

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: P332277-830

Luminaire Tested: **S123RDIP-S560D585U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332277-830  
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-S560D585U830-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 585 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3997.9 lumens  
Efficiency: N/A  
Efficacy: 121.9 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

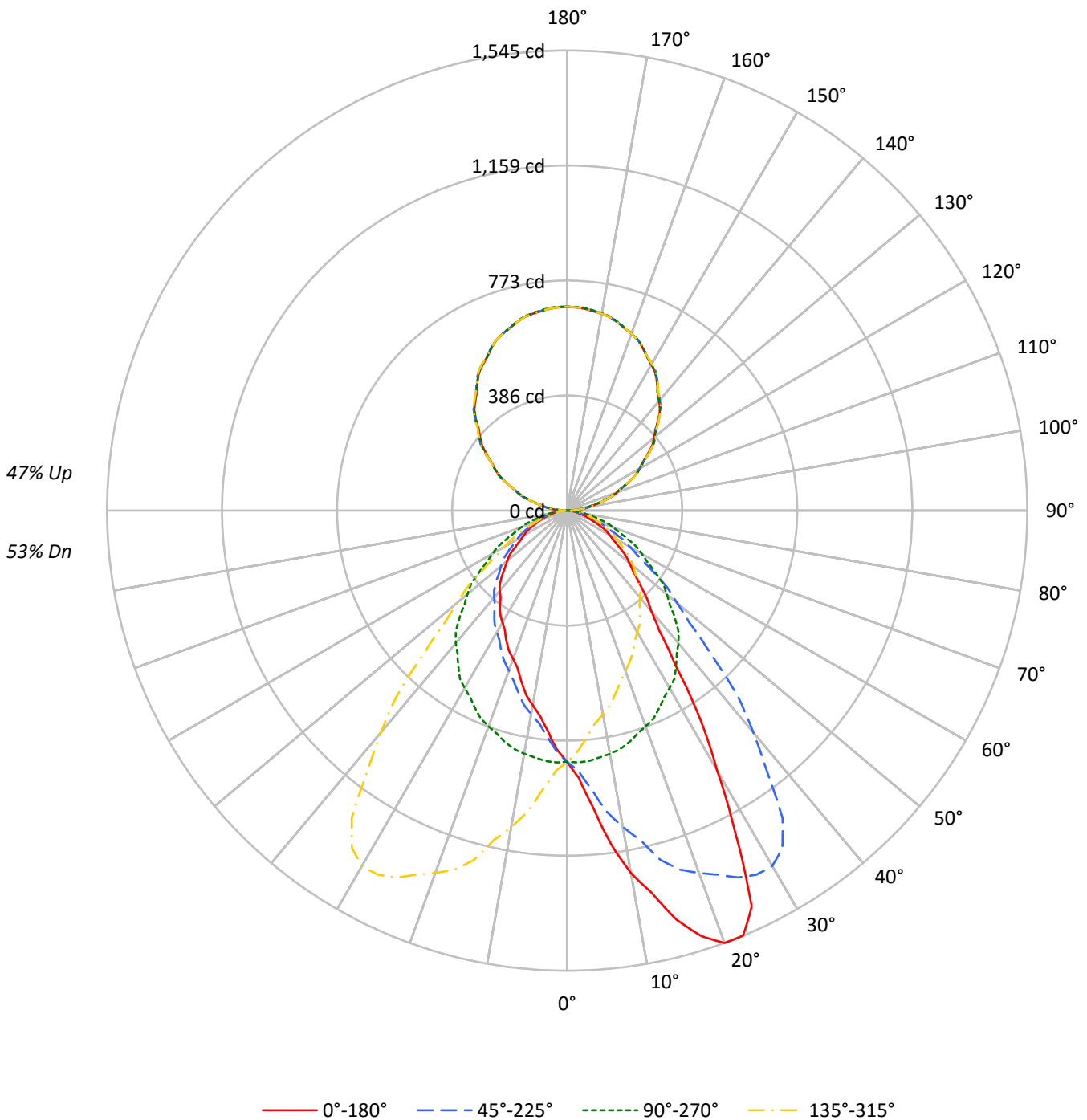
Input Watts (W): 32.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	53
1	99	95	91	88	92	88	85	82	75	73	71	63	62	60	53	52	51	46
2	91	84	78	73	84	78	73	68	67	63	60	56	54	51	47	45	44	39
3	83	74	67	61	77	69	63	58	59	55	51	50	47	44	42	40	38	34
4	76	66	58	52	70	61	55	50	53	48	44	45	42	38	38	35	33	30
5	70	59	51	45	65	55	48	43	48	42	38	41	37	34	35	32	29	26
6	65	53	45	40	60	50	43	38	43	38	34	37	33	30	32	28	26	23
7	60	48	40	35	56	45	38	33	39	34	30	34	30	27	29	26	23	21
8	56	44	36	31	52	41	34	30	36	31	27	31	27	24	27	23	21	19
9	52	40	33	28	48	38	31	27	33	28	24	29	25	22	25	21	19	17
10	49	37	30	25	45	35	28	24	31	25	22	27	23	20	23	20	17	15

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

	0°	90°	180°	270°
0°	9077	9077	9077	9077
5°	10821	9116	8028	9116
10°	13511	9063	7252	9063
15°	15858	8971	6614	8971
20°	17699	8833	6071	8833
25°	17416	8687	5738	8687
30°	12519	8552	5393	8552
35°	8359	8377	5171	8377
40°	6159	8168	4942	8168
45°	5165	7798	4714	7798
50°	4558	7316	4401	7316
55°	3997	6762	3969	6762
60°	3559	6232	3638	6232
65°	3125	5662	3385	5662
70°	2452	5158	3091	5158
75°	2163	4504	2824	4504
80°	1878	3825	2777	3825
85°	1519	3075	2939	3075



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.9	2.1
10°-20°	259.1	6.5
20°-30°	407.0	10.2
30°-40°	424.7	10.6
40°-50°	363.4	9.1
50°-60°	277.0	6.9
60°-70°	177.6	4.4
70°-80°	85.4	2.1
80°-90°	24.6	0.6
90°-100°	44.6	1.1
100°-110°	133.4	3.3
110°-120°	227.0	5.7
120°-130°	298.5	7.5
130°-140°	335.6	8.4
140°-150°	329.8	8.3
150°-160°	277.7	6.9
160°-170°	184.8	4.6
170°-180°	64.7	1.6
0°-30°	749.1	18.7
0°-40°	1173.7	29.4
0°-60°	1814.2	45.4
0°-90°	2101.8	52.6
90°-120°	405.0	10.1
90°-150°	1368.9	34.2
90°-180°	1896.0	47.4
0°-180°	3997.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	843	843	843	843	843	
5°	1002	844	743	844	1002	103
15°	1423	805	594	805	1423	404
25°	1466	731	483	731	1466	630
35°	636	638	394	638	636	417
45°	339	512	310	512	339	267
55°	213	360	212	360	213	193
65°	123	222	133	222	123	121
75°	52	108	68	108	52	56
85°	12	25	24	25	12	14
90°	16	1	16	1	16	8
95°	42	32	42	32	42	43
105°	128	121	128	121	128	136
115°	229	228	229	228	229	227
125°	331	334	331	334	331	296
135°	433	434	433	434	433	333
145°	526	526	526	526	526	329
155°	602	603	602	603	602	277
165°	654	656	654	656	654	185
175°	680	683	680	683	680	65
180°	684	684	684	684	684	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3
2.5°	898.1	899.4	895.6	895.0	890.7	889.6	889.6	883.4	879.7	874.8	871.9
5°	1001.5	1007.2	1004.4	997.9	987.0	984.5	977.6	966.8	954.5	939.3	932.2
7.5°	1130.4	1138.3	1135.2	1125.2	1113.9	1104.7	1085.3	1067.3	1042.2	1020.1	1001.2
10°	1236.1	1227.8	1221.3	1211.5	1201.1	1184.1	1163.9	1136.1	1104.0	1078.7	1050.6
12.5°	1315.2	1313.9	1305.6	1295.6	1280.8	1264.7	1239.8	1206.0	1168.7	1132.1	1099.9
15°	1423.1	1425.3	1419.8	1409.4	1388.5	1359.9	1322.4	1308.3	1254.9	1215.1	1175.4
17.5°	1497.8	1497.3	1496.6	1482.1	1460.8	1440.4	1405.6	1368.6	1320.2	1264.2	1210.8
20°	1545.1	1541.5	1542.3	1526.0	1510.1	1486.7	1452.7	1398.9	1359.2	1294.6	1239.3
22.5°	1544.0	1543.2	1546.0	1540.4	1528.9	1510.9	1484.2	1438.8	1388.1	1322.9	1260.7
25°	1466.4	1463.6	1480.5	1485.2	1503.6	1506.8	1498.9	1474.0	1426.0	1358.9	1282.0
27.5°	1227.3	1225.7	1257.2	1296.6	1346.6	1385.4	1423.0	1441.1	1426.0	1377.9	1300.9
30°	1007.2	1041.1	1057.1	1114.1	1177.6	1253.4	1319.8	1383.0	1398.5	1377.6	1314.5
32.5°	836.2	865.8	879.1	928.1	987.3	1076.1	1175.7	1265.2	1328.4	1344.4	1306.4
35°	636.1	636.5	666.8	688.4	743.3	834.6	931.4	1051.2	1170.4	1260.7	1270.1
37.5°	507.6	509.3	527.7	549.3	590.5	638.8	724.0	823.6	961.2	1099.8	1181.0
40°	438.3	441.5	455.2	476.5	506.1	542.6	609.1	702.9	817.7	971.9	1097.9
42.5°	393.8	399.1	406.1	422.5	440.8	475.0	528.8	601.2	705.6	851.4	996.7
45°	339.3	342.2	347.6	355.2	371.8	395.7	431.8	480.5	567.1	684.5	830.0
47.5°	299.4	297.8	303.5	309.7	320.7	337.0	361.2	401.0	462.8	556.9	680.3
50°	272.2	271.8	275.8	280.5	291.0	302.9	322.7	352.7	401.8	479.8	592.8
52.5°	246.8	248.2	251.0	256.8	264.4	274.0	291.8	313.4	355.6	422.9	517.1
55°	213.0	214.1	218.0	221.3	226.7	236.5	247.7	265.7	294.5	341.5	419.1
57.5°	184.4	183.9	187.8	188.5	194.6	202.6	211.2	225.3	246.2	281.1	333.4
60°	165.3	164.3	167.5	170.0	173.2	179.7	187.0	200.8	217.4	243.0	287.8
62.5°	148.0	147.5	149.9	152.4	155.0	161.0	167.1	177.6	190.8	212.4	247.9
65°	122.7	123.9	124.9	126.0	127.4	131.0	136.9	144.0	153.1	168.2	193.9
67.5°	96.4	97.6	97.9	100.1	103.2	105.5	109.1	115.5	121.8	134.5	149.1
70°	77.9	77.6	77.9	79.1	83.0	87.0	91.7	96.4	100.4	109.4	121.7
72.5°	67.0	66.4	67.3	67.5	69.5	70.5	73.5	77.9	83.0	89.2	98.0
75°	52.0	52.0	52.0	52.0	53.4	54.2	55.2	56.4	58.2	61.0	67.5
77.5°	38.5	38.5	39.0	39.3	39.7	40.1	40.7	41.8	42.4	44.0	46.8
80°	30.3	30.7	30.3	30.7	30.7	31.4	31.8	32.9	33.2	35.1	36.1
82.5°	22.8	22.6	22.8	23.2	23.2	23.9	23.9	24.8	24.9	25.7	26.9
85°	12.3	11.6	12.3	11.9	12.6	11.9	12.3	13.0	13.0	13.4	14.8
87.5°	6.1	6.6	6.0	6.2	6.2	6.4	6.3	6.2	6.7	6.3	6.3
90°	16.1	15.9	15.6	15.5	15.2	14.8	14.3	13.9	13.4	12.9	11.3
92.5°	21.7	21.9	22.0	22.1	22.3	22.1	21.8	21.4	21.0	20.6	19.8
95°	41.9	41.9	41.9	41.9	41.9	41.7	41.2	40.7	40.2	39.8	38.8
97.5°	64.5	64.6	64.6	64.7	64.7	64.5	63.9	63.3	62.8	62.3	61.5
100°	81.7	81.4	81.2	81.0	80.8	80.5	80.1	79.7	79.4	79.0	78.4
102.5°	99.3	99.4	99.4	99.5	99.5	99.3	99.1	98.7	98.3	97.9	97.2
105°	128.0	127.7	127.4	127.2	127.0	126.9	126.9	126.9	126.9	126.9	125.8
107.5°	157.8	157.9	158.1	158.2	158.3	158.2	157.8	157.4	157.0	156.7	156.3
110°	178.0	178.2	178.4	178.7	178.9	178.8	178.3	177.9	177.4	176.9	176.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	199.4	199.5	199.5	199.6	199.6	199.3	198.8	198.2	197.7	197.1	197.1
115°	229.0	229.1	229.2	229.4	229.5	229.5	229.4	229.2	229.1	229.0	229.2
117.5°	259.0	259.4	259.7	260.0	260.3	260.5	260.5	260.6	260.6	260.6	261.0
120°	280.1	280.3	280.6	280.8	281.1	281.3	281.3	281.4	281.6	281.7	282.3
122.5°	300.3	300.7	301.0	301.3	301.6	302.0	302.3	302.6	302.9	303.2	303.5
125°	330.6	331.1	331.6	332.1	332.5	333.0	333.5	333.9	334.4	335.0	335.2
127.5°	360.8	361.4	361.9	362.5	363.1	363.6	364.3	365.0	365.7	366.4	366.6
130°	380.6	381.4	382.3	383.1	384.0	384.7	385.1	385.6	386.1	386.5	386.9
132.5°	401.2	401.9	402.6	403.2	403.9	404.4	405.0	405.6	406.1	406.8	407.0
135°	433.3	433.6	433.8	434.0	434.2	434.6	435.1	435.5	436.1	436.6	436.7
137.5°	461.6	462.0	462.5	463.0	463.4	463.9	464.4	464.9	465.4	465.9	465.6
140°	480.1	480.9	481.7	482.6	483.4	483.9	484.0	484.2	484.3	484.4	484.3
142.5°	499.0	499.6	500.3	501.0	501.6	502.0	502.1	502.2	502.4	502.5	502.3
145°	526.3	526.8	527.3	527.7	528.2	528.6	528.7	528.8	528.9	529.0	528.7
147.5°	550.6	551.4	552.0	552.8	553.5	553.8	553.8	553.8	553.8	553.8	553.6
150°	566.1	566.8	567.5	568.3	569.0	569.3	569.3	569.3	569.3	569.3	569.1
152.5°	581.2	581.8	582.4	583.1	583.6	583.9	583.7	583.5	583.2	583.1	583.0
155°	601.6	602.5	603.2	604.1	604.9	605.1	604.6	604.2	603.7	603.2	603.1
157.5°	620.2	620.9	621.5	622.2	622.8	622.9	622.5	622.0	621.4	620.9	620.9
160°	632.3	632.7	633.2	633.7	634.1	634.0	633.5	632.9	632.3	631.7	631.7
162.5°	641.3	642.1	642.8	643.6	644.3	644.4	643.9	643.2	642.6	642.1	642.0
165°	654.3	655.2	655.9	656.8	657.6	657.7	657.0	656.3	655.5	654.8	654.8
167.5°	665.3	666.1	666.8	667.6	668.4	668.4	667.6	666.8	666.1	665.3	665.2
170°	670.9	671.8	672.6	673.4	674.3	674.3	673.4	672.6	671.8	670.9	670.9
172.5°	675.2	676.1	676.9	677.8	678.6	678.6	677.9	677.1	676.5	675.7	675.7
175°	680.0	680.9	681.7	682.6	683.4	683.5	682.8	682.0	681.4	680.6	680.6
177.5°	682.7	683.3	684.0	684.7	685.3	685.4	684.9	684.3	683.6	683.1	683.1
180°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3
2.5°	870.7	869.9	865.8	861.2	855.2	851.1	847.9	846.2	841.0	834.6	830.3
5°	924.5	913.7	902.2	888.1	875.1	861.8	853.5	843.7	831.8	818.4	809.0
7.5°	982.1	960.9	938.0	914.5	891.1	870.2	851.7	835.8	816.9	797.8	784.3
10°	1026.3	995.3	963.2	930.3	900.3	872.2	850.6	829.2	806.5	784.5	767.9
12.5°	1066.5	1025.7	988.6	948.2	909.9	876.3	845.1	820.0	792.7	769.2	750.3
15°	1117.3	1075.4	1030.7	969.3	918.4	875.8	837.9	805.0	771.8	743.0	724.5
17.5°	1164.8	1101.8	1041.7	990.4	924.4	871.1	824.8	785.5	749.1	718.5	695.8
20°	1184.5	1123.5	1058.1	992.8	927.8	868.3	814.5	771.1	733.2	698.5	677.6
22.5°	1196.3	1127.2	1058.4	988.2	919.2	857.2	804.1	756.4	715.3	682.4	656.6
25°	1210.1	1127.8	1052.0	982.7	912.3	845.1	781.9	731.4	687.0	652.0	624.5
27.5°	1219.2	1122.4	1032.7	955.7	884.3	817.5	759.6	706.0	660.9	623.9	594.5
30°	1221.0	1118.0	1018.0	934.6	862.0	800.7	739.3	688.1	640.5	601.1	573.6
32.5°	1223.2	1107.4	998.2	909.6	835.3	774.5	718.9	669.9	621.0	582.3	554.3
35°	1213.7	1101.5	967.9	866.1	791.7	732.8	682.7	637.5	589.6	552.0	523.5
37.5°	1172.7	1078.0	936.5	817.1	739.3	684.9	643.9	604.6	560.6	520.1	493.2
40°	1131.4	1054.9	912.3	787.4	706.2	650.2	613.3	581.3	538.7	500.7	471.8
42.5°	1069.9	1023.4	889.2	756.2	668.5	614.6	583.6	553.5	516.1	477.6	450.4
45°	957.1	963.2	841.9	706.5	616.6	562.4	533.2	512.3	479.1	447.3	419.5
47.5°	815.5	872.9	786.4	653.6	561.8	511.0	485.4	467.1	444.8	413.6	388.2
50°	723.1	805.0	741.9	618.0	527.4	476.9	451.7	436.9	417.4	392.8	368.6
52.5°	637.9	725.9	688.2	578.4	490.2	443.9	419.2	407.1	391.6	368.5	346.7
55°	520.2	609.4	600.7	518.8	434.3	392.8	374.0	360.3	349.8	332.5	315.2
57.5°	420.8	505.3	509.8	452.3	385.0	344.0	327.9	317.5	310.7	297.7	281.6
60°	358.2	435.7	450.9	407.6	349.8	313.7	297.8	289.5	284.1	273.6	261.4
62.5°	306.1	372.2	389.4	358.2	316.0	282.2	269.8	261.8	258.2	249.1	238.3
65°	234.3	289.2	305.8	288.4	266.5	239.3	229.2	222.3	219.1	214.1	206.1
67.5°	176.2	216.2	234.4	222.2	214.2	197.1	190.7	187.0	184.1	180.7	174.0
70°	141.5	171.2	189.9	186.6	180.1	171.2	166.5	163.9	161.0	158.2	152.3
72.5°	113.8	134.1	151.7	153.4	148.1	146.3	142.1	141.1	139.3	135.9	132.7
75°	75.5	89.5	101.8	106.5	108.7	110.5	108.7	108.3	107.9	105.1	103.2
77.5°	49.5	57.0	64.8	72.8	76.2	78.6	79.2	80.5	79.6	78.0	77.2
80°	37.9	39.7	45.1	52.0	57.4	59.6	61.0	61.7	61.4	61.0	59.6
82.5°	27.5	29.0	31.6	36.4	40.9	44.6	45.4	45.2	46.1	46.3	45.1
85°	14.8	15.2	15.9	16.6	19.1	23.1	24.2	24.9	25.6	25.6	23.5
87.5°	6.6	5.9	6.2	5.9	6.6	6.7	8.1	9.3	9.9	9.0	9.2
90°	9.8	8.2	6.7	5.3	4.1	2.9	1.7	0.6	1.7	2.9	4.1
92.5°	18.9	18.0	17.2	16.3	15.5	14.6	13.9	13.0	13.9	14.6	15.5
95°	37.9	36.9	36.0	35.1	34.2	33.4	32.5	31.8	32.5	33.4	34.2
97.5°	60.9	60.1	59.5	58.8	58.2	57.6	56.9	56.4	56.9	57.6	58.2
100°	77.9	77.2	76.6	76.0	75.3	74.6	73.8	73.1	73.8	74.6	75.3
102.5°	96.4	95.6	94.8	94.2	93.8	93.3	92.9	92.5	92.9	93.3	93.8
105°	124.7	123.7	122.5	122.0	121.7	121.4	121.2	120.9	121.2	121.4	121.7
107.5°	155.8	155.3	155.0	154.7	154.5	154.4	154.2	154.1	154.2	154.4	154.5
110°	176.4	176.2	175.9	175.7	175.4	175.2	174.9	174.7	174.9	175.2	175.4





TEST NUMBER: P332277-830

CATALOG NUMBER: S123RDIP-S560D585U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	197.0	197.0	196.9	196.8	196.6	196.5	196.3	196.2	196.3	196.5	196.6
115°	229.5	229.7	230.0	229.9	229.6	229.2	228.8	228.5	228.8	229.2	229.6
117.5°	261.3	261.6	261.8	261.9	261.6	261.5	261.2	261.0	261.2	261.5	261.6
120°	283.0	283.5	284.1	284.1	283.3	282.6	281.9	281.2	281.9	282.6	283.3
122.5°	303.9	304.2	304.4	304.3	303.8	303.3	302.7	302.3	302.7	303.3	303.8
125°	335.5	335.6	335.9	335.8	335.5	335.1	334.8	334.4	334.8	335.1	335.5
127.5°	366.8	367.1	367.4	367.1	366.4	365.6	364.9	364.1	364.9	365.6	366.4
130°	387.3	387.7	388.0	387.7	386.7	385.8	384.8	383.9	384.8	385.8	386.7
132.5°	407.3	407.6	407.8	407.5	406.5	405.6	404.6	403.6	404.6	405.6	406.5
135°	436.8	436.9	437.1	436.7	436.0	435.3	434.6	433.9	434.6	435.3	436.0
137.5°	465.2	465.0	464.7	464.2	463.6	463.0	462.4	461.8	462.4	463.0	463.6
140°	484.2	484.0	483.9	483.5	483.0	482.4	481.7	481.2	481.7	482.4	483.0
142.5°	502.0	501.8	501.6	501.1	500.6	500.0	499.4	498.8	499.4	500.0	500.6
145°	528.3	527.9	527.5	527.3	527.1	526.8	526.6	526.3	526.6	526.8	527.1
147.5°	553.2	552.9	552.5	552.1	551.7	551.3	550.8	550.4	550.8	551.3	551.7
150°	568.8	568.6	568.4	568.2	567.9	567.7	567.4	567.2	567.4	567.7	567.9
152.5°	582.8	582.7	582.5	582.3	581.9	581.6	581.3	581.0	581.3	581.6	581.9
155°	602.9	602.9	602.8	602.7	602.7	602.7	602.7	602.7	602.7	602.7	602.7
157.5°	620.8	620.7	620.6	620.6	620.8	620.9	621.0	621.1	621.0	620.9	620.8
160°	631.7	631.7	631.7	631.8	632.1	632.3	632.5	632.7	632.5	632.3	632.1
162.5°	641.9	641.8	641.7	641.8	642.1	642.4	642.7	643.1	642.7	642.4	642.1
165°	654.8	654.8	654.8	655.0	655.3	655.7	656.1	656.4	656.1	655.7	655.3
167.5°	665.2	665.1	665.0	665.2	665.6	666.1	666.6	667.0	666.6	666.1	665.6
170°	670.9	670.9	670.9	671.2	671.7	672.1	672.6	673.1	672.6	672.1	671.7
172.5°	675.7	675.7	675.7	675.9	676.4	676.8	677.3	677.8	677.3	676.8	676.4
175°	680.6	680.6	680.6	680.9	681.4	681.8	682.3	682.8	682.3	681.8	681.4
177.5°	683.1	683.1	683.1	683.2	683.6	684.1	684.5	684.9	684.5	684.1	683.6
180°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4



TEST NUMBER: P332277-830

CATALOG NUMBER: S123RDIP-S560D585U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3
2.5°	828.9	825.1	822.6	816.7	813.0	809.0	804.9	807.5	807.2	806.9	806.9
5°	801.1	792.8	785.2	775.4	769.3	761.8	755.9	755.3	756.7	751.6	748.8
7.5°	773.5	762.1	751.4	740.6	729.2	720.1	714.4	711.8	708.1	705.0	701.7
10°	754.1	740.8	730.3	717.0	704.7	693.9	687.0	682.3	679.8	677.2	672.6
12.5°	734.2	721.1	707.8	692.7	681.0	668.5	663.4	658.1	653.2	650.4	643.9
15°	705.0	688.1	674.0	658.1	645.2	632.8	625.7	615.2	613.7	610.1	603.6
17.5°	675.8	657.4	638.0	626.2	611.5	598.8	587.8	584.3	573.9	570.0	564.4
20°	652.7	635.7	620.9	605.4	584.1	572.2	563.5	558.8	550.5	545.4	541.9
22.5°	632.8	615.5	598.4	580.3	562.7	549.4	543.0	535.7	531.2	524.1	520.2
25°	604.4	585.6	565.0	545.4	532.8	522.7	512.6	506.1	499.6	496.3	489.2
27.5°	571.3	551.7	532.4	517.6	502.1	492.1	483.0	477.2	469.4	463.9	460.0
30°	553.1	530.0	513.4	500.0	480.1	470.8	463.9	456.7	450.9	445.2	441.1
32.5°	532.0	510.9	495.1	478.6	463.4	453.2	444.2	437.9	433.0	427.5	423.6
35°	498.9	481.3	465.0	448.4	437.2	426.7	416.2	410.9	406.1	401.1	397.5
37.5°	469.0	452.5	437.1	421.3	407.5	398.9	390.5	386.3	380.0	376.6	373.0
40°	450.5	434.3	417.7	402.6	388.0	381.6	374.0	367.9	362.1	359.6	355.6
42.5°	430.4	414.1	400.1	383.7	371.9	363.1	356.1	349.4	345.1	341.4	339.1
45°	400.4	385.9	372.2	356.0	344.8	337.1	329.2	323.1	319.1	316.6	312.6
47.5°	371.3	356.8	342.9	328.8	317.9	309.2	301.3	297.0	291.8	288.7	286.0
50°	350.2	337.1	322.3	309.3	298.6	289.9	283.4	278.0	273.2	269.3	267.5
52.5°	330.8	317.0	304.2	292.1	280.7	270.8	264.9	259.2	255.7	251.1	249.0
55°	298.9	285.6	274.8	262.8	251.7	243.4	236.1	231.0	227.4	222.3	219.5
57.5°	268.9	256.9	244.0	233.8	222.2	215.2	209.2	202.3	197.9	194.0	191.1
60°	248.7	235.0	223.9	214.1	204.0	194.9	189.5	184.1	179.5	175.4	173.0
62.5°	227.6	215.7	205.1	194.4	185.2	177.3	171.1	166.5	162.4	159.9	157.3
65°	195.3	186.0	175.1	166.5	157.8	152.0	146.9	143.0	140.1	138.3	136.1
67.5°	165.6	156.5	147.0	138.5	132.7	128.3	125.0	121.6	120.2	117.8	116.4
70°	146.2	136.9	128.6	122.1	116.2	113.0	110.8	108.3	106.9	104.0	102.5
72.5°	125.2	118.4	112.4	107.0	102.4	99.4	96.7	93.6	91.2	88.1	86.6
75°	98.6	92.5	87.8	84.1	81.2	77.3	73.3	70.0	69.0	67.9	67.5
77.5°	73.0	69.1	65.7	62.7	59.1	56.2	55.3	54.6	54.4	53.8	53.8
80°	57.4	53.8	51.3	47.7	45.5	45.5	45.5	44.8	45.1	45.1	45.1
82.5°	42.7	39.3	38.0	36.7	36.3	36.6	36.6	36.7	36.5	37.0	36.8
85°	22.1	22.3	23.1	22.7	23.1	23.1	23.8	23.5	23.8	23.1	23.8
87.5°	9.1	10.3	10.9	11.5	12.1	12.1	12.5	12.6	13.0	13.1	13.1
90°	5.3	6.7	8.2	9.8	11.3	12.9	13.4	13.9	14.3	14.8	15.2
92.5°	16.3	17.2	18.0	18.9	19.8	20.6	21.0	21.4	21.8	22.1	22.3
95°	35.1	36.0	36.9	37.9	38.8	39.8	40.2	40.7	41.2	41.7	41.9
97.5°	58.8	59.5	60.1	60.9	61.5	62.3	62.8	63.3	63.9	64.5	64.7
100°	76.0	76.6	77.2	77.9	78.4	79.0	79.4	79.7	80.1	80.5	80.8
102.5°	94.2	94.8	95.6	96.4	97.2	97.9	98.3	98.7	99.1	99.3	99.5
105°	122.0	122.5	123.7	124.7	125.8	126.9	126.9	126.9	126.9	126.9	127.0
107.5°	154.7	155.0	155.3	155.8	156.3	156.7	157.0	157.4	157.8	158.2	158.3
110°	175.7	175.9	176.2	176.4	176.6	176.9	177.4	177.9	178.3	178.8	178.9



TEST NUMBER: P332277-830

CATALOG NUMBER: S123RDIP-S560D585U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	196.8	196.9	197.0	197.0	197.1	197.1	197.7	198.2	198.8	199.3	199.6
115°	229.9	230.0	229.7	229.5	229.2	229.0	229.1	229.2	229.4	229.5	229.5
117.5°	261.9	261.8	261.6	261.3	261.0	260.6	260.6	260.6	260.5	260.5	260.3
120°	284.1	284.1	283.5	283.0	282.3	281.7	281.6	281.4	281.3	281.3	281.1
122.5°	304.3	304.4	304.2	303.9	303.5	303.2	302.9	302.6	302.3	302.0	301.6
125°	335.8	335.9	335.6	335.5	335.2	335.0	334.4	333.9	333.5	333.0	332.5
127.5°	367.1	367.4	367.1	366.8	366.6	366.4	365.7	365.0	364.3	363.6	363.1
130°	387.7	388.0	387.7	387.3	386.9	386.5	386.1	385.6	385.1	384.7	384.0
132.5°	407.5	407.8	407.6	407.3	407.0	406.8	406.1	405.6	405.0	404.4	403.9
135°	436.7	437.1	436.9	436.8	436.7	436.6	436.1	435.5	435.1	434.6	434.2
137.5°	464.2	464.7	465.0	465.2	465.6	465.9	465.4	464.9	464.4	463.9	463.4
140°	483.5	483.9	484.0	484.2	484.3	484.4	484.3	484.2	484.0	483.9	483.4
142.5°	501.1	501.6	501.8	502.0	502.3	502.5	502.4	502.2	502.1	502.0	501.6
145°	527.3	527.5	527.9	528.3	528.7	529.0	528.9	528.8	528.7	528.6	528.2
147.5°	552.1	552.5	552.9	553.2	553.6	553.8	553.8	553.8	553.8	553.8	553.5
150°	568.2	568.4	568.6	568.8	569.1	569.3	569.3	569.3	569.3	569.3	569.0
152.5°	582.3	582.5	582.7	582.8	583.0	583.1	583.2	583.5	583.7	583.9	583.6
155°	602.7	602.8	602.9	602.9	603.1	603.2	603.7	604.2	604.6	605.1	604.9
157.5°	620.6	620.6	620.7	620.8	620.9	620.9	621.4	622.0	622.5	622.9	622.8
160°	631.8	631.7	631.7	631.7	631.7	631.7	632.3	632.9	633.5	634.0	634.1
162.5°	641.8	641.7	641.8	641.9	642.0	642.1	642.6	643.2	643.9	644.4	644.3
165°	655.0	654.8	654.8	654.8	654.8	654.8	655.5	656.3	657.0	657.7	657.6
167.5°	665.2	665.0	665.1	665.2	665.2	665.3	666.1	666.8	667.6	668.4	668.4
170°	671.2	670.9	670.9	670.9	670.9	670.9	671.8	672.6	673.4	674.3	674.3
172.5°	675.9	675.7	675.7	675.7	675.7	675.7	676.5	677.1	677.9	678.6	678.6
175°	680.9	680.6	680.6	680.6	680.6	680.6	681.4	682.0	682.8	683.5	683.4
177.5°	683.2	683.1	683.1	683.1	683.1	683.1	683.6	684.3	684.9	685.4	685.3
180°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4



TEST NUMBER: P332277-830

CATALOG NUMBER: S123RDIP-S560D585U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3
2.5°	803.4	803.1	803.4	802.3	803.4	803.1	803.4	806.9	806.9	807.2	807.5
5°	747.6	747.2	746.2	743.0	746.2	747.2	747.6	748.8	751.6	756.7	755.3
7.5°	698.9	698.4	695.2	695.3	695.2	698.4	698.9	701.7	705.0	708.1	711.8
10°	670.1	670.4	666.1	663.5	666.1	670.4	670.1	672.6	677.2	679.8	682.3
12.5°	642.1	640.4	636.9	634.0	636.9	640.4	642.1	643.9	650.4	653.2	658.1
15°	605.0	601.4	592.8	593.5	592.8	601.4	605.0	603.6	610.1	613.7	615.2
17.5°	561.5	558.8	558.7	553.6	558.7	558.8	561.5	564.4	570.0	573.9	584.3
20°	536.1	534.3	535.0	530.0	535.0	534.3	536.1	541.9	545.4	550.5	558.8
22.5°	516.1	514.3	511.3	509.7	511.3	514.3	516.1	520.2	524.1	531.2	535.7
25°	487.0	484.1	481.3	483.1	481.3	484.1	487.0	489.2	496.3	499.6	506.1
27.5°	457.8	455.6	452.8	452.4	452.8	455.6	457.8	460.0	463.9	469.4	477.2
30°	439.3	437.2	435.7	433.9	435.7	437.2	439.3	441.1	445.2	450.9	456.7
32.5°	420.6	420.2	417.5	417.2	417.5	420.2	420.6	423.6	427.5	433.0	437.9
35°	396.1	393.9	393.1	393.5	393.1	393.9	396.1	397.5	401.1	406.1	410.9
37.5°	372.7	369.9	368.5	367.2	368.5	369.9	372.7	373.0	376.6	380.0	386.3
40°	356.0	353.1	352.3	351.7	352.3	353.1	356.0	355.6	359.6	362.1	367.9
42.5°	337.1	336.0	335.6	334.3	335.6	336.0	337.1	339.1	341.4	345.1	349.4
45°	311.5	311.2	309.1	309.7	309.1	311.2	311.5	312.6	316.6	319.1	323.1
47.5°	284.6	283.0	281.4	282.5	281.4	283.0	284.6	286.0	288.7	291.8	297.0
50°	266.1	265.3	262.1	262.8	262.1	265.3	266.1	267.5	269.3	273.2	278.0
52.5°	247.6	244.9	243.6	243.2	243.6	244.9	247.6	249.0	251.1	255.7	259.2
55°	217.0	213.7	212.3	211.5	212.3	213.7	217.0	219.5	222.3	227.4	231.0
57.5°	186.9	186.1	184.9	185.7	184.9	186.1	186.9	191.1	194.0	197.9	202.3
60°	169.3	169.3	169.3	169.0	169.3	169.3	169.3	173.0	175.4	179.5	184.1
62.5°	155.7	154.9	154.6	155.0	154.6	154.9	155.7	157.3	159.9	162.4	166.5
65°	135.0	134.7	133.2	132.9	133.2	134.7	135.0	136.1	138.3	140.1	143.0
67.5°	115.5	114.1	113.8	113.2	113.8	114.1	115.5	116.4	117.8	120.2	121.6
70°	100.8	100.0	97.8	98.2	97.8	100.0	100.8	102.5	104.0	106.9	108.3
72.5°	84.8	84.1	83.7	83.1	83.7	84.1	84.8	86.6	88.1	91.2	93.6
75°	67.1	66.8	66.4	67.9	66.4	66.8	67.1	67.5	67.9	69.0	70.0
77.5°	53.8	53.8	54.0	53.4	54.0	53.8	53.8	53.8	53.8	54.4	54.6
80°	45.1	45.1	44.8	44.8	44.8	45.1	45.1	45.1	45.1	45.1	44.8
82.5°	36.2	36.5	36.7	36.1	36.7	36.5	36.2	36.8	37.0	36.5	36.7
85°	23.8	23.5	24.2	23.8	24.2	23.5	23.8	23.8	23.1	23.8	23.5
87.5°	13.8	13.2	13.3	13.7	13.3	13.2	13.8	13.1	13.1	13.0	12.6
90°	15.5	15.6	15.9	16.1	15.9	15.6	15.5	15.2	14.8	14.3	13.9
92.5°	22.1	22.0	21.9	21.7	21.9	22.0	22.1	22.3	22.1	21.8	21.4
95°	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.7	41.2	40.7
97.5°	64.7	64.6	64.6	64.5	64.6	64.6	64.7	64.7	64.5	63.9	63.3
100°	81.0	81.2	81.4	81.7	81.4	81.2	81.0	80.8	80.5	80.1	79.7
102.5°	99.5	99.4	99.4	99.3	99.4	99.4	99.5	99.5	99.3	99.1	98.7
105°	127.2	127.4	127.7	128.0	127.7	127.4	127.2	127.0	126.9	126.9	126.9
107.5°	158.2	158.1	157.9	157.8	157.9	158.1	158.2	158.3	158.2	157.8	157.4
110°	178.7	178.4	178.2	178.0	178.2	178.4	178.7	178.9	178.8	178.3	177.9



TEST NUMBER: P332277-830

CATALOG NUMBER: S123RDIP-S560D585U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	199.6	199.5	199.5	199.4	199.5	199.5	199.6	199.6	199.3	198.8	198.2
115°	229.4	229.2	229.1	229.0	229.1	229.2	229.4	229.5	229.5	229.4	229.2
117.5°	260.0	259.7	259.4	259.0	259.4	259.7	260.0	260.3	260.5	260.5	260.6
120°	280.8	280.6	280.3	280.1	280.3	280.6	280.8	281.1	281.3	281.3	281.4
122.5°	301.3	301.0	300.7	300.3	300.7	301.0	301.3	301.6	302.0	302.3	302.6
125°	332.1	331.6	331.1	330.6	331.1	331.6	332.1	332.5	333.0	333.5	333.9
127.5°	362.5	361.9	361.4	360.8	361.4	361.9	362.5	363.1	363.6	364.3	365.0
130°	383.1	382.3	381.4	380.6	381.4	382.3	383.1	384.0	384.7	385.1	385.6
132.5°	403.2	402.6	401.9	401.2	401.9	402.6	403.2	403.9	404.4	405.0	405.6
135°	434.0	433.8	433.6	433.3	433.6	433.8	434.0	434.2	434.6	435.1	435.5
137.5°	463.0	462.5	462.0	461.6	462.0	462.5	463.0	463.4	463.9	464.4	464.9
140°	482.6	481.7	480.9	480.1	480.9	481.7	482.6	483.4	483.9	484.0	484.2
142.5°	501.0	500.3	499.6	499.0	499.6	500.3	501.0	501.6	502.0	502.1	502.2
145°	527.7	527.3	526.8	526.3	526.8	527.3	527.7	528.2	528.6	528.7	528.8
147.5°	552.8	552.0	551.4	550.6	551.4	552.0	552.8	553.5	553.8	553.8	553.8
150°	568.3	567.5	566.8	566.1	566.8	567.5	568.3	569.0	569.3	569.3	569.3
152.5°	583.1	582.4	581.8	581.2	581.8	582.4	583.1	583.6	583.9	583.7	583.5
155°	604.1	603.2	602.5	601.6	602.5	603.2	604.1	604.9	605.1	604.6	604.2
157.5°	622.2	621.5	620.9	620.2	620.9	621.5	622.2	622.8	622.9	622.5	622.0
160°	633.7	633.2	632.7	632.3	632.7	633.2	633.7	634.1	634.0	633.5	632.9
162.5°	643.6	642.8	642.1	641.3	642.1	642.8	643.6	644.3	644.4	643.9	643.2
165°	656.8	655.9	655.2	654.3	655.2	655.9	656.8	657.6	657.7	657.0	656.3
167.5°	667.6	666.8	666.1	665.3	666.1	666.8	667.6	668.4	668.4	667.6	666.8
170°	673.4	672.6	671.8	670.9	671.8	672.6	673.4	674.3	674.3	673.4	672.6
172.5°	677.8	676.9	676.1	675.2	676.1	676.9	677.8	678.6	678.6	677.9	677.1
175°	682.6	681.7	680.9	680.0	680.9	681.7	682.6	683.4	683.5	682.8	682.0
177.5°	684.7	684.0	683.3	682.7	683.3	684.0	684.7	685.3	685.4	684.9	684.3
180°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4



TEST NUMBER: P332277-830

CATALOG NUMBER: S123RDIP-S560D585U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3
2.5°	804.9	809.0	813.0	816.7	822.6	825.1	828.9	830.3	834.6	841.0	846.2
5°	755.9	761.8	769.3	775.4	785.2	792.8	801.1	809.0	818.4	831.8	843.7
7.5°	714.4	720.1	729.2	740.6	751.4	762.1	773.5	784.3	797.8	816.9	835.8
10°	687.0	693.9	704.7	717.0	730.3	740.8	754.1	767.9	784.5	806.5	829.2
12.5°	663.4	668.5	681.0	692.7	707.8	721.1	734.2	750.3	769.2	792.7	820.0
15°	625.7	632.8	645.2	658.1	674.0	688.1	705.0	724.5	743.0	771.8	805.0
17.5°	587.8	598.8	611.5	626.2	638.0	657.4	675.8	695.8	718.5	749.1	785.5
20°	563.5	572.2	584.1	605.4	620.9	635.7	652.7	677.6	698.5	733.2	771.1
22.5°	543.0	549.4	562.7	580.3	598.4	615.5	632.8	656.6	682.4	715.3	756.4
25°	512.6	522.7	532.8	545.4	565.0	585.6	604.4	624.5	652.0	687.0	731.4
27.5°	483.0	492.1	502.1	517.6	532.4	551.7	571.3	594.5	623.9	660.9	706.0
30°	463.9	470.8	480.1	500.0	513.4	530.0	553.1	573.6	601.1	640.5	688.1
32.5°	444.2	453.2	463.4	478.6	495.1	510.9	532.0	554.3	582.3	621.0	669.9
35°	416.2	426.7	437.2	448.4	465.0	481.3	498.9	523.5	552.0	589.6	637.5
37.5°	390.5	398.9	407.5	421.3	437.1	452.5	469.0	493.2	520.1	560.6	604.6
40°	374.0	381.6	388.0	402.6	417.7	434.3	450.5	471.8	500.7	538.7	581.3
42.5°	356.1	363.1	371.9	383.7	400.1	414.1	430.4	450.4	477.6	516.1	553.5
45°	329.2	337.1	344.8	356.0	372.2	385.9	400.4	419.5	447.3	479.1	512.3
47.5°	301.3	309.2	317.9	328.8	342.9	356.8	371.3	388.2	413.6	444.8	467.1
50°	283.4	289.9	298.6	309.3	322.3	337.1	350.2	368.6	392.8	417.4	436.9
52.5°	264.9	270.8	280.7	292.1	304.2	317.0	330.8	346.7	368.5	391.6	407.1
55°	236.1	243.4	251.7	262.8	274.8	285.6	298.9	315.2	332.5	349.8	360.3
57.5°	209.2	215.2	222.2	233.8	244.0	256.9	268.9	281.6	297.7	310.7	317.5
60°	189.5	194.9	204.0	214.1	223.9	235.0	248.7	261.4	273.6	284.1	289.5
62.5°	171.1	177.3	185.2	194.4	205.1	215.7	227.6	238.3	249.1	258.2	261.8
65°	146.9	152.0	157.8	166.5	175.1	186.0	195.3	206.1	214.1	219.1	222.3
67.5°	125.0	128.3	132.7	138.5	147.0	156.5	165.6	174.0	180.7	184.1	187.0
70°	110.8	113.0	116.2	122.1	128.6	136.9	146.2	152.3	158.2	161.0	163.9
72.5°	96.7	99.4	102.4	107.0	112.4	118.4	125.2	132.7	135.9	139.3	141.1
75°	73.3	77.3	81.2	84.1	87.8	92.5	98.6	103.2	105.1	107.9	108.3
77.5°	55.3	56.2	59.1	62.7	65.7	69.1	73.0	77.2	78.0	79.6	80.5
80°	45.5	45.5	45.5	47.7	51.3	53.8	57.4	59.6	61.0	61.4	61.7
82.5°	36.6	36.6	36.3	36.7	38.0	39.3	42.7	45.1	46.3	46.1	45.2
85°	23.8	23.1	23.1	22.7	23.1	22.3	22.1	23.5	25.6	25.6	24.9
87.5°	12.5	12.1	12.1	11.5	10.9	10.3	9.1	9.2	9.0	9.9	9.3
90°	13.4	12.9	11.3	9.8	8.2	6.7	5.3	4.1	2.9	1.7	0.6
92.5°	21.0	20.6	19.8	18.9	18.0	17.2	16.3	15.5	14.6	13.9	13.0
95°	40.2	39.8	38.8	37.9	36.9	36.0	35.1	34.2	33.4	32.5	31.8
97.5°	62.8	62.3	61.5	60.9	60.1	59.5	58.8	58.2	57.6	56.9	56.4
100°	79.4	79.0	78.4	77.9	77.2	76.6	76.0	75.3	74.6	73.8	73.1
102.5°	98.3	97.9	97.2	96.4	95.6	94.8	94.2	93.8	93.3	92.9	92.5
105°	126.9	126.9	125.8	124.7	123.7	122.5	122.0	121.7	121.4	121.2	120.9
107.5°	157.0	156.7	156.3	155.8	155.3	155.0	154.7	154.5	154.4	154.2	154.1
110°	177.4	176.9	176.6	176.4	176.2	175.9	175.7	175.4	175.2	174.9	174.7



TEST NUMBER: P332277-830

CATALOG NUMBER: S123RDIP-S560D585U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	197.7	197.1	197.1	197.0	197.0	196.9	196.8	196.6	196.5	196.3	196.2
115°	229.1	229.0	229.2	229.5	229.7	230.0	229.9	229.6	229.2	228.8	228.5
117.5°	260.6	260.6	261.0	261.3	261.6	261.8	261.9	261.6	261.5	261.2	261.0
120°	281.6	281.7	282.3	283.0	283.5	284.1	284.1	283.3	282.6	281.9	281.2
122.5°	302.9	303.2	303.5	303.9	304.2	304.4	304.3	303.8	303.3	302.7	302.3
125°	334.4	335.0	335.2	335.5	335.6	335.9	335.8	335.5	335.1	334.8	334.4
127.5°	365.7	366.4	366.6	366.8	367.1	367.4	367.1	366.4	365.6	364.9	364.1
130°	386.1	386.5	386.9	387.3	387.7	388.0	387.7	386.7	385.8	384.8	383.9
132.5°	406.1	406.8	407.0	407.3	407.6	407.8	407.5	406.5	405.6	404.6	403.6
135°	436.1	436.6	436.7	436.8	436.9	437.1	436.7	436.0	435.3	434.6	433.9
137.5°	465.4	465.9	465.6	465.2	465.0	464.7	464.2	463.6	463.0	462.4	461.8
140°	484.3	484.4	484.3	484.2	484.0	483.9	483.5	483.0	482.4	481.7	481.2
142.5°	502.4	502.5	502.3	502.0	501.8	501.6	501.1	500.6	500.0	499.4	498.8
145°	528.9	529.0	528.7	528.3	527.9	527.5	527.3	527.1	526.8	526.6	526.3
147.5°	553.8	553.8	553.6	553.2	552.9	552.5	552.1	551.7	551.3	550.8	550.4
150°	569.3	569.3	569.1	568.8	568.6	568.4	568.2	567.9	567.7	567.4	567.2
152.5°	583.2	583.1	583.0	582.8	582.7	582.5	582.3	581.9	581.6	581.3	581.0
155°	603.7	603.2	603.1	602.9	602.9	602.8	602.7	602.7	602.7	602.7	602.7
157.5°	621.4	620.9	620.9	620.8	620.7	620.6	620.6	620.8	620.9	621.0	621.1
160°	632.3	631.7	631.7	631.7	631.7	631.7	631.8	632.1	632.3	632.5	632.7
162.5°	642.6	642.1	642.0	641.9	641.8	641.7	641.8	642.1	642.4	642.7	643.1
165°	655.5	654.8	654.8	654.8	654.8	654.8	655.0	655.3	655.7	656.1	656.4
167.5°	666.1	665.3	665.2	665.2	665.1	665.0	665.2	665.6	666.1	666.6	667.0
170°	671.8	670.9	670.9	670.9	670.9	670.9	671.2	671.7	672.1	672.6	673.1
172.5°	676.5	675.7	675.7	675.7	675.7	675.7	675.9	676.4	676.8	677.3	677.8
175°	681.4	680.6	680.6	680.6	680.6	680.6	680.9	681.4	681.8	682.3	682.8
177.5°	683.6	683.1	683.1	683.1	683.1	683.1	683.2	683.6	684.1	684.5	684.9
180°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4



TEST NUMBER: P332277-830

CATALOG NUMBER: S123RDIP-S560D585U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3
2.5°	847.9	851.1	855.2	861.2	865.8	869.9	870.7	871.9	874.8	879.7	883.4
5°	853.5	861.8	875.1	888.1	902.2	913.7	924.5	932.2	939.3	954.5	966.8
7.5°	851.7	870.2	891.1	914.5	938.0	960.9	982.1	1001.2	1020.1	1042.2	1067.3
10°	850.6	872.2	900.3	930.3	963.2	995.3	1026.3	1050.6	1078.7	1104.0	1136.1
12.5°	845.1	876.3	909.9	948.2	988.6	1025.7	1066.5	1099.9	1132.1	1168.7	1206.0
15°	837.9	875.8	918.4	969.3	1030.7	1075.4	1117.3	1175.4	1215.1	1254.9	1308.3
17.5°	824.8	871.1	924.4	990.4	1041.7	1101.8	1164.8	1210.8	1264.2	1320.2	1368.6
20°	814.5	868.3	927.8	992.8	1058.1	1123.5	1184.5	1239.3	1294.6	1359.2	1398.9
22.5°	804.1	857.2	919.2	988.2	1058.4	1127.2	1196.3	1260.7	1322.9	1388.1	1438.8
25°	781.9	845.1	912.3	982.7	1052.0	1127.8	1210.1	1282.0	1358.9	1426.0	1474.0
27.5°	759.6	817.5	884.3	955.7	1032.7	1122.4	1219.2	1300.9	1377.9	1426.0	1441.1
30°	739.3	800.7	862.0	934.6	1018.0	1118.0	1221.0	1314.5	1377.6	1398.5	1383.0
32.5°	718.9	774.5	835.3	909.6	998.2	1107.4	1223.2	1306.4	1344.4	1328.4	1265.2
35°	682.7	732.8	791.7	866.1	967.9	1101.5	1213.7	1270.1	1260.7	1170.4	1051.2
37.5°	643.9	684.9	739.3	817.1	936.5	1078.0	1172.7	1181.0	1099.8	961.2	823.6
40°	613.3	650.2	706.2	787.4	912.3	1054.9	1131.4	1097.9	971.9	817.7	702.9
42.5°	583.6	614.6	668.5	756.2	889.2	1023.4	1069.9	996.7	851.4	705.6	601.2
45°	533.2	562.4	616.6	706.5	841.9	963.2	957.1	830.0	684.5	567.1	480.5
47.5°	485.4	511.0	561.8	653.6	786.4	872.9	815.5	680.3	556.9	462.8	401.0
50°	451.7	476.9	527.4	618.0	741.9	805.0	723.1	592.8	479.8	401.8	352.7
52.5°	419.2	443.9	490.2	578.4	688.2	725.9	637.9	517.1	422.9	355.6	313.4
55°	374.0	392.8	434.3	518.8	600.7	609.4	520.2	419.1	341.5	294.5	265.7
57.5°	327.9	344.0	385.0	452.3	509.8	505.3	420.8	333.4	281.1	246.2	225.3
60°	297.8	313.7	349.8	407.6	450.9	435.7	358.2	287.8	243.0	217.4	200.8
62.5°	269.8	282.2	316.0	358.2	389.4	372.2	306.1	247.9	212.4	190.8	177.6
65°	229.2	239.3	266.5	288.4	305.8	289.2	234.3	193.9	168.2	153.1	144.0
67.5°	190.7	197.1	214.2	222.2	234.4	216.2	176.2	149.1	134.5	121.8	115.5
70°	166.5	171.2	180.1	186.6	189.9	171.2	141.5	121.7	109.4	100.4	96.4
72.5°	142.1	146.3	148.1	153.4	151.7	134.1	113.8	98.0	89.2	83.0	77.9
75°	108.7	110.5	108.7	106.5	101.8	89.5	75.5	67.5	61.0	58.2	56.4
77.5°	79.2	78.6	76.2	72.8	64.8	57.0	49.5	46.8	44.0	42.4	41.8
80°	61.0	59.6	57.4	52.0	45.1	39.7	37.9	36.1	35.1	33.2	32.9
82.5°	45.4	44.6	40.9	36.4	31.6	29.0	27.5	26.9	25.7	24.9	24.8
85°	24.2	23.1	19.1	16.6	15.9	15.2	14.8	14.8	13.4	13.0	13.0
87.5°	8.1	6.7	6.6	5.9	6.2	5.9	6.6	6.3	6.3	6.7	6.2
90°	1.7	2.9	4.1	5.3	6.7	8.2	9.8	11.3	12.9	13.4	13.9
92.5°	13.9	14.6	15.5	16.3	17.2	18.0	18.9	19.8	20.6	21.0	21.4
95°	32.5	33.4	34.2	35.1	36.0	36.9	37.9	38.8	39.8	40.2	40.7
97.5°	56.9	57.6	58.2	58.8	59.5	60.1	60.9	61.5	62.3	62.8	63.3
100°	73.8	74.6	75.3	76.0	76.6	77.2	77.9	78.4	79.0	79.4	79.7
102.5°	92.9	93.3	93.8	94.2	94.8	95.6	96.4	97.2	97.9	98.3	98.7
105°	121.2	121.4	121.7	122.0	122.5	123.7	124.7	125.8	126.9	126.9	126.9
107.5°	154.2	154.4	154.5	154.7	155.0	155.3	155.8	156.3	156.7	157.0	157.4
110°	174.9	175.2	175.4	175.7	175.9	176.2	176.4	176.6	176.9	177.4	177.9





TEST NUMBER: P332277-830

CATALOG NUMBER: S123RDIP-S560D585U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	196.3	196.5	196.6	196.8	196.9	197.0	197.0	197.1	197.1	197.7	198.2
115°	228.8	229.2	229.6	229.9	230.0	229.7	229.5	229.2	229.0	229.1	229.2
117.5°	261.2	261.5	261.6	261.9	261.8	261.6	261.3	261.0	260.6	260.6	260.6
120°	281.9	282.6	283.3	284.1	284.1	283.5	283.0	282.3	281.7	281.6	281.4
122.5°	302.7	303.3	303.8	304.3	304.4	304.2	303.9	303.5	303.2	302.9	302.6
125°	334.8	335.1	335.5	335.8	335.9	335.6	335.5	335.2	335.0	334.4	333.9
127.5°	364.9	365.6	366.4	367.1	367.4	367.1	366.8	366.6	366.4	365.7	365.0
130°	384.8	385.8	386.7	387.7	388.0	387.7	387.3	386.9	386.5	386.1	385.6
132.5°	404.6	405.6	406.5	407.5	407.8	407.6	407.3	407.0	406.8	406.1	405.6
135°	434.6	435.3	436.0	436.7	437.1	436.9	436.8	436.7	436.6	436.1	435.5
137.5°	462.4	463.0	463.6	464.2	464.7	465.0	465.2	465.6	465.9	465.4	464.9
140°	481.7	482.4	483.0	483.5	483.9	484.0	484.2	484.3	484.4	484.3	484.2
142.5°	499.4	500.0	500.6	501.1	501.6	501.8	502.0	502.3	502.5	502.4	502.2
145°	526.6	526.8	527.1	527.3	527.5	527.9	528.3	528.7	529.0	528.9	528.8
147.5°	550.8	551.3	551.7	552.1	552.5	552.9	553.2	553.6	553.8	553.8	553.8
150°	567.4	567.7	567.9	568.2	568.4	568.6	568.8	569.1	569.3	569.3	569.3
152.5°	581.3	581.6	581.9	582.3	582.5	582.7	582.8	583.0	583.1	583.2	583.5
155°	602.7	602.7	602.7	602.7	602.8	602.9	602.9	603.1	603.2	603.7	604.2
157.5°	621.0	620.9	620.8	620.6	620.6	620.7	620.8	620.9	620.9	621.4	622.0
160°	632.5	632.3	632.1	631.8	631.7	631.7	631.7	631.7	631.7	632.3	632.9
162.5°	642.7	642.4	642.1	641.8	641.7	641.8	641.9	642.0	642.1	642.6	643.2
165°	656.1	655.7	655.3	655.0	654.8	654.8	654.8	654.8	654.8	655.5	656.3
167.5°	666.6	666.1	665.6	665.2	665.0	665.1	665.2	665.2	665.3	666.1	666.8
170°	672.6	672.1	671.7	671.2	670.9	670.9	670.9	670.9	670.9	671.8	672.6
172.5°	677.3	676.8	676.4	675.9	675.7	675.7	675.7	675.7	675.7	676.5	677.1
175°	682.3	681.8	681.4	680.9	680.6	680.6	680.6	680.6	680.6	681.4	682.0
177.5°	684.5	684.1	683.6	683.2	683.1	683.1	683.1	683.1	683.1	683.6	684.3
180°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	843.3	843.3	843.3	843.3	843.3	843.3	843.3
2.5°	889.6	889.6	890.7	895.0	895.6	899.4	898.1
5°	977.6	984.5	987.0	997.9	1004.4	1007.2	1001.5
7.5°	1085.3	1104.7	1113.9	1125.2	1135.2	1138.3	1130.4
10°	1163.9	1184.1	1201.1	1211.5	1221.3	1227.8	1236.1
12.5°	1239.8	1264.7	1280.8	1295.6	1305.6	1313.9	1315.2
15°	1322.4	1359.9	1388.5	1409.4	1419.8	1425.3	1423.1
17.5°	1405.6	1440.4	1460.8	1482.1	1496.6	1497.3	1497.8
20°	1452.7	1486.7	1510.1	1526.0	1542.3	1541.5	1545.1
22.5°	1484.2	1510.9	1528.9	1540.4	1546.0	1543.2	1544.0
25°	1498.9	1506.8	1503.6	1485.2	1480.5	1463.6	1466.4
27.5°	1423.0	1385.4	1346.6	1296.6	1257.2	1225.7	1227.3
30°	1319.8	1253.4	1177.6	1114.1	1057.1	1041.1	1007.2
32.5°	1175.7	1076.1	987.3	928.1	879.1	865.8	836.2
35°	931.4	834.6	743.3	688.4	666.8	636.5	636.1
37.5°	724.0	638.8	590.5	549.3	527.7	509.3	507.6
40°	609.1	542.6	506.1	476.5	455.2	441.5	438.3
42.5°	528.8	475.0	440.8	422.5	406.1	399.1	393.8
45°	431.8	395.7	371.8	355.2	347.6	342.2	339.3
47.5°	361.2	337.0	320.7	309.7	303.5	297.8	299.4
50°	322.7	302.9	291.0	280.5	275.8	271.8	272.2
52.5°	291.8	274.0	264.4	256.8	251.0	248.2	246.8
55°	247.7	236.5	226.7	221.3	218.0	214.1	213.0
57.5°	211.2	202.6	194.6	188.5	187.8	183.9	184.4
60°	187.0	179.7	173.2	170.0	167.5	164.3	165.3
62.5°	167.1	161.0	155.0	152.4	149.9	147.5	148.0
65°	136.9	131.0	127.4	126.0	124.9	123.9	122.7
67.5°	109.1	105.5	103.2	100.1	97.9	97.6	96.4
70°	91.7	87.0	83.0	79.1	77.9	77.6	77.9
72.5°	73.5	70.5	69.5	67.5	67.3	66.4	67.0
75°	55.2	54.2	53.4	52.0	52.0	52.0	52.0
77.5°	40.7	40.1	39.7	39.3	39.0	38.5	38.5
80°	31.8	31.4	30.7	30.7	30.3	30.7	30.3
82.5°	23.9	23.9	23.2	23.2	22.8	22.6	22.8
85°	12.3	11.9	12.6	11.9	12.3	11.6	12.3
87.5°	6.3	6.4	6.2	6.2	6.0	6.6	6.1
90°	14.3	14.8	15.2	15.5	15.6	15.9	16.1
92.5°	21.8	22.1	22.3	22.1	22.0	21.9	21.7
95°	41.2	41.7	41.9	41.9	41.9	41.9	41.9
97.5°	63.9	64.5	64.7	64.7	64.6	64.6	64.5
100°	80.1	80.5	80.8	81.0	81.2	81.4	81.7
102.5°	99.1	99.3	99.5	99.5	99.4	99.4	99.3
105°	126.9	126.9	127.0	127.2	127.4	127.7	128.0
107.5°	157.8	158.2	158.3	158.2	158.1	157.9	157.8
110°	178.3	178.8	178.9	178.7	178.4	178.2	178.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	198.8	199.3	199.6	199.6	199.5	199.5	199.4
115°	229.4	229.5	229.5	229.4	229.2	229.1	229.0
117.5°	260.5	260.5	260.3	260.0	259.7	259.4	259.0
120°	281.3	281.3	281.1	280.8	280.6	280.3	280.1
122.5°	302.3	302.0	301.6	301.3	301.0	300.7	300.3
125°	333.5	333.0	332.5	332.1	331.6	331.1	330.6
127.5°	364.3	363.6	363.1	362.5	361.9	361.4	360.8
130°	385.1	384.7	384.0	383.1	382.3	381.4	380.6
132.5°	405.0	404.4	403.9	403.2	402.6	401.9	401.2
135°	435.1	434.6	434.2	434.0	433.8	433.6	433.3
137.5°	464.4	463.9	463.4	463.0	462.5	462.0	461.6
140°	484.0	483.9	483.4	482.6	481.7	480.9	480.1
142.5°	502.1	502.0	501.6	501.0	500.3	499.6	499.0
145°	528.7	528.6	528.2	527.7	527.3	526.8	526.3
147.5°	553.8	553.8	553.5	552.8	552.0	551.4	550.6
150°	569.3	569.3	569.0	568.3	567.5	566.8	566.1
152.5°	583.7	583.9	583.6	583.1	582.4	581.8	581.2
155°	604.6	605.1	604.9	604.1	603.2	602.5	601.6
157.5°	622.5	622.9	622.8	622.2	621.5	620.9	620.2
160°	633.5	634.0	634.1	633.7	633.2	632.7	632.3
162.5°	643.9	644.4	644.3	643.6	642.8	642.1	641.3
165°	657.0	657.7	657.6	656.8	655.9	655.2	654.3
167.5°	667.6	668.4	668.4	667.6	666.8	666.1	665.3
170°	673.4	674.3	674.3	673.4	672.6	671.8	670.9
172.5°	677.9	678.6	678.6	677.8	676.9	676.1	675.2
175°	682.8	683.5	683.4	682.6	681.7	680.9	680.0
177.5°	684.9	685.4	685.3	684.7	684.0	683.3	682.7
180°	684.4	684.4	684.4	684.4	684.4	684.4	684.4

(END OF REPORT)