

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: P332284

Luminaire Tested: **S123RDIP-S560D805U835-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332284  
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-S560D805U835-4F0-1E-UDD-A4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 805 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5136.5 lumens  
Efficiency: N/A  
Efficacy: 133.8 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

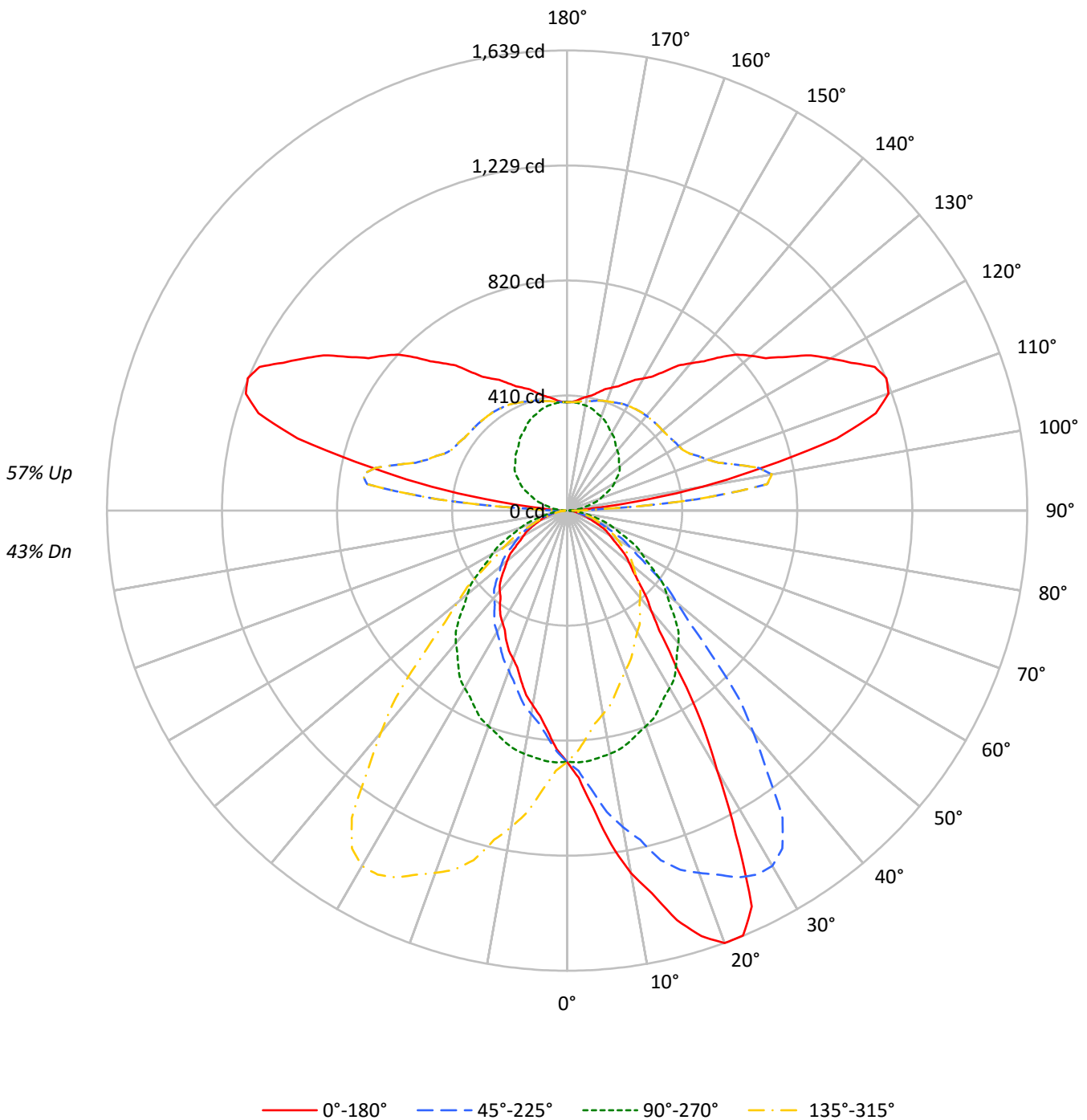
Input Watts (W): 38.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	43
1	97	93	89	86	88	85	82	79	71	68	66	57	56	54	45	44	43	38
2	89	82	76	71	81	75	70	66	62	59	56	51	48	46	40	39	37	32
3	81	72	65	60	74	66	60	55	55	51	47	45	42	40	36	34	32	28
4	74	64	57	51	68	59	52	47	50	45	41	41	37	34	33	30	28	24
5	68	57	50	44	62	53	46	41	45	39	35	37	33	30	30	27	25	21
6	63	52	44	38	58	48	41	36	40	35	31	33	30	27	27	24	22	19
7	58	47	39	34	53	43	36	32	37	31	28	30	27	24	25	22	20	17
8	54	42	35	30	50	39	33	28	33	28	25	28	24	21	23	20	18	15
9	51	39	31	27	46	36	29	25	31	26	22	26	22	19	21	18	16	14
10	47	36	29	24	43	33	27	23	28	23	20	24	20	17	20	17	15	13

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

	0°	90°	180°	270°
0°	9630	9630	9630	9630
5°	11480	9672	8518	9672
10°	14335	9616	7695	9616
15°	16826	9518	7017	9518
20°	18778	9371	6441	9371
25°	18478	9216	6087	9216
30°	13282	9073	5722	9073
35°	8868	8888	5486	8888
40°	6534	8665	5243	8665
45°	5480	8273	5002	8273
50°	4836	7762	4669	7762
55°	4241	7174	4211	7174
60°	3776	6613	3860	6613
65°	3316	6008	3591	6008
70°	2603	5473	3279	5473
75°	2296	4779	2994	4779
80°	1996	4060	2944	4060
85°	1606	3260	3125	3260



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.0	1.7
10°-20°	274.9	5.4
20°-30°	431.9	8.4
30°-40°	450.6	8.8
40°-50°	385.6	7.5
50°-60°	293.9	5.7
60°-70°	188.4	3.7
70°-80°	90.6	1.8
80°-90°	27.0	0.5
90°-100°	214.9	4.2
100°-110°	608.6	11.8
110°-120°	598.7	11.7
120°-130°	477.5	9.3
130°-140°	376.5	7.3
140°-150°	281.0	5.5
150°-160°	195.9	3.8
160°-170°	115.1	2.2
170°-180°	37.4	0.7
0°-30°	794.7	15.5
0°-40°	1245.3	24.2
0°-60°	1924.8	37.5
0°-90°	2230.7	43.4
90°-120°	1422.2	27.7
90°-150°	2557.3	49.8
90°-180°	2906.0	56.6
0°-180°	5136.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	895	895	895	895	895	
5°	1062	895	788	895	1062	110
15°	1510	854	630	854	1510	428
25°	1556	776	512	776	1556	669
35°	675	676	418	676	675	442
45°	360	544	329	544	360	283
55°	226	382	224	382	226	204
65°	130	236	141	236	130	128
75°	55	115	72	115	55	59
85°	13	26	25	26	13	16
90°	23	2	23	2	23	12
95°	91	27	91	27	91	163
105°	994	91	994	91	994	981
115°	1210	160	1210	160	1210	1175
125°	954	223	954	223	954	864
135°	773	261	773	261	773	600
145°	604	298	604	298	604	384
155°	501	338	501	338	501	234
165°	437	370	437	370	437	125
175°	393	385	393	385	393	38
180°	386	386	386	386	386	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7
2.5°	952.9	954.2	950.2	949.6	945.0	943.8	943.8	937.3	933.3	928.1	925.1
5°	1062.5	1068.6	1065.6	1058.7	1047.2	1044.5	1037.2	1025.7	1012.7	996.6	989.0
7.5°	1199.3	1207.7	1204.4	1193.8	1181.8	1172.0	1151.5	1132.4	1105.7	1082.3	1062.2
10°	1311.5	1302.6	1295.8	1285.4	1274.3	1256.3	1234.9	1205.4	1171.3	1144.5	1114.6
12.5°	1395.4	1394.0	1385.2	1374.6	1358.9	1341.8	1315.4	1279.5	1239.9	1201.1	1167.0
15°	1509.9	1512.2	1506.4	1495.3	1473.1	1442.8	1403.0	1388.1	1331.4	1289.2	1247.1
17.5°	1589.1	1588.6	1587.8	1572.4	1549.8	1528.2	1491.3	1452.0	1400.7	1341.3	1284.6
20°	1639.3	1635.5	1636.3	1619.0	1602.2	1577.3	1541.3	1484.2	1442.1	1373.5	1314.9
22.5°	1638.1	1637.3	1640.2	1634.3	1622.1	1603.0	1574.7	1526.5	1472.7	1403.5	1337.6
25°	1555.8	1552.8	1570.8	1575.7	1595.3	1598.7	1590.3	1563.9	1512.9	1441.7	1360.1
27.5°	1302.1	1300.4	1333.8	1375.6	1428.7	1469.9	1509.7	1528.9	1512.9	1461.9	1380.2
30°	1068.6	1104.6	1121.5	1182.0	1249.4	1329.8	1400.3	1467.3	1483.8	1461.6	1394.6
32.5°	887.2	918.6	932.7	984.7	1047.5	1141.7	1247.4	1342.3	1409.4	1426.4	1386.0
35°	674.9	675.3	707.4	730.4	788.6	885.5	988.2	1115.3	1241.7	1337.5	1347.5
37.5°	538.5	540.4	559.9	582.8	626.5	677.7	768.1	873.8	1019.8	1166.8	1253.0
40°	465.0	468.4	483.0	505.6	537.0	575.7	646.2	745.7	867.5	1031.1	1164.8
42.5°	417.8	423.4	430.9	448.3	467.7	504.0	561.0	637.9	748.6	903.3	1057.5
45°	360.0	363.1	368.8	376.9	394.5	419.8	458.1	509.8	601.7	726.2	880.6
47.5°	317.6	316.0	322.0	328.6	340.3	357.5	383.2	425.4	491.0	590.8	721.8
50°	288.8	288.4	292.6	297.6	308.7	321.4	342.4	374.2	426.3	509.0	628.9
52.5°	261.8	263.3	266.3	272.5	280.5	290.7	309.6	332.5	377.3	448.7	548.6
55°	226.0	227.1	231.3	234.8	240.5	250.9	262.8	281.9	312.5	362.3	444.7
57.5°	195.6	195.1	199.2	200.0	206.5	214.9	224.1	239.0	261.2	298.2	353.7
60°	175.4	174.3	177.7	180.4	183.8	190.7	198.4	213.0	230.6	257.8	305.3
62.5°	157.0	156.5	159.0	161.7	164.5	170.8	177.3	188.4	202.4	225.3	263.0
65°	130.2	131.4	132.5	133.7	135.2	139.0	145.2	152.8	162.4	178.5	205.7
67.5°	102.3	103.5	103.9	106.2	109.5	111.9	115.7	122.5	129.2	142.7	158.2
70°	82.7	82.3	82.7	83.9	88.1	92.3	97.3	102.3	106.5	116.1	129.1
72.5°	71.1	70.4	71.4	71.6	73.7	74.8	78.0	82.7	88.1	94.6	104.0
75°	55.2	55.2	55.2	55.2	56.7	57.5	58.6	59.8	61.7	64.7	71.6
77.5°	40.8	40.8	41.4	41.7	42.1	42.5	43.2	44.4	45.0	46.7	49.6
80°	32.2	32.6	32.2	32.6	32.6	33.3	33.7	34.9	35.2	37.2	38.3
82.5°	24.2	24.0	24.2	24.6	24.6	25.4	25.4	26.3	26.4	27.3	28.5
85°	13.0	12.3	13.0	12.6	13.4	12.6	13.0	13.8	13.8	14.2	15.7
87.5°	7.6	8.4	7.6	7.7	7.9	7.9	7.7	7.6	8.0	7.9	7.7
90°	22.7	23.5	22.7	21.9	22.7	21.1	20.3	19.5	18.8	19.5	17.2
92.5°	37.7	39.1	38.3	40.7	42.1	46.1	52.2	65.8	90.7	120.2	132.3
95°	90.7	93.8	99.3	106.3	121.2	149.3	190.8	281.5	376.1	463.6	412.8
97.5°	246.9	253.6	274.7	309.9	367.6	461.1	562.0	701.6	768.7	718.5	526.0
100°	490.2	489.4	519.9	577.0	655.9	767.0	858.4	921.8	894.4	740.4	500.4
102.5°	719.1	737.1	762.6	807.8	869.2	939.6	992.9	994.9	900.7	699.7	462.8
105°	994.5	998.4	1023.4	1053.1	1089.1	1109.4	1094.5	1016.4	853.0	628.6	416.7
107.5°	1153.0	1160.2	1168.7	1178.7	1178.0	1150.2	1081.7	954.8	769.5	565.7	387.3
110°	1218.1	1219.6	1221.2	1214.9	1193.1	1138.3	1039.8	896.0	716.9	530.1	376.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1231.2	1230.9	1225.0	1205.6	1165.5	1095.2	984.8	837.8	671.3	506.3	369.8
115°	1209.5	1205.6	1189.9	1155.5	1096.9	1011.7	896.7	760.7	616.1	480.8	367.5
117.5°	1140.4	1135.0	1112.5	1073.1	1012.0	925.5	822.3	704.9	582.8	465.8	368.9
120°	1082.8	1078.1	1059.4	1015.6	953.8	874.9	781.0	675.5	565.3	458.9	371.4
122.5°	1029.0	1023.1	1002.4	963.0	908.2	834.8	747.9	652.4	550.9	454.6	375.7
125°	953.8	948.3	928.8	894.4	844.4	781.8	706.8	621.5	532.4	448.8	382.3
127.5°	891.9	886.9	869.2	839.8	795.3	738.4	670.6	594.7	516.2	446.0	389.8
130°	856.9	850.6	834.2	806.1	764.6	711.5	648.1	577.8	507.4	444.1	394.8
132.5°	822.5	818.1	803.6	775.4	736.5	685.8	626.9	562.1	499.3	443.4	398.6
135°	773.2	767.7	753.7	730.2	691.9	647.3	596.5	541.0	488.6	442.5	404.2
137.5°	721.2	717.6	705.7	681.9	649.7	611.1	567.3	521.8	479.4	440.8	408.0
140°	684.9	685.7	673.1	651.3	621.5	587.9	550.4	510.5	473.8	440.2	410.5
142.5°	651.1	651.9	640.6	621.2	595.9	566.7	534.1	499.9	468.8	438.9	412.3
145°	604.3	602.8	596.5	580.1	560.6	537.9	512.9	487.1	462.1	437.0	413.6
147.5°	565.9	565.3	559.3	548.2	533.4	517.3	497.1	476.6	455.5	434.1	413.6
150°	543.4	543.4	538.7	530.1	518.3	503.5	487.1	469.1	451.1	431.6	413.6
152.5°	524.6	524.6	521.8	513.8	504.6	492.2	477.7	462.2	446.1	428.4	411.7
155°	501.1	500.4	498.8	492.5	485.5	476.1	464.4	451.9	438.6	423.0	409.7
157.5°	479.7	479.9	478.6	473.9	467.8	460.5	451.4	440.9	430.2	418.1	407.0
160°	466.0	466.7	466.7	462.1	456.6	451.1	443.3	434.7	424.5	414.4	405.8
162.5°	453.5	454.2	454.2	450.2	446.6	441.7	434.5	427.2	418.9	410.6	403.3
165°	437.0	437.0	437.8	434.7	431.6	427.7	422.2	417.5	411.2	405.0	399.5
167.5°	421.4	421.4	422.2	420.0	418.6	415.8	412.6	409.0	403.9	399.4	395.8
170°	412.0	412.0	412.8	411.2	410.5	408.9	405.8	403.4	399.5	395.6	393.3
172.5°	403.3	403.9	405.3	403.7	403.6	402.6	400.1	398.4	395.1	392.5	391.4
175°	393.3	394.0	394.8	394.0	394.0	394.0	392.5	391.7	390.1	388.6	388.6
177.5°	387.5	387.5	388.7	388.1	388.7	388.7	388.1	387.5	386.8	386.2	386.8
180°	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7
2.5°	923.8	922.9	918.6	913.7	907.3	903.0	899.6	897.8	892.3	885.5	880.9
5°	980.9	969.4	957.2	942.2	928.4	914.3	905.5	895.1	882.5	868.3	858.3
7.5°	1042.0	1019.5	995.2	970.2	945.4	923.2	903.6	886.8	866.7	846.4	832.1
10°	1088.9	1056.0	1021.9	987.0	955.2	925.4	902.4	879.8	855.7	832.3	814.7
12.5°	1131.5	1088.2	1048.9	1006.0	965.4	929.7	896.6	870.0	841.0	816.1	796.0
15°	1185.4	1141.0	1093.5	1028.4	974.4	929.2	889.0	854.1	818.9	788.3	768.7
17.5°	1235.8	1169.0	1105.2	1050.8	980.7	924.2	875.1	833.4	794.8	762.3	738.2
20°	1256.7	1192.0	1122.6	1053.3	984.4	921.2	864.1	818.1	777.9	741.1	718.9
22.5°	1269.2	1195.9	1122.9	1048.4	975.2	909.5	853.1	802.5	758.9	724.0	696.6
25°	1283.9	1196.5	1116.1	1042.6	967.9	896.6	829.6	776.0	728.9	691.7	662.6
27.5°	1293.5	1190.8	1095.7	1014.0	938.2	867.3	805.9	749.0	701.2	661.9	630.7
30°	1295.4	1186.2	1080.1	991.6	914.6	849.5	784.4	730.0	679.5	637.7	608.6
32.5°	1297.8	1174.9	1059.0	965.0	886.2	821.7	762.7	710.7	658.9	617.8	588.1
35°	1287.7	1168.6	1026.9	918.9	840.0	777.5	724.3	676.4	625.5	585.6	555.4
37.5°	1244.2	1143.7	993.6	866.9	784.4	726.6	683.2	641.5	594.8	551.8	523.3
40°	1200.4	1119.2	967.9	835.4	749.2	689.8	650.7	616.7	571.5	531.2	500.6
42.5°	1135.1	1085.8	943.4	802.3	709.3	652.1	619.2	587.2	547.6	506.7	477.9
45°	1015.4	1021.9	893.2	749.6	654.2	596.7	565.7	543.5	508.3	474.6	445.1
47.5°	865.2	926.1	834.3	693.4	596.1	542.1	515.0	495.6	471.9	438.8	411.9
50°	767.2	854.1	787.1	655.7	559.6	506.0	479.2	463.5	442.8	416.7	391.1
52.5°	676.8	770.2	730.1	613.7	520.1	471.0	444.8	431.9	415.5	391.0	367.8
55°	551.9	646.5	637.3	550.4	460.8	416.7	396.8	382.3	371.1	352.8	334.4
57.5°	446.4	536.1	540.9	479.9	408.5	365.0	347.9	336.9	329.6	315.8	298.8
60°	380.0	462.3	478.4	432.4	371.1	332.8	316.0	307.2	301.4	290.3	277.3
62.5°	324.8	394.9	413.1	380.0	335.3	299.4	286.3	277.8	273.9	264.3	252.8
65°	248.6	306.8	324.4	306.0	282.7	253.9	243.2	235.9	232.5	227.1	218.7
67.5°	186.9	229.4	248.7	235.7	227.3	209.1	202.3	198.4	195.3	191.7	184.6
70°	150.1	181.6	201.5	198.0	191.1	181.6	176.6	173.9	170.8	167.8	161.6
72.5°	120.7	142.3	161.0	162.8	157.1	155.2	150.8	149.7	147.8	144.2	140.8
75°	80.1	95.0	108.0	113.0	115.3	117.2	115.3	114.9	114.5	111.5	109.5
77.5°	52.5	60.5	68.7	77.2	80.8	83.4	84.0	85.4	84.4	82.8	81.9
80°	40.2	42.1	47.9	55.2	60.9	63.2	64.7	65.5	65.1	64.7	63.2
82.5°	29.2	30.8	33.5	38.6	43.4	47.3	48.2	48.0	48.9	49.1	47.9
85°	15.7	16.1	16.9	17.6	20.3	24.5	25.7	26.4	27.2	27.2	24.9
87.5°	7.9	7.1	7.2	6.9	7.5	7.4	8.9	10.1	10.7	9.8	10.3
90°	14.9	12.5	10.2	8.6	7.0	4.7	3.1	1.6	3.1	4.7	7.0
92.5°	99.3	65.7	45.2	33.6	27.1	21.0	14.4	9.7	14.4	21.0	27.1
95°	284.6	168.1	101.6	71.1	50.8	37.5	28.9	26.6	28.9	37.5	50.8
97.5°	312.3	180.9	117.4	84.4	64.4	52.9	46.1	45.3	46.1	52.9	64.4
100°	294.7	179.0	124.3	93.8	75.1	64.1	58.6	57.9	58.6	64.1	75.1
102.5°	279.7	181.5	132.4	104.5	87.6	77.2	72.4	71.0	72.4	77.2	87.6
105°	268.9	188.4	146.2	122.0	107.1	97.7	93.0	90.7	93.0	97.7	107.1
107.5°	268.2	201.2	164.2	141.7	127.7	118.5	114.0	111.6	114.0	118.5	127.7
110°	271.3	211.9	176.7	154.8	141.5	132.9	129.0	126.7	129.0	132.9	141.5





TEST NUMBER: P332284

CATALOG NUMBER: S123RDIP-S560D805U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	277.5	222.5	189.8	168.6	155.3	146.7	142.8	140.4	142.8	146.7	155.3
115°	287.7	240.0	210.3	189.2	175.9	168.1	163.4	160.3	163.4	168.1	175.9
117.5°	301.2	258.6	229.2	209.7	194.8	187.6	183.7	180.1	183.7	187.6	194.8
120°	311.2	270.5	242.4	222.8	208.0	200.1	196.2	193.9	196.2	200.1	208.0
122.5°	320.5	283.0	255.5	234.7	220.5	212.0	208.1	205.8	208.1	212.0	220.5
125°	335.4	301.0	273.6	252.5	237.7	229.1	224.4	222.8	224.4	229.1	237.7
127.5°	347.6	316.6	290.2	269.1	252.7	243.9	238.1	235.8	238.1	243.9	252.7
130°	355.7	326.0	300.2	279.1	262.7	253.3	246.3	243.9	246.3	253.3	262.7
132.5°	363.2	334.1	309.0	288.5	272.1	260.8	253.2	250.2	253.2	260.8	272.1
135°	372.9	346.3	322.1	301.0	284.6	272.9	264.3	261.1	264.3	272.9	284.6
137.5°	380.1	354.8	331.5	311.9	295.7	283.2	274.7	271.4	274.7	283.2	295.7
140°	383.9	360.4	337.7	318.2	302.6	290.1	282.2	278.3	282.2	290.1	302.6
142.5°	387.6	364.8	342.7	324.5	308.8	297.6	289.1	285.8	289.1	297.6	308.8
145°	391.7	370.6	350.3	332.3	319.0	307.3	300.2	297.9	300.2	307.3	319.0
147.5°	394.2	375.3	356.7	341.3	328.5	318.4	311.5	310.1	311.5	318.4	328.5
150°	394.8	378.4	360.4	346.3	335.4	325.2	319.0	318.2	319.0	325.2	335.4
152.5°	396.1	380.3	364.8	351.3	341.7	332.7	326.5	326.3	326.5	332.7	341.7
155°	396.4	383.9	370.6	359.6	351.0	343.2	338.5	338.5	338.5	343.2	351.0
157.5°	397.2	385.9	375.3	366.8	359.5	352.6	348.8	348.2	348.8	352.6	359.5
160°	397.2	387.8	378.4	370.6	365.1	358.9	355.7	355.7	355.7	358.9	365.1
162.5°	396.5	388.4	380.3	373.7	368.9	363.9	361.4	361.4	361.4	363.9	368.9
165°	394.8	389.3	383.1	377.6	374.5	370.6	369.0	369.8	369.0	370.6	374.5
167.5°	393.6	389.2	384.7	381.2	379.0	376.1	375.3	376.2	375.3	376.1	379.0
170°	391.7	388.6	384.7	383.1	381.5	379.2	378.4	380.0	378.4	379.2	381.5
172.5°	391.1	388.6	385.3	384.3	383.4	381.7	381.5	382.5	381.5	381.7	383.4
175°	389.3	387.8	386.2	385.4	385.4	383.9	384.7	385.4	384.7	383.9	385.4
177.5°	388.1	386.8	386.2	386.2	386.2	385.6	386.2	386.8	386.2	385.6	386.2
180°	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2



TEST NUMBER: P332284

CATALOG NUMBER: S123RDIP-S560D805U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7
2.5°	879.4	875.4	872.7	866.5	862.6	858.3	854.0	856.7	856.4	856.1	856.1
5°	849.9	841.1	833.1	822.7	816.2	808.2	802.0	801.3	802.8	797.4	794.4
7.5°	820.7	808.6	797.2	785.8	773.7	764.0	758.0	755.2	751.3	748.0	744.5
10°	800.1	786.0	774.8	760.7	747.7	736.2	728.9	723.9	721.2	718.5	713.6
12.5°	779.0	765.1	750.9	734.9	722.5	709.2	703.8	698.2	693.0	690.0	683.2
15°	748.0	730.0	715.1	698.2	684.5	671.4	663.8	652.7	651.1	647.3	640.4
17.5°	717.0	697.5	676.9	664.4	648.8	635.3	623.6	619.9	608.9	604.8	598.8
20°	692.5	674.5	658.8	642.3	619.7	607.1	597.9	592.9	584.1	578.7	574.9
22.5°	671.4	653.0	634.9	615.7	597.0	582.9	576.1	568.4	563.6	556.1	551.9
25°	641.2	621.3	599.4	578.7	565.3	554.6	543.9	537.0	530.1	526.6	519.0
27.5°	606.1	585.3	564.9	549.2	532.7	522.1	512.4	506.3	498.0	492.2	488.0
30°	586.8	562.3	544.7	530.5	509.4	499.5	492.2	484.5	478.4	472.3	468.0
32.5°	564.4	542.0	525.3	507.8	491.6	480.8	471.3	464.6	459.4	453.6	449.4
35°	529.3	510.6	493.3	475.7	463.8	452.7	441.6	435.9	430.9	425.5	421.7
37.5°	497.6	480.1	463.7	447.0	432.3	423.2	414.3	409.9	403.2	399.6	395.7
40°	478.0	460.8	443.2	427.1	411.7	404.9	396.8	390.3	384.2	381.5	377.3
42.5°	456.6	439.3	424.5	407.1	394.6	385.2	377.8	370.7	366.1	362.2	359.8
45°	424.8	409.4	394.9	377.7	365.8	357.7	349.3	342.8	338.6	335.9	331.7
47.5°	393.9	378.6	363.8	348.8	337.3	328.1	319.7	315.1	309.6	306.3	303.4
50°	371.5	357.7	342.0	328.2	316.8	307.6	300.7	294.9	289.9	285.7	283.8
52.5°	351.0	336.3	322.7	309.9	297.8	287.3	281.1	275.0	271.3	266.4	264.2
55°	317.1	303.0	291.5	278.8	267.0	258.2	250.5	245.1	241.3	235.9	232.9
57.5°	285.3	272.6	258.9	248.0	235.7	228.3	221.9	214.6	210.0	205.8	202.8
60°	263.9	249.3	237.5	227.1	216.4	206.8	201.1	195.3	190.4	186.1	183.5
62.5°	241.5	228.8	217.6	206.3	196.5	188.1	181.5	176.6	172.3	169.6	166.9
65°	207.2	197.3	185.8	176.6	167.4	161.3	155.9	151.7	148.6	146.7	144.4
67.5°	175.7	166.0	156.0	146.9	140.8	136.1	132.6	129.0	127.5	125.0	123.5
70°	155.1	145.2	136.4	129.5	123.3	119.9	117.6	114.9	113.4	110.3	108.8
72.5°	132.8	125.6	119.2	113.5	108.6	105.5	102.6	99.3	96.8	93.5	91.9
75°	104.6	98.1	93.1	89.2	86.2	82.0	77.8	74.3	73.2	72.0	71.6
77.5°	77.4	73.3	69.7	66.5	62.7	59.6	58.7	57.9	57.7	57.1	57.1
80°	60.9	57.1	54.4	50.6	48.3	48.3	48.3	47.5	47.9	47.9	47.9
82.5°	45.3	41.7	40.3	38.9	38.5	38.8	38.8	38.9	38.7	39.3	39.0
85°	23.4	23.7	24.5	24.1	24.5	24.5	25.3	24.9	25.3	24.5	25.3
87.5°	10.3	11.5	12.3	13.1	13.9	14.0	14.2	14.3	14.8	14.9	15.3
90°	8.6	10.2	12.5	14.9	17.2	19.5	18.8	19.5	20.3	21.1	22.7
92.5°	33.6	45.2	65.7	99.3	132.3	120.2	90.7	65.8	52.2	46.1	42.1
95°	71.1	101.6	168.1	284.6	412.8	463.6	376.1	281.5	190.8	149.3	121.2
97.5°	84.4	117.4	180.9	312.3	526.0	718.5	768.7	701.6	562.0	461.1	367.6
100°	93.8	124.3	179.0	294.7	500.4	740.4	894.4	921.8	858.4	767.0	655.9
102.5°	104.5	132.4	181.5	279.7	462.8	699.7	900.7	994.9	992.9	939.6	869.2
105°	122.0	146.2	188.4	268.9	416.7	628.6	853.0	1016.4	1094.5	1109.4	1089.1
107.5°	141.7	164.2	201.2	268.2	387.3	565.7	769.5	954.8	1081.7	1150.2	1178.0
110°	154.8	176.7	211.9	271.3	376.1	530.1	716.9	896.0	1039.8	1138.3	1193.1



TEST NUMBER: P332284

CATALOG NUMBER: S123RDIP-S560D805U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	168.6	189.8	222.5	277.5	369.8	506.3	671.3	837.8	984.8	1095.2	1165.5
115°	189.2	210.3	240.0	287.7	367.5	480.8	616.1	760.7	896.7	1011.7	1096.9
117.5°	209.7	229.2	258.6	301.2	368.9	465.8	582.8	704.9	822.3	925.5	1012.0
120°	222.8	242.4	270.5	311.2	371.4	458.9	565.3	675.5	781.0	874.9	953.8
122.5°	234.7	255.5	283.0	320.5	375.7	454.6	550.9	652.4	747.9	834.8	908.2
125°	252.5	273.6	301.0	335.4	382.3	448.8	532.4	621.5	706.8	781.8	844.4
127.5°	269.1	290.2	316.6	347.6	389.8	446.0	516.2	594.7	670.6	738.4	795.3
130°	279.1	300.2	326.0	355.7	394.8	444.1	507.4	577.8	648.1	711.5	764.6
132.5°	288.5	309.0	334.1	363.2	398.6	443.4	499.3	562.1	626.9	685.8	736.5
135°	301.0	322.1	346.3	372.9	404.2	442.5	488.6	541.0	596.5	647.3	691.9
137.5°	311.9	331.5	354.8	380.1	408.0	440.8	479.4	521.8	567.3	611.1	649.7
140°	318.2	337.7	360.4	383.9	410.5	440.2	473.8	510.5	550.4	587.9	621.5
142.5°	324.5	342.7	364.8	387.6	412.3	438.9	468.8	499.9	534.1	566.7	595.9
145°	332.3	350.3	370.6	391.7	413.6	437.0	462.1	487.1	512.9	537.9	560.6
147.5°	341.3	356.7	375.3	394.2	413.6	434.1	455.5	476.6	497.1	517.3	533.4
150°	346.3	360.4	378.4	394.8	413.6	431.6	451.1	469.1	487.1	503.5	518.3
152.5°	351.3	364.8	380.3	396.1	411.7	428.4	446.1	462.2	477.7	492.2	504.6
155°	359.6	370.6	383.9	396.4	409.7	423.0	438.6	451.9	464.4	476.1	485.5
157.5°	366.8	375.3	385.9	397.2	407.0	418.1	430.2	440.9	451.4	460.5	467.8
160°	370.6	378.4	387.8	397.2	405.8	414.4	424.5	434.7	443.3	451.1	456.6
162.5°	373.7	380.3	388.4	396.5	403.3	410.6	418.9	427.2	434.5	441.7	446.6
165°	377.6	383.1	389.3	394.8	399.5	405.0	411.2	417.5	422.2	427.7	431.6
167.5°	381.2	384.7	389.2	393.6	395.8	399.4	403.9	409.0	412.6	415.8	418.6
170°	383.1	384.7	388.6	391.7	393.3	395.6	399.5	403.4	405.8	408.9	410.5
172.5°	384.3	385.3	388.6	391.1	391.4	392.5	395.1	398.4	400.1	402.6	403.6
175°	385.4	386.2	387.8	389.3	388.6	388.6	390.1	391.7	392.5	394.0	394.0
177.5°	386.2	386.2	386.8	388.1	386.8	386.2	386.8	387.5	388.1	388.7	388.7
180°	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2



TEST NUMBER: P332284

CATALOG NUMBER: S123RDIP-S560D805U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7
2.5°	852.4	852.1	852.4	851.2	852.4	852.1	852.4	856.1	856.1	856.4	856.7
5°	793.2	792.8	791.7	788.3	791.7	792.8	793.2	794.4	797.4	802.8	801.3
7.5°	741.5	741.0	737.6	737.7	737.6	741.0	741.5	744.5	748.0	751.3	755.2
10°	710.9	711.3	706.7	704.0	706.7	711.3	710.9	713.6	718.5	721.2	723.9
12.5°	681.2	679.4	675.7	672.7	675.7	679.4	681.2	683.2	690.0	693.0	698.2
15°	641.9	638.1	628.9	629.7	628.9	638.1	641.9	640.4	647.3	651.1	652.7
17.5°	595.7	592.9	592.8	587.4	592.8	592.9	595.7	598.8	604.8	608.9	619.9
20°	568.8	566.9	567.6	562.3	567.6	566.9	568.8	574.9	578.7	584.1	592.9
22.5°	547.6	545.7	542.5	540.8	542.5	545.7	547.6	551.9	556.1	563.6	568.4
25°	516.7	513.6	510.6	512.5	510.6	513.6	516.7	519.0	526.6	530.1	537.0
27.5°	485.7	483.4	480.4	480.0	480.4	483.4	485.7	488.0	492.2	498.0	506.3
30°	466.1	463.8	462.3	460.4	462.3	463.8	466.1	468.0	472.3	478.4	484.5
32.5°	446.2	445.8	443.0	442.6	443.0	445.8	446.2	449.4	453.6	459.4	464.6
35°	420.2	417.9	417.1	417.5	417.1	417.9	420.2	421.7	425.5	430.9	435.9
37.5°	395.4	392.4	391.0	389.6	391.0	392.4	395.4	395.7	399.6	403.2	409.9
40°	377.7	374.6	373.8	373.1	373.8	374.6	377.7	377.3	381.5	384.2	390.3
42.5°	357.7	356.5	356.1	354.7	356.1	356.5	357.7	359.8	362.2	366.1	370.7
45°	330.5	330.2	327.9	328.6	327.9	330.2	330.5	331.7	335.9	338.6	342.8
47.5°	301.9	300.2	298.6	299.7	298.6	300.2	301.9	303.4	306.3	309.6	315.1
50°	282.3	281.5	278.1	278.8	278.1	281.5	282.3	283.8	285.7	289.9	294.9
52.5°	262.7	259.8	258.5	258.0	258.5	259.8	262.7	264.2	266.4	271.3	275.0
55°	230.2	226.7	225.2	224.4	225.2	226.7	230.2	232.9	235.9	241.3	245.1
57.5°	198.3	197.4	196.2	197.0	196.2	197.4	198.3	202.8	205.8	210.0	214.6
60°	179.6	179.6	179.6	179.3	179.6	179.6	179.6	183.5	186.1	190.4	195.3
62.5°	165.2	164.3	164.0	164.5	164.0	164.3	165.2	166.9	169.6	172.3	176.6
65°	143.2	142.9	141.3	141.0	141.3	142.9	143.2	144.4	146.7	148.6	151.7
67.5°	122.5	121.1	120.7	120.1	120.7	121.1	122.5	123.5	125.0	127.5	129.0
70°	106.9	106.1	103.8	104.2	103.8	106.1	106.9	108.8	110.3	113.4	114.9
72.5°	90.0	89.2	88.8	88.2	88.8	89.2	90.0	91.9	93.5	96.8	99.3
75°	71.2	70.9	70.5	72.0	70.5	70.9	71.2	71.6	72.0	73.2	74.3
77.5°	57.1	57.1	57.3	56.7	57.3	57.1	57.1	57.1	57.1	57.7	57.9
80°	47.9	47.9	47.5	47.5	47.5	47.9	47.9	47.9	47.9	47.9	47.5
82.5°	38.4	38.7	38.9	38.3	38.9	38.7	38.4	39.0	39.3	38.7	38.9
85°	25.3	24.9	25.7	25.3	25.7	24.9	25.3	25.3	24.5	25.3	24.9
87.5°	15.7	15.3	15.4	15.6	15.4	15.3	15.7	15.3	14.9	14.8	14.3
90°	21.9	22.7	23.5	22.7	23.5	22.7	21.9	22.7	21.1	20.3	19.5
92.5°	40.7	38.3	39.1	37.7	39.1	38.3	40.7	42.1	46.1	52.2	65.8
95°	106.3	99.3	93.8	90.7	93.8	99.3	106.3	121.2	149.3	190.8	281.5
97.5°	309.9	274.7	253.6	246.9	253.6	274.7	309.9	367.6	461.1	562.0	701.6
100°	577.0	519.9	489.4	490.2	489.4	519.9	577.0	655.9	767.0	858.4	921.8
102.5°	807.8	762.6	737.1	719.1	737.1	762.6	807.8	869.2	939.6	992.9	994.9
105°	1053.1	1023.4	998.4	994.5	998.4	1023.4	1053.1	1089.1	1109.4	1094.5	1016.4
107.5°	1178.7	1168.7	1160.2	1153.0	1160.2	1168.7	1178.7	1178.0	1150.2	1081.7	954.8
110°	1214.9	1221.2	1219.6	1218.1	1219.6	1221.2	1214.9	1193.1	1138.3	1039.8	896.0



TEST NUMBER: P332284

CATALOG NUMBER: S123RDIP-S560D805U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1205.6	1225.0	1230.9	1231.2	1230.9	1225.0	1205.6	1165.5	1095.2	984.8	837.8
115°	1155.5	1189.9	1205.6	1209.5	1205.6	1189.9	1155.5	1096.9	1011.7	896.7	760.7
117.5°	1073.1	1112.5	1135.0	1140.4	1135.0	1112.5	1073.1	1012.0	925.5	822.3	704.9
120°	1015.6	1059.4	1078.1	1082.8	1078.1	1059.4	1015.6	953.8	874.9	781.0	675.5
122.5°	963.0	1002.4	1023.1	1029.0	1023.1	1002.4	963.0	908.2	834.8	747.9	652.4
125°	894.4	928.8	948.3	953.8	948.3	928.8	894.4	844.4	781.8	706.8	621.5
127.5°	839.8	869.2	886.9	891.9	886.9	869.2	839.8	795.3	738.4	670.6	594.7
130°	806.1	834.2	850.6	856.9	850.6	834.2	806.1	764.6	711.5	648.1	577.8
132.5°	775.4	803.6	818.1	822.5	818.1	803.6	775.4	736.5	685.8	626.9	562.1
135°	730.2	753.7	767.7	773.2	767.7	753.7	730.2	691.9	647.3	596.5	541.0
137.5°	681.9	705.7	717.6	721.2	717.6	705.7	681.9	649.7	611.1	567.3	521.8
140°	651.3	673.1	685.7	684.9	685.7	673.1	651.3	621.5	587.9	550.4	510.5
142.5°	621.2	640.6	651.9	651.1	651.9	640.6	621.2	595.9	566.7	534.1	499.9
145°	580.1	596.5	602.8	604.3	602.8	596.5	580.1	560.6	537.9	512.9	487.1
147.5°	548.2	559.3	565.3	565.9	565.3	559.3	548.2	533.4	517.3	497.1	476.6
150°	530.1	538.7	543.4	543.4	543.4	538.7	530.1	518.3	503.5	487.1	469.1
152.5°	513.8	521.8	524.6	524.6	524.6	521.8	513.8	504.6	492.2	477.7	462.2
155°	492.5	498.8	500.4	501.1	500.4	498.8	492.5	485.5	476.1	464.4	451.9
157.5°	473.9	478.6	479.9	479.7	479.9	478.6	473.9	467.8	460.5	451.4	440.9
160°	462.1	466.7	466.7	466.0	466.7	466.7	462.1	456.6	451.1	443.3	434.7
162.5°	450.2	454.2	454.2	453.5	454.2	454.2	450.2	446.6	441.7	434.5	427.2
165°	434.7	437.8	437.0	437.0	437.0	437.8	434.7	431.6	427.7	422.2	417.5
167.5°	420.0	422.2	421.4	421.4	421.4	422.2	420.0	418.6	415.8	412.6	409.0
170°	411.2	412.8	412.0	412.0	412.0	412.8	411.2	410.5	408.9	405.8	403.4
172.5°	403.7	405.3	403.9	403.3	403.9	405.3	403.7	403.6	402.6	400.1	398.4
175°	394.0	394.8	394.0	393.3	394.0	394.8	394.0	394.0	394.0	392.5	391.7
177.5°	388.1	388.7	387.5	387.5	387.5	388.7	388.1	388.7	388.7	388.1	387.5
180°	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2



TEST NUMBER: P332284

CATALOG NUMBER: S123RDIP-S560D805U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7
2.5°	854.0	858.3	862.6	866.5	872.7	875.4	879.4	880.9	885.5	892.3	897.8
5°	802.0	808.2	816.2	822.7	833.1	841.1	849.9	858.3	868.3	882.5	895.1
7.5°	758.0	764.0	773.7	785.8	797.2	808.6	820.7	832.1	846.4	866.7	886.8
10°	728.9	736.2	747.7	760.7	774.8	786.0	800.1	814.7	832.3	855.7	879.8
12.5°	703.8	709.2	722.5	734.9	750.9	765.1	779.0	796.0	816.1	841.0	870.0
15°	663.8	671.4	684.5	698.2	715.1	730.0	748.0	768.7	788.3	818.9	854.1
17.5°	623.6	635.3	648.8	664.4	676.9	697.5	717.0	738.2	762.3	794.8	833.4
20°	597.9	607.1	619.7	642.3	658.8	674.5	692.5	718.9	741.1	777.9	818.1
22.5°	576.1	582.9	597.0	615.7	634.9	653.0	671.4	696.6	724.0	758.9	802.5
25°	543.9	554.6	565.3	578.7	599.4	621.3	641.2	662.6	691.7	728.9	776.0
27.5°	512.4	522.1	532.7	549.2	564.9	585.3	606.1	630.7	661.9	701.2	749.0
30°	492.2	499.5	509.4	530.5	544.7	562.3	586.8	608.6	637.7	679.5	730.0
32.5°	471.3	480.8	491.6	507.8	525.3	542.0	564.4	588.1	617.8	658.9	710.7
35°	441.6	452.7	463.8	475.7	493.3	510.6	529.3	555.4	585.6	625.5	676.4
37.5°	414.3	423.2	432.3	447.0	463.7	480.1	497.6	523.3	551.8	594.8	641.5
40°	396.8	404.9	411.7	427.1	443.2	460.8	478.0	500.6	531.2	571.5	616.7
42.5°	377.8	385.2	394.6	407.1	424.5	439.3	456.6	477.9	506.7	547.6	587.2
45°	349.3	357.7	365.8	377.7	394.9	409.4	424.8	445.1	474.6	508.3	543.5
47.5°	319.7	328.1	337.3	348.8	363.8	378.6	393.9	411.9	438.8	471.9	495.6
50°	300.7	307.6	316.8	328.2	342.0	357.7	371.5	391.1	416.7	442.8	463.5
52.5°	281.1	287.3	297.8	309.9	322.7	336.3	351.0	367.8	391.0	415.5	431.9
55°	250.5	258.2	267.0	278.8	291.5	303.0	317.1	334.4	352.8	371.1	382.3
57.5°	221.9	228.3	235.7	248.0	258.9	272.6	285.3	298.8	315.8	329.6	336.9
60°	201.1	206.8	216.4	227.1	237.5	249.3	263.9	277.3	290.3	301.4	307.2
62.5°	181.5	188.1	196.5	206.3	217.6	228.8	241.5	252.8	264.3	273.9	277.8
65°	155.9	161.3	167.4	176.6	185.8	197.3	207.2	218.7	227.1	232.5	235.9
67.5°	132.6	136.1	140.8	146.9	156.0	166.0	175.7	184.6	191.7	195.3	198.4
70°	117.6	119.9	123.3	129.5	136.4	145.2	155.1	161.6	167.8	170.8	173.9
72.5°	102.6	105.5	108.6	113.5	119.2	125.6	132.8	140.8	144.2	147.8	149.7
75°	77.8	82.0	86.2	89.2	93.1	98.1	104.6	109.5	111.5	114.5	114.9
77.5°	58.7	59.6	62.7	66.5	69.7	73.3	77.4	81.9	82.8	84.4	85.4
80°	48.3	48.3	48.3	50.6	54.4	57.1	60.9	63.2	64.7	65.1	65.5
82.5°	38.8	38.8	38.5	38.9	40.3	41.7	45.3	47.9	49.1	48.9	48.0
85°	25.3	24.5	24.5	24.1	24.5	23.7	23.4	24.9	27.2	27.2	26.4
87.5°	14.2	14.0	13.9	13.1	12.3	11.5	10.3	10.3	9.8	10.7	10.1
90°	18.8	19.5	17.2	14.9	12.5	10.2	8.6	7.0	4.7	3.1	1.6
92.5°	90.7	120.2	132.3	99.3	65.7	45.2	33.6	27.1	21.0	14.4	9.7
95°	376.1	463.6	412.8	284.6	168.1	101.6	71.1	50.8	37.5	28.9	26.6
97.5°	768.7	718.5	526.0	312.3	180.9	117.4	84.4	64.4	52.9	46.1	45.3
100°	894.4	740.4	500.4	294.7	179.0	124.3	93.8	75.1	64.1	58.6	57.9
102.5°	900.7	699.7	462.8	279.7	181.5	132.4	104.5	87.6	77.2	72.4	71.0
105°	853.0	628.6	416.7	268.9	188.4	146.2	122.0	107.1	97.7	93.0	90.7
107.5°	769.5	565.7	387.3	268.2	201.2	164.2	141.7	127.7	118.5	114.0	111.6
110°	716.9	530.1	376.1	271.3	211.9	176.7	154.8	141.5	132.9	129.0	126.7



TEST NUMBER: P332284

CATALOG NUMBER: S123RDIP-S560D805U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	671.3	506.3	369.8	277.5	222.5	189.8	168.6	155.3	146.7	142.8	140.4
115°	616.1	480.8	367.5	287.7	240.0	210.3	189.2	175.9	168.1	163.4	160.3
117.5°	582.8	465.8	368.9	301.2	258.6	229.2	209.7	194.8	187.6	183.7	180.1
120°	565.3	458.9	371.4	311.2	270.5	242.4	222.8	208.0	200.1	196.2	193.9
122.5°	550.9	454.6	375.7	320.5	283.0	255.5	234.7	220.5	212.0	208.1	205.8
125°	532.4	448.8	382.3	335.4	301.0	273.6	252.5	237.7	229.1	224.4	222.8
127.5°	516.2	446.0	389.8	347.6	316.6	290.2	269.1	252.7	243.9	238.1	235.8
130°	507.4	444.1	394.8	355.7	326.0	300.2	279.1	262.7	253.3	246.3	243.9
132.5°	499.3	443.4	398.6	363.2	334.1	309.0	288.5	272.1	260.8	253.2	250.2
135°	488.6	442.5	404.2	372.9	346.3	322.1	301.0	284.6	272.9	264.3	261.1
137.5°	479.4	440.8	408.0	380.1	354.8	331.5	311.9	295.7	283.2	274.7	271.4
140°	473.8	440.2	410.5	383.9	360.4	337.7	318.2	302.6	290.1	282.2	278.3
142.5°	468.8	438.9	412.3	387.6	364.8	342.7	324.5	308.8	297.6	289.1	285.8
145°	462.1	437.0	413.6	391.7	370.6	350.3	332.3	319.0	307.3	300.2	297.9
147.5°	455.5	434.1	413.6	394.2	375.3	356.7	341.3	328.5	318.4	311.5	310.1
150°	451.1	431.6	413.6	394.8	378.4	360.4	346.3	335.4	325.2	319.0	318.2
152.5°	446.1	428.4	411.7	396.1	380.3	364.8	351.3	341.7	332.7	326.5	326.3
155°	438.6	423.0	409.7	396.4	383.9	370.6	359.6	351.0	343.2	338.5	338.5
157.5°	430.2	418.1	407.0	397.2	385.9	375.3	366.8	359.5	352.6	348.8	348.2
160°	424.5	414.4	405.8	397.2	387.8	378.4	370.6	365.1	358.9	355.7	355.7
162.5°	418.9	410.6	403.3	396.5	388.4	380.3	373.7	368.9	363.9	361.4	361.4
165°	411.2	405.0	399.5	394.8	389.3	383.1	377.6	374.5	370.6	369.0	369.8
167.5°	403.9	399.4	395.8	393.6	389.2	384.7	381.2	379.0	376.1	375.3	376.2
170°	399.5	395.6	393.3	391.7	388.6	384.7	383.1	381.5	379.2	378.4	380.0
172.5°	395.1	392.5	391.4	391.1	388.6	385.3	384.3	383.4	381.7	381.5	382.5
175°	390.1	388.6	388.6	389.3	387.8	386.2	385.4	385.4	383.9	384.7	385.4
177.5°	386.8	386.2	386.8	388.1	386.8	386.2	386.2	386.2	385.6	386.2	386.8
180°	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2



TEST NUMBER: P332284

CATALOG NUMBER: S123RDIP-S560D805U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7
2.5°	899.6	903.0	907.3	913.7	918.6	922.9	923.8	925.1	928.1	933.3	937.3
5°	905.5	914.3	928.4	942.2	957.2	969.4	980.9	989.0	996.6	1012.7	1025.7
7.5°	903.6	923.2	945.4	970.2	995.2	1019.5	1042.0	1062.2	1082.3	1105.7	1132.4
10°	902.4	925.4	955.2	987.0	1021.9	1056.0	1088.9	1114.6	1144.5	1171.3	1205.4
12.5°	896.6	929.7	965.4	1006.0	1048.9	1088.2	1131.5	1167.0	1201.1	1239.9	1279.5
15°	889.0	929.2	974.4	1028.4	1093.5	1141.0	1185.4	1247.1	1289.2	1331.4	1388.1
17.5°	875.1	924.2	980.7	1050.8	1105.2	1169.0	1235.8	1284.6	1341.3	1400.7	1452.0
20°	864.1	921.2	984.4	1053.3	1122.6	1192.0	1256.7	1314.9	1373.5	1442.1	1484.2
22.5°	853.1	909.5	975.2	1048.4	1122.9	1195.9	1269.2	1337.6	1403.5	1472.7	1526.5
25°	829.6	896.6	967.9	1042.6	1116.1	1196.5	1283.9	1360.1	1441.7	1512.9	1563.9
27.5°	805.9	867.3	938.2	1014.0	1095.7	1190.8	1293.5	1380.2	1461.9	1512.9	1528.9
30°	784.4	849.5	914.6	991.6	1080.1	1186.2	1295.4	1394.6	1461.6	1483.8	1467.3
32.5°	762.7	821.7	886.2	965.0	1059.0	1174.9	1297.8	1386.0	1426.4	1409.4	1342.3
35°	724.3	777.5	840.0	918.9	1026.9	1168.6	1287.7	1347.5	1337.5	1241.7	1115.3
37.5°	683.2	726.6	784.4	866.9	993.6	1143.7	1244.2	1253.0	1166.8	1019.8	873.8
40°	650.7	689.8	749.2	835.4	967.9	1119.2	1200.4	1164.8	1031.1	867.5	745.7
42.5°	619.2	652.1	709.3	802.3	943.4	1085.8	1135.1	1057.5	903.3	748.6	637.9
45°	565.7	596.7	654.2	749.6	893.2	1021.9	1015.4	880.6	726.2	601.7	509.8
47.5°	515.0	542.1	596.1	693.4	834.3	926.1	865.2	721.8	590.8	491.0	425.4
50°	479.2	506.0	559.6	655.7	787.1	854.1	767.2	628.9	509.0	426.3	374.2
52.5°	444.8	471.0	520.1	613.7	730.1	770.2	676.8	548.6	448.7	377.3	332.5
55°	396.8	416.7	460.8	550.4	637.3	646.5	551.9	444.7	362.3	312.5	281.9
57.5°	347.9	365.0	408.5	479.9	540.9	536.1	446.4	353.7	298.2	261.2	239.0
60°	316.0	332.8	371.1	432.4	478.4	462.3	380.0	305.3	257.8	230.6	213.0
62.5°	286.3	299.4	335.3	380.0	413.1	394.9	324.8	263.0	225.3	202.4	188.4
65°	243.2	253.9	282.7	306.0	324.4	306.8	248.6	205.7	178.5	162.4	152.8
67.5°	202.3	209.1	227.3	235.7	248.7	229.4	186.9	158.2	142.7	129.2	122.5
70°	176.6	181.6	191.1	198.0	201.5	181.6	150.1	129.1	116.1	106.5	102.3
72.5°	150.8	155.2	157.1	162.8	161.0	142.3	120.7	104.0	94.6	88.1	82.7
75°	115.3	117.2	115.3	113.0	108.0	95.0	80.1	71.6	64.7	61.7	59.8
77.5°	84.0	83.4	80.8	77.2	68.7	60.5	52.5	49.6	46.7	45.0	44.4
80°	64.7	63.2	60.9	55.2	47.9	42.1	40.2	38.3	37.2	35.2	34.9
82.5°	48.2	47.3	43.4	38.6	33.5	30.8	29.2	28.5	27.3	26.4	26.3
85°	25.7	24.5	20.3	17.6	16.9	16.1	15.7	15.7	14.2	13.8	13.8
87.5°	8.9	7.4	7.5	6.9	7.2	7.1	7.9	7.7	7.9	8.0	7.6
90°	3.1	4.7	7.0	8.6	10.2	12.5	14.9	17.2	19.5	18.8	19.5
92.5°	14.4	21.0	27.1	33.6	45.2	65.7	99.3	132.3	120.2	90.7	65.8
95°	28.9	37.5	50.8	71.1	101.6	168.1	284.6	412.8	463.6	376.1	281.5
97.5°	46.1	52.9	64.4	84.4	117.4	180.9	312.3	526.0	718.5	768.7	701.6
100°	58.6	64.1	75.1	93.8	124.3	179.0	294.7	500.4	740.4	894.4	921.8
102.5°	72.4	77.2	87.6	104.5	132.4	181.5	279.7	462.8	699.7	900.7	994.9
105°	93.0	97.7	107.1	122.0	146.2	188.4	268.9	416.7	628.6	853.0	1016.4
107.5°	114.0	118.5	127.7	141.7	164.2	201.2	268.2	387.3	565.7	769.5	954.8
110°	129.0	132.9	141.5	154.8	176.7	211.9	271.3	376.1	530.1	716.9	896.0





TEST NUMBER: P332284

CATALOG NUMBER: S123RDIP-S560D805U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	142.8	146.7	155.3	168.6	189.8	222.5	277.5	369.8	506.3	671.3	837.8
115°	163.4	168.1	175.9	189.2	210.3	240.0	287.7	367.5	480.8	616.1	760.7
117.5°	183.7	187.6	194.8	209.7	229.2	258.6	301.2	368.9	465.8	582.8	704.9
120°	196.2	200.1	208.0	222.8	242.4	270.5	311.2	371.4	458.9	565.3	675.5
122.5°	208.1	212.0	220.5	234.7	255.5	283.0	320.5	375.7	454.6	550.9	652.4
125°	224.4	229.1	237.7	252.5	273.6	301.0	335.4	382.3	448.8	532.4	621.5
127.5°	238.1	243.9	252.7	269.1	290.2	316.6	347.6	389.8	446.0	516.2	594.7
130°	246.3	253.3	262.7	279.1	300.2	326.0	355.7	394.8	444.1	507.4	577.8
132.5°	253.2	260.8	272.1	288.5	309.0	334.1	363.2	398.6	443.4	499.3	562.1
135°	264.3	272.9	284.6	301.0	322.1	346.3	372.9	404.2	442.5	488.6	541.0
137.5°	274.7	283.2	295.7	311.9	331.5	354.8	380.1	408.0	440.8	479.4	521.8
140°	282.2	290.1	302.6	318.2	337.7	360.4	383.9	410.5	440.2	473.8	510.5
142.5°	289.1	297.6	308.8	324.5	342.7	364.8	387.6	412.3	438.9	468.8	499.9
145°	300.2	307.3	319.0	332.3	350.3	370.6	391.7	413.6	437.0	462.1	487.1
147.5°	311.5	318.4	328.5	341.3	356.7	375.3	394.2	413.6	434.1	455.5	476.6
150°	319.0	325.2	335.4	346.3	360.4	378.4	394.8	413.6	431.6	451.1	469.1
152.5°	326.5	332.7	341.7	351.3	364.8	380.3	396.1	411.7	428.4	446.1	462.2
155°	338.5	343.2	351.0	359.6	370.6	383.9	396.4	409.7	423.0	438.6	451.9
157.5°	348.8	352.6	359.5	366.8	375.3	385.9	397.2	407.0	418.1	430.2	440.9
160°	355.7	358.9	365.1	370.6	378.4	387.8	397.2	405.8	414.4	424.5	434.7
162.5°	361.4	363.9	368.9	373.7	380.3	388.4	396.5	403.3	410.6	418.9	427.2
165°	369.0	370.6	374.5	377.6	383.1	389.3	394.8	399.5	405.0	411.2	417.5
167.5°	375.3	376.1	379.0	381.2	384.7	389.2	393.6	395.8	399.4	403.9	409.0
170°	378.4	379.2	381.5	383.1	384.7	388.6	391.7	393.3	395.6	399.5	403.4
172.5°	381.5	381.7	383.4	384.3	385.3	388.6	391.1	391.4	392.5	395.1	398.4
175°	384.7	383.9	385.4	385.4	386.2	387.8	389.3	388.6	388.6	390.1	391.7
177.5°	386.2	385.6	386.2	386.2	386.2	386.8	388.1	386.8	386.2	386.8	387.5
180°	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	894.7	894.7	894.7	894.7	894.7	894.7	894.7
2.5°	943.8	943.8	945.0	949.6	950.2	954.2	952.9
5°	1037.2	1044.5	1047.2	1058.7	1065.6	1068.6	1062.5
7.5°	1151.5	1172.0	1181.8	1193.8	1204.4	1207.7	1199.3
10°	1234.9	1256.3	1274.3	1285.4	1295.8	1302.6	1311.5
12.5°	1315.4	1341.8	1358.9	1374.6	1385.2	1394.0	1395.4
15°	1403.0	1442.8	1473.1	1495.3	1506.4	1512.2	1509.9
17.5°	1491.3	1528.2	1549.8	1572.4	1587.8	1588.6	1589.1
20°	1541.3	1577.3	1602.2	1619.0	1636.3	1635.5	1639.3
22.5°	1574.7	1603.0	1622.1	1634.3	1640.2	1637.3	1638.1
25°	1590.3	1598.7	1595.3	1575.7	1570.8	1552.8	1555.8
27.5°	1509.7	1469.9	1428.7	1375.6	1333.8	1300.4	1302.1
30°	1400.3	1329.8	1249.4	1182.0	1121.5	1104.6	1068.6
32.5°	1247.4	1141.7	1047.5	984.7	932.7	918.6	887.2
35°	988.2	885.5	788.6	730.4	707.4	675.3	674.9
37.5°	768.1	677.7	626.5	582.8	559.9	540.4	538.5
40°	646.2	575.7	537.0	505.6	483.0	468.4	465.0
42.5°	561.0	504.0	467.7	448.3	430.9	423.4	417.8
45°	458.1	419.8	394.5	376.9	368.8	363.1	360.0
47.5°	383.2	357.5	340.3	328.6	322.0	316.0	317.6
50°	342.4	321.4	308.7	297.6	292.6	288.4	288.8
52.5°	309.6	290.7	280.5	272.5	266.3	263.3	261.8
55°	262.8	250.9	240.5	234.8	231.3	227.1	226.0
57.5°	224.1	214.9	206.5	200.0	199.2	195.1	195.6
60°	198.4	190.7	183.8	180.4	177.7	174.3	175.4
62.5°	177.3	170.8	164.5	161.7	159.0	156.5	157.0
65°	145.2	139.0	135.2	133.7	132.5	131.4	130.2
67.5°	115.7	111.9	109.5	106.2	103.9	103.5	102.3
70°	97.3	92.3	88.1	83.9	82.7	82.3	82.7
72.5°	78.0	74.8	73.7	71.6	71.4	70.4	71.1
75°	58.6	57.5	56.7	55.2	55.2	55.2	55.2
77.5°	43.2	42.5	42.1	41.7	41.4	40.8	40.8
80°	33.7	33.3	32.6	32.6	32.2	32.6	32.2
82.5°	25.4	25.4	24.6	24.6	24.2	24.0	24.2
85°	13.0	12.6	13.4	12.6	13.0	12.3	13.0
87.5°	7.7	7.9	7.9	7.7	7.6	8.4	7.6
90°	20.3	21.1	22.7	21.9	22.7	23.5	22.7
92.5°	52.2	46.1	42.1	40.7	38.3	39.1	37.7
95°	190.8	149.3	121.2	106.3	99.3	93.8	90.7
97.5°	562.0	461.1	367.6	309.9	274.7	253.6	246.9
100°	858.4	767.0	655.9	577.0	519.9	489.4	490.2
102.5°	992.9	939.6	869.2	807.8	762.6	737.1	719.1
105°	1094.5	1109.4	1089.1	1053.1	1023.4	998.4	994.5
107.5°	1081.7	1150.2	1178.0	1178.7	1168.7	1160.2	1153.0
110°	1039.8	1138.3	1193.1	1214.9	1221.2	1219.6	1218.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	984.8	1095.2	1165.5	1205.6	1225.0	1230.9	1231.2
115°	896.7	1011.7	1096.9	1155.5	1189.9	1205.6	1209.5
117.5°	822.3	925.5	1012.0	1073.1	1112.5	1135.0	1140.4
120°	781.0	874.9	953.8	1015.6	1059.4	1078.1	1082.8
122.5°	747.9	834.8	908.2	963.0	1002.4	1023.1	1029.0
125°	706.8	781.8	844.4	894.4	928.8	948.3	953.8
127.5°	670.6	738.4	795.3	839.8	869.2	886.9	891.9
130°	648.1	711.5	764.6	806.1	834.2	850.6	856.9
132.5°	626.9	685.8	736.5	775.4	803.6	818.1	822.5
135°	596.5	647.3	691.9	730.2	753.7	767.7	773.2
137.5°	567.3	611.1	649.7	681.9	705.7	717.6	721.2
140°	550.4	587.9	621.5	651.3	673.1	685.7	684.9
142.5°	534.1	566.7	595.9	621.2	640.6	651.9	651.1
145°	512.9	537.9	560.6	580.1	596.5	602.8	604.3
147.5°	497.1	517.3	533.4	548.2	559.3	565.3	565.9
150°	487.1	503.5	518.3	530.1	538.7	543.4	543.4
152.5°	477.7	492.2	504.6	513.8	521.8	524.6	524.6
155°	464.4	476.1	485.5	492.5	498.8	500.4	501.1
157.5°	451.4	460.5	467.8	473.9	478.6	479.9	479.7
160°	443.3	451.1	456.6	462.1	466.7	466.7	466.0
162.5°	434.5	441.7	446.6	450.2	454.2	454.2	453.5
165°	422.2	427.7	431.6	434.7	437.8	437.0	437.0
167.5°	412.6	415.8	418.6	420.0	422.2	421.4	421.4
170°	405.8	408.9	410.5	411.2	412.8	412.0	412.0
172.5°	400.1	402.6	403.6	403.7	405.3	403.9	403.3
175°	392.5	394.0	394.0	394.0	394.8	394.0	393.3
177.5°	388.1	388.7	388.7	388.1	388.7	387.5	387.5
180°	386.2	386.2	386.2	386.2	386.2	386.2	386.2

(END OF REPORT)