

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: P332248-927

Luminaire Tested: **S123RDIP-S340D585U927-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332248-927  
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-S340D585U927-4F0-1E-UDD-A4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 585 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2754.5 lumens  
Efficiency: N/A  
Efficacy: 107.6 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

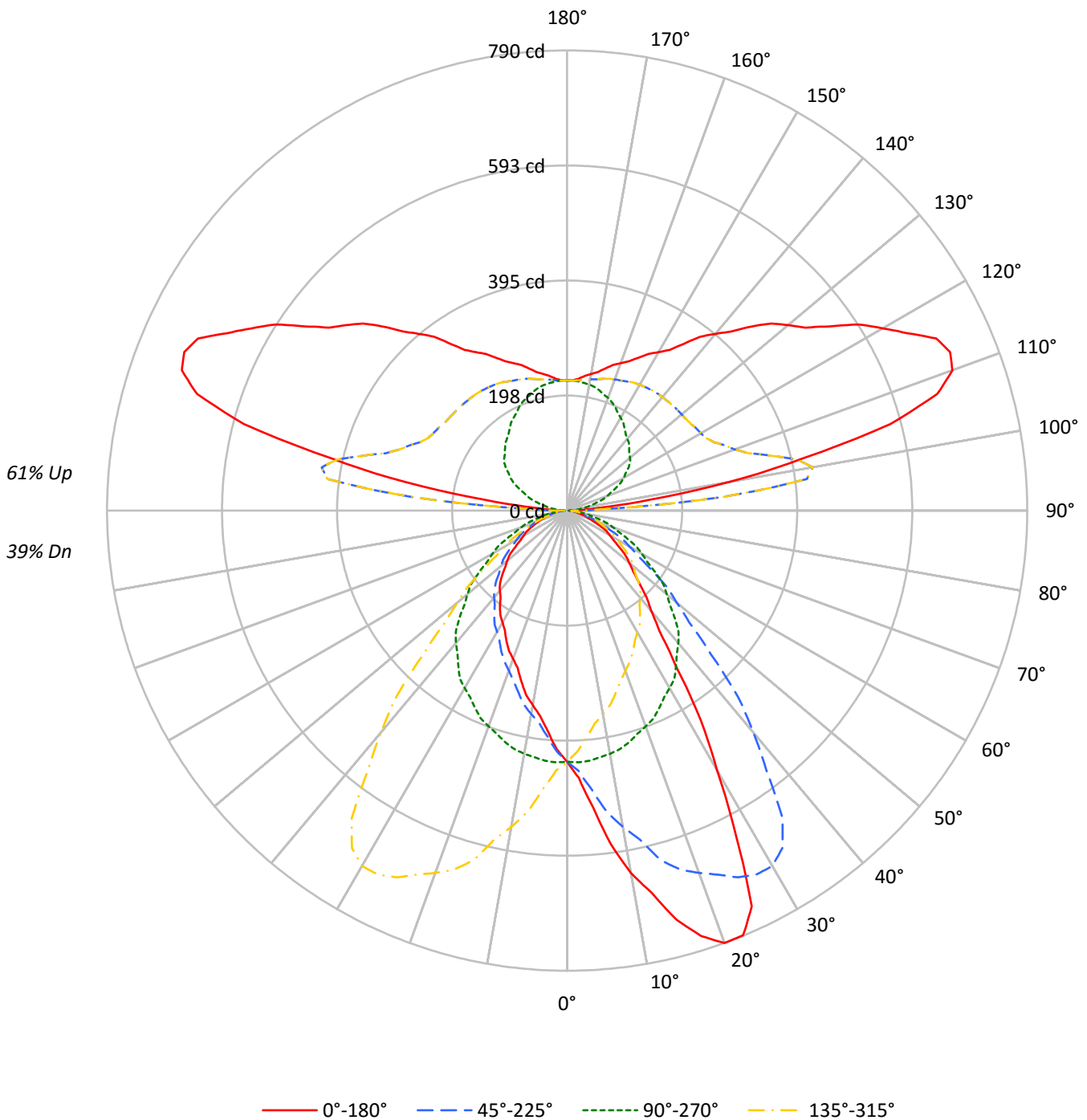
Input Watts (W): 25.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	96	92	88	85	87	84	80	78	68	66	64	54	53	52	41	41	40	34
2	88	81	75	70	79	74	69	64	60	57	54	48	46	44	37	35	34	29
3	80	71	64	59	73	65	59	54	54	49	46	43	40	38	33	31	30	25
4	73	63	56	50	67	58	51	46	48	43	39	39	35	32	30	28	26	22
5	68	56	49	43	61	52	45	40	43	38	34	35	31	28	27	25	23	19
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	25	22	20	17
7	58	46	38	33	52	42	35	31	35	30	26	29	25	22	23	20	18	15
8	53	42	34	29	49	38	32	27	32	27	24	26	23	20	21	18	16	14
9	50	38	31	26	45	35	29	24	30	25	21	24	21	18	19	17	15	13
10	46	35	28	23	42	32	26	22	27	22	19	22	19	16	18	15	13	11

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	4640	4640	4640	4640
5°	5532	4660	4105	4660
10°	6907	4634	3707	4634
15°	8107	4586	3381	4586
20°	9049	4515	3103	4515
25°	8904	4441	2932	4441
30°	6400	4373	2757	4373
35°	4273	4282	2643	4282
40°	3147	4175	2525	4175
45°	2641	3987	2411	3987
50°	2331	3739	2251	3739
55°	2044	3457	2029	3457
60°	1819	3186	1858	3186
65°	1597	2896	1729	2896
70°	1253	2637	1580	2637
75°	1102	2304	1443	2304
80°	961	1953	1420	1953
85°	778	1581	1507	1581



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.4	1.5
10°-20°	132.5	4.8
20°-30°	208.1	7.6
30°-40°	217.1	7.9
40°-50°	185.8	6.7
50°-60°	141.6	5.1
60°-70°	90.8	3.3
70°-80°	43.7	1.6
80°-90°	13.3	0.5
90°-100°	124.2	4.5
100°-110°	351.7	12.8
110°-120°	346.0	12.6
120°-130°	276.0	10.0
130°-140°	217.6	7.9
140°-150°	162.4	5.9
150°-160°	113.2	4.1
160°-170°	66.5	2.4
170°-180°	21.6	0.8
0°-30°	382.9	13.9
0°-40°	600.1	21.8
0°-60°	927.5	33.7
0°-90°	1075.2	39.0
90°-120°	822.0	29.8
90°-150°	1478.0	53.7
90°-180°	1679.0	61.0
0°-180°	2754.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	431	431	431	431	431	
5°	512	431	380	431	512	53
15°	728	412	303	412	728	206
25°	750	374	247	374	750	322
35°	325	326	201	326	325	213
45°	174	262	158	262	174	136
55°	109	184	108	184	109	98
65°	63	114	68	114	63	62
75°	26	55	35	55	26	28
85°	6	13	12	13	6	8
90°	13	1	13	1	13	7
95°	52	15	52	15	52	94
105°	575	52	575	52	575	567
115°	699	93	699	93	699	679
125°	551	129	551	129	551	500
135°	447	151	447	151	447	347
145°	349	172	349	172	349	222
155°	290	196	290	196	290	135
165°	252	214	252	214	252	72
175°	227	223	227	223	227	22
180°	223	223	223	223	223	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1
2.5°	459.2	459.8	457.9	457.6	455.3	454.8	454.8	451.6	449.7	447.3	445.8
5°	512.0	514.9	513.4	510.2	504.6	503.3	499.8	494.2	488.0	480.2	476.6
7.5°	577.9	581.9	580.4	575.3	569.4	564.7	554.8	545.7	532.8	521.5	511.8
10°	631.9	627.7	624.4	619.4	614.0	605.4	595.0	580.8	564.4	551.4	537.1
12.5°	672.4	671.7	667.5	662.3	654.8	646.6	633.8	616.6	597.5	578.8	562.3
15°	727.5	728.6	725.9	720.6	709.8	695.2	676.0	668.8	641.5	621.2	600.9
17.5°	765.7	765.5	765.1	757.7	746.8	736.4	718.6	699.7	674.9	646.3	619.0
20°	790.0	788.1	788.5	780.1	772.1	760.0	742.7	715.2	694.9	661.9	633.6
22.5°	789.3	788.9	790.4	787.5	781.6	772.5	758.8	735.5	709.6	676.3	644.5
25°	749.7	748.2	756.9	759.3	768.7	770.4	766.3	753.6	729.0	694.7	655.4
27.5°	627.4	626.6	642.7	662.9	688.4	708.3	727.5	736.7	729.0	704.4	665.0
30°	514.9	532.3	540.4	569.6	602.1	640.8	674.8	707.0	715.0	704.3	672.0
32.5°	427.5	442.7	449.5	474.4	504.8	550.2	601.1	646.8	679.1	687.3	667.9
35°	325.2	325.3	340.9	352.0	380.0	426.7	476.2	537.4	598.3	644.5	649.3
37.5°	259.5	260.4	269.8	280.8	301.9	326.5	370.1	421.0	491.4	562.2	603.8
40°	224.0	225.7	232.7	243.6	258.7	277.4	311.3	359.3	418.0	496.9	561.3
42.5°	201.3	204.0	207.6	216.0	225.4	242.9	270.3	307.4	360.8	435.3	509.6
45°	173.5	175.0	177.8	181.6	190.1	202.2	220.7	245.7	289.9	349.9	424.3
47.5°	153.0	152.3	155.2	158.3	164.0	172.3	184.7	204.9	236.5	284.7	347.8
50°	139.2	138.9	141.0	143.4	148.8	154.9	165.0	180.3	205.4	245.3	303.1
52.5°	126.2	126.8	128.3	131.3	135.1	140.1	149.2	160.3	181.8	216.2	264.4
55°	108.9	109.5	111.5	113.1	115.9	120.9	126.6	135.9	150.6	174.6	214.3
57.5°	94.3	94.0	95.9	96.4	99.5	103.5	108.0	115.2	125.9	143.7	170.4
60°	84.5	84.0	85.6	86.9	88.6	91.9	95.6	102.6	111.1	124.2	147.1
62.5°	75.7	75.4	76.6	78.0	79.3	82.3	85.4	90.8	97.5	108.5	126.7
65°	62.7	63.3	63.8	64.4	65.1	67.0	69.9	73.7	78.3	86.0	99.1
67.5°	49.4	49.9	50.1	51.2	52.8	53.9	55.8	59.0	62.3	68.8	76.2
70°	39.8	39.7	39.8	40.4	42.5	44.4	46.9	49.3	51.3	55.9	62.2
72.5°	34.2	33.9	34.4	34.5	35.5	36.0	37.5	39.8	42.5	45.6	50.1
75°	26.5	26.5	26.5	26.5	27.3	27.6	28.2	28.8	29.7	31.2	34.5
77.5°	19.6	19.6	20.0	20.1	20.3	20.5	20.8	21.4	21.7	22.5	23.9
80°	15.5	15.7	15.5	15.7	15.7	16.1	16.2	16.8	17.0	17.9	18.5
82.5°	11.6	11.6	11.6	11.9	11.9	12.2	12.3	12.7	12.7	13.2	13.7
85°	6.3	5.9	6.3	6.1	6.5	6.1	6.3	6.7	6.7	6.8	7.6
87.5°	4.1	4.5	4.1	4.1	4.3	4.2	4.1	4.0	4.2	4.2	4.0
90°	13.1	13.5	13.1	12.7	13.1	12.2	11.7	11.3	10.9	11.3	9.9
92.5°	21.8	22.6	22.1	23.5	24.3	26.7	30.2	38.0	52.4	69.5	76.4
95°	52.4	54.2	57.4	61.5	70.0	86.3	110.3	162.6	217.3	267.9	238.6
97.5°	142.7	146.6	158.8	179.1	212.5	266.5	324.8	405.5	444.3	415.3	304.0
100°	283.3	282.9	300.5	333.4	379.1	443.2	496.1	532.7	516.9	427.9	289.1
102.5°	415.6	426.0	440.7	466.8	502.3	543.0	573.9	575.0	520.5	404.4	267.5
105°	574.7	577.0	591.4	608.6	629.4	641.2	632.6	587.4	493.0	363.3	240.8
107.5°	666.4	670.5	675.4	681.2	680.8	664.7	625.2	551.8	444.7	326.9	223.9
110°	703.9	704.9	705.8	702.2	689.5	657.9	600.9	517.8	414.3	306.3	217.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	711.5	711.4	708.0	696.7	673.6	633.0	569.1	484.2	387.9	292.6	213.7
115°	699.0	696.7	687.7	667.8	633.9	584.7	518.2	439.7	356.1	277.9	212.4
117.5°	659.0	656.0	642.9	620.2	584.9	534.9	475.2	407.3	336.8	269.2	213.2
120°	625.8	623.1	612.3	586.9	551.3	505.6	451.4	390.4	326.7	265.2	214.6
122.5°	594.7	591.3	579.3	556.6	524.8	482.4	432.2	377.0	318.4	262.7	217.1
125°	551.3	548.1	536.8	516.9	488.0	451.9	408.4	359.2	307.7	259.4	220.9
127.5°	515.5	512.5	502.3	485.4	459.6	426.7	387.6	343.6	298.3	257.7	225.3
130°	495.2	491.6	482.1	465.9	441.9	411.1	374.5	333.9	293.3	256.7	228.1
132.5°	475.3	472.8	464.4	448.1	425.6	396.3	362.3	324.9	288.5	256.3	230.4
135°	446.9	443.7	435.5	422.0	399.9	374.1	344.8	312.7	282.4	255.7	233.6
137.5°	416.8	414.7	407.8	394.1	375.5	353.2	327.9	301.6	277.1	254.8	235.8
140°	395.8	396.2	389.0	376.4	359.2	339.8	318.1	295.1	273.8	254.4	237.2
142.5°	376.3	376.8	370.3	359.0	344.4	327.5	308.7	288.9	270.9	253.7	238.3
145°	349.3	348.4	344.8	335.3	324.0	310.9	296.4	281.5	267.0	252.5	239.0
147.5°	327.0	326.7	323.2	316.8	308.2	299.0	287.2	275.4	263.2	250.9	239.0
150°	314.0	314.0	311.3	306.3	299.6	291.0	281.5	271.1	260.7	249.4	239.0
152.5°	303.2	303.2	301.6	296.9	291.6	284.5	276.1	267.1	257.9	247.6	238.0
155°	289.6	289.1	288.3	284.6	280.6	275.2	268.4	261.2	253.5	244.5	236.8
157.5°	277.3	277.3	276.6	273.9	270.4	266.2	260.9	254.8	248.6	241.6	235.2
160°	269.3	269.7	269.7	267.0	263.9	260.7	256.2	251.2	245.3	239.5	234.5
162.5°	262.1	262.5	262.5	260.2	258.1	255.3	251.1	246.9	242.1	237.3	233.1
165°	252.5	252.5	253.0	251.2	249.4	247.2	244.0	241.3	237.7	234.1	230.9
167.5°	243.5	243.5	244.0	242.7	241.9	240.3	238.4	236.4	233.5	230.8	228.7
170°	238.1	238.1	238.6	237.7	237.2	236.3	234.5	233.1	230.9	228.6	227.3
172.5°	233.1	233.5	234.2	233.3	233.2	232.7	231.2	230.3	228.4	226.8	226.2
175°	227.3	227.8	228.1	227.8	227.8	227.8	226.8	226.4	225.5	224.6	224.6
177.5°	223.9	223.9	224.7	224.3	224.7	224.7	224.3	223.9	223.6	223.2	223.6
180°	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1
2.5°	445.1	444.7	442.7	440.3	437.2	435.1	433.5	432.6	429.9	426.7	424.5
5°	472.7	467.1	461.2	454.0	447.3	440.5	436.3	431.3	425.2	418.4	413.6
7.5°	502.1	491.2	479.6	467.5	455.6	444.9	435.4	427.3	417.6	407.8	401.0
10°	524.7	508.8	492.4	475.6	460.3	445.9	434.8	424.0	412.3	401.1	392.5
12.5°	545.3	524.3	505.4	484.7	465.2	448.0	432.1	419.2	405.2	393.2	383.6
15°	571.2	549.8	527.0	495.5	469.5	447.7	428.3	411.5	394.6	379.9	370.4
17.5°	595.5	563.3	532.5	506.4	472.5	445.4	421.7	401.6	382.9	367.3	355.7
20°	605.5	574.3	541.0	507.6	474.4	443.9	416.4	394.2	374.9	357.1	346.4
22.5°	611.6	576.3	541.1	505.2	469.9	438.2	411.1	386.7	365.7	348.9	335.6
25°	618.6	576.6	537.8	502.4	466.4	432.1	399.7	373.9	351.3	333.4	319.3
27.5°	623.3	573.8	528.0	488.6	452.1	418.0	388.3	360.9	337.9	318.9	303.9
30°	624.2	571.6	520.5	477.8	440.8	409.3	378.0	351.8	327.4	307.3	293.3
32.5°	625.3	566.1	510.2	465.0	427.0	395.9	367.5	342.5	317.5	297.7	283.4
35°	620.5	563.1	494.8	442.8	404.7	374.6	349.0	325.9	301.4	282.2	267.6
37.5°	599.5	551.1	478.8	417.7	378.0	350.1	329.2	309.1	286.6	265.9	252.2
40°	578.5	539.3	466.4	402.5	361.0	332.4	313.5	297.1	275.4	256.0	241.2
42.5°	547.0	523.2	454.6	386.6	341.8	314.3	298.3	283.0	263.9	244.2	230.3
45°	489.3	492.4	430.4	361.2	315.2	287.6	272.6	261.9	244.9	228.7	214.4
47.5°	416.9	446.2	402.0	334.1	287.2	261.3	248.2	238.8	227.4	211.4	198.4
50°	369.7	411.5	379.3	316.0	269.7	243.8	230.9	223.3	213.3	200.8	188.5
52.5°	326.1	371.1	351.8	295.7	250.6	227.0	214.4	208.1	200.2	188.4	177.2
55°	265.9	311.6	307.1	265.2	222.0	200.8	191.2	184.2	178.9	170.0	161.1
57.5°	215.2	258.3	260.6	231.2	196.9	175.9	167.6	162.3	158.8	152.2	143.9
60°	183.1	222.8	230.5	208.3	178.9	160.4	152.3	148.0	145.3	139.9	133.6
62.5°	156.5	190.3	199.1	183.2	161.6	144.3	137.9	133.9	132.0	127.4	121.8
65°	119.8	147.8	156.3	147.5	136.2	122.4	117.2	113.7	112.0	109.5	105.4
67.5°	90.1	110.5	119.9	113.6	109.5	100.8	97.5	95.6	94.1	92.4	89.0
70°	72.3	87.5	97.0	95.5	92.1	87.5	85.1	83.8	82.3	80.8	77.9
72.5°	58.1	68.6	77.6	78.4	75.7	74.8	72.6	72.1	71.2	69.5	67.8
75°	38.6	45.8	52.0	54.4	55.5	56.5	55.5	55.4	55.2	53.7	52.8
77.5°	25.3	29.2	33.1	37.2	39.0	40.2	40.5	41.2	40.6	39.9	39.5
80°	19.4	20.3	23.1	26.5	29.3	30.4	31.2	31.5	31.4	31.2	30.4
82.5°	14.1	14.8	16.2	18.6	20.9	22.7	23.2	23.1	23.5	23.7	23.1
85°	7.6	7.8	8.2	8.5	9.7	11.8	12.4	12.8	13.1	13.1	12.0
87.5°	4.0	3.6	3.7	3.5	3.8	3.6	4.4	4.9	5.2	4.8	5.1
90°	8.6	7.2	5.9	5.0	4.0	2.7	1.8	0.9	1.8	2.7	4.0
92.5°	57.4	37.9	26.1	19.4	15.6	12.1	8.3	5.6	8.3	12.1	15.6
95°	164.5	97.1	58.7	41.1	29.4	21.7	16.7	15.4	16.7	21.7	29.4
97.5°	180.5	104.6	67.9	48.8	37.2	30.6	26.7	26.2	26.7	30.6	37.2
100°	170.3	103.5	71.9	54.2	43.4	37.1	33.9	33.4	33.9	37.1	43.4
102.5°	161.7	104.9	76.5	60.4	50.6	44.7	41.8	41.0	41.8	44.7	50.6
105°	155.4	108.9	84.5	70.5	61.9	56.5	53.8	52.4	53.8	56.5	61.9
107.5°	155.0	116.3	94.9	81.9	73.8	68.5	65.9	64.5	65.9	68.5	73.8
110°	156.8	122.5	102.1	89.4	81.8	76.8	74.5	73.2	74.5	76.8	81.8





TEST NUMBER: P332248-927

CATALOG NUMBER: S123RDIP-S340D585U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	160.4	128.6	109.7	97.4	89.8	84.8	82.5	81.1	82.5	84.8	89.8
115°	166.3	138.7	121.5	109.3	101.6	97.1	94.4	92.6	94.4	97.1	101.6
117.5°	174.0	149.5	132.5	121.2	112.6	108.4	106.2	104.1	106.2	108.4	112.6
120°	179.8	156.3	140.1	128.8	120.2	115.7	113.4	112.1	113.4	115.7	120.2
122.5°	185.3	163.6	147.7	135.6	127.4	122.6	120.3	118.9	120.3	122.6	127.4
125°	193.8	174.0	158.1	145.9	137.4	132.4	129.7	128.8	129.7	132.4	137.4
127.5°	200.9	183.0	167.7	155.5	146.0	141.0	137.6	136.3	137.6	141.0	146.0
130°	205.6	188.4	173.5	161.3	151.8	146.4	142.4	141.0	142.4	146.4	151.8
132.5°	209.9	193.1	178.6	166.8	157.2	150.8	146.3	144.6	146.3	150.8	157.2
135°	215.6	200.2	186.2	174.0	164.5	157.7	152.7	150.9	152.7	157.7	164.5
137.5°	219.7	205.0	191.5	180.3	170.9	163.7	158.8	156.9	158.8	163.7	170.9
140°	221.9	208.3	195.2	183.9	174.8	167.6	163.1	160.9	163.1	167.6	174.8
142.5°	224.0	210.8	198.1	187.5	178.5	172.0	167.1	165.2	167.1	172.0	178.5
145°	226.4	214.2	202.4	192.0	184.3	177.6	173.5	172.1	173.5	177.6	184.3
147.5°	227.8	216.9	206.1	197.3	189.9	184.0	180.0	179.2	180.0	184.0	189.9
150°	228.1	218.7	208.3	200.2	193.8	188.0	184.3	183.9	184.3	188.0	193.8
152.5°	228.9	219.8	210.8	203.0	197.5	192.3	188.7	188.6	188.7	192.3	197.5
155°	229.1	221.9	214.2	207.9	202.9	198.4	195.7	195.7	195.7	198.4	202.9
157.5°	229.6	223.0	216.9	212.0	207.8	203.7	201.6	201.2	201.6	203.7	207.8
160°	229.6	224.1	218.7	214.2	211.0	207.4	205.6	205.6	205.6	207.4	211.0
162.5°	229.2	224.5	219.8	215.9	213.2	210.3	208.8	208.8	208.8	210.3	213.2
165°	228.1	225.0	221.4	218.2	216.4	214.2	213.3	213.7	213.3	214.2	216.4
167.5°	227.4	224.9	222.3	220.3	219.0	217.3	216.9	217.5	216.9	217.3	219.0
170°	226.4	224.6	222.3	221.4	220.5	219.1	218.7	219.6	218.7	219.1	220.5
172.5°	226.0	224.6	222.7	222.1	221.6	220.6	220.5	221.0	220.5	220.6	221.6
175°	225.0	224.1	223.2	222.8	222.8	221.9	222.3	222.8	222.3	221.9	222.8
177.5°	224.3	223.6	223.2	223.2	223.2	222.8	223.2	223.6	223.2	222.8	223.2
180°	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2



TEST NUMBER: P332248-927

CATALOG NUMBER: S123RDIP-S340D585U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1
2.5°	423.7	421.8	420.5	417.6	415.7	413.6	411.5	412.8	412.6	412.6	412.6
5°	409.6	405.3	401.4	396.4	393.3	389.4	386.5	386.1	386.8	384.3	382.8
7.5°	395.5	389.7	384.1	378.7	372.8	368.1	365.3	363.8	362.0	360.4	358.8
10°	385.6	378.7	373.4	366.5	360.3	354.7	351.3	348.8	347.5	346.3	343.8
12.5°	375.3	368.7	361.9	354.1	348.2	341.7	339.1	336.4	334.0	332.5	329.2
15°	360.4	351.8	344.6	336.4	329.8	323.5	319.9	314.5	313.8	311.9	308.6
17.5°	345.5	336.1	326.1	320.1	312.7	306.1	300.5	298.7	293.4	291.4	288.5
20°	333.7	325.0	317.4	309.5	298.7	292.6	288.1	285.7	281.5	278.8	277.0
22.5°	323.5	314.7	305.9	296.7	287.7	280.8	277.6	273.9	271.6	267.9	265.9
25°	309.0	299.4	288.8	278.8	272.4	267.3	262.1	258.7	255.4	253.7	250.1
27.5°	292.1	282.0	272.2	264.6	256.7	251.6	246.9	244.0	240.0	237.2	235.1
30°	282.7	270.9	262.4	255.6	245.5	240.7	237.2	233.5	230.5	227.6	225.5
32.5°	272.0	261.2	253.2	244.7	236.9	231.6	227.1	223.9	221.3	218.6	216.5
35°	255.1	246.1	237.7	229.3	223.5	218.2	212.8	210.0	207.6	205.0	203.2
37.5°	239.8	231.3	223.4	215.4	208.3	203.9	199.6	197.5	194.2	192.5	190.7
40°	230.4	222.0	213.6	205.8	198.4	195.1	191.2	188.1	185.1	183.8	181.8
42.5°	220.0	211.7	204.5	196.2	190.1	185.6	182.0	178.6	176.4	174.5	173.4
45°	204.7	197.3	190.3	182.0	176.3	172.4	168.3	165.2	163.2	161.8	159.9
47.5°	189.8	182.4	175.3	168.1	162.6	158.1	154.0	151.9	149.2	147.6	146.2
50°	179.0	172.4	164.9	158.2	152.7	148.2	144.9	142.1	139.7	137.7	136.7
52.5°	169.1	162.1	155.5	149.3	143.5	138.5	135.5	132.5	130.7	128.4	127.3
55°	152.8	146.0	140.5	134.4	128.7	124.4	120.7	118.1	116.3	113.7	112.3
57.5°	137.5	131.3	124.8	119.5	113.6	110.0	106.9	103.5	101.2	99.2	97.7
60°	127.1	120.2	114.4	109.5	104.3	99.7	96.9	94.1	91.7	89.7	88.4
62.5°	116.4	110.3	104.8	99.4	94.7	90.6	87.5	85.2	83.0	81.8	80.4
65°	99.8	95.1	89.5	85.1	80.6	77.7	75.1	73.1	71.6	70.7	69.6
67.5°	84.6	80.0	75.2	70.8	67.8	65.6	63.9	62.2	61.4	60.2	59.5
70°	74.8	69.9	65.7	62.3	59.4	57.8	56.6	55.4	54.7	53.2	52.4
72.5°	64.0	60.5	57.4	54.7	52.4	50.9	49.4	47.8	46.7	45.0	44.3
75°	50.4	47.2	44.8	43.0	41.5	39.5	37.5	35.8	35.3	34.7	34.5
77.5°	37.3	35.3	33.6	32.0	30.2	28.8	28.3	27.9	27.8	27.5	27.5
80°	29.3	27.5	26.2	24.4	23.3	23.3	23.3	22.9	23.1	23.1	23.1
82.5°	21.8	20.1	19.4	18.8	18.5	18.7	18.7	18.8	18.6	18.9	18.8
85°	11.2	11.4	11.8	11.6	11.8	11.8	12.2	12.0	12.2	11.8	12.2
87.5°	5.1	5.8	6.2	6.6	7.0	7.1	7.2	7.3	7.5	7.6	7.8
90°	5.0	5.9	7.2	8.6	9.9	11.3	10.9	11.3	11.7	12.2	13.1
92.5°	19.4	26.1	37.9	57.4	76.4	69.5	52.4	38.0	30.2	26.7	24.3
95°	41.1	58.7	97.1	164.5	238.6	267.9	217.3	162.6	110.3	86.3	70.0
97.5°	48.8	67.9	104.6	180.5	304.0	415.3	444.3	405.5	324.8	266.5	212.5
100°	54.2	71.9	103.5	170.3	289.1	427.9	516.9	532.7	496.1	443.2	379.1
102.5°	60.4	76.5	104.9	161.7	267.5	404.4	520.5	575.0	573.9	543.0	502.3
105°	70.5	84.5	108.9	155.4	240.8	363.3	493.0	587.4	632.6	641.2	629.4
107.5°	81.9	94.9	116.3	155.0	223.9	326.9	444.7	551.8	625.2	664.7	680.8
110°	89.4	102.1	122.5	156.8	217.3	306.3	414.3	517.8	600.9	657.9	689.5



TEST NUMBER: P332248-927

CATALOG NUMBER: S123RDIP-S340D585U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	97.4	109.7	128.6	160.4	213.7	292.6	387.9	484.2	569.1	633.0	673.6
115°	109.3	121.5	138.7	166.3	212.4	277.9	356.1	439.7	518.2	584.7	633.9
117.5°	121.2	132.5	149.5	174.0	213.2	269.2	336.8	407.3	475.2	534.9	584.9
120°	128.8	140.1	156.3	179.8	214.6	265.2	326.7	390.4	451.4	505.6	551.3
122.5°	135.6	147.7	163.6	185.3	217.1	262.7	318.4	377.0	432.2	482.4	524.8
125°	145.9	158.1	174.0	193.8	220.9	259.4	307.7	359.2	408.4	451.9	488.0
127.5°	155.5	167.7	183.0	200.9	225.3	257.7	298.3	343.6	387.6	426.7	459.6
130°	161.3	173.5	188.4	205.6	228.1	256.7	293.3	333.9	374.5	411.1	441.9
132.5°	166.8	178.6	193.1	209.9	230.4	256.3	288.5	324.9	362.3	396.3	425.6
135°	174.0	186.2	200.2	215.6	233.6	255.7	282.4	312.7	344.8	374.1	399.9
137.5°	180.3	191.5	205.0	219.7	235.8	254.8	277.1	301.6	327.9	353.2	375.5
140°	183.9	195.2	208.3	221.9	237.2	254.4	273.8	295.1	318.1	339.8	359.2
142.5°	187.5	198.1	210.8	224.0	238.3	253.7	270.9	288.9	308.7	327.5	344.4
145°	192.0	202.4	214.2	226.4	239.0	252.5	267.0	281.5	296.4	310.9	324.0
147.5°	197.3	206.1	216.9	227.8	239.0	250.9	263.2	275.4	287.2	299.0	308.2
150°	200.2	208.3	218.7	228.1	239.0	249.4	260.7	271.1	281.5	291.0	299.6
152.5°	203.0	210.8	219.8	228.9	238.0	247.6	257.9	267.1	276.1	284.5	291.6
155°	207.9	214.2	221.9	229.1	236.8	244.5	253.5	261.2	268.4	275.2	280.6
157.5°	212.0	216.9	223.0	229.6	235.2	241.6	248.6	254.8	260.9	266.2	270.4
160°	214.2	218.7	224.1	229.6	234.5	239.5	245.3	251.2	256.2	260.7	263.9
162.5°	215.9	219.8	224.5	229.2	233.1	237.3	242.1	246.9	251.1	255.3	258.1
165°	218.2	221.4	225.0	228.1	230.9	234.1	237.7	241.3	244.0	247.2	249.4
167.5°	220.3	222.3	224.9	227.4	228.7	230.8	233.5	236.4	238.4	240.3	241.9
170°	221.4	222.3	224.6	226.4	227.3	228.6	230.9	233.1	234.5	236.3	237.2
172.5°	222.1	222.7	224.6	226.0	226.2	226.8	228.4	230.3	231.2	232.7	233.2
175°	222.8	223.2	224.1	225.0	224.6	224.6	225.5	226.4	226.8	227.8	227.8
177.5°	223.2	223.2	223.6	224.3	223.6	223.2	223.6	223.9	224.3	224.7	224.7
180°	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2



TEST NUMBER: P332248-927

CATALOG NUMBER: S123RDIP-S340D585U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1
2.5°	410.7	410.6	410.7	410.2	410.7	410.6	410.7	412.6	412.6	412.6	412.8
5°	382.2	382.1	381.5	379.9	381.5	382.1	382.2	382.8	384.3	386.8	386.1
7.5°	357.3	357.0	355.5	355.5	355.5	357.0	357.3	358.8	360.4	362.0	363.8
10°	342.5	342.7	340.5	339.2	340.5	342.7	342.5	343.8	346.3	347.5	348.8
12.5°	328.2	327.4	325.6	324.2	325.6	327.4	328.2	329.2	332.5	334.0	336.4
15°	309.3	307.4	303.1	303.4	303.1	307.4	309.3	308.6	311.9	313.8	314.5
17.5°	287.1	285.7	285.7	283.0	285.7	285.7	287.1	288.5	291.4	293.4	298.7
20°	274.1	273.1	273.5	270.9	273.5	273.1	274.1	277.0	278.8	281.5	285.7
22.5°	263.9	262.9	261.4	260.6	261.4	262.9	263.9	265.9	267.9	271.6	273.9
25°	249.0	247.5	246.1	246.9	246.1	247.5	249.0	250.1	253.7	255.4	258.7
27.5°	234.1	233.0	231.5	231.3	231.5	233.0	234.1	235.1	237.2	240.0	244.0
30°	224.6	223.5	222.8	221.8	222.8	223.5	224.6	225.5	227.6	230.5	233.5
32.5°	215.0	214.8	213.5	213.3	213.5	214.8	215.0	216.5	218.6	221.3	223.9
35°	202.5	201.4	201.0	201.1	201.0	201.4	202.5	203.2	205.0	207.6	210.0
37.5°	190.5	189.1	188.4	187.7	188.4	189.1	190.5	190.7	192.5	194.2	197.5
40°	182.0	180.5	180.1	179.7	180.1	180.5	182.0	181.8	183.8	185.1	188.1
42.5°	172.4	171.8	171.6	170.9	171.6	171.8	172.4	173.4	174.5	176.4	178.6
45°	159.3	159.1	158.0	158.4	158.0	159.1	159.3	159.9	161.8	163.2	165.2
47.5°	145.4	144.7	143.9	144.4	143.9	144.7	145.4	146.2	147.6	149.2	151.9
50°	136.0	135.6	134.0	134.4	134.0	135.6	136.0	136.7	137.7	139.7	142.1
52.5°	126.6	125.2	124.5	124.3	124.5	125.2	126.6	127.3	128.4	130.7	132.5
55°	110.9	109.2	108.5	108.1	108.5	109.2	110.9	112.3	113.7	116.3	118.1
57.5°	95.5	95.1	94.5	94.9	94.5	95.1	95.5	97.7	99.2	101.2	103.5
60°	86.6	86.6	86.6	86.3	86.6	86.6	86.6	88.4	89.7	91.7	94.1
62.5°	79.6	79.1	79.1	79.3	79.1	79.1	79.6	80.4	81.8	83.0	85.2
65°	69.0	68.8	68.1	67.9	68.1	68.8	69.0	69.6	70.7	71.6	73.1
67.5°	59.0	58.4	58.1	57.9	58.1	58.4	59.0	59.5	60.2	61.4	62.2
70°	51.5	51.1	50.0	50.2	50.0	51.1	51.5	52.4	53.2	54.7	55.4
72.5°	43.4	43.0	42.8	42.5	42.8	43.0	43.4	44.3	45.0	46.7	47.8
75°	34.3	34.1	34.0	34.7	34.0	34.1	34.3	34.5	34.7	35.3	35.8
77.5°	27.5	27.5	27.6	27.3	27.6	27.5	27.5	27.5	27.5	27.8	27.9
80°	23.1	23.1	22.9	22.9	22.9	23.1	23.1	23.1	23.1	23.1	22.9
82.5°	18.5	18.6	18.8	18.5	18.8	18.6	18.5	18.8	18.9	18.6	18.8
85°	12.2	12.0	12.4	12.2	12.4	12.0	12.2	12.2	11.8	12.2	12.0
87.5°	8.0	7.8	7.8	7.9	7.8	7.8	8.0	7.8	7.6	7.5	7.3
90°	12.7	13.1	13.5	13.1	13.5	13.1	12.7	13.1	12.2	11.7	11.3
92.5°	23.5	22.1	22.6	21.8	22.6	22.1	23.5	24.3	26.7	30.2	38.0
95°	61.5	57.4	54.2	52.4	54.2	57.4	61.5	70.0	86.3	110.3	162.6
97.5°	179.1	158.8	146.6	142.7	146.6	158.8	179.1	212.5	266.5	324.8	405.5
100°	333.4	300.5	282.9	283.3	282.9	300.5	333.4	379.1	443.2	496.1	532.7
102.5°	466.8	440.7	426.0	415.6	426.0	440.7	466.8	502.3	543.0	573.9	575.0
105°	608.6	591.4	577.0	574.7	577.0	591.4	608.6	629.4	641.2	632.6	587.4
107.5°	681.2	675.4	670.5	666.4	670.5	675.4	681.2	680.8	664.7	625.2	551.8
110°	702.2	705.8	704.9	703.9	704.9	705.8	702.2	689.5	657.9	600.9	517.8



TEST NUMBER: P332248-927

CATALOG NUMBER: S123RDIP-S340D585U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	696.7	708.0	711.4	711.5	711.4	708.0	696.7	673.6	633.0	569.1	484.2
115°	667.8	687.7	696.7	699.0	696.7	687.7	667.8	633.9	584.7	518.2	439.7
117.5°	620.2	642.9	656.0	659.0	656.0	642.9	620.2	584.9	534.9	475.2	407.3
120°	586.9	612.3	623.1	625.8	623.1	612.3	586.9	551.3	505.6	451.4	390.4
122.5°	556.6	579.3	591.3	594.7	591.3	579.3	556.6	524.8	482.4	432.2	377.0
125°	516.9	536.8	548.1	551.3	548.1	536.8	516.9	488.0	451.9	408.4	359.2
127.5°	485.4	502.3	512.5	515.5	512.5	502.3	485.4	459.6	426.7	387.6	343.6
130°	465.9	482.1	491.6	495.2	491.6	482.1	465.9	441.9	411.1	374.5	333.9
132.5°	448.1	464.4	472.8	475.3	472.8	464.4	448.1	425.6	396.3	362.3	324.9
135°	422.0	435.5	443.7	446.9	443.7	435.5	422.0	399.9	374.1	344.8	312.7
137.5°	394.1	407.8	414.7	416.8	414.7	407.8	394.1	375.5	353.2	327.9	301.6
140°	376.4	389.0	396.2	395.8	396.2	389.0	376.4	359.2	339.8	318.1	295.1
142.5°	359.0	370.3	376.8	376.3	376.8	370.3	359.0	344.4	327.5	308.7	288.9
145°	335.3	344.8	348.4	349.3	348.4	344.8	335.3	324.0	310.9	296.4	281.5
147.5°	316.8	323.2	326.7	327.0	326.7	323.2	316.8	308.2	299.0	287.2	275.4
150°	306.3	311.3	314.0	314.0	314.0	311.3	306.3	299.6	291.0	281.5	271.1
152.5°	296.9	301.6	303.2	303.2	303.2	301.6	296.9	291.6	284.5	276.1	267.1
155°	284.6	288.3	289.1	289.6	289.1	288.3	284.6	280.6	275.2	268.4	261.2
157.5°	273.9	276.6	277.3	277.3	277.3	276.6	273.9	270.4	266.2	260.9	254.8
160°	267.0	269.7	269.7	269.3	269.7	269.7	267.0	263.9	260.7	256.2	251.2
162.5°	260.2	262.5	262.5	262.1	262.5	262.5	260.2	258.1	255.3	251.1	246.9
165°	251.2	253.0	252.5	252.5	252.5	253.0	251.2	249.4	247.2	244.0	241.3
167.5°	242.7	244.0	243.5	243.5	243.5	244.0	242.7	241.9	240.3	238.4	236.4
170°	237.7	238.6	238.1	238.1	238.1	238.6	237.7	237.2	236.3	234.5	233.1
172.5°	233.3	234.2	233.5	233.1	233.5	234.2	233.3	233.2	232.7	231.2	230.3
175°	227.8	228.1	227.8	227.3	227.8	228.1	227.8	227.8	227.8	226.8	226.4
177.5°	224.3	224.7	223.9	223.9	223.9	224.7	224.3	224.7	224.7	224.3	223.9
180°	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2



TEST NUMBER: P332248-927

CATALOG NUMBER: S123RDIP-S340D585U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1
2.5°	411.5	413.6	415.7	417.6	420.5	421.8	423.7	424.5	426.7	429.9	432.6
5°	386.5	389.4	393.3	396.4	401.4	405.3	409.6	413.6	418.4	425.2	431.3
7.5°	365.3	368.1	372.8	378.7	384.1	389.7	395.5	401.0	407.8	417.6	427.3
10°	351.3	354.7	360.3	366.5	373.4	378.7	385.6	392.5	401.1	412.3	424.0
12.5°	339.1	341.7	348.2	354.1	361.9	368.7	375.3	383.6	393.2	405.2	419.2
15°	319.9	323.5	329.8	336.4	344.6	351.8	360.4	370.4	379.9	394.6	411.5
17.5°	300.5	306.1	312.7	320.1	326.1	336.1	345.5	355.7	367.3	382.9	401.6
20°	288.1	292.6	298.7	309.5	317.4	325.0	333.7	346.4	357.1	374.9	394.2
22.5°	277.6	280.8	287.7	296.7	305.9	314.7	323.5	335.6	348.9	365.7	386.7
25°	262.1	267.3	272.4	278.8	288.8	299.4	309.0	319.3	333.4	351.3	373.9
27.5°	246.9	251.6	256.7	264.6	272.2	282.0	292.1	303.9	318.9	337.9	360.9
30°	237.2	240.7	245.5	255.6	262.4	270.9	282.7	293.3	307.3	327.4	351.8
32.5°	227.1	231.6	236.9	244.7	253.2	261.2	272.0	283.4	297.7	317.5	342.5
35°	212.8	218.2	223.5	229.3	237.7	246.1	255.1	267.6	282.2	301.4	325.9
37.5°	199.6	203.9	208.3	215.4	223.4	231.3	239.8	252.2	265.9	286.6	309.1
40°	191.2	195.1	198.4	205.8	213.6	222.0	230.4	241.2	256.0	275.4	297.1
42.5°	182.0	185.6	190.1	196.2	204.5	211.7	220.0	230.3	244.2	263.9	283.0
45°	168.3	172.4	176.3	182.0	190.3	197.3	204.7	214.4	228.7	244.9	261.9
47.5°	154.0	158.1	162.6	168.1	175.3	182.4	189.8	198.4	211.4	227.4	238.8
50°	144.9	148.2	152.7	158.2	164.9	172.4	179.0	188.5	200.8	213.3	223.3
52.5°	135.5	138.5	143.5	149.3	155.5	162.1	169.1	177.2	188.4	200.2	208.1
55°	120.7	124.4	128.7	134.4	140.5	146.0	152.8	161.1	170.0	178.9	184.2
57.5°	106.9	110.0	113.6	119.5	124.8	131.3	137.5	143.9	152.2	158.8	162.3
60°	96.9	99.7	104.3	109.5	114.4	120.2	127.1	133.6	139.9	145.3	148.0
62.5°	87.5	90.6	94.7	99.4	104.8	110.3	116.4	121.8	127.4	132.0	133.9
65°	75.1	77.7	80.6	85.1	89.5	95.1	99.8	105.4	109.5	112.0	113.7
67.5°	63.9	65.6	67.8	70.8	75.2	80.0	84.6	89.0	92.4	94.1	95.6
70°	56.6	57.8	59.4	62.3	65.7	69.9	74.8	77.9	80.8	82.3	83.8
72.5°	49.4	50.9	52.4	54.7	57.4	60.5	64.0	67.8	69.5	71.2	72.1
75°	37.5	39.5	41.5	43.0	44.8	47.2	50.4	52.8	53.7	55.2	55.4
77.5°	28.3	28.8	30.2	32.0	33.6	35.3	37.3	39.5	39.9	40.6	41.2
80°	23.3	23.3	23.3	24.4	26.2	27.5	29.3	30.4	31.2	31.4	31.5
82.5°	18.7	18.7	18.5	18.8	19.4	20.1	21.8	23.1	23.7	23.5	23.1
85°	12.2	11.8	11.8	11.6	11.8	11.4	11.2	12.0	13.1	13.1	12.8
87.5°	7.2	7.1	7.0	6.6	6.2	5.8	5.1	5.1	4.8	5.2	4.9
90°	10.9	11.3	9.9	8.6	7.2	5.9	5.0	4.0	2.7	1.8	0.9
92.5°	52.4	69.5	76.4	57.4	37.9	26.1	19.4	15.6	12.1	8.3	5.6
95°	217.3	267.9	238.6	164.5	97.1	58.7	41.1	29.4	21.7	16.7	15.4
97.5°	444.3	415.3	304.0	180.5	104.6	67.9	48.8	37.2	30.6	26.7	26.2
100°	516.9	427.9	289.1	170.3	103.5	71.9	54.2	43.4	37.1	33.9	33.4
102.5°	520.5	404.4	267.5	161.7	104.9	76.5	60.4	50.6	44.7	41.8	41.0
105°	493.0	363.3	240.8	155.4	108.9	84.5	70.5	61.9	56.5	53.8	52.4
107.5°	444.7	326.9	223.9	155.0	116.3	94.9	81.9	73.8	68.5	65.9	64.5
110°	414.3	306.3	217.3	156.8	122.5	102.1	89.4	81.8	76.8	74.5	73.2



TEST NUMBER: P332248-927

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	387.9	292.6	213.7	160.4	128.6	109.7	97.4	89.8	84.8	82.5	81.1
115°	356.1	277.9	212.4	166.3	138.7	121.5	109.3	101.6	97.1	94.4	92.6
117.5°	336.8	269.2	213.2	174.0	149.5	132.5	121.2	112.6	108.4	106.2	104.1
120°	326.7	265.2	214.6	179.8	156.3	140.1	128.8	120.2	115.7	113.4	112.1
122.5°	318.4	262.7	217.1	185.3	163.6	147.7	135.6	127.4	122.6	120.3	118.9
125°	307.7	259.4	220.9	193.8	174.0	158.1	145.9	137.4	132.4	129.7	128.8
127.5°	298.3	257.7	225.3	200.9	183.0	167.7	155.5	146.0	141.0	137.6	136.3
130°	293.3	256.7	228.1	205.6	188.4	173.5	161.3	151.8	146.4	142.4	141.0
132.5°	288.5	256.3	230.4	209.9	193.1	178.6	166.8	157.2	150.8	146.3	144.6
135°	282.4	255.7	233.6	215.6	200.2	186.2	174.0	164.5	157.7	152.7	150.9
137.5°	277.1	254.8	235.8	219.7	205.0	191.5	180.3	170.9	163.7	158.8	156.9
140°	273.8	254.4	237.2	221.9	208.3	195.2	183.9	174.8	167.6	163.1	160.9
142.5°	270.9	253.7	238.3	224.0	210.8	198.1	187.5	178.5	172.0	167.1	165.2
145°	267.0	252.5	239.0	226.4	214.2	202.4	192.0	184.3	177.6	173.5	172.1
147.5°	263.2	250.9	239.0	227.8	216.9	206.1	197.3	189.9	184.0	180.0	179.2
150°	260.7	249.4	239.0	228.1	218.7	208.3	200.2	193.8	188.0	184.3	183.9
152.5°	257.9	247.6	238.0	228.9	219.8	210.8	203.0	197.5	192.3	188.7	188.6
155°	253.5	244.5	236.8	229.1	221.9	214.2	207.9	202.9	198.4	195.7	195.7
157.5°	248.6	241.6	235.2	229.6	223.0	216.9	212.0	207.8	203.7	201.6	201.2
160°	245.3	239.5	234.5	229.6	224.1	218.7	214.2	211.0	207.4	205.6	205.6
162.5°	242.1	237.3	233.1	229.2	224.5	219.8	215.9	213.2	210.3	208.8	208.8
165°	237.7	234.1	230.9	228.1	225.0	221.4	218.2	216.4	214.2	213.3	213.7
167.5°	233.5	230.8	228.7	227.4	224.9	222.3	220.3	219.0	217.3	216.9	217.5
170°	230.9	228.6	227.3	226.4	224.6	222.3	221.4	220.5	219.1	218.7	219.6
172.5°	228.4	226.8	226.2	226.0	224.6	222.7	222.1	221.6	220.6	220.5	221.0
175°	225.5	224.6	224.6	225.0	224.1	223.2	222.8	222.8	221.9	222.3	222.8
177.5°	223.6	223.2	223.6	224.3	223.6	223.2	223.2	223.2	222.8	223.2	223.6
180°	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2



TEST NUMBER: P332248-927

CATALOG NUMBER: S123RDIP-S340D585U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1
2.5°	433.5	435.1	437.2	440.3	442.7	444.7	445.1	445.8	447.3	449.7	451.6
5°	436.3	440.5	447.3	454.0	461.2	467.1	472.7	476.6	480.2	488.0	494.2
7.5°	435.4	444.9	455.6	467.5	479.6	491.2	502.1	511.8	521.5	532.8	545.7
10°	434.8	445.9	460.3	475.6	492.4	508.8	524.7	537.1	551.4	564.4	580.8
12.5°	432.1	448.0	465.2	484.7	505.4	524.3	545.3	562.3	578.8	597.5	616.6
15°	428.3	447.7	469.5	495.5	527.0	549.8	571.2	600.9	621.2	641.5	668.8
17.5°	421.7	445.4	472.5	506.4	532.5	563.3	595.5	619.0	646.3	674.9	699.7
20°	416.4	443.9	474.4	507.6	541.0	574.3	605.5	633.6	661.9	694.9	715.2
22.5°	411.1	438.2	469.9	505.2	541.1	576.3	611.6	644.5	676.3	709.6	735.5
25°	399.7	432.1	466.4	502.4	537.8	576.6	618.6	655.4	694.7	729.0	753.6
27.5°	388.3	418.0	452.1	488.6	528.0	573.8	623.3	665.0	704.4	729.0	736.7
30°	378.0	409.3	440.8	477.8	520.5	571.6	624.2	672.0	704.3	715.0	707.0
32.5°	367.5	395.9	427.0	465.0	510.2	566.1	625.3	667.9	687.3	679.1	646.8
35°	349.0	374.6	404.7	442.8	494.8	563.1	620.5	649.3	644.5	598.3	537.4
37.5°	329.2	350.1	378.0	417.7	478.8	551.1	599.5	603.8	562.2	491.4	421.0
40°	313.5	332.4	361.0	402.5	466.4	539.3	578.5	561.3	496.9	418.0	359.3
42.5°	298.3	314.3	341.8	386.6	454.6	523.2	547.0	509.6	435.3	360.8	307.4
45°	272.6	287.6	315.2	361.2	430.4	492.4	489.3	424.3	349.9	289.9	245.7
47.5°	248.2	261.3	287.2	334.1	402.0	446.2	416.9	347.8	284.7	236.5	204.9
50°	230.9	243.8	269.7	316.0	379.3	411.5	369.7	303.1	245.3	205.4	180.3
52.5°	214.4	227.0	250.6	295.7	351.8	371.1	326.1	264.4	216.2	181.8	160.3
55°	191.2	200.8	222.0	265.2	307.1	311.6	265.9	214.3	174.6	150.6	135.9
57.5°	167.6	175.9	196.9	231.2	260.6	258.3	215.2	170.4	143.7	125.9	115.2
60°	152.3	160.4	178.9	208.3	230.5	222.8	183.1	147.1	124.2	111.1	102.6
62.5°	137.9	144.3	161.6	183.2	199.1	190.3	156.5	126.7	108.5	97.5	90.8
65°	117.2	122.4	136.2	147.5	156.3	147.8	119.8	99.1	86.0	78.3	73.7
67.5°	97.5	100.8	109.5	113.6	119.9	110.5	90.1	76.2	68.8	62.3	59.0
70°	85.1	87.5	92.1	95.5	97.0	87.5	72.3	62.2	55.9	51.3	49.3
72.5°	72.6	74.8	75.7	78.4	77.6	68.6	58.1	50.1	45.6	42.5	39.8
75°	55.5	56.5	55.5	54.4	52.0	45.8	38.6	34.5	31.2	29.7	28.8
77.5°	40.5	40.2	39.0	37.2	33.1	29.2	25.3	23.9	22.5	21.7	21.4
80°	31.2	30.4	29.3	26.5	23.1	20.3	19.4	18.5	17.9	17.0	16.8
82.5°	23.2	22.7	20.9	18.6	16.2	14.8	14.1	13.7	13.2	12.7	12.7
85°	12.4	11.8	9.7	8.5	8.2	7.8	7.6	7.6	6.8	6.7	6.7
87.5°	4.4	3.6	3.8	3.5	3.7	3.6	4.0	4.0	4.2	4.2	4.0
90°	1.8	2.7	4.0	5.0	5.9	7.2	8.6	9.9	11.3	10.9	11.3
92.5°	8.3	12.1	15.6	19.4	26.1	37.9	57.4	76.4	69.5	52.4	38.0
95°	16.7	21.7	29.4	41.1	58.7	97.1	164.5	238.6	267.9	217.3	162.6
97.5°	26.7	30.6	37.2	48.8	67.9	104.6	180.5	304.0	415.3	444.3	405.5
100°	33.9	37.1	43.4	54.2	71.9	103.5	170.3	289.1	427.9	516.9	532.7
102.5°	41.8	44.7	50.6	60.4	76.5	104.9	161.7	267.5	404.4	520.5	575.0
105°	53.8	56.5	61.9	70.5	84.5	108.9	155.4	240.8	363.3	493.0	587.4
107.5°	65.9	68.5	73.8	81.9	94.9	116.3	155.0	223.9	326.9	444.7	551.8
110°	74.5	76.8	81.8	89.4	102.1	122.5	156.8	217.3	306.3	414.3	517.8





TEST NUMBER: P332248-927

CATALOG NUMBER: S123RDIP-S340D585U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	82.5	84.8	89.8	97.4	109.7	128.6	160.4	213.7	292.6	387.9	484.2
115°	94.4	97.1	101.6	109.3	121.5	138.7	166.3	212.4	277.9	356.1	439.7
117.5°	106.2	108.4	112.6	121.2	132.5	149.5	174.0	213.2	269.2	336.8	407.3
120°	113.4	115.7	120.2	128.8	140.1	156.3	179.8	214.6	265.2	326.7	390.4
122.5°	120.3	122.6	127.4	135.6	147.7	163.6	185.3	217.1	262.7	318.4	377.0
125°	129.7	132.4	137.4	145.9	158.1	174.0	193.8	220.9	259.4	307.7	359.2
127.5°	137.6	141.0	146.0	155.5	167.7	183.0	200.9	225.3	257.7	298.3	343.6
130°	142.4	146.4	151.8	161.3	173.5	188.4	205.6	228.1	256.7	293.3	333.9
132.5°	146.3	150.8	157.2	166.8	178.6	193.1	209.9	230.4	256.3	288.5	324.9
135°	152.7	157.7	164.5	174.0	186.2	200.2	215.6	233.6	255.7	282.4	312.7
137.5°	158.8	163.7	170.9	180.3	191.5	205.0	219.7	235.8	254.8	277.1	301.6
140°	163.1	167.6	174.8	183.9	195.2	208.3	221.9	237.2	254.4	273.8	295.1
142.5°	167.1	172.0	178.5	187.5	198.1	210.8	224.0	238.3	253.7	270.9	288.9
145°	173.5	177.6	184.3	192.0	202.4	214.2	226.4	239.0	252.5	267.0	281.5
147.5°	180.0	184.0	189.9	197.3	206.1	216.9	227.8	239.0	250.9	263.2	275.4
150°	184.3	188.0	193.8	200.2	208.3	218.7	228.1	239.0	249.4	260.7	271.1
152.5°	188.7	192.3	197.5	203.0	210.8	219.8	228.9	238.0	247.6	257.9	267.1
155°	195.7	198.4	202.9	207.9	214.2	221.9	229.1	236.8	244.5	253.5	261.2
157.5°	201.6	203.7	207.8	212.0	216.9	223.0	229.6	235.2	241.6	248.6	254.8
160°	205.6	207.4	211.0	214.2	218.7	224.1	229.6	234.5	239.5	245.3	251.2
162.5°	208.8	210.3	213.2	215.9	219.8	224.5	229.2	233.1	237.3	242.1	246.9
165°	213.3	214.2	216.4	218.2	221.4	225.0	228.1	230.9	234.1	237.7	241.3
167.5°	216.9	217.3	219.0	220.3	222.3	224.9	227.4	228.7	230.8	233.5	236.4
170°	218.7	219.1	220.5	221.4	222.3	224.6	226.4	227.3	228.6	230.9	233.1
172.5°	220.5	220.6	221.6	222.1	222.7	224.6	226.0	226.2	226.8	228.4	230.3
175°	222.3	221.9	222.8	222.8	223.2	224.1	225.0	224.6	224.6	225.5	226.4
177.5°	223.2	222.8	223.2	223.2	223.2	223.6	224.3	223.6	223.2	223.6	223.9
180°	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	431.1	431.1	431.1	431.1	431.1	431.1	431.1
2.5°	454.8	454.8	455.3	457.6	457.9	459.8	459.2
5°	499.8	503.3	504.6	510.2	513.4	514.9	512.0
7.5°	554.8	564.7	569.4	575.3	580.4	581.9	577.9
10°	595.0	605.4	614.0	619.4	624.4	627.7	631.9
12.5°	633.8	646.6	654.8	662.3	667.5	671.7	672.4
15°	676.0	695.2	709.8	720.6	725.9	728.6	727.5
17.5°	718.6	736.4	746.8	757.7	765.1	765.5	765.7
20°	742.7	760.0	772.1	780.1	788.5	788.1	790.0
22.5°	758.8	772.5	781.6	787.5	790.4	788.9	789.3
25°	766.3	770.4	768.7	759.3	756.9	748.2	749.7
27.5°	727.5	708.3	688.4	662.9	642.7	626.6	627.4
30°	674.8	640.8	602.1	569.6	540.4	532.3	514.9
32.5°	601.1	550.2	504.8	474.4	449.5	442.7	427.5
35°	476.2	426.7	380.0	352.0	340.9	325.3	325.2
37.5°	370.1	326.5	301.9	280.8	269.8	260.4	259.5
40°	311.3	277.4	258.7	243.6	232.7	225.7	224.0
42.5°	270.3	242.9	225.4	216.0	207.6	204.0	201.3
45°	220.7	202.2	190.1	181.6	177.8	175.0	173.5
47.5°	184.7	172.3	164.0	158.3	155.2	152.3	153.0
50°	165.0	154.9	148.8	143.4	141.0	138.9	139.2
52.5°	149.2	140.1	135.1	131.3	128.3	126.8	126.2
55°	126.6	120.9	115.9	113.1	111.5	109.5	108.9
57.5°	108.0	103.5	99.5	96.4	95.9	94.0	94.3
60°	95.6	91.9	88.6	86.9	85.6	84.0	84.5
62.5°	85.4	82.3	79.3	78.0	76.6	75.4	75.7
65°	69.9	67.0	65.1	64.4	63.8	63.3	62.7
67.5°	55.8	53.9	52.8	51.2	50.1	49.9	49.4
70°	46.9	44.4	42.5	40.4	39.8	39.7	39.8
72.5°	37.5	36.0	35.5	34.5	34.4	33.9	34.2
75°	28.2	27.6	27.3	26.5	26.5	26.5	26.5
77.5°	20.8	20.5	20.3	20.1	20.0	19.6	19.6
80°	16.2	16.1	15.7	15.7	15.5	15.7	15.5
82.5°	12.3	12.2	11.9	11.9	11.6	11.6	11.6
85°	6.3	6.1	6.5	6.1	6.3	5.9	6.3
87.5°	4.1	4.2	4.3	4.1	4.1	4.5	4.1
90°	11.7	12.2	13.1	12.7	13.1	13.5	13.1
92.5°	30.2	26.7	24.3	23.5	22.1	22.6	21.8
95°	110.3	86.3	70.0	61.5	57.4	54.2	52.4
97.5°	324.8	266.5	212.5	179.1	158.8	146.6	142.7
100°	496.1	443.2	379.1	333.4	300.5	282.9	283.3
102.5°	573.9	543.0	502.3	466.8	440.7	426.0	415.6
105°	632.6	641.2	629.4	608.6	591.4	577.0	574.7
107.5°	625.2	664.7	680.8	681.2	675.4	670.5	666.4
110°	600.9	657.9	689.5	702.2	705.8	704.9	703.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	569.1	633.0	673.6	696.7	708.0	711.4	711.5
115°	518.2	584.7	633.9	667.8	687.7	696.7	699.0
117.5°	475.2	534.9	584.9	620.2	642.9	656.0	659.0
120°	451.4	505.6	551.3	586.9	612.3	623.1	625.8
122.5°	432.2	482.4	524.8	556.6	579.3	591.3	594.7
125°	408.4	451.9	488.0	516.9	536.8	548.1	551.3
127.5°	387.6	426.7	459.6	485.4	502.3	512.5	515.5
130°	374.5	411.1	441.9	465.9	482.1	491.6	495.2
132.5°	362.3	396.3	425.6	448.1	464.4	472.8	475.3
135°	344.8	374.1	399.9	422.0	435.5	443.7	446.9
137.5°	327.9	353.2	375.5	394.1	407.8	414.7	416.8
140°	318.1	339.8	359.2	376.4	389.0	396.2	395.8
142.5°	308.7	327.5	344.4	359.0	370.3	376.8	376.3
145°	296.4	310.9	324.0	335.3	344.8	348.4	349.3
147.5°	287.2	299.0	308.2	316.8	323.2	326.7	327.0
150°	281.5	291.0	299.6	306.3	311.3	314.0	314.0
152.5°	276.1	284.5	291.6	296.9	301.6	303.2	303.2
155°	268.4	275.2	280.6	284.6	288.3	289.1	289.6
157.5°	260.9	266.2	270.4	273.9	276.6	277.3	277.3
160°	256.2	260.7	263.9	267.0	269.7	269.7	269.3
162.5°	251.1	255.3	258.1	260.2	262.5	262.5	262.1
165°	244.0	247.2	249.4	251.2	253.0	252.5	252.5
167.5°	238.4	240.3	241.9	242.7	244.0	243.5	243.5
170°	234.5	236.3	237.2	237.7	238.6	238.1	238.1
172.5°	231.2	232.7	233.2	233.3	234.2	233.5	233.1
175°	226.8	227.8	227.8	227.8	228.1	227.8	227.3
177.5°	224.3	224.7	224.7	224.3	224.7	223.9	223.9
180°	223.2	223.2	223.2	223.2	223.2	223.2	223.2

(END OF REPORT)