

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: P332259-830

Luminaire Tested: **S123RDIP-S340D1025U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332259-830  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123RDIP-S340D1025U830-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1025 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4599.2 lumens  
Efficiency: N/A  
Efficacy: 123.3 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

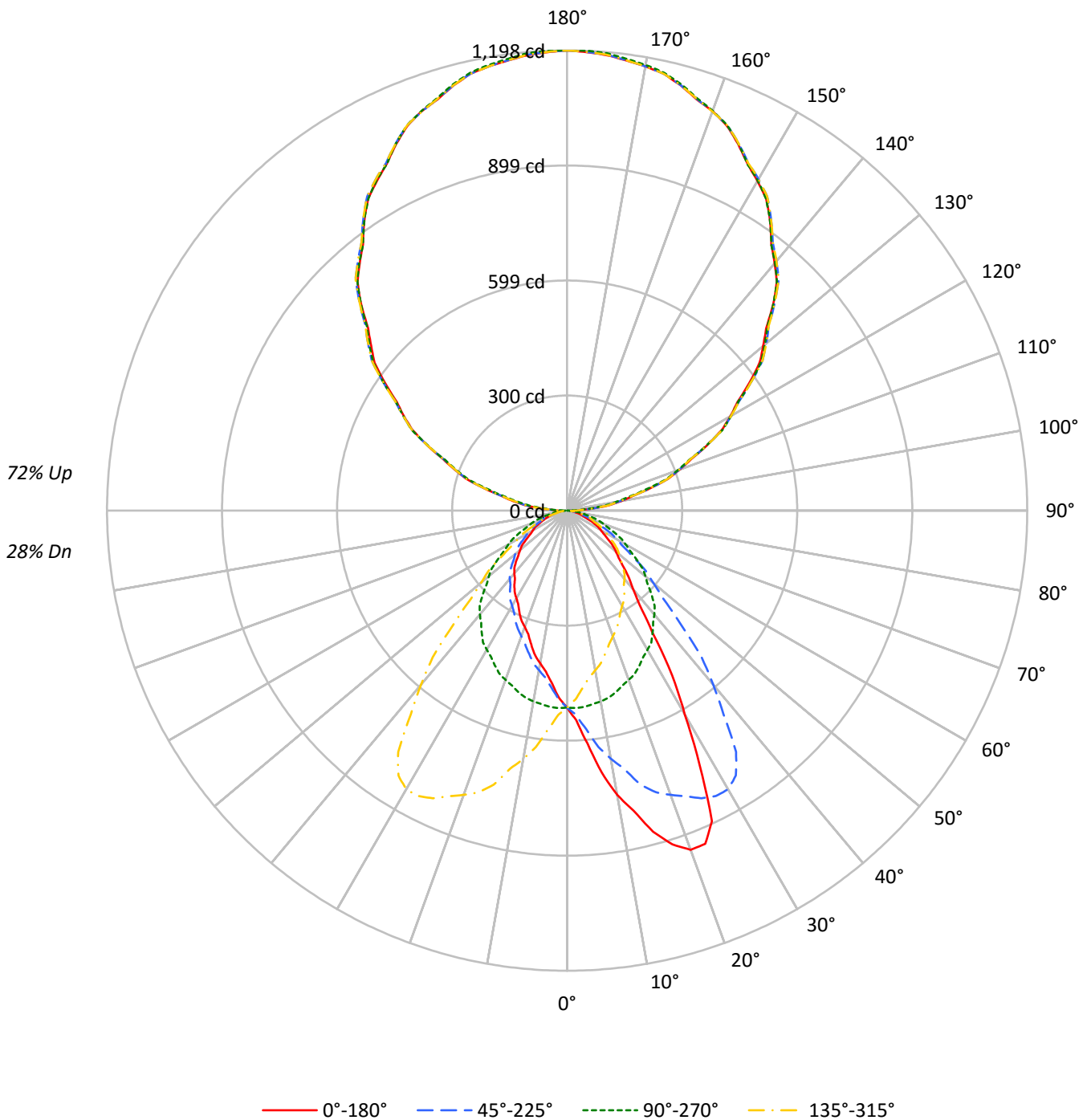
Input Watts (W): 37.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28				
1	93	89	85	82	83	80	77	74	63	61	59	47	45	44	32	31	31	24				
2	85	78	72	68	76	70	65	61	55	52	49	41	39	37	29	27	26	21				
3	78	69	62	57	69	62	56	51	49	45	42	37	34	32	26	24	23	18				
4	71	61	54	48	63	55	49	44	44	39	36	33	30	28	23	21	20	16				
5	65	54	47	41	58	49	42	38	39	34	31	30	26	24	21	19	17	14				
6	60	49	41	36	54	44	37	33	35	30	27	27	24	21	19	17	15	12				
7	56	44	36	31	50	40	33	29	32	27	24	24	21	19	17	15	14	11				
8	51	40	32	27	46	36	30	25	29	24	21	22	19	17	16	14	12	10				
9	48	36	29	24	43	33	27	22	27	22	19	20	17	15	15	13	11	9				
10	45	33	26	22	40	30	24	20	24	20	17	19	16	13	14	12	10	8				

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

	0°	90°	180°	270°
0°	5521	5521	5521	5521
5°	6582	5545	4883	5545
10°	8218	5513	4411	5513
15°	9646	5457	4023	5457
20°	10766	5372	3692	5372
25°	10594	5284	3489	5284
30°	7615	5203	3280	5203
35°	5084	5096	3144	5096
40°	3746	4967	3006	4967
45°	3142	4743	2868	4743
50°	2773	4449	2678	4449
55°	2432	4112	2415	4112
60°	2166	3791	2211	3791
65°	1900	3446	2058	3446
70°	1492	3138	1882	3138
75°	1314	2741	1718	2741
80°	1147	2325	1686	2325
85°	914	1877	1791	1877



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.4	1.1
10°-20°	157.6	3.4
20°-30°	247.6	5.4
30°-40°	258.3	5.6
40°-50°	221.1	4.8
50°-60°	168.5	3.7
60°-70°	108.0	2.3
70°-80°	52.0	1.1
80°-90°	17.3	0.4
90°-100°	78.0	1.7
100°-110°	233.5	5.1
110°-120°	397.2	8.6
120°-130°	522.5	11.4
130°-140°	587.2	12.8
140°-150°	577.2	12.6
150°-160°	486.0	10.6
160°-170°	323.5	7.0
170°-180°	113.3	2.5
0°-30°	455.6	9.9
0°-40°	714.0	15.5
0°-60°	1103.5	24.0
0°-90°	1280.7	27.8
90°-120°	708.8	15.4
90°-150°	2395.7	52.1
90°-180°	3318.0	72.1
0°-180°	4599.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	513	513	513	513	513	
5°	609	513	452	513	609	63
15°	866	490	361	490	866	245
25°	892	445	294	445	892	383
35°	387	388	239	388	387	254
45°	206	312	188	312	206	162
55°	130	219	129	219	130	117
65°	75	135	81	135	75	73
75°	32	66	41	66	32	34
85°	7	15	14	15	7	9
90°	28	1	28	1	28	14
95°	73	56	73	56	73	75
105°	224	212	224	212	224	238
115°	401	400	401	400	401	397
125°	579	585	579	585	579	517
135°	758	759	758	759	758	583
145°	921	921	921	921	921	575
155°	1053	1055	1053	1055	1053	485
165°	1145	1149	1145	1149	1145	323
175°	1190	1195	1190	1195	1190	113
180°	1198	1198	1198	1198	1198	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9
2.5°	546.4	547.1	544.8	544.4	541.8	541.1	541.1	537.3	535.1	532.2	530.4
5°	609.2	612.7	610.9	607.0	600.4	598.8	594.7	588.1	580.6	571.4	567.0
7.5°	687.6	692.4	690.5	684.5	677.5	671.9	660.2	649.2	634.0	620.5	609.0
10°	751.9	746.9	742.9	737.0	730.6	720.3	707.9	691.1	671.6	656.1	639.0
12.5°	800.0	799.2	794.2	788.1	779.1	769.3	754.1	733.6	710.9	688.6	669.0
15°	865.6	867.0	863.7	857.3	844.5	827.2	804.4	795.8	763.3	739.1	715.0
17.5°	911.1	910.8	910.3	901.5	888.5	876.2	855.0	832.5	803.0	769.0	736.5
20°	939.9	937.6	938.1	928.2	918.6	904.3	883.6	850.9	826.8	787.5	753.8
22.5°	939.1	938.7	940.4	937.0	930.0	919.1	902.8	875.2	844.3	804.6	766.9
25°	892.0	890.2	900.5	903.4	914.6	916.6	911.7	896.6	867.4	826.5	779.8
27.5°	746.5	745.6	764.7	788.7	819.1	842.7	865.5	876.6	867.4	838.1	791.3
30°	612.7	633.3	643.0	677.7	716.3	762.4	802.9	841.2	850.7	837.9	799.6
32.5°	508.7	526.7	534.8	564.5	600.6	654.6	715.2	769.6	808.0	817.7	794.7
35°	386.9	387.1	405.6	418.8	452.1	507.7	566.6	639.4	711.9	766.9	772.5
37.5°	308.8	309.8	321.0	334.1	359.2	388.5	440.4	501.0	584.7	668.9	718.4
40°	266.6	268.5	276.9	289.8	307.8	330.1	370.4	427.5	497.4	591.2	667.8
42.5°	239.5	242.7	247.0	257.0	268.2	289.0	321.6	365.7	429.2	517.9	606.3
45°	206.4	208.2	211.5	216.1	226.2	240.6	262.6	292.3	345.0	416.3	504.8
47.5°	182.1	181.2	184.6	188.3	195.1	205.0	219.7	243.8	281.4	338.7	413.8
50°	165.6	165.3	167.8	170.6	177.0	184.3	196.3	214.5	244.4	291.8	360.6
52.5°	150.1	150.9	152.7	156.2	160.8	166.6	177.5	190.7	216.3	257.2	314.5
55°	129.6	130.3	132.6	134.6	137.9	143.8	150.6	161.6	179.2	207.7	255.0
57.5°	112.2	111.9	114.1	114.7	118.4	123.2	128.5	137.0	149.8	171.0	202.7
60°	100.6	99.9	101.9	103.4	105.4	109.3	113.8	122.1	132.2	147.8	175.0
62.5°	90.0	89.7	91.1	92.7	94.3	97.9	101.6	108.0	116.0	129.1	150.8
65°	74.6	75.3	76.0	76.6	77.5	79.7	83.2	87.7	93.1	102.4	117.9
67.5°	58.7	59.4	59.6	60.9	62.8	64.2	66.4	70.2	74.1	81.8	90.7
70°	47.4	47.2	47.4	48.1	50.5	52.9	55.8	58.6	61.1	66.5	74.0
72.5°	40.7	40.3	40.9	41.1	42.2	42.9	44.7	47.4	50.5	54.2	59.6
75°	31.6	31.6	31.6	31.6	32.5	32.9	33.6	34.2	35.3	37.1	41.1
77.5°	23.4	23.4	23.8	23.9	24.1	24.4	24.8	25.4	25.8	26.8	28.5
80°	18.5	18.7	18.5	18.7	18.7	19.1	19.3	20.0	20.2	21.3	22.0
82.5°	13.9	13.8	13.9	14.1	14.1	14.5	14.6	15.1	15.1	15.6	16.3
85°	7.4	7.1	7.4	7.3	7.7	7.3	7.4	7.9	7.9	8.1	9.0
87.5°	7.4	7.6	7.3	7.4	7.3	7.3	7.2	7.0	7.2	6.8	6.4
90°	28.2	27.8	27.4	27.0	26.6	25.9	25.1	24.2	23.4	22.6	19.9
92.5°	38.0	38.3	38.5	38.7	39.0	38.8	38.2	37.5	36.8	36.1	34.6
95°	73.4	73.4	73.4	73.4	73.4	73.0	72.1	71.3	70.5	69.7	68.0
97.5°	112.9	113.0	113.1	113.2	113.2	112.8	111.9	110.8	109.9	109.0	107.7
100°	143.0	142.6	142.1	141.8	141.4	140.8	140.2	139.6	138.9	138.3	137.2
102.5°	173.9	174.0	174.0	174.1	174.2	173.9	173.3	172.7	172.0	171.4	170.0
105°	223.9	223.5	223.1	222.6	222.3	222.1	222.1	222.1	222.1	222.1	220.2
107.5°	276.1	276.3	276.5	276.8	277.0	276.8	276.2	275.5	274.8	274.2	273.4
110°	311.4	311.9	312.3	312.6	313.1	312.9	312.1	311.2	310.4	309.5	309.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	349.0	349.1	349.2	349.3	349.4	348.9	347.9	346.9	345.9	344.9	344.9
115°	400.8	401.1	401.2	401.4	401.6	401.6	401.4	401.2	401.1	400.8	401.2
117.5°	453.3	453.9	454.5	455.1	455.6	456.0	456.0	456.0	456.1	456.1	456.7
120°	490.2	490.6	491.1	491.4	491.8	492.2	492.4	492.6	492.8	493.0	494.1
122.5°	525.6	526.1	526.7	527.4	527.9	528.5	529.0	529.5	530.1	530.7	531.2
125°	578.6	579.5	580.3	581.2	581.9	582.8	583.6	584.5	585.3	586.2	586.5
127.5°	631.5	632.4	633.4	634.4	635.4	636.4	637.6	638.8	639.9	641.1	641.6
130°	666.1	667.6	669.0	670.5	671.9	673.2	673.9	674.8	675.6	676.5	677.1
132.5°	702.3	703.4	704.6	705.7	706.8	707.8	708.9	709.8	710.9	711.8	712.3
135°	758.4	758.7	759.1	759.6	760.0	760.6	761.5	762.3	763.2	763.9	764.2
137.5°	807.9	808.6	809.4	810.2	811.0	811.8	812.8	813.6	814.5	815.3	814.8
140°	840.2	841.7	843.1	844.6	846.0	846.9	847.1	847.3	847.5	847.7	847.5
142.5°	873.3	874.4	875.5	876.7	877.8	878.4	878.7	878.9	879.1	879.3	878.9
145°	921.1	921.9	922.7	923.6	924.4	924.9	925.2	925.4	925.6	925.8	925.2
147.5°	963.7	964.9	966.1	967.4	968.7	969.3	969.3	969.3	969.3	969.3	968.7
150°	990.7	991.9	993.3	994.5	995.7	996.4	996.4	996.4	996.4	996.4	996.0
152.5°	1017.1	1018.1	1019.3	1020.3	1021.4	1021.8	1021.4	1021.2	1020.8	1020.5	1020.2
155°	1052.8	1054.2	1055.7	1057.2	1058.7	1058.9	1058.2	1057.3	1056.5	1055.6	1055.5
157.5°	1085.3	1086.6	1087.7	1088.9	1090.1	1090.2	1089.3	1088.4	1087.6	1086.7	1086.6
160°	1106.5	1107.3	1108.1	1109.0	1109.7	1109.7	1108.6	1107.6	1106.5	1105.5	1105.5
162.5°	1122.3	1123.6	1124.9	1126.2	1127.6	1127.8	1126.7	1125.7	1124.6	1123.6	1123.4
165°	1145.0	1146.5	1147.9	1149.4	1150.8	1150.9	1149.7	1148.5	1147.2	1145.9	1145.9
167.5°	1164.4	1165.7	1167.0	1168.3	1169.6	1169.6	1168.3	1167.0	1165.7	1164.4	1164.2
170°	1174.2	1175.6	1177.1	1178.6	1180.1	1180.1	1178.6	1177.1	1175.6	1174.2	1174.2
172.5°	1181.7	1183.2	1184.7	1186.1	1187.6	1187.6	1186.4	1185.1	1183.7	1182.4	1182.4
175°	1190.1	1191.7	1193.1	1194.6	1196.0	1196.2	1194.9	1193.6	1192.4	1191.1	1191.1
177.5°	1194.7	1195.9	1197.0	1198.3	1199.4	1199.5	1198.4	1197.5	1196.5	1195.4	1195.4
180°	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9
2.5°	529.6	529.1	526.7	523.9	520.2	517.7	515.8	514.7	511.5	507.7	505.1
5°	562.4	555.8	548.7	540.2	532.3	524.1	519.2	513.2	506.0	497.9	492.1
7.5°	597.4	584.5	570.6	556.2	542.1	529.3	518.0	508.4	496.9	485.2	477.1
10°	624.3	605.4	585.9	565.9	547.7	530.6	517.4	504.4	490.6	477.2	467.0
12.5°	648.8	623.9	601.3	576.7	553.5	533.0	514.1	498.8	482.1	467.9	456.4
15°	679.7	654.1	627.0	589.6	558.6	532.7	509.6	489.7	469.5	451.9	440.7
17.5°	708.5	670.2	633.6	602.5	562.2	529.9	501.7	477.9	455.6	437.1	423.2
20°	720.5	683.3	643.7	603.9	564.4	528.1	495.4	469.0	446.0	424.9	412.2
22.5°	727.6	685.7	643.8	601.1	559.1	521.4	489.1	460.1	435.1	415.1	399.4
25°	736.0	686.0	639.9	597.8	554.9	514.1	475.6	444.9	417.9	396.6	379.9
27.5°	741.6	682.7	628.2	581.4	537.9	497.3	462.0	429.4	402.0	379.5	361.6
30°	742.6	680.0	619.3	568.5	524.4	487.0	449.7	418.6	389.6	365.6	348.9
32.5°	744.0	673.5	607.1	553.3	508.0	471.1	437.2	407.5	377.8	354.2	337.1
35°	738.3	670.0	588.7	526.8	481.5	445.7	415.3	387.8	358.6	335.7	318.4
37.5°	713.3	655.7	569.7	497.0	449.7	416.6	391.7	367.8	341.0	316.3	300.0
40°	688.2	641.7	554.9	478.9	429.5	395.5	373.1	353.5	327.6	304.5	287.0
42.5°	650.8	622.5	540.8	460.0	406.7	373.9	355.0	336.7	314.0	290.5	274.0
45°	582.1	585.9	512.1	429.7	375.0	342.1	324.3	311.6	291.4	272.1	255.1
47.5°	496.1	530.9	478.3	397.6	341.8	310.9	295.3	284.2	270.5	251.6	236.1
50°	439.9	489.7	451.3	376.0	320.8	290.1	274.8	265.7	253.8	238.9	224.2
52.5°	388.0	441.6	418.6	351.9	298.1	270.0	255.1	247.6	238.2	224.1	210.8
55°	316.4	370.7	365.4	315.6	264.2	238.9	227.5	219.1	212.8	202.3	191.7
57.5°	256.0	307.4	310.1	275.1	234.2	209.2	199.4	193.1	189.0	181.1	171.3
60°	217.8	265.0	274.3	247.9	212.8	190.9	181.2	176.1	172.9	166.5	159.0
62.5°	186.2	226.4	236.9	217.9	192.3	171.6	164.1	159.3	157.0	151.6	145.0
65°	142.5	175.9	186.0	175.5	162.0	145.6	139.4	135.3	133.3	130.3	125.4
67.5°	107.2	131.5	142.6	135.2	130.3	119.9	116.0	113.8	112.0	109.9	105.8
70°	86.1	104.1	115.5	113.6	109.6	104.1	101.2	99.7	97.9	96.1	92.7
72.5°	69.2	81.6	92.3	93.3	90.1	89.0	86.4	85.8	84.7	82.7	80.7
75°	45.9	54.5	61.9	64.8	66.1	67.2	66.1	65.9	65.7	63.9	62.8
77.5°	30.1	34.7	39.4	44.3	46.4	47.8	48.2	49.0	48.4	47.5	46.9
80°	23.1	24.1	27.4	31.6	34.9	36.2	37.1	37.5	37.3	37.1	36.2
82.5°	16.8	17.6	19.2	22.1	24.9	27.1	27.6	27.5	28.0	28.2	27.4
85°	9.0	9.2	9.7	10.1	11.6	14.0	14.7	15.2	15.6	15.6	14.2
87.5°	6.2	5.6	5.4	4.8	5.0	4.7	5.4	5.8	6.4	6.1	6.5
90°	17.2	14.4	11.7	9.3	7.3	5.1	3.0	0.9	3.0	5.1	7.3
92.5°	33.0	31.5	30.0	28.5	27.1	25.6	24.2	22.8	24.2	25.6	27.1
95°	66.3	64.6	63.0	61.4	59.9	58.4	56.9	55.5	56.9	58.4	59.9
97.5°	106.5	105.3	104.1	102.9	101.9	100.8	99.7	98.6	99.7	100.8	101.9
100°	136.2	135.2	134.1	133.0	131.7	130.4	129.2	128.0	129.2	130.4	131.7
102.5°	168.6	167.3	165.9	164.9	164.1	163.3	162.6	161.8	162.6	163.3	164.1
105°	218.3	216.4	214.5	213.4	212.9	212.5	212.1	211.7	212.1	212.5	212.9
107.5°	272.7	271.9	271.2	270.7	270.4	270.1	269.9	269.7	269.9	270.1	270.4
110°	308.7	308.3	307.8	307.5	307.0	306.6	306.2	305.8	306.2	306.6	307.0





TEST NUMBER: P332259-830

CATALOG NUMBER: S123RDIP-S340D1025U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	344.8	344.7	344.6	344.4	344.1	343.9	343.7	343.4	343.7	343.9	344.1
115°	401.6	402.1	402.5	402.4	401.7	401.1	400.5	399.8	400.5	401.1	401.7
117.5°	457.2	457.8	458.3	458.4	458.0	457.5	457.1	456.7	457.1	457.5	458.0
120°	495.1	496.2	497.2	497.1	495.9	494.6	493.3	492.1	493.3	494.6	495.9
122.5°	531.7	532.3	532.8	532.6	531.7	530.7	529.9	529.0	529.9	530.7	531.7
125°	587.0	587.4	587.9	587.7	587.1	586.4	585.9	585.2	585.9	586.4	587.1
127.5°	642.1	642.4	642.9	642.5	641.1	639.8	638.5	637.2	638.5	639.8	641.1
130°	677.7	678.3	679.0	678.4	676.7	675.1	673.4	671.8	673.4	675.1	676.7
132.5°	712.8	713.2	713.7	713.1	711.4	709.7	708.0	706.4	708.0	709.7	711.4
135°	764.4	764.6	764.8	764.3	763.0	761.8	760.5	759.3	760.5	761.8	763.0
137.5°	814.3	813.7	813.1	812.4	811.3	810.3	809.3	808.2	809.3	810.3	811.3
140°	847.3	847.1	846.9	846.2	845.2	844.1	843.1	842.1	843.1	844.1	845.2
142.5°	878.5	878.2	877.8	877.1	876.1	875.1	873.9	872.9	873.9	875.1	876.1
145°	924.5	923.9	923.3	922.7	922.4	921.9	921.5	921.1	921.5	921.9	922.4
147.5°	968.1	967.5	967.0	966.3	965.5	964.8	964.0	963.3	964.0	964.8	965.5
150°	995.5	995.1	994.7	994.3	993.8	993.4	993.1	992.6	993.1	993.4	993.8
152.5°	1019.9	1019.7	1019.5	1019.0	1018.4	1017.9	1017.3	1016.7	1017.3	1017.9	1018.4
155°	1055.2	1055.0	1054.8	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7
157.5°	1086.4	1086.2	1086.0	1086.1	1086.3	1086.6	1086.8	1087.0	1086.8	1086.6	1086.3
160°	1105.5	1105.5	1105.5	1105.7	1106.2	1106.5	1106.9	1107.4	1106.9	1106.5	1106.2
162.5°	1123.2	1123.0	1122.9	1123.1	1123.7	1124.3	1124.8	1125.5	1124.8	1124.3	1123.7
165°	1145.9	1145.9	1145.9	1146.3	1146.9	1147.5	1148.1	1148.8	1148.1	1147.5	1146.9
167.5°	1164.0	1163.9	1163.8	1164.0	1164.9	1165.7	1166.6	1167.4	1166.6	1165.7	1164.9
170°	1174.2	1174.2	1174.2	1174.6	1175.4	1176.3	1177.1	1178.0	1177.1	1176.3	1175.4
172.5°	1182.4	1182.4	1182.4	1182.9	1183.7	1184.6	1185.4	1186.2	1185.4	1184.6	1183.7
175°	1191.1	1191.1	1191.1	1191.6	1192.4	1193.2	1194.0	1194.9	1194.0	1193.2	1192.4
177.5°	1195.4	1195.4	1195.4	1195.8	1196.5	1197.1	1197.8	1198.4	1197.8	1197.1	1196.5
180°	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7



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CATALOG NUMBER: S123RDIP-S340D1025U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9
2.5°	504.2	501.9	500.3	496.8	494.6	492.1	489.7	491.2	491.0	490.9	490.9
5°	487.3	482.2	477.6	471.6	468.0	463.4	459.9	459.4	460.2	457.2	455.4
7.5°	470.5	463.6	457.0	450.5	443.6	438.0	434.6	432.9	430.7	428.9	426.9
10°	458.7	450.6	444.2	436.1	428.7	422.1	417.9	415.0	413.5	412.0	409.1
12.5°	446.6	438.7	430.6	421.3	414.2	406.6	403.5	400.3	397.4	395.6	391.7
15°	428.9	418.6	410.0	400.3	392.4	384.9	380.6	374.2	373.3	371.1	367.1
17.5°	411.0	399.9	388.0	380.9	372.0	364.2	357.5	355.4	349.1	346.8	343.3
20°	397.0	386.7	377.7	368.3	355.3	348.1	342.8	340.0	334.9	331.8	329.6
22.5°	384.9	374.4	364.0	353.0	342.3	334.1	330.3	325.8	323.1	318.8	316.4
25°	367.6	356.2	343.7	331.8	324.1	318.0	311.8	307.8	303.9	301.9	297.6
27.5°	347.5	335.5	323.9	314.8	305.4	299.4	293.8	290.3	285.5	282.2	279.7
30°	336.4	322.3	312.3	304.2	292.1	286.3	282.2	277.8	274.3	270.8	268.3
32.5°	323.6	310.8	301.2	291.2	281.9	275.6	270.2	266.4	263.3	260.0	257.6
35°	303.5	292.8	282.9	272.8	265.9	259.6	253.2	249.9	247.0	243.9	241.8
37.5°	285.3	275.2	265.8	256.3	247.8	242.6	237.5	235.0	231.1	229.0	226.9
40°	274.1	264.2	254.1	244.9	236.1	232.1	227.5	223.8	220.3	218.7	216.3
42.5°	261.7	251.8	243.4	233.5	226.2	220.8	216.6	212.5	209.9	207.6	206.3
45°	243.6	234.8	226.4	216.5	209.7	205.1	200.3	196.5	194.2	192.6	190.2
47.5°	225.8	217.1	208.6	200.0	193.4	188.1	183.2	180.7	177.5	175.6	174.0
50°	213.0	205.1	196.1	188.2	181.6	176.3	172.4	169.1	166.3	163.8	162.7
52.5°	201.2	192.8	185.0	177.7	170.7	164.8	161.2	157.7	155.5	152.8	151.5
55°	181.8	173.7	167.1	159.9	153.1	148.0	143.6	140.5	138.4	135.3	133.6
57.5°	163.6	156.3	148.5	142.1	135.2	130.9	127.2	123.1	120.4	118.0	116.2
60°	151.3	143.0	136.1	130.3	124.0	118.6	115.3	112.0	109.1	106.7	105.2
62.5°	138.5	131.2	124.7	118.3	112.6	107.8	104.1	101.3	98.8	97.3	95.7
65°	118.8	113.1	106.5	101.2	96.0	92.5	89.4	87.0	85.2	84.1	82.8
67.5°	100.7	95.2	89.4	84.3	80.7	78.0	76.1	74.0	73.0	71.6	70.8
70°	89.0	83.2	78.1	74.2	70.7	68.7	67.4	65.9	65.0	63.2	62.4
72.5°	76.2	72.0	68.3	65.1	62.3	60.5	58.8	56.9	55.5	53.5	52.7
75°	59.9	56.2	53.3	51.2	49.4	47.0	44.6	42.6	41.9	41.3	41.1
77.5°	44.4	42.0	40.0	38.1	35.9	34.2	33.6	33.2	33.1	32.7	32.7
80°	34.9	32.7	31.2	29.0	27.7	27.7	27.7	27.2	27.4	27.4	27.4
82.5°	25.9	23.9	23.1	22.3	22.1	22.2	22.2	22.3	22.1	22.5	22.3
85°	13.4	13.6	14.0	13.9	14.0	14.0	14.5	14.2	14.5	14.0	14.5
87.5°	6.8	7.8	8.5	9.2	10.0	10.3	10.7	10.8	11.1	11.3	11.5
90°	9.3	11.7	14.4	17.2	19.9	22.6	23.4	24.2	25.1	25.9	26.6
92.5°	28.5	30.0	31.5	33.0	34.6	36.1	36.8	37.5	38.2	38.8	39.0
95°	61.4	63.0	64.6	66.3	68.0	69.7	70.5	71.3	72.1	73.0	73.4
97.5°	102.9	104.1	105.3	106.5	107.7	109.0	109.9	110.8	111.9	112.8	113.2
100°	133.0	134.1	135.2	136.2	137.2	138.3	138.9	139.6	140.2	140.8	141.4
102.5°	164.9	165.9	167.3	168.6	170.0	171.4	172.0	172.7	173.3	173.9	174.2
105°	213.4	214.5	216.4	218.3	220.2	222.1	222.1	222.1	222.1	222.1	222.3
107.5°	270.7	271.2	271.9	272.7	273.4	274.2	274.8	275.5	276.2	276.8	277.0
110°	307.5	307.8	308.3	308.7	309.2	309.5	310.4	311.2	312.1	312.9	313.1



TEST NUMBER: P332259-830

CATALOG NUMBER: S123RDIP-S340D1025U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	344.4	344.6	344.7	344.8	344.9	344.9	345.9	346.9	347.9	348.9	349.4
115°	402.4	402.5	402.1	401.6	401.2	400.8	401.1	401.2	401.4	401.6	401.6
117.5°	458.4	458.3	457.8	457.2	456.7	456.1	456.1	456.0	456.0	456.0	455.6
120°	497.1	497.2	496.2	495.1	494.1	493.0	492.8	492.6	492.4	492.2	491.8
122.5°	532.6	532.8	532.3	531.7	531.2	530.7	530.1	529.5	529.0	528.5	527.9
125°	587.7	587.9	587.4	587.0	586.5	586.2	585.3	584.5	583.6	582.8	581.9
127.5°	642.5	642.9	642.4	642.1	641.6	641.1	639.9	638.8	637.6	636.4	635.4
130°	678.4	679.0	678.3	677.7	677.1	676.5	675.6	674.8	673.9	673.2	671.9
132.5°	713.1	713.7	713.2	712.8	712.3	711.8	710.9	709.8	708.9	707.8	706.8
135°	764.3	764.8	764.6	764.4	764.2	763.9	763.2	762.3	761.5	760.6	760.0
137.5°	812.4	813.1	813.7	814.3	814.8	815.3	814.5	813.6	812.8	811.8	811.0
140°	846.2	846.9	847.1	847.3	847.5	847.7	847.5	847.3	847.1	846.9	846.0
142.5°	877.1	877.8	878.2	878.5	878.9	879.3	879.1	878.9	878.7	878.4	877.8
145°	922.7	923.3	923.9	924.5	925.2	925.8	925.6	925.4	925.2	924.9	924.4
147.5°	966.3	967.0	967.5	968.1	968.7	969.3	969.3	969.3	969.3	969.3	968.7
150°	994.3	994.7	995.1	995.5	996.0	996.4	996.4	996.4	996.4	996.4	995.7
152.5°	1019.0	1019.5	1019.7	1019.9	1020.2	1020.5	1020.8	1021.2	1021.4	1021.8	1021.4
155°	1054.7	1054.8	1055.0	1055.2	1055.5	1055.6	1056.5	1057.3	1058.2	1058.9	1058.7
157.5°	1086.1	1086.0	1086.2	1086.4	1086.6	1086.7	1087.6	1088.4	1089.3	1090.2	1090.1
160°	1105.7	1105.5	1105.5	1105.5	1105.5	1105.5	1106.5	1107.6	1108.6	1109.7	1109.7
162.5°	1123.1	1122.9	1123.0	1123.2	1123.4	1123.6	1124.6	1125.7	1126.7	1127.8	1127.6
165°	1146.3	1145.9	1145.9	1145.9	1145.9	1145.9	1147.2	1148.5	1149.7	1150.9	1150.8
167.5°	1164.0	1163.8	1163.9	1164.0	1164.2	1164.4	1165.7	1167.0	1168.3	1169.6	1169.6
170°	1174.6	1174.2	1174.2	1174.2	1174.2	1174.2	1175.6	1177.1	1178.6	1180.1	1180.1
172.5°	1182.9	1182.4	1182.4	1182.4	1182.4	1182.4	1183.7	1185.1	1186.4	1187.6	1187.6
175°	1191.6	1191.1	1191.1	1191.1	1191.1	1191.1	1192.4	1193.6	1194.9	1196.2	1196.0
177.5°	1195.8	1195.4	1195.4	1195.4	1195.4	1195.4	1196.5	1197.5	1198.4	1199.5	1199.4
180°	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7



TEST NUMBER: P332259-830

CATALOG NUMBER: S123RDIP-S340D1025U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9
2.5°	488.7	488.5	488.7	488.0	488.7	488.5	488.7	490.9	490.9	491.0	491.2
5°	454.8	454.6	453.9	451.9	453.9	454.6	454.8	455.4	457.2	460.2	459.4
7.5°	425.1	424.8	422.9	422.9	422.9	424.8	425.1	426.9	428.9	430.7	432.9
10°	407.6	407.7	405.1	403.6	405.1	407.7	407.6	409.1	412.0	413.5	415.0
12.5°	390.5	389.6	387.4	385.7	387.4	389.6	390.5	391.7	395.6	397.4	400.3
15°	368.1	365.8	360.6	361.0	360.6	365.8	368.1	367.1	371.1	373.3	374.2
17.5°	341.6	340.0	339.9	336.8	339.9	340.0	341.6	343.3	346.8	349.1	355.4
20°	326.1	325.0	325.5	322.3	325.5	325.0	326.1	329.6	331.8	334.9	340.0
22.5°	314.0	312.8	311.0	310.1	311.0	312.8	314.0	316.4	318.8	323.1	325.8
25°	296.2	294.5	292.8	293.8	292.8	294.5	296.2	297.6	301.9	303.9	307.8
27.5°	278.5	277.2	275.4	275.2	275.4	277.2	278.5	279.7	282.2	285.5	290.3
30°	267.2	265.9	265.0	263.9	265.0	265.9	267.2	268.3	270.8	274.3	277.8
32.5°	255.8	255.5	254.0	253.7	254.0	255.5	255.8	257.6	260.0	263.3	266.4
35°	240.9	239.6	239.1	239.3	239.1	239.6	240.9	241.8	243.9	247.0	249.9
37.5°	226.7	225.0	224.1	223.4	224.1	225.0	226.7	226.9	229.0	231.1	235.0
40°	216.5	214.8	214.3	213.9	214.3	214.8	216.5	216.3	218.7	220.3	223.8
42.5°	205.1	204.4	204.2	203.3	204.2	204.4	205.1	206.3	207.6	209.9	212.5
45°	189.5	189.3	187.9	188.4	187.9	189.3	189.5	190.2	192.6	194.2	196.5
47.5°	173.1	172.1	171.2	171.8	171.2	172.1	173.1	174.0	175.6	177.5	180.7
50°	161.8	161.4	159.4	159.9	159.4	161.4	161.8	162.7	163.8	166.3	169.1
52.5°	150.6	148.9	148.2	147.9	148.2	148.9	150.6	151.5	152.8	155.5	157.7
55°	132.0	130.0	129.1	128.7	129.1	130.0	132.0	133.6	135.3	138.4	140.5
57.5°	113.7	113.2	112.4	112.9	112.4	113.2	113.7	116.2	118.0	120.4	123.1
60°	103.0	103.0	103.0	102.7	103.0	103.0	103.0	105.2	106.7	109.1	112.0
62.5°	94.7	94.2	94.1	94.3	94.1	94.2	94.7	95.7	97.3	98.8	101.3
65°	82.1	81.9	81.1	80.8	81.1	81.9	82.1	82.8	84.1	85.2	87.0
67.5°	70.2	69.5	69.2	68.9	69.2	69.5	70.2	70.8	71.6	73.0	74.0
70°	61.3	60.8	59.5	59.8	59.5	60.8	61.3	62.4	63.2	65.0	65.9
72.5°	51.7	51.2	50.9	50.6	50.9	51.2	51.7	52.7	53.5	55.5	56.9
75°	40.8	40.6	40.4	41.3	40.4	40.6	40.8	41.1	41.3	41.9	42.6
77.5°	32.7	32.7	32.9	32.5	32.9	32.7	32.7	32.7	32.7	33.1	33.2
80°	27.4	27.4	27.2	27.2	27.2	27.4	27.4	27.4	27.4	27.4	27.2
82.5°	22.0	22.1	22.3	22.0	22.3	22.1	22.0	22.3	22.5	22.1	22.3
85°	14.5	14.2	14.7	14.5	14.7	14.2	14.5	14.5	14.0	14.5	14.2
87.5°	11.9	11.6	11.7	12.0	11.7	11.6	11.9	11.5	11.3	11.1	10.8
90°	27.0	27.4	27.8	28.2	27.8	27.4	27.0	26.6	25.9	25.1	24.2
92.5°	38.7	38.5	38.3	38.0	38.3	38.5	38.7	39.0	38.8	38.2	37.5
95°	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.0	72.1	71.3
97.5°	113.2	113.1	113.0	112.9	113.0	113.1	113.2	113.2	112.8	111.9	110.8
100°	141.8	142.1	142.6	143.0	142.6	142.1	141.8	141.4	140.8	140.2	139.6
102.5°	174.1	174.0	174.0	173.9	174.0	174.0	174.1	174.2	173.9	173.3	172.7
105°	222.6	223.1	223.5	223.9	223.5	223.1	222.6	222.3	222.1	222.1	222.1
107.5°	276.8	276.5	276.3	276.1	276.3	276.5	276.8	277.0	276.8	276.2	275.5
110°	312.6	312.3	311.9	311.4	311.9	312.3	312.6	313.1	312.9	312.1	311.2



TEST NUMBER: P332259-830

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	349.3	349.2	349.1	349.0	349.1	349.2	349.3	349.4	348.9	347.9	346.9
115°	401.4	401.2	401.1	400.8	401.1	401.2	401.4	401.6	401.6	401.4	401.2
117.5°	455.1	454.5	453.9	453.3	453.9	454.5	455.1	455.6	456.0	456.0	456.0
120°	491.4	491.1	490.6	490.2	490.6	491.1	491.4	491.8	492.2	492.4	492.6
122.5°	527.4	526.7	526.1	525.6	526.1	526.7	527.4	527.9	528.5	529.0	529.5
125°	581.2	580.3	579.5	578.6	579.5	580.3	581.2	581.9	582.8	583.6	584.5
127.5°	634.4	633.4	632.4	631.5	632.4	633.4	634.4	635.4	636.4	637.6	638.8
130°	670.5	669.0	667.6	666.1	667.6	669.0	670.5	671.9	673.2	673.9	674.8
132.5°	705.7	704.6	703.4	702.3	703.4	704.6	705.7	706.8	707.8	708.9	709.8
135°	759.6	759.1	758.7	758.4	758.7	759.1	759.6	760.0	760.6	761.5	762.3
137.5°	810.2	809.4	808.6	807.9	808.6	809.4	810.2	811.0	811.8	812.8	813.6
140°	844.6	843.1	841.7	840.2	841.7	843.1	844.6	846.0	846.9	847.1	847.3
142.5°	876.7	875.5	874.4	873.3	874.4	875.5	876.7	877.8	878.4	878.7	878.9
145°	923.6	922.7	921.9	921.1	921.9	922.7	923.6	924.4	924.9	925.2	925.4
147.5°	967.4	966.1	964.9	963.7	964.9	966.1	967.4	968.7	969.3	969.3	969.3
150°	994.5	993.3	991.9	990.7	991.9	993.3	994.5	995.7	996.4	996.4	996.4
152.5°	1020.3	1019.3	1018.1	1017.1	1018.1	1019.3	1020.3	1021.4	1021.8	1021.4	1021.2
155°	1057.2	1055.7	1054.2	1052.8	1054.2	1055.7	1057.2	1058.7	1058.9	1058.2	1057.3
157.5°	1088.9	1087.7	1086.6	1085.3	1086.6	1087.7	1088.9	1090.1	1090.2	1089.3	1088.4
160°	1109.0	1108.1	1107.3	1106.5	1107.3	1108.1	1109.0	1109.7	1109.7	1108.6	1107.6
162.5°	1126.2	1124.9	1123.6	1122.3	1123.6	1124.9	1126.2	1127.6	1127.8	1126.7	1125.7
165°	1149.4	1147.9	1146.5	1145.0	1146.5	1147.9	1149.4	1150.8	1150.9	1149.7	1148.5
167.5°	1168.3	1167.0	1165.7	1164.4	1165.7	1167.0	1168.3	1169.6	1169.6	1168.3	1167.0
170°	1178.6	1177.1	1175.6	1174.2	1175.6	1177.1	1178.6	1180.1	1180.1	1178.6	1177.1
172.5°	1186.1	1184.7	1183.2	1181.7	1183.2	1184.7	1186.1	1187.6	1187.6	1186.4	1185.1
175°	1194.6	1193.1	1191.7	1190.1	1191.7	1193.1	1194.6	1196.0	1196.2	1194.9	1193.6
177.5°	1198.3	1197.0	1195.9	1194.7	1195.9	1197.0	1198.3	1199.4	1199.5	1198.4	1197.5
180°	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9
2.5°	489.7	492.1	494.6	496.8	500.3	501.9	504.2	505.1	507.7	511.5	514.7
5°	459.9	463.4	468.0	471.6	477.6	482.2	487.3	492.1	497.9	506.0	513.2
7.5°	434.6	438.0	443.6	450.5	457.0	463.6	470.5	477.1	485.2	496.9	508.4
10°	417.9	422.1	428.7	436.1	444.2	450.6	458.7	467.0	477.2	490.6	504.4
12.5°	403.5	406.6	414.2	421.3	430.6	438.7	446.6	456.4	467.9	482.1	498.8
15°	380.6	384.9	392.4	400.3	410.0	418.6	428.9	440.7	451.9	469.5	489.7
17.5°	357.5	364.2	372.0	380.9	388.0	399.9	411.0	423.2	437.1	455.6	477.9
20°	342.8	348.1	355.3	368.3	377.7	386.7	397.0	412.2	424.9	446.0	469.0
22.5°	330.3	334.1	342.3	353.0	364.0	374.4	384.9	399.4	415.1	435.1	460.1
25°	311.8	318.0	324.1	331.8	343.7	356.2	367.6	379.9	396.6	417.9	444.9
27.5°	293.8	299.4	305.4	314.8	323.9	335.5	347.5	361.6	379.5	402.0	429.4
30°	282.2	286.3	292.1	304.2	312.3	322.3	336.4	348.9	365.6	389.6	418.6
32.5°	270.2	275.6	281.9	291.2	301.2	310.8	323.6	337.1	354.2	377.8	407.5
35°	253.2	259.6	265.9	272.8	282.9	292.8	303.5	318.4	335.7	358.6	387.8
37.5°	237.5	242.6	247.8	256.3	265.8	275.2	285.3	300.0	316.3	341.0	367.8
40°	227.5	232.1	236.1	244.9	254.1	264.2	274.1	287.0	304.5	327.6	353.5
42.5°	216.6	220.8	226.2	233.5	243.4	251.8	261.7	274.0	290.5	314.0	336.7
45°	200.3	205.1	209.7	216.5	226.4	234.8	243.6	255.1	272.1	291.4	311.6
47.5°	183.2	188.1	193.4	200.0	208.6	217.1	225.8	236.1	251.6	270.5	284.2
50°	172.4	176.3	181.6	188.2	196.1	205.1	213.0	224.2	238.9	253.8	265.7
52.5°	161.2	164.8	170.7	177.7	185.0	192.8	201.2	210.8	224.1	238.2	247.6
55°	143.6	148.0	153.1	159.9	167.1	173.7	181.8	191.7	202.3	212.8	219.1
57.5°	127.2	130.9	135.2	142.1	148.5	156.3	163.6	171.3	181.1	189.0	193.1
60°	115.3	118.6	124.0	130.3	136.1	143.0	151.3	159.0	166.5	172.9	176.1
62.5°	104.1	107.8	112.6	118.3	124.7	131.2	138.5	145.0	151.6	157.0	159.3
65°	89.4	92.5	96.0	101.2	106.5	113.1	118.8	125.4	130.3	133.3	135.3
67.5°	76.1	78.0	80.7	84.3	89.4	95.2	100.7	105.8	109.9	112.0	113.8
70°	67.4	68.7	70.7	74.2	78.1	83.2	89.0	92.7	96.1	97.9	99.7
72.5°	58.8	60.5	62.3	65.1	68.3	72.0	76.2	80.7	82.7	84.7	85.8
75°	44.6	47.0	49.4	51.2	53.3	56.2	59.9	62.8	63.9	65.7	65.9
77.5°	33.6	34.2	35.9	38.1	40.0	42.0	44.4	46.9	47.5	48.4	49.0
80°	27.7	27.7	27.7	29.0	31.2	32.7	34.9	36.2	37.1	37.3	37.5
82.5°	22.2	22.2	22.1	22.3	23.1	23.9	25.9	27.4	28.2	28.0	27.5
85°	14.5	14.0	14.0	13.9	14.0	13.6	13.4	14.2	15.6	15.6	15.2
87.5°	10.7	10.3	10.0	9.2	8.5	7.8	6.8	6.5	6.1	6.4	5.8
90°	23.4	22.6	19.9	17.2	14.4	11.7	9.3	7.3	5.1	3.0	0.9
92.5°	36.8	36.1	34.6	33.0	31.5	30.0	28.5	27.1	25.6	24.2	22.8
95°	70.5	69.7	68.0	66.3	64.6	63.0	61.4	59.9	58.4	56.9	55.5
97.5°	109.9	109.0	107.7	106.5	105.3	104.1	102.9	101.9	100.8	99.7	98.6
100°	138.9	138.3	137.2	136.2	135.2	134.1	133.0	131.7	130.4	129.2	128.0
102.5°	172.0	171.4	170.0	168.6	167.3	165.9	164.9	164.1	163.3	162.6	161.8
105°	222.1	222.1	220.2	218.3	216.4	214.5	213.4	212.9	212.5	212.1	211.7
107.5°	274.8	274.2	273.4	272.7	271.9	271.2	270.7	270.4	270.1	269.9	269.7
110°	310.4	309.5	309.2	308.7	308.3	307.8	307.5	307.0	306.6	306.2	305.8



TEST NUMBER: P332259-830

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	345.9	344.9	344.9	344.8	344.7	344.6	344.4	344.1	343.9	343.7	343.4
115°	401.1	400.8	401.2	401.6	402.1	402.5	402.4	401.7	401.1	400.5	399.8
117.5°	456.1	456.1	456.7	457.2	457.8	458.3	458.4	458.0	457.5	457.1	456.7
120°	492.8	493.0	494.1	495.1	496.2	497.2	497.1	495.9	494.6	493.3	492.1
122.5°	530.1	530.7	531.2	531.7	532.3	532.8	532.6	531.7	530.7	529.9	529.0
125°	585.3	586.2	586.5	587.0	587.4	587.9	587.7	587.1	586.4	585.9	585.2
127.5°	639.9	641.1	641.6	642.1	642.4	642.9	642.5	641.1	639.8	638.5	637.2
130°	675.6	676.5	677.1	677.7	678.3	679.0	678.4	676.7	675.1	673.4	671.8
132.5°	710.9	711.8	712.3	712.8	713.2	713.7	713.1	711.4	709.7	708.0	706.4
135°	763.2	763.9	764.2	764.4	764.6	764.8	764.3	763.0	761.8	760.5	759.3
137.5°	814.5	815.3	814.8	814.3	813.7	813.1	812.4	811.3	810.3	809.3	808.2
140°	847.5	847.7	847.5	847.3	847.1	846.9	846.2	845.2	844.1	843.1	842.1
142.5°	879.1	879.3	878.9	878.5	878.2	877.8	877.1	876.1	875.1	873.9	872.9
145°	925.6	925.8	925.2	924.5	923.9	923.3	922.7	922.4	921.9	921.5	921.1
147.5°	969.3	969.3	968.7	968.1	967.5	967.0	966.3	965.5	964.8	964.0	963.3
150°	996.4	996.4	996.0	995.5	995.1	994.7	994.3	993.8	993.4	993.1	992.6
152.5°	1020.8	1020.5	1020.2	1019.9	1019.7	1019.5	1019.0	1018.4	1017.9	1017.3	1016.7
155°	1056.5	1055.6	1055.5	1055.2	1055.0	1054.8	1054.7	1054.7	1054.7	1054.7	1054.7
157.5°	1087.6	1086.7	1086.6	1086.4	1086.2	1086.0	1086.1	1086.3	1086.6	1086.8	1087.0
160°	1106.5	1105.5	1105.5	1105.5	1105.5	1105.5	1105.7	1106.2	1106.5	1106.9	1107.4
162.5°	1124.6	1123.6	1123.4	1123.2	1123.0	1122.9	1123.1	1123.7	1124.3	1124.8	1125.5
165°	1147.2	1145.9	1145.9	1145.9	1145.9	1145.9	1146.3	1146.9	1147.5	1148.1	1148.8
167.5°	1165.7	1164.4	1164.2	1164.0	1163.9	1163.8	1164.0	1164.9	1165.7	1166.6	1167.4
170°	1175.6	1174.2	1174.2	1174.2	1174.2	1174.2	1174.6	1175.4	1176.3	1177.1	1178.0
172.5°	1183.7	1182.4	1182.4	1182.4	1182.4	1182.4	1182.9	1183.7	1184.6	1185.4	1186.2
175°	1192.4	1191.1	1191.1	1191.1	1191.1	1191.1	1191.6	1192.4	1193.2	1194.0	1194.9
177.5°	1196.5	1195.4	1195.4	1195.4	1195.4	1195.4	1195.8	1196.5	1197.1	1197.8	1198.4
180°	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9
2.5°	515.8	517.7	520.2	523.9	526.7	529.1	529.6	530.4	532.2	535.1	537.3
5°	519.2	524.1	532.3	540.2	548.7	555.8	562.4	567.0	571.4	580.6	588.1
7.5°	518.0	529.3	542.1	556.2	570.6	584.5	597.4	609.0	620.5	634.0	649.2
10°	517.4	530.6	547.7	565.9	585.9	605.4	624.3	639.0	656.1	671.6	691.1
12.5°	514.1	533.0	553.5	576.7	601.3	623.9	648.8	669.0	688.6	710.9	733.6
15°	509.6	532.7	558.6	589.6	627.0	654.1	679.7	715.0	739.1	763.3	795.8
17.5°	501.7	529.9	562.2	602.5	633.6	670.2	708.5	736.5	769.0	803.0	832.5
20°	495.4	528.1	564.4	603.9	643.7	683.3	720.5	753.8	787.5	826.8	850.9
22.5°	489.1	521.4	559.1	601.1	643.8	685.7	727.6	766.9	804.6	844.3	875.2
25°	475.6	514.1	554.9	597.8	639.9	686.0	736.0	779.8	826.5	867.4	896.6
27.5°	462.0	497.3	537.9	581.4	628.2	682.7	741.6	791.3	838.1	867.4	876.6
30°	449.7	487.0	524.4	568.5	619.3	680.0	742.6	799.6	837.9	850.7	841.2
32.5°	437.2	471.1	508.0	553.3	607.1	673.5	744.0	794.7	817.7	808.0	769.6
35°	415.3	445.7	481.5	526.8	588.7	670.0	738.3	772.5	766.9	711.9	639.4
37.5°	391.7	416.6	449.7	497.0	569.7	655.7	713.3	718.4	668.9	584.7	501.0
40°	373.1	395.5	429.5	478.9	554.9	641.7	688.2	667.8	591.2	497.4	427.5
42.5°	355.0	373.9	406.7	460.0	540.8	622.5	650.8	606.3	517.9	429.2	365.7
45°	324.3	342.1	375.0	429.7	512.1	585.9	582.1	504.8	416.3	345.0	292.3
47.5°	295.3	310.9	341.8	397.6	478.3	530.9	496.1	413.8	338.7	281.4	243.8
50°	274.8	290.1	320.8	376.0	451.3	489.7	439.9	360.6	291.8	244.4	214.5
52.5°	255.1	270.0	298.1	351.9	418.6	441.6	388.0	314.5	257.2	216.3	190.7
55°	227.5	238.9	264.2	315.6	365.4	370.7	316.4	255.0	207.7	179.2	161.6
57.5°	199.4	209.2	234.2	275.1	310.1	307.4	256.0	202.7	171.0	149.8	137.0
60°	181.2	190.9	212.8	247.9	274.3	265.0	217.8	175.0	147.8	132.2	122.1
62.5°	164.1	171.6	192.3	217.9	236.9	226.4	186.2	150.8	129.1	116.0	108.0
65°	139.4	145.6	162.0	175.5	186.0	175.9	142.5	117.9	102.4	93.1	87.7
67.5°	116.0	119.9	130.3	135.2	142.6	131.5	107.2	90.7	81.8	74.1	70.2
70°	101.2	104.1	109.6	113.6	115.5	104.1	86.1	74.0	66.5	61.1	58.6
72.5°	86.4	89.0	90.1	93.3	92.3	81.6	69.2	59.6	54.2	50.5	47.4
75°	66.1	67.2	66.1	64.8	61.9	54.5	45.9	41.1	37.1	35.3	34.2
77.5°	48.2	47.8	46.4	44.3	39.4	34.7	30.1	28.5	26.8	25.8	25.4
80°	37.1	36.2	34.9	31.6	27.4	24.1	23.1	22.0	21.3	20.2	20.0
82.5°	27.6	27.1	24.9	22.1	19.2	17.6	16.8	16.3	15.6	15.1	15.1
85°	14.7	14.0	11.6	10.1	9.7	9.2	9.0	9.0	8.1	7.9	7.9
87.5°	5.4	4.7	5.0	4.8	5.4	5.6	6.2	6.4	6.8	7.2	7.0
90°	3.0	5.1	7.3	9.3	11.7	14.4	17.2	19.9	22.6	23.4	24.2
92.5°	24.2	25.6	27.1	28.5	30.0	31.5	33.0	34.6	36.1	36.8	37.5
95°	56.9	58.4	59.9	61.4	63.0	64.6	66.3	68.0	69.7	70.5	71.3
97.5°	99.7	100.8	101.9	102.9	104.1	105.3	106.5	107.7	109.0	109.9	110.8
100°	129.2	130.4	131.7	133.0	134.1	135.2	136.2	137.2	138.3	138.9	139.6
102.5°	162.6	163.3	164.1	164.9	165.9	167.3	168.6	170.0	171.4	172.0	172.7
105°	212.1	212.5	212.9	213.4	214.5	216.4	218.3	220.2	222.1	222.1	222.1
107.5°	269.9	270.1	270.4	270.7	271.2	271.9	272.7	273.4	274.2	274.8	275.5
110°	306.2	306.6	307.0	307.5	307.8	308.3	308.7	309.2	309.5	310.4	311.2





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	343.7	343.9	344.1	344.4	344.6	344.7	344.8	344.9	344.9	345.9	346.9
115°	400.5	401.1	401.7	402.4	402.5	402.1	401.6	401.2	400.8	401.1	401.2
117.5°	457.1	457.5	458.0	458.4	458.3	457.8	457.2	456.7	456.1	456.1	456.0
120°	493.3	494.6	495.9	497.1	497.2	496.2	495.1	494.1	493.0	492.8	492.6
122.5°	529.9	530.7	531.7	532.6	532.8	532.3	531.7	531.2	530.7	530.1	529.5
125°	585.9	586.4	587.1	587.7	587.9	587.4	587.0	586.5	586.2	585.3	584.5
127.5°	638.5	639.8	641.1	642.5	642.9	642.4	642.1	641.6	641.1	639.9	638.8
130°	673.4	675.1	676.7	678.4	679.0	678.3	677.7	677.1	676.5	675.6	674.8
132.5°	708.0	709.7	711.4	713.1	713.7	713.2	712.8	712.3	711.8	710.9	709.8
135°	760.5	761.8	763.0	764.3	764.8	764.6	764.4	764.2	763.9	763.2	762.3
137.5°	809.3	810.3	811.3	812.4	813.1	813.7	814.3	814.8	815.3	814.5	813.6
140°	843.1	844.1	845.2	846.2	846.9	847.1	847.3	847.5	847.7	847.5	847.3
142.5°	873.9	875.1	876.1	877.1	877.8	878.2	878.5	878.9	879.3	879.1	878.9
145°	921.5	921.9	922.4	922.7	923.3	923.9	924.5	925.2	925.8	925.6	925.4
147.5°	964.0	964.8	965.5	966.3	967.0	967.5	968.1	968.7	969.3	969.3	969.3
150°	993.1	993.4	993.8	994.3	994.7	995.1	995.5	996.0	996.4	996.4	996.4
152.5°	1017.3	1017.9	1018.4	1019.0	1019.5	1019.7	1019.9	1020.2	1020.5	1020.8	1021.2
155°	1054.7	1054.7	1054.7	1054.7	1054.8	1055.0	1055.2	1055.5	1055.6	1056.5	1057.3
157.5°	1086.8	1086.6	1086.3	1086.1	1086.0	1086.2	1086.4	1086.6	1086.7	1087.6	1088.4
160°	1106.9	1106.5	1106.2	1105.7	1105.5	1105.5	1105.5	1105.5	1105.5	1106.5	1107.6
162.5°	1124.8	1124.3	1123.7	1123.1	1122.9	1123.0	1123.2	1123.4	1123.6	1124.6	1125.7
165°	1148.1	1147.5	1146.9	1146.3	1145.9	1145.9	1145.9	1145.9	1145.9	1147.2	1148.5
167.5°	1166.6	1165.7	1164.9	1164.0	1163.8	1163.9	1164.0	1164.2	1164.4	1165.7	1167.0
170°	1177.1	1176.3	1175.4	1174.6	1174.2	1174.2	1174.2	1174.2	1174.2	1175.6	1177.1
172.5°	1185.4	1184.6	1183.7	1182.9	1182.4	1182.4	1182.4	1182.4	1182.4	1183.7	1185.1
175°	1194.0	1193.2	1192.4	1191.6	1191.1	1191.1	1191.1	1191.1	1191.1	1192.4	1193.6
177.5°	1197.8	1197.1	1196.5	1195.8	1195.4	1195.4	1195.4	1195.4	1195.4	1196.5	1197.5
180°	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	512.9	512.9	512.9	512.9	512.9	512.9	512.9
2.5°	541.1	541.1	541.8	544.4	544.8	547.1	546.4
5°	594.7	598.8	600.4	607.0	610.9	612.7	609.2
7.5°	660.2	671.9	677.5	684.5	690.5	692.4	687.6
10°	707.9	720.3	730.6	737.0	742.9	746.9	751.9
12.5°	754.1	769.3	779.1	788.1	794.2	799.2	800.0
15°	804.4	827.2	844.5	857.3	863.7	867.0	865.6
17.5°	855.0	876.2	888.5	901.5	910.3	910.8	911.1
20°	883.6	904.3	918.6	928.2	938.1	937.6	939.9
22.5°	902.8	919.1	930.0	937.0	940.4	938.7	939.1
25°	911.7	916.6	914.6	903.4	900.5	890.2	892.0
27.5°	865.5	842.7	819.1	788.7	764.7	745.6	746.5
30°	802.9	762.4	716.3	677.7	643.0	633.3	612.7
32.5°	715.2	654.6	600.6	564.5	534.8	526.7	508.7
35°	566.6	507.7	452.1	418.8	405.6	387.1	386.9
37.5°	440.4	388.5	359.2	334.1	321.0	309.8	308.8
40°	370.4	330.1	307.8	289.8	276.9	268.5	266.6
42.5°	321.6	289.0	268.2	257.0	247.0	242.7	239.5
45°	262.6	240.6	226.2	216.1	211.5	208.2	206.4
47.5°	219.7	205.0	195.1	188.3	184.6	181.2	182.1
50°	196.3	184.3	177.0	170.6	167.8	165.3	165.6
52.5°	177.5	166.6	160.8	156.2	152.7	150.9	150.1
55°	150.6	143.8	137.9	134.6	132.6	130.3	129.6
57.5°	128.5	123.2	118.4	114.7	114.1	111.9	112.2
60°	113.8	109.3	105.4	103.4	101.9	99.9	100.6
62.5°	101.6	97.9	94.3	92.7	91.1	89.7	90.0
65°	83.2	79.7	77.5	76.6	76.0	75.3	74.6
67.5°	66.4	64.2	62.8	60.9	59.6	59.4	58.7
70°	55.8	52.9	50.5	48.1	47.4	47.2	47.4
72.5°	44.7	42.9	42.2	41.1	40.9	40.3	40.7
75°	33.6	32.9	32.5	31.6	31.6	31.6	31.6
77.5°	24.8	24.4	24.1	23.9	23.8	23.4	23.4
80°	19.3	19.1	18.7	18.7	18.5	18.7	18.5
82.5°	14.6	14.5	14.1	14.1	13.9	13.8	13.9
85°	7.4	7.3	7.7	7.3	7.4	7.1	7.4
87.5°	7.2	7.3	7.3	7.4	7.3	7.6	7.4
90°	25.1	25.9	26.6	27.0	27.4	27.8	28.2
92.5°	38.2	38.8	39.0	38.7	38.5	38.3	38.0
95°	72.1	73.0	73.4	73.4	73.4	73.4	73.4
97.5°	111.9	112.8	113.2	113.2	113.1	113.0	112.9
100°	140.2	140.8	141.4	141.8	142.1	142.6	143.0
102.5°	173.3	173.9	174.2	174.1	174.0	174.0	173.9
105°	222.1	222.1	222.3	222.6	223.1	223.5	223.9
107.5°	276.2	276.8	277.0	276.8	276.5	276.3	276.1
110°	312.1	312.9	313.1	312.6	312.3	311.9	311.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	347.9	348.9	349.4	349.3	349.2	349.1	349.0
115°	401.4	401.6	401.6	401.4	401.2	401.1	400.8
117.5°	456.0	456.0	455.6	455.1	454.5	453.9	453.3
120°	492.4	492.2	491.8	491.4	491.1	490.6	490.2
122.5°	529.0	528.5	527.9	527.4	526.7	526.1	525.6
125°	583.6	582.8	581.9	581.2	580.3	579.5	578.6
127.5°	637.6	636.4	635.4	634.4	633.4	632.4	631.5
130°	673.9	673.2	671.9	670.5	669.0	667.6	666.1
132.5°	708.9	707.8	706.8	705.7	704.6	703.4	702.3
135°	761.5	760.6	760.0	759.6	759.1	758.7	758.4
137.5°	812.8	811.8	811.0	810.2	809.4	808.6	807.9
140°	847.1	846.9	846.0	844.6	843.1	841.7	840.2
142.5°	878.7	878.4	877.8	876.7	875.5	874.4	873.3
145°	925.2	924.9	924.4	923.6	922.7	921.9	921.1
147.5°	969.3	969.3	968.7	967.4	966.1	964.9	963.7
150°	996.4	996.4	995.7	994.5	993.3	991.9	990.7
152.5°	1021.4	1021.8	1021.4	1020.3	1019.3	1018.1	1017.1
155°	1058.2	1058.9	1058.7	1057.2	1055.7	1054.2	1052.8
157.5°	1089.3	1090.2	1090.1	1088.9	1087.7	1086.6	1085.3
160°	1108.6	1109.7	1109.7	1109.0	1108.1	1107.3	1106.5
162.5°	1126.7	1127.8	1127.6	1126.2	1124.9	1123.6	1122.3
165°	1149.7	1150.9	1150.8	1149.4	1147.9	1146.5	1145.0
167.5°	1168.3	1169.6	1169.6	1168.3	1167.0	1165.7	1164.4
170°	1178.6	1180.1	1180.1	1178.6	1177.1	1175.6	1174.2
172.5°	1186.4	1187.6	1187.6	1186.1	1184.7	1183.2	1181.7
175°	1194.9	1196.2	1196.0	1194.6	1193.1	1191.7	1190.1
177.5°	1198.4	1199.5	1199.4	1198.3	1197.0	1195.9	1194.7
180°	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7

(END OF REPORT)