.3	201.8
47.5°	239.6	230.3	221.3	212.2	205.2	199.6	194.4	191.7	188.3	186.3	184.6
50°	226.0	217.6	208.1	199.7	192.7	187.1	182.9	179.4	176.4	173.8	172.6
52.5°	213.5	204.6	196.3	188.5	181.1	174.8	171.0	167.3	165.0	162.1	160.7
55°	192.9	184.3	177.3	169.6	162.4	157.0	152.4	149.1	146.8	143.5	141.7
57.5°	173.6	165.8	157.5	150.8	143.4	138.9	135.0	130.6	127.7	125.2	123.3
60°	160.5	151.7	144.4	138.2	131.6	125.8	122.3	118.8	115.8	113.2	111.6
62.5°	146.9	139.2	132.3	125.5	119.5	114.4	110.4	107.5	104.8	103.2	101.5
65°	126.0	120.0	113.0	107.4	101.8	98.1	94.8	92.3	90.4	89.2	87.8
67.5°	106.8	101.0	94.9	89.4	85.6	82.8	80.7	78.5	77.5	76.0	75.1
70°	94.4	88.3	82.9	78.7	75.0	72.9	71.5	69.9	69.0	67.1	66.2
72.5°	80.8	76.4	72.5	69.1	66.1	64.2	62.4	60.4	58.9	56.8	55.9
75°	63.6	59.6	56.6	54.3	52.4	49.9	47.3	45.2	44.5	43.8	43.6
77.5°	47.1	44.6	42.4	40.4	38.1	36.3	35.7	35.2	35.1	34.7	34.7
80°	37.0	34.7	33.1	30.8	29.4	29.4	29.4	28.9	29.1	29.1	29.1
82.5°	27.5	25.4	24.5	23.7	23.4	23.6	23.6	23.7	23.5	23.9	23.7
85°	14.2	14.4	14.9	14.7	14.9	14.9	15.4	15.1	15.4	14.9	15.4
87.5°	6.1	6.9	7.3	7.8	8.2	8.3	8.6	8.7	8.9	9.0	9.1
90°	4.4	5.6	6.9	8.2	9.5	10.8	11.2	11.6	12.0	12.4	12.7
92.5°	7.2	7.6	8.6	9.5	10.5	11.5	12.1	12.8	13.4	14.1	14.4
95°	11.0	9.5	10.6	11.7	12.8	13.9	14.6	15.3	16.0	16.7	17.1
97.5°	47.7	43.2	36.0	28.8	21.7	14.5	15.3	16.1	16.9	17.7	18.1
100°	83.9	77.1	61.6	46.0	30.4	14.8	15.6	16.4	17.2	18.0	18.5
102.5°	105.4	97.6	80.6	63.6	46.6	29.6	27.1	24.6	22.1	19.7	18.5
105°	138.3	134.3	125.3	116.4	107.4	98.4	80.7	63.0	45.4	27.7	19.0
107.5°	173.5	174.7	176.1	177.5	178.9	180.3	167.4	154.4	141.5	128.5	115.4
110°	197.3	198.2	199.3	200.4	201.5	202.6	199.3	196.0	192.7	189.4	180.7



TEST NUMBER: P332390

CATALOG NUMBER: S123RDIW-S340D460U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	220.0	220.9	222.0	223.1	224.2	225.3	225.3	225.4	225.4	225.5	224.0
115°	253.5	254.3	255.2	256.1	257.0	257.9	258.9	259.9	260.9	261.9	262.6
117.5°	287.1	287.7	288.1	288.6	289.1	289.5	290.3	291.1	291.9	292.7	293.1
120°	308.2	308.8	309.1	309.4	309.7	310.0	310.8	311.6	312.4	313.2	313.6
122.5°	328.4	329.0	329.4	329.7	330.1	330.5	331.0	331.6	332.2	332.7	333.0
125°	357.2	357.8	358.2	358.6	359.0	359.4	359.6	359.8	360.0	360.2	360.4
127.5°	384.9	385.5	386.0	386.5	387.0	387.5	387.8	388.1	388.4	388.7	388.8
130°	402.2	402.8	403.2	403.6	404.0	404.3	404.7	405.1	405.5	405.9	406.0
132.5°	418.7	419.2	419.6	419.9	420.2	420.5	420.9	421.3	421.7	422.1	422.2
135°	443.1	443.6	444.0	444.4	444.8	445.2	445.5	445.8	446.1	446.4	446.4
137.5°	465.3	465.8	466.1	466.3	466.5	466.7	467.2	467.7	468.1	468.6	468.8
140°	479.1	479.5	479.8	480.1	480.4	480.7	481.1	481.5	481.9	482.3	482.4
142.5°	492.4	492.8	493.1	493.4	493.7	494.0	494.3	494.7	495.0	495.3	495.3
145°	511.4	511.8	512.0	512.2	512.4	512.6	512.8	513.0	513.2	513.4	513.5
147.5°	527.9	528.3	528.5	528.7	528.9	529.1	529.3	529.5	529.7	529.9	529.7
150°	538.1	538.3	538.5	538.7	538.9	539.1	539.3	539.5	539.7	539.9	539.9
152.5°	547.2	547.3	547.4	547.5	547.6	547.8	548.1	548.5	548.8	549.2	549.1
155°	559.5	559.4	559.5	559.6	559.7	559.8	560.3	560.8	561.3	561.8	561.7
157.5°	570.8	570.7	570.6	570.5	570.4	570.3	570.9	571.5	572.1	572.7	572.6
160°	576.9	576.8	576.7	576.6	576.5	576.4	577.0	577.6	578.2	578.8	578.8
162.5°	582.4	582.2	582.1	582.0	581.9	581.8	582.5	583.2	583.9	584.5	584.6
165°	589.6	589.4	589.3	589.2	589.1	589.0	589.8	590.6	591.4	592.2	592.2
167.5°	595.0	594.8	594.8	594.8	594.8	594.8	595.6	596.4	597.1	597.9	597.9
170°	598.2	598.0	598.0	598.0	598.0	598.0	598.8	599.6	600.4	601.2	601.2
172.5°	600.0	599.8	599.9	600.0	600.1	600.1	600.9	601.7	602.5	603.3	603.3
175°	602.7	602.5	602.6	602.7	602.8	602.9	603.6	604.3	605.0	605.7	605.7
177.5°	603.8	603.7	603.8	603.8	603.9	604.0	604.6	605.3	605.9	606.6	606.5
180°	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7



TEST NUMBER: P332390

CATALOG NUMBER: S123RDIW-S340D460U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2
2.5°	518.5	518.3	518.5	517.8	518.5	518.3	518.5	520.8	520.8	520.9	521.1
5°	482.5	482.3	481.6	479.5	481.6	482.3	482.5	483.2	485.1	488.3	487.4
7.5°	451.0	450.7	448.7	448.7	448.7	450.7	451.0	452.9	455.0	457.0	459.3
10°	432.4	432.6	429.8	428.2	429.8	432.6	432.4	434.0	437.1	438.7	440.3
12.5°	414.3	413.3	411.0	409.2	411.0	413.3	414.3	415.6	419.7	421.6	424.7
15°	390.5	388.1	382.6	383.0	382.6	388.1	390.5	389.5	393.7	396.1	397.0
17.5°	362.4	360.7	360.6	357.3	360.6	360.7	362.4	364.2	367.9	370.4	377.1
20°	346.0	344.8	345.3	342.0	345.3	344.8	346.0	349.7	352.0	355.3	360.7
22.5°	333.1	331.9	330.0	329.0	330.0	331.9	333.1	335.7	338.2	342.8	345.7
25°	314.3	312.4	310.6	311.7	310.6	312.4	314.3	315.7	320.3	322.4	326.6
27.5°	295.5	294.1	292.2	292.0	292.2	294.1	295.5	296.8	299.4	302.9	308.0
30°	283.5	282.1	281.2	280.0	281.2	282.1	283.5	284.7	287.3	291.0	294.7
32.5°	271.4	271.1	269.5	269.2	269.5	271.1	271.4	273.3	275.9	279.4	282.6
35°	255.6	254.2	253.7	253.9	253.7	254.2	255.6	256.5	258.8	262.1	265.1
37.5°	240.5	238.7	237.8	237.0	237.8	238.7	240.5	240.7	243.0	245.2	249.3
40°	229.7	227.9	227.4	226.9	227.4	227.9	229.7	229.5	232.0	233.7	237.4
42.5°	217.6	216.9	216.6	215.7	216.6	216.9	217.6	218.9	220.3	222.7	225.5
45°	201.1	200.8	199.4	199.9	199.4	200.8	201.1	201.8	204.3	206.0	208.5
47.5°	183.6	182.6	181.6	182.3	181.6	182.6	183.6	184.6	186.3	188.3	191.7
50°	171.7	171.2	169.1	169.6	169.1	171.2	171.7	172.6	173.8	176.4	179.4
52.5°	159.8	158.0	157.2	156.9	157.2	158.0	159.8	160.7	162.1	165.0	167.3
55°	140.0	137.9	137.0	136.5	137.0	137.9	140.0	141.7	143.5	146.8	149.1
57.5°	120.6	120.1	119.3	119.8	119.3	120.1	120.6	123.3	125.2	127.7	130.6
60°	109.3	109.3	109.3	109.0	109.3	109.3	109.3	111.6	113.2	115.8	118.8
62.5°	100.5	99.9	99.8	100.1	99.8	99.9	100.5	101.5	103.2	104.8	107.5
65°	87.1	86.9	86.0	85.7	86.0	86.9	87.1	87.8	89.2	90.4	92.3
67.5°	74.5	73.7	73.4	73.1	73.4	73.7	74.5	75.1	76.0	77.5	78.5
70°	65.0	64.5	63.1	63.4	63.1	64.5	65.0	66.2	67.1	69.0	69.9
72.5°	54.8	54.3	54.0	53.7	54.0	54.3	54.8	55.9	56.8	58.9	60.4
75°	43.3	43.1	42.9	43.8	42.9	43.1	43.3	43.6	43.8	44.5	45.2
77.5°	34.7	34.7	34.9	34.5	34.9	34.7	34.7	34.7	34.7	35.1	35.2
80°	29.1	29.1	28.9	28.9	28.9	29.1	29.1	29.1	29.1	29.1	28.9
82.5°	23.3	23.5	23.7	23.3	23.7	23.5	23.3	23.7	23.9	23.5	23.7
85°	15.4	15.1	15.6	15.4	15.6	15.1	15.4	15.4	14.9	15.4	15.1
87.5°	9.5	9.1	9.2	9.4	9.2	9.1	9.5	9.1	9.0	8.9	8.7
90°	12.9	13.1	13.3	13.5	13.3	13.1	12.9	12.7	12.4	12.0	11.6
92.5°	14.6	14.7	14.8	14.9	14.8	14.7	14.6	14.4	14.1	13.4	12.8
95°	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	16.7	16.0	15.3
97.5°	18.2	18.3	18.4	18.5	18.4	18.3	18.2	18.1	17.7	16.9	16.1
100°	18.6	18.7	18.8	18.9	18.8	18.7	18.6	18.5	18.0	17.2	16.4
102.5°	18.7	18.9	19.0	19.2	19.0	18.9	18.7	18.5	19.7	22.1	24.6
105°	19.2	19.4	19.6	19.8	19.6	19.4	19.2	19.0	27.7	45.4	63.0
107.5°	102.0	88.7	75.4	62.1	75.4	88.7	102.0	115.4	128.5	141.5	154.4
110°	166.4	152.1	137.8	123.6	137.8	152.1	166.4	180.7	189.4	192.7	196.0



TEST NUMBER: P332390

CATALOG NUMBER: S123RDIW-S340D460U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	221.0	218.0	215.0	212.0	215.0	218.0	221.0	224.0	225.5	225.4	225.4
115°	263.0	263.4	263.8	264.2	263.8	263.4	263.0	262.6	261.9	260.9	259.9
117.5°	293.2	293.3	293.4	293.5	293.4	293.3	293.2	293.1	292.7	291.9	291.1
120°	313.6	313.6	313.6	313.6	313.6	313.6	313.6	313.6	313.2	312.4	311.6
122.5°	333.1	333.2	333.3	333.4	333.3	333.2	333.1	333.0	332.7	332.2	331.6
125°	360.6	360.8	361.0	361.2	361.0	360.8	360.6	360.4	360.2	360.0	359.8
127.5°	388.6	388.4	388.2	388.0	388.2	388.4	388.6	388.8	388.7	388.4	388.1
130°	405.8	405.6	405.4	405.2	405.4	405.6	405.8	406.0	405.9	405.5	405.1
132.5°	421.9	421.6	421.3	421.1	421.3	421.6	421.9	422.2	422.1	421.7	421.3
135°	446.1	445.8	445.5	445.2	445.5	445.8	446.1	446.4	446.4	446.1	445.8
137.5°	468.6	468.4	468.2	468.0	468.2	468.4	468.6	468.8	468.6	468.1	467.7
140°	482.2	482.0	481.8	481.6	481.8	482.0	482.2	482.4	482.3	481.9	481.5
142.5°	495.0	494.8	494.5	494.2	494.5	494.8	495.0	495.3	495.3	495.0	494.7
145°	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.4	513.2	513.0
147.5°	529.3	528.8	528.4	527.9	528.4	528.8	529.3	529.7	529.9	529.7	529.5
150°	539.6	539.3	539.0	538.7	539.0	539.3	539.6	539.9	539.9	539.7	539.5
152.5°	548.7	548.2	547.8	547.3	547.8	548.2	548.7	549.1	549.2	548.8	548.5
155°	561.1	560.5	559.9	559.4	559.9	560.5	561.1	561.7	561.8	561.3	560.8
157.5°	571.8	571.1	570.3	569.5	570.3	571.1	571.8	572.6	572.7	572.1	571.5
160°	578.1	577.4	576.7	576.0	576.7	577.4	578.1	578.8	578.8	578.2	577.6
162.5°	583.9	583.3	582.7	582.1	582.7	583.3	583.9	584.6	584.5	583.9	583.2
165°	591.5	590.9	590.2	589.5	590.2	590.9	591.5	592.2	592.2	591.4	590.6
167.5°	597.1	596.4	595.6	594.8	595.6	596.4	597.1	597.9	597.9	597.1	596.4
170°	600.4	599.6	598.8	598.0	598.8	599.6	600.4	601.2	601.2	600.4	599.6
172.5°	602.4	601.5	600.7	599.8	600.7	601.5	602.4	603.3	603.3	602.5	601.7
175°	604.9	604.1	603.3	602.5	603.3	604.1	604.9	605.7	605.7	605.0	604.3
177.5°	605.7	604.9	604.1	603.3	604.1	604.9	605.7	606.5	606.6	605.9	605.3
180°	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7



TEST NUMBER: P332390

CATALOG NUMBER: S123RDIW-S340D460U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2
2.5°	519.5	522.1	524.7	527.1	530.8	532.5	534.9	535.9	538.6	542.7	546.1
5°	487.9	491.6	496.5	500.4	506.7	511.6	517.0	522.1	528.2	536.8	544.5
7.5°	461.1	464.7	470.6	478.0	484.9	491.9	499.2	506.2	514.8	527.2	539.4
10°	443.4	447.8	454.8	462.7	471.3	478.1	486.7	495.5	506.3	520.5	535.2
12.5°	428.1	431.4	439.5	447.0	456.8	465.4	473.8	484.2	496.4	511.5	529.2
15°	403.8	408.4	416.3	424.7	435.0	444.1	455.0	467.6	479.5	498.1	519.5
17.5°	379.3	386.4	394.7	404.1	411.7	424.3	436.1	449.0	463.7	483.4	507.0
20°	363.7	369.3	377.0	390.7	400.7	410.3	421.2	437.3	450.8	473.2	497.6
22.5°	350.4	354.5	363.2	374.5	386.2	397.2	408.4	423.7	440.4	461.6	488.1
25°	330.8	337.4	343.9	352.0	364.6	377.9	390.0	403.1	420.8	443.4	472.0
27.5°	311.7	317.6	324.0	334.0	343.6	356.0	368.7	383.6	402.6	426.5	455.6
30°	299.4	303.8	309.9	322.7	331.3	342.0	356.9	370.2	387.9	413.3	444.1
32.5°	286.7	292.4	299.1	308.9	319.6	329.7	343.3	357.7	375.8	400.8	432.3
35°	268.6	275.4	282.1	289.4	300.1	310.6	322.0	337.8	356.2	380.5	411.4
37.5°	252.0	257.4	262.9	271.9	282.0	292.0	302.7	318.3	335.6	361.8	390.2
40°	241.4	246.3	250.5	259.8	269.6	280.3	290.8	304.5	323.1	347.6	375.1
42.5°	229.8	234.3	240.0	247.7	258.2	267.2	277.7	290.7	308.2	333.1	357.2
45°	212.5	217.6	222.5	229.7	240.2	249.1	258.4	270.7	288.7	309.2	330.6
47.5°	194.4	199.6	205.2	212.2	221.3	230.3	239.6	250.5	266.9	287.0	301.5
50°	182.9	187.1	192.7	199.7	208.1	217.6	226.0	237.9	253.5	269.3	281.9
52.5°	171.0	174.8	181.1	188.5	196.3	204.6	213.5	223.7	237.8	252.7	262.7
55°	152.4	157.0	162.4	169.6	177.3	184.3	192.9	203.4	214.6	225.8	232.5
57.5°	135.0	138.9	143.4	150.8	157.5	165.8	173.6	181.7	192.1	200.5	204.9
60°	122.3	125.8	131.6	138.2	144.4	151.7	160.5	168.7	176.6	183.4	186.8
62.5°	110.4	114.4	119.5	125.5	132.3	139.2	146.9	153.8	160.8	166.6	169.0
65°	94.8	98.1	101.8	107.4	113.0	120.0	126.0	133.0	138.2	141.4	143.5
67.5°	80.7	82.8	85.6	89.4	94.9	101.0	106.8	112.3	116.6	118.8	120.7
70°	71.5	72.9	75.0	78.7	82.9	88.3	94.4	98.3	102.0	103.9	105.8
72.5°	62.4	64.2	66.1	69.1	72.5	76.4	80.8	85.6	87.7	89.9	91.0
75°	47.3	49.9	52.4	54.3	56.6	59.6	63.6	66.6	67.8	69.7	69.9
77.5°	35.7	36.3	38.1	40.4	42.4	44.6	47.1	49.8	50.4	51.3	52.0
80°	29.4	29.4	29.4	30.8	33.1	34.7	37.0	38.4	39.4	39.6	39.8
82.5°	23.6	23.6	23.4	23.7	24.5	25.4	27.5	29.1	29.9	29.7	29.2
85°	15.4	14.9	14.9	14.7	14.9	14.4	14.2	15.1	16.5	16.5	16.1
87.5°	8.6	8.3	8.2	7.8	7.3	6.9	6.1	6.1	5.9	6.4	6.1
90°	11.2	10.8	9.5	8.2	6.9	5.6	4.4	3.4	2.4	1.4	0.4
92.5°	12.1	11.5	10.5	9.5	8.6	7.6	7.2	7.5	7.8	8.1	8.4
95°	14.6	13.9	12.8	11.7	10.6	9.5	11.0	15.1	19.2	23.3	27.4
97.5°	15.3	14.5	21.7	28.8	36.0	43.2	47.7	49.6	51.4	53.2	55.1
100°	15.6	14.8	30.4	46.0	61.6	77.1	83.9	81.9	79.9	77.9	75.9
102.5°	27.1	29.6	46.6	63.6	80.6	97.6	105.4	104.0	102.5	101.1	99.6
105°	80.7	98.4	107.4	116.4	125.3	134.3	138.3	137.2	136.1	135.0	133.9
107.5°	167.4	180.3	178.9	177.5	176.1	174.7	173.5	172.6	171.8	170.9	170.0
110°	199.3	202.6	201.5	200.4	199.3	198.2	197.3	196.5	195.7	194.9	194.1



TEST NUMBER: P332390

CATALOG NUMBER: S123RDIW-S340D460U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	225.3	225.3	224.2	223.1	222.0	220.9	220.0	219.2	218.5	217.8	217.1
115°	258.9	257.9	257.0	256.1	255.2	254.3	253.5	252.9	252.3	251.7	251.1
117.5°	290.3	289.5	289.1	288.6	288.1	287.7	287.1	286.3	285.6	284.9	284.1
120°	310.8	310.0	309.7	309.4	309.1	308.8	308.2	307.3	306.4	305.5	304.6
122.5°	331.0	330.5	330.1	329.7	329.4	329.0	328.4	327.7	326.9	326.2	325.5
125°	359.6	359.4	359.0	358.6	358.2	357.8	357.2	356.4	355.6	354.8	354.0
127.5°	387.8	387.5	387.0	386.5	386.0	385.5	384.9	384.1	383.3	382.5	381.7
130°	404.7	404.3	404.0	403.6	403.2	402.8	402.2	401.4	400.6	399.8	399.0
132.5°	420.9	420.5	420.2	419.9	419.6	419.2	418.7	417.9	417.1	416.3	415.5
135°	445.5	445.2	444.8	444.4	444.0	443.6	443.1	442.5	441.9	441.3	440.7
137.5°	467.2	466.7	466.5	466.3	466.1	465.8	465.3	464.6	463.8	463.1	462.3
140°	481.1	480.7	480.4	480.1	479.8	479.5	479.1	478.5	477.9	477.3	476.7
142.5°	494.3	494.0	493.7	493.4	493.1	492.8	492.4	491.8	491.2	490.6	490.0
145°	512.8	512.6	512.4	512.2	512.0	511.8	511.4	510.7	510.0	509.3	508.6
147.5°	529.3	529.1	528.9	528.7	528.5	528.3	527.9	527.5	527.0	526.6	526.1
150°	539.3	539.1	538.9	538.7	538.5	538.3	538.1	537.8	537.5	537.2	536.9
152.5°	548.1	547.8	547.6	547.5	547.4	547.3	547.2	547.0	546.9	546.7	546.6
155°	560.3	559.8	559.7	559.6	559.5	559.4	559.5	559.7	559.8	560.0	560.2
157.5°	570.9	570.3	570.4	570.5	570.6	570.7	570.8	570.8	570.8	570.8	570.9
160°	577.0	576.4	576.5	576.6	576.7	576.8	576.9	577.0	577.1	577.2	577.3
162.5°	582.5	581.8	581.9	582.0	582.1	582.2	582.4	582.7	582.9	583.2	583.4
165°	589.8	589.0	589.1	589.2	589.3	589.4	589.6	589.9	590.2	590.5	590.8
167.5°	595.6	594.8	594.8	594.8	594.8	594.8	595.0	595.4	595.8	596.2	596.6
170°	598.8	598.0	598.0	598.0	598.0	598.0	598.2	598.6	599.0	599.4	599.8
172.5°	600.9	600.1	600.1	600.0	599.9	599.8	600.0	600.5	601.0	601.5	601.9
175°	603.6	602.9	602.8	602.7	602.6	602.5	602.7	603.2	603.7	604.2	604.7
177.5°	604.6	604.0	603.9	603.8	603.8	603.7	603.8	604.2	604.6	605.0	605.4
180°	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7



TEST NUMBER: P332390

CATALOG NUMBER: S123RDIW-S340D460U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2
2.5°	547.2	549.3	551.9	555.8	558.8	561.4	561.9	562.7	564.6	567.7	570.1
5°	550.8	556.1	564.7	573.1	582.2	589.7	596.7	601.6	606.2	616.0	623.9
7.5°	549.6	561.6	575.1	590.1	605.4	620.1	633.8	646.1	658.3	672.6	688.8
10°	548.9	562.9	581.1	600.4	621.6	642.3	662.4	678.0	696.1	712.5	733.2
12.5°	545.4	565.5	587.2	611.9	638.0	661.9	688.3	709.8	730.6	754.2	778.3
15°	540.7	565.2	592.7	625.5	665.2	694.0	721.1	758.6	784.2	809.8	844.3
17.5°	532.3	562.2	596.5	639.2	672.2	711.1	751.7	781.4	815.9	852.0	883.2
20°	525.6	560.3	598.8	640.7	682.9	725.0	764.4	799.8	835.5	877.2	902.8
22.5°	518.9	553.2	593.2	637.7	683.0	727.5	772.0	813.6	853.7	895.8	928.5
25°	504.6	545.4	588.7	634.2	678.9	727.8	780.9	827.3	876.9	920.3	951.3
27.5°	490.2	527.6	570.7	616.8	666.5	724.3	786.8	839.5	889.2	920.3	930.0
30°	477.1	516.7	556.4	603.2	657.0	721.5	787.9	848.3	889.0	902.6	892.5
32.5°	463.9	499.8	539.0	587.0	644.1	714.6	789.4	843.1	867.6	857.3	816.5
35°	440.6	472.9	510.9	558.9	624.6	710.8	783.3	819.6	813.6	755.3	678.4
37.5°	415.6	442.0	477.1	527.3	604.4	695.7	756.8	762.2	709.7	620.3	531.5
40°	395.8	419.6	455.7	508.1	588.7	680.8	730.2	708.5	627.2	527.7	453.6
42.5°	376.6	396.7	431.5	488.0	573.8	660.4	690.5	643.3	549.5	455.4	388.0
45°	344.1	363.0	397.9	455.9	543.3	621.6	617.6	535.6	441.7	366.0	310.1
47.5°	313.3	329.8	362.6	421.8	507.5	563.3	526.3	439.0	359.4	298.6	258.7
50°	291.5	307.8	340.4	398.9	478.8	519.5	466.7	382.6	309.6	259.3	227.6
52.5°	270.6	286.5	316.3	373.3	444.1	468.5	411.7	333.7	272.9	229.5	202.3
55°	241.4	253.5	280.3	334.8	387.7	393.3	335.7	270.5	220.4	190.1	171.5
57.5°	211.6	222.0	248.5	291.9	329.0	326.1	271.6	215.1	181.4	158.9	145.4
60°	192.2	202.5	225.8	263.0	291.0	281.2	231.1	185.7	156.8	140.3	129.5
62.5°	174.1	182.1	204.0	231.2	251.3	240.2	197.6	160.0	137.0	123.1	114.6
65°	147.9	154.5	171.9	186.2	197.3	186.6	151.2	125.1	108.6	98.8	93.0
67.5°	123.1	127.2	138.2	143.4	151.3	139.5	113.7	96.2	86.8	78.6	74.5
70°	107.4	110.4	116.3	120.5	122.5	110.4	91.3	78.5	70.6	64.8	62.2
72.5°	91.7	94.4	95.6	99.0	97.9	86.6	73.4	63.2	57.5	53.6	50.3
75°	70.1	71.3	70.1	68.7	65.7	57.8	48.7	43.6	39.4	37.5	36.3
77.5°	51.1	50.7	49.2	47.0	41.8	36.8	31.9	30.2	28.4	27.4	27.0
80°	39.4	38.4	37.0	33.5	29.1	25.6	24.5	23.3	22.6	21.4	21.2
82.5°	29.3	28.7	26.4	23.5	20.4	18.7	17.8	17.3	16.6	16.0	16.0
85°	15.6	14.9	12.3	10.7	10.3	9.8	9.6	9.6	8.6	8.4	8.4
87.5°	5.3	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	5.6	6.9	8.2	9.5	10.8	11.2	11.6
92.5°	8.1	7.8	7.5	7.2	7.6	8.6	9.5	10.5	11.5	12.1	12.8
95°	23.3	19.2	15.1	11.0	9.5	10.6	11.7	12.8	13.9	14.6	15.3
97.5°	53.2	51.4	49.6	47.7	43.2	36.0	28.8	21.7	14.5	15.3	16.1
100°	77.9	79.9	81.9	83.9	77.1	61.6	46.0	30.4	14.8	15.6	16.4
102.5°	101.1	102.5	104.0	105.4	97.6	80.6	63.6	46.6	29.6	27.1	24.6
105°	135.0	136.1	137.2	138.3	134.3	125.3	116.4	107.4	98.4	80.7	63.0
107.5°	170.9	171.8	172.6	173.5	174.7	176.1	177.5	178.9	180.3	167.4	154.4
110°	194.9	195.7	196.5	197.3	198.2	199.3	200.4	201.5	202.6	199.3	196.0





TEST NUMBER: P332390

CATALOG NUMBER: S123RDIW-S340D460U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	217.8	218.5	219.2	220.0	220.9	222.0	223.1	224.2	225.3	225.3	225.4
115°	251.7	252.3	252.9	253.5	254.3	255.2	256.1	257.0	257.9	258.9	259.9
117.5°	284.9	285.6	286.3	287.1	287.7	288.1	288.6	289.1	289.5	290.3	291.1
120°	305.5	306.4	307.3	308.2	308.8	309.1	309.4	309.7	310.0	310.8	311.6
122.5°	326.2	326.9	327.7	328.4	329.0	329.4	329.7	330.1	330.5	331.0	331.6
125°	354.8	355.6	356.4	357.2	357.8	358.2	358.6	359.0	359.4	359.6	359.8
127.5°	382.5	383.3	384.1	384.9	385.5	386.0	386.5	387.0	387.5	387.8	388.1
130°	399.8	400.6	401.4	402.2	402.8	403.2	403.6	404.0	404.3	404.7	405.1
132.5°	416.3	417.1	417.9	418.7	419.2	419.6	419.9	420.2	420.5	420.9	421.3
135°	441.3	441.9	442.5	443.1	443.6	444.0	444.4	444.8	445.2	445.5	445.8
137.5°	463.1	463.8	464.6	465.3	465.8	466.1	466.3	466.5	466.7	467.2	467.7
140°	477.3	477.9	478.5	479.1	479.5	479.8	480.1	480.4	480.7	481.1	481.5
142.5°	490.6	491.2	491.8	492.4	492.8	493.1	493.4	493.7	494.0	494.3	494.7
145°	509.3	510.0	510.7	511.4	511.8	512.0	512.2	512.4	512.6	512.8	513.0
147.5°	526.6	527.0	527.5	527.9	528.3	528.5	528.7	528.9	529.1	529.3	529.5
150°	537.2	537.5	537.8	538.1	538.3	538.5	538.7	538.9	539.1	539.3	539.5
152.5°	546.7	546.9	547.0	547.2	547.3	547.4	547.5	547.6	547.8	548.1	548.5
155°	560.0	559.8	559.7	559.5	559.4	559.5	559.6	559.7	559.8	560.3	560.8
157.5°	570.8	570.8	570.8	570.8	570.7	570.6	570.5	570.4	570.3	570.9	571.5
160°	577.2	577.1	577.0	576.9	576.8	576.7	576.6	576.5	576.4	577.0	577.6
162.5°	583.2	582.9	582.7	582.4	582.2	582.1	582.0	581.9	581.8	582.5	583.2
165°	590.5	590.2	589.9	589.6	589.4	589.3	589.2	589.1	589.0	589.8	590.6
167.5°	596.2	595.8	595.4	595.0	594.8	594.8	594.8	594.8	594.8	595.6	596.4
170°	599.4	599.0	598.6	598.2	598.0	598.0	598.0	598.0	598.0	598.8	599.6
172.5°	601.5	601.0	600.5	600.0	599.8	599.9	600.0	600.1	600.1	600.9	601.7
175°	604.2	603.7	603.2	602.7	602.5	602.6	602.7	602.8	602.9	603.6	604.3
177.5°	605.0	604.6	604.2	603.8	603.7	603.8	603.8	603.9	604.0	604.6	605.3
180°	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	544.2	544.2	544.2	544.2	544.2	544.2	544.2
2.5°	574.1	574.1	574.8	577.6	578.0	580.4	579.7
5°	630.9	635.3	637.0	644.0	648.1	650.0	646.3
7.5°	700.4	712.9	718.8	726.2	732.6	734.6	729.5
10°	751.1	764.2	775.1	781.9	788.2	792.4	797.7
12.5°	800.1	816.2	826.6	836.1	842.6	847.9	848.8
15°	853.4	877.6	896.0	909.6	916.3	919.8	918.4
17.5°	907.1	929.6	942.7	956.5	965.8	966.3	966.6
20°	937.5	959.4	974.6	984.8	995.3	994.8	997.2
22.5°	957.8	975.1	986.7	994.1	997.7	995.9	996.4
25°	967.3	972.5	970.4	958.5	955.4	944.5	946.4
27.5°	918.3	894.1	869.0	836.8	811.3	791.0	792.0
30°	851.8	808.9	760.0	719.0	682.2	671.9	650.0
32.5°	758.8	694.5	637.2	598.9	567.4	558.8	539.7
35°	601.1	538.6	479.7	444.3	430.3	410.7	410.5
37.5°	467.2	412.2	381.1	354.5	340.6	328.7	327.6
40°	393.0	350.2	326.6	307.5	293.8	284.9	282.8
42.5°	341.2	306.6	284.5	272.7	262.1	257.5	254.1
45°	278.6	255.3	240.0	229.3	224.4	220.9	219.0
47.5°	233.1	217.5	207.0	199.8	195.9	192.2	193.2
50°	208.3	195.5	187.8	181.0	178.0	175.4	175.7
52.5°	188.3	176.8	170.6	165.7	162.0	160.1	159.3
55°	159.8	152.6	146.3	142.8	140.7	138.2	137.5
57.5°	136.3	130.7	125.6	121.7	121.1	118.7	119.0
60°	120.7	116.0	111.8	109.7	108.1	106.0	106.7
62.5°	107.8	103.9	100.1	98.4	96.7	95.2	95.5
65°	88.3	84.6	82.2	81.3	80.6	79.9	79.2
67.5°	70.4	68.1	66.6	64.6	63.2	63.0	62.3
70°	59.2	56.1	53.6	51.0	50.3	50.1	50.3
72.5°	47.4	45.5	44.8	43.6	43.4	42.8	43.2
75°	35.6	34.9	34.5	33.5	33.5	33.5	33.5
77.5°	26.3	25.9	25.6	25.4	25.2	24.8	24.8
80°	20.5	20.3	19.8	19.8	19.6	19.8	19.6
82.5°	15.5	15.4	15.0	15.0	14.7	14.6	14.7
85°	7.9	7.7	8.2	7.7	7.9	7.5	7.9
87.5°	4.6	4.7	4.6	4.6	4.5	4.9	4.6
90°	12.0	12.4	12.7	12.9	13.1	13.3	13.5
92.5°	13.4	14.1	14.4	14.6	14.7	14.8	14.9
95°	16.0	16.7	17.1	17.1	17.1	17.1	17.1
97.5°	16.9	17.7	18.1	18.2	18.3	18.4	18.5
100°	17.2	18.0	18.5	18.6	18.7	18.8	18.9
102.5°	22.1	19.7	18.5	18.7	18.9	19.0	19.2
105°	45.4	27.7	19.0	19.2	19.4	19.6	19.8
107.5°	141.5	128.5	115.4	102.0	88.7	75.4	62.1
110°	192.7	189.4	180.7	166.4	152.1	137.8	123.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	225.4	225.5	224.0	221.0	218.0	215.0	212.0
115°	260.9	261.9	262.6	263.0	263.4	263.8	264.2
117.5°	291.9	292.7	293.1	293.2	293.3	293.4	293.5
120°	312.4	313.2	313.6	313.6	313.6	313.6	313.6
122.5°	332.2	332.7	333.0	333.1	333.2	333.3	333.4
125°	360.0	360.2	360.4	360.6	360.8	361.0	361.2
127.5°	388.4	388.7	388.8	388.6	388.4	388.2	388.0
130°	405.5	405.9	406.0	405.8	405.6	405.4	405.2
132.5°	421.7	422.1	422.2	421.9	421.6	421.3	421.1
135°	446.1	446.4	446.4	446.1	445.8	445.5	445.2
137.5°	468.1	468.6	468.8	468.6	468.4	468.2	468.0
140°	481.9	482.3	482.4	482.2	482.0	481.8	481.6
142.5°	495.0	495.3	495.3	495.0	494.8	494.5	494.2
145°	513.2	513.4	513.5	513.5	513.5	513.5	513.5
147.5°	529.7	529.9	529.7	529.3	528.8	528.4	527.9
150°	539.7	539.9	539.9	539.6	539.3	539.0	538.7
152.5°	548.8	549.2	549.1	548.7	548.2	547.8	547.3
155°	561.3	561.8	561.7	561.1	560.5	559.9	559.4
157.5°	572.1	572.7	572.6	571.8	571.1	570.3	569.5
160°	578.2	578.8	578.8	578.1	577.4	576.7	576.0
162.5°	583.9	584.5	584.6	583.9	583.3	582.7	582.1
165°	591.4	592.2	592.2	591.5	590.9	590.2	589.5
167.5°	597.1	597.9	597.9	597.1	596.4	595.6	594.8
170°	600.4	601.2	601.2	600.4	599.6	598.8	598.0
172.5°	602.5	603.3	603.3	602.4	601.5	600.7	599.8
175°	605.0	605.7	605.7	604.9	604.1	603.3	602.5
177.5°	605.9	606.6	606.5	605.7	604.9	604.1	603.3
180°	604.7	604.7	604.7	604.7	604.7	604.7	604.7

(END OF REPORT)