

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: P332290

Luminaire Tested: **S123RDIP-S560D1025U835-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332290
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-S560D1025U835-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1025 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5941.4 lumens
Efficiency: N/A
Efficacy: 133.5 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

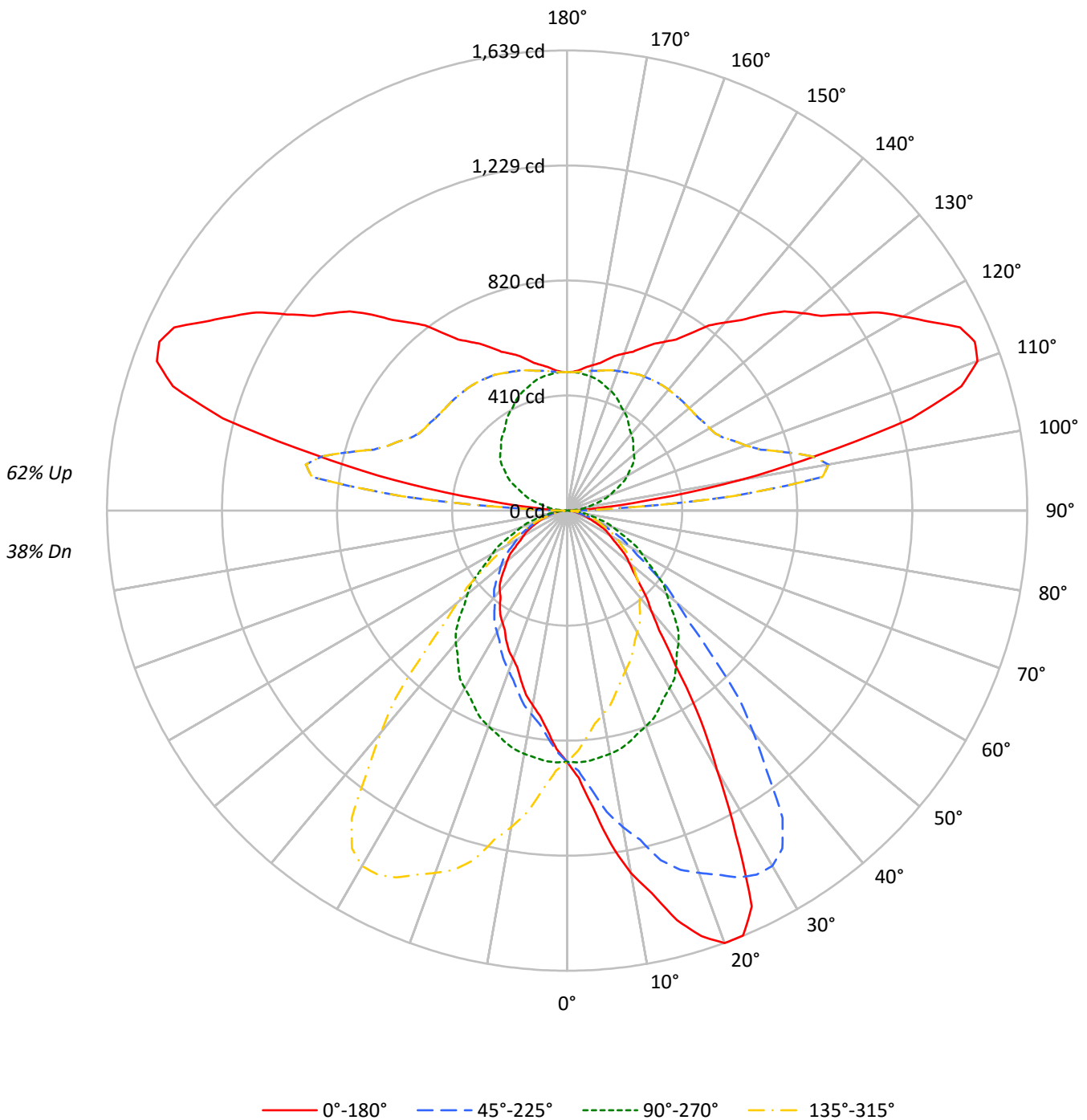
Input Watts (W): 44.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45	38
1	95	91	88	84	86	83	80	77	68	65	63	53	52	51	40	39	39	32
2	87	80	74	70	79	73	68	64	60	56	53	47	45	43	36	34	33	28
3	80	71	64	58	72	65	59	54	53	49	45	42	39	37	32	30	29	24
4	73	63	55	50	66	58	51	46	47	43	39	38	35	32	29	27	25	21
5	67	56	48	43	61	51	45	40	42	37	34	34	31	28	26	24	22	19
6	62	50	43	37	56	46	40	35	38	33	29	31	27	24	24	22	20	17
7	57	46	38	33	52	42	35	30	35	30	26	28	25	22	22	19	18	15
8	53	41	34	29	48	38	32	27	32	27	23	26	22	19	20	18	16	13
9	50	38	31	26	45	35	28	24	29	24	21	24	20	18	19	16	14	12
10	46	35	28	23	42	32	26	22	27	22	19	22	18	16	17	15	13	11

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	1.5
10°-20°	274.9	4.6
20°-30°	431.9	7.3
30°-40°	450.6	7.6
40°-50°	385.6	6.5
50°-60°	293.9	4.9
60°-70°	188.4	3.2
70°-80°	90.6	1.5
80°-90°	27.8	0.5
90°-100°	274.4	4.6
100°-110°	777.0	13.1
110°-120°	764.4	12.9
120°-130°	609.7	10.3
130°-140°	480.7	8.1
140°-150°	358.8	6.0
150°-160°	250.1	4.2
160°-170°	146.9	2.5
170°-180°	47.8	0.8
0°-30°	794.7	13.4
0°-40°	1245.3	21.0
0°-60°	1924.8	32.4
0°-90°	2231.6	37.6
90°-120°	1815.8	30.6
90°-150°	3265.1	55.0
90°-180°	3710.0	62.4
0°-180°	5941.4	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°	29	2	29	2	29	16
95°	116	34	116	34	116	209
105°	1270	116	1270	116	1270	1253
115°	1544	205	1544	205	1544	1500
125°	1218	284	1218	284	1218	1104
135°	987	333	987	333	987	766
145°	772	380	772	380	772	491
155°	640	432	640	432	640	298
165°	558	472	558	472	558	159
175°	502	492	502	492	502	49
180°	493	493	493	493	493	



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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°	8.9	9.7	8.9	9.0	9.2	9.1	8.9	8.7	9.1	9.0	8.7
90°	28.9	29.9	28.9	27.9	28.9	27.0	26.0	25.0	24.0	25.0	22.0
92.5°	48.1	49.9	48.9	51.9	53.7	58.9	66.7	84.0	115.8	153.5	168.9
95°	115.8	119.8	126.8	135.8	154.7	190.7	243.6	359.3	480.1	591.9	527.0
97.5°	315.2	323.8	350.8	395.7	469.3	588.7	717.5	895.8	981.4	917.3	671.6
100°	625.9	624.9	663.8	736.7	837.5	979.2	1096.0	1176.9	1141.9	945.3	638.8
102.5°	918.1	941.1	973.6	1031.3	1109.8	1199.6	1267.7	1270.3	1149.9	893.4	590.9
105°	1269.7	1274.7	1306.6	1344.5	1390.5	1416.4	1397.5	1297.6	1089.0	802.5	532.0
107.5°	1472.1	1481.3	1492.1	1504.9	1504.1	1468.5	1381.1	1219.0	982.4	722.3	494.5
110°	1555.2	1557.2	1559.2	1551.2	1523.2	1453.3	1327.6	1143.9	915.3	676.8	480.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1571.9	1571.5	1563.9	1539.2	1488.1	1398.2	1257.3	1069.6	857.0	646.4	472.1
115°	1544.2	1539.2	1519.2	1475.3	1400.4	1291.6	1144.9	971.2	786.6	613.9	469.1
117.5°	1455.9	1449.2	1420.4	1370.1	1292.0	1181.6	1049.9	900.0	744.0	594.7	470.9
120°	1382.5	1376.5	1352.5	1296.6	1217.8	1117.0	997.2	862.4	721.7	585.9	474.1
122.5°	1313.8	1306.2	1279.9	1229.6	1159.5	1065.9	954.9	832.9	703.3	580.3	479.7
125°	1217.8	1210.8	1185.8	1141.9	1078.0	998.2	902.4	793.6	679.8	573.0	488.1
127.5°	1138.7	1132.3	1109.8	1072.2	1015.3	942.7	856.2	759.2	659.0	569.4	497.7
130°	1094.0	1086.0	1065.1	1029.1	976.2	908.3	827.5	737.7	647.8	567.0	504.1
132.5°	1050.1	1044.5	1025.9	990.0	940.3	875.6	800.3	717.7	637.4	566.2	508.9
135°	987.2	980.2	962.2	932.3	883.4	826.5	761.6	690.7	623.9	565.0	516.1
137.5°	920.7	916.1	901.0	870.6	829.5	780.2	724.3	666.2	612.1	562.8	520.8
140°	874.4	875.4	859.4	831.5	793.6	750.6	702.7	651.8	604.9	562.0	524.0
142.5°	831.3	832.3	817.9	793.2	760.8	723.5	682.0	638.2	598.5	560.4	526.4
145°	771.6	769.6	761.6	740.6	715.7	686.7	654.8	621.9	589.9	558.0	528.0
147.5°	722.5	721.7	714.1	699.9	681.0	660.4	634.6	608.5	581.5	554.2	528.0
150°	693.7	693.7	687.7	676.8	661.8	642.8	621.9	598.9	575.9	551.0	528.0
152.5°	669.8	669.8	666.2	656.0	644.2	628.5	609.9	590.1	569.6	547.0	525.6
155°	639.8	638.8	636.8	628.9	619.9	607.9	592.9	576.9	560.0	540.0	523.0
157.5°	612.5	612.7	611.1	605.1	597.3	587.9	576.3	563.0	549.2	533.8	519.7
160°	594.9	595.9	595.9	589.9	582.9	575.9	566.0	555.0	542.0	529.0	518.1
162.5°	578.9	579.9	579.9	574.8	570.2	564.0	554.8	545.4	534.8	524.2	514.9
165°	558.0	558.0	559.0	555.0	551.0	546.0	539.0	533.0	525.0	517.1	510.1
167.5°	538.0	538.0	539.0	536.2	534.4	530.8	526.8	522.2	515.7	509.9	505.3
170°	526.0	526.0	527.0	525.0	524.0	522.0	518.1	515.1	510.1	505.1	502.1
172.5°	514.9	515.7	517.5	515.5	515.3	514.1	510.9	508.7	504.5	501.1	499.7
175°	502.1	503.1	504.1	503.1	503.1	503.1	501.1	500.1	498.1	496.1	496.1
177.5°	494.7	494.7	496.3	495.5	496.3	496.3	495.5	494.7	493.9	493.1	493.9
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1



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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°	8.7	7.8	7.8	7.4	7.9	7.6	9.1	10.2	10.9	10.1	10.7
90°	19.0	16.0	13.0	11.0	9.0	6.0	4.0	2.0	4.0	6.0	9.0
92.5°	126.8	83.8	57.7	42.9	34.5	26.8	18.4	12.4	18.4	26.8	34.5
95°	363.3	214.6	129.8	90.8	64.9	47.9	36.9	33.9	36.9	47.9	64.9
97.5°	398.7	231.0	149.9	107.8	82.2	67.5	58.9	57.9	58.9	67.5	82.2
100°	376.3	228.6	158.7	119.8	95.8	81.9	74.9	73.9	74.9	81.9	95.8
102.5°	357.1	231.8	169.1	133.4	111.8	98.6	92.4	90.6	92.4	98.6	111.8
105°	343.4	240.6	186.7	155.7	136.8	124.8	118.8	115.8	118.8	124.8	136.8
107.5°	342.4	256.9	209.6	180.9	163.1	151.3	145.5	142.5	145.5	151.3	163.1
110°	346.4	270.5	225.6	197.6	180.7	169.7	164.7	161.7	164.7	169.7	180.7



TEST NUMBER: P332290

CATALOG NUMBER: S123RDIP-S560D1025U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	354.4	284.1	242.4	215.2	198.2	187.3	182.3	179.3	182.3	187.3	198.2
115°	367.3	306.4	268.5	241.6	224.6	214.6	208.6	204.6	208.6	214.6	224.6
117.5°	384.5	330.2	292.7	267.7	248.7	239.6	234.6	230.0	234.6	239.6	248.7
120°	397.3	345.4	309.4	284.5	265.5	255.5	250.5	247.5	250.5	255.5	265.5
122.5°	409.3	361.3	326.2	299.7	281.5	270.7	265.7	262.7	265.7	270.7	281.5
125°	428.2	384.3	349.4	322.4	303.4	292.5	286.5	284.5	286.5	292.5	303.4
127.5°	443.8	404.3	370.5	343.6	322.6	311.4	304.0	301.1	304.0	311.4	322.6
130°	454.2	416.2	383.3	356.3	335.4	323.4	314.4	311.4	314.4	323.4	335.4
132.5°	463.8	426.6	394.5	368.3	347.4	333.0	323.2	319.4	323.2	333.0	347.4
135°	476.1	442.2	411.2	384.3	363.3	348.4	337.4	333.4	337.4	348.4	363.3
137.5°	485.3	453.0	423.2	398.3	377.5	361.5	350.8	346.6	350.8	361.5	377.5
140°	490.1	460.2	431.2	406.3	386.3	370.3	360.3	355.4	360.3	370.3	386.3
142.5°	494.9	465.8	437.6	414.2	394.3	379.9	369.1	364.9	369.1	379.9	394.3
145°	500.1	473.1	447.2	424.2	407.3	392.3	383.3	380.3	383.3	392.3	407.3
147.5°	503.3	479.1	455.4	435.8	419.4	406.5	397.7	395.9	397.7	406.5	419.4
150°	504.1	483.1	460.2	442.2	428.2	415.2	407.3	406.3	407.3	415.2	428.2
152.5°	505.7	485.5	465.8	448.6	436.2	424.8	416.8	416.6	416.8	424.8	436.2
155°	506.1	490.1	473.1	459.2	448.2	438.2	432.2	432.2	432.2	438.2	448.2
157.5°	507.1	492.7	479.1	468.3	459.0	450.2	445.4	444.6	445.4	450.2	459.0
160°	507.1	495.1	483.1	473.1	466.1	458.2	454.2	454.2	454.2	458.2	466.1
162.5°	506.3	495.9	485.5	477.1	470.9	464.6	461.4	461.4	461.4	464.6	470.9
165°	504.1	497.1	489.1	482.1	478.1	473.1	471.1	472.1	471.1	473.1	478.1
167.5°	502.5	496.9	491.1	486.7	483.9	480.1	479.1	480.3	479.1	480.1	483.9
170°	500.1	496.1	491.1	489.1	487.1	484.1	483.1	485.1	483.1	484.1	487.1
172.5°	499.3	496.1	491.9	490.7	489.5	487.3	487.1	488.3	487.1	487.3	489.5
175°	497.1	495.1	493.1	492.1	492.1	490.1	491.1	492.1	491.1	490.1	492.1
177.5°	495.5	493.9	493.1	493.1	493.1	492.3	493.1	493.9	493.1	492.3	493.1
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1



TEST NUMBER: P332290

CATALOG NUMBER: S123RDIP-S560D1025U835-4F0-1E-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°	10.8	12.1	13.0	13.9	14.8	15.1	15.2	15.4	15.9	16.1	16.5
90°	11.0	13.0	16.0	19.0	22.0	25.0	24.0	25.0	26.0	27.0	28.9
92.5°	42.9	57.7	83.8	126.8	168.9	153.5	115.8	84.0	66.7	58.9	53.7
95°	90.8	129.8	214.6	363.3	527.0	591.9	480.1	359.3	243.6	190.7	154.7
97.5°	107.8	149.9	231.0	398.7	671.6	917.3	981.4	895.8	717.5	588.7	469.3
100°	119.8	158.7	228.6	376.3	638.8	945.3	1141.9	1176.9	1096.0	979.2	837.5
102.5°	133.4	169.1	231.8	357.1	590.9	893.4	1149.9	1270.3	1267.7	1199.6	1109.8
105°	155.7	186.7	240.6	343.4	532.0	802.5	1089.0	1297.6	1397.5	1416.4	1390.5
107.5°	180.9	209.6	256.9	342.4	494.5	722.3	982.4	1219.0	1381.1	1468.5	1504.1
110°	197.6	225.6	270.5	346.4	480.1	676.8	915.3	1143.9	1327.6	1453.3	1523.2



TEST NUMBER: P332290

CATALOG NUMBER: S123RDIP-S560D1025U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	215.2	242.4	284.1	354.4	472.1	646.4	857.0	1069.6	1257.3	1398.2	1488.1
115°	241.6	268.5	306.4	367.3	469.1	613.9	786.6	971.2	1144.9	1291.6	1400.4
117.5°	267.7	292.7	330.2	384.5	470.9	594.7	744.0	900.0	1049.9	1181.6	1292.0
120°	284.5	309.4	345.4	397.3	474.1	585.9	721.7	862.4	997.2	1117.0	1217.8
122.5°	299.7	326.2	361.3	409.3	479.7	580.3	703.3	832.9	954.9	1065.9	1159.5
125°	322.4	349.4	384.3	428.2	488.1	573.0	679.8	793.6	902.4	998.2	1078.0
127.5°	343.6	370.5	404.3	443.8	497.7	569.4	659.0	759.2	856.2	942.7	1015.3
130°	356.3	383.3	416.2	454.2	504.1	567.0	647.8	737.7	827.5	908.3	976.2
132.5°	368.3	394.5	426.6	463.8	508.9	566.2	637.4	717.7	800.3	875.6	940.3
135°	384.3	411.2	442.2	476.1	516.1	565.0	623.9	690.7	761.6	826.5	883.4
137.5°	398.3	423.2	453.0	485.3	520.8	562.8	612.1	666.2	724.3	780.2	829.5
140°	406.3	431.2	460.2	490.1	524.0	562.0	604.9	651.8	702.7	750.6	793.6
142.5°	414.2	437.6	465.8	494.9	526.4	560.4	598.5	638.2	682.0	723.5	760.8
145°	424.2	447.2	473.1	500.1	528.0	558.0	589.9	621.9	654.8	686.7	715.7
147.5°	435.8	455.4	479.1	503.3	528.0	554.2	581.5	608.5	634.6	660.4	681.0
150°	442.2	460.2	483.1	504.1	528.0	551.0	575.9	598.9	621.9	642.8	661.8
152.5°	448.6	465.8	485.5	505.7	525.6	547.0	569.6	590.1	609.9	628.5	644.2
155°	459.2	473.1	490.1	506.1	523.0	540.0	560.0	576.9	592.9	607.9	619.9
157.5°	468.3	479.1	492.7	507.1	519.7	533.8	549.2	563.0	576.3	587.9	597.3
160°	473.1	483.1	495.1	507.1	518.1	529.0	542.0	555.0	566.0	575.9	582.9
162.5°	477.1	485.5	495.9	506.3	514.9	524.2	534.8	545.4	554.8	564.0	570.2
165°	482.1	489.1	497.1	504.1	510.1	517.1	525.0	533.0	539.0	546.0	551.0
167.5°	486.7	491.1	496.9	502.5	505.3	509.9	515.7	522.2	526.8	530.8	534.4
170°	489.1	491.1	496.1	500.1	502.1	505.1	510.1	515.1	518.1	522.0	524.0
172.5°	490.7	491.9	496.1	499.3	499.7	501.1	504.5	508.7	510.9	514.1	515.3
175°	492.1	493.1	495.1	497.1	496.1	496.1	498.1	500.1	501.1	503.1	503.1
177.5°	493.1	493.1	493.9	495.5	493.9	493.1	493.9	494.7	495.5	496.3	496.3
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1



TEST NUMBER: P332290

CATALOG NUMBER: S123RDIP-S560D1025U835-4F0-1E-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°	16.9	16.5	16.7	16.8	16.7	16.5	16.9	16.5	16.1	15.9	15.4
90°	27.9	28.9	29.9	28.9	29.9	28.9	27.9	28.9	27.0	26.0	25.0
92.5°	51.9	48.9	49.9	48.1	49.9	48.9	51.9	53.7	58.9	66.7	84.0
95°	135.8	126.8	119.8	115.8	119.8	126.8	135.8	154.7	190.7	243.6	359.3
97.5°	395.7	350.8	323.8	315.2	323.8	350.8	395.7	469.3	588.7	717.5	895.8
100°	736.7	663.8	624.9	625.9	624.9	663.8	736.7	837.5	979.2	1096.0	1176.9
102.5°	1031.3	973.6	941.1	918.1	941.1	973.6	1031.3	1109.8	1199.6	1267.7	1270.3
105°	1344.5	1306.6	1274.7	1269.7	1274.7	1306.6	1344.5	1390.5	1416.4	1397.5	1297.6
107.5°	1504.9	1492.1	1481.3	1472.1	1481.3	1492.1	1504.9	1504.1	1468.5	1381.1	1219.0
110°	1551.2	1559.2	1557.2	1555.2	1557.2	1559.2	1551.2	1523.2	1453.3	1327.6	1143.9



TEST NUMBER: P332290

CATALOG NUMBER: S123RDIP-S560D1025U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1539.2	1563.9	1571.5	1571.9	1571.5	1563.9	1539.2	1488.1	1398.2	1257.3	1069.6
115°	1475.3	1519.2	1539.2	1544.2	1539.2	1519.2	1475.3	1400.4	1291.6	1144.9	971.2
117.5°	1370.1	1420.4	1449.2	1455.9	1449.2	1420.4	1370.1	1292.0	1181.6	1049.9	900.0
120°	1296.6	1352.5	1376.5	1382.5	1376.5	1352.5	1296.6	1217.8	1117.0	997.2	862.4
122.5°	1229.6	1279.9	1306.2	1313.8	1306.2	1279.9	1229.6	1159.5	1065.9	954.9	832.9
125°	1141.9	1185.8	1210.8	1217.8	1210.8	1185.8	1141.9	1078.0	998.2	902.4	793.6
127.5°	1072.2	1109.8	1132.3	1138.7	1132.3	1109.8	1072.2	1015.3	942.7	856.2	759.2
130°	1029.1	1065.1	1086.0	1094.0	1086.0	1065.1	1029.1	976.2	908.3	827.5	737.7
132.5°	990.0	1025.9	1044.5	1050.1	1044.5	1025.9	990.0	940.3	875.6	800.3	717.7
135°	932.3	962.2	980.2	987.2	980.2	962.2	932.3	883.4	826.5	761.6	690.7
137.5°	870.6	901.0	916.1	920.7	916.1	901.0	870.6	829.5	780.2	724.3	666.2
140°	831.5	859.4	875.4	874.4	875.4	859.4	831.5	793.6	750.6	702.7	651.8
142.5°	793.2	817.9	832.3	831.3	832.3	817.9	793.2	760.8	723.5	682.0	638.2
145°	740.6	761.6	769.6	771.6	769.6	761.6	740.6	715.7	686.7	654.8	621.9
147.5°	699.9	714.1	721.7	722.5	721.7	714.1	699.9	681.0	660.4	634.6	608.5
150°	676.8	687.7	693.7	693.7	693.7	687.7	676.8	661.8	642.8	621.9	598.9
152.5°	656.0	666.2	669.8	669.8	669.8	666.2	656.0	644.2	628.5	609.9	590.1
155°	628.9	636.8	638.8	639.8	638.8	636.8	628.9	619.9	607.9	592.9	576.9
157.5°	605.1	611.1	612.7	612.5	612.7	611.1	605.1	597.3	587.9	576.3	563.0
160°	589.9	595.9	595.9	594.9	595.9	595.9	589.9	582.9	575.9	566.0	555.0
162.5°	574.8	579.9	579.9	578.9	579.9	579.9	574.8	570.2	564.0	554.8	545.4
165°	555.0	559.0	558.0	558.0	558.0	559.0	555.0	551.0	546.0	539.0	533.0
167.5°	536.2	539.0	538.0	538.0	538.0	539.0	536.2	534.4	530.8	526.8	522.2
170°	525.0	527.0	526.0	526.0	526.0	527.0	525.0	524.0	522.0	518.1	515.1
172.5°	515.5	517.5	515.7	514.9	515.7	517.5	515.5	515.3	514.1	510.9	508.7
175°	503.1	504.1	503.1	502.1	503.1	504.1	503.1	503.1	503.1	501.1	500.1
177.5°	495.5	496.3	494.7	494.7	494.7	496.3	495.5	496.3	496.3	495.5	494.7
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1



TEST NUMBER: P332290

CATALOG NUMBER: S123RDIP-S560D1025U835-4F0-1E-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°	15.2	15.1	14.8	13.9	13.0	12.1	10.8	10.7	10.1	10.9	10.2
90°	24.0	25.0	22.0	19.0	16.0	13.0	11.0	9.0	6.0	4.0	2.0
92.5°	115.8	153.5	168.9	126.8	83.8	57.7	42.9	34.5	26.8	18.4	12.4
95°	480.1	591.9	527.0	363.3	214.6	129.8	90.8	64.9	47.9	36.9	33.9
97.5°	981.4	917.3	671.6	398.7	231.0	149.9	107.8	82.2	67.5	58.9	57.9
100°	1141.9	945.3	638.8	376.3	228.6	158.7	119.8	95.8	81.9	74.9	73.9
102.5°	1149.9	893.4	590.9	357.1	231.8	169.1	133.4	111.8	98.6	92.4	90.6
105°	1089.0	802.5	532.0	343.4	240.6	186.7	155.7	136.8	124.8	118.8	115.8
107.5°	982.4	722.3	494.5	342.4	256.9	209.6	180.9	163.1	151.3	145.5	142.5
110°	915.3	676.8	480.1	346.4	270.5	225.6	197.6	180.7	169.7	164.7	161.7



TEST NUMBER: P332290

CATALOG NUMBER: S123RDIP-S560D1025U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	857.0	646.4	472.1	354.4	284.1	242.4	215.2	198.2	187.3	182.3	179.3
115°	786.6	613.9	469.1	367.3	306.4	268.5	241.6	224.6	214.6	208.6	204.6
117.5°	744.0	594.7	470.9	384.5	330.2	292.7	267.7	248.7	239.6	234.6	230.0
120°	721.7	585.9	474.1	397.3	345.4	309.4	284.5	265.5	255.5	250.5	247.5
122.5°	703.3	580.3	479.7	409.3	361.3	326.2	299.7	281.5	270.7	265.7	262.7
125°	679.8	573.0	488.1	428.2	384.3	349.4	322.4	303.4	292.5	286.5	284.5
127.5°	659.0	569.4	497.7	443.8	404.3	370.5	343.6	322.6	311.4	304.0	301.1
130°	647.8	567.0	504.1	454.2	416.2	383.3	356.3	335.4	323.4	314.4	311.4
132.5°	637.4	566.2	508.9	463.8	426.6	394.5	368.3	347.4	333.0	323.2	319.4
135°	623.9	565.0	516.1	476.1	442.2	411.2	384.3	363.3	348.4	337.4	333.4
137.5°	612.1	562.8	520.8	485.3	453.0	423.2	398.3	377.5	361.5	350.8	346.6
140°	604.9	562.0	524.0	490.1	460.2	431.2	406.3	386.3	370.3	360.3	355.4
142.5°	598.5	560.4	526.4	494.9	465.8	437.6	414.2	394.3	379.9	369.1	364.9
145°	589.9	558.0	528.0	500.1	473.1	447.2	424.2	407.3	392.3	383.3	380.3
147.5°	581.5	554.2	528.0	503.3	479.1	455.4	435.8	419.4	406.5	397.7	395.9
150°	575.9	551.0	528.0	504.1	483.1	460.2	442.2	428.2	415.2	407.3	406.3
152.5°	569.6	547.0	525.6	505.7	485.5	465.8	448.6	436.2	424.8	416.8	416.6
155°	560.0	540.0	523.0	506.1	490.1	473.1	459.2	448.2	438.2	432.2	432.2
157.5°	549.2	533.8	519.7	507.1	492.7	479.1	468.3	459.0	450.2	445.4	444.6
160°	542.0	529.0	518.1	507.1	495.1	483.1	473.1	466.1	458.2	454.2	454.2
162.5°	534.8	524.2	514.9	506.3	495.9	485.5	477.1	470.9	464.6	461.4	461.4
165°	525.0	517.1	510.1	504.1	497.1	489.1	482.1	478.1	473.1	471.1	472.1
167.5°	515.7	509.9	505.3	502.5	496.9	491.1	486.7	483.9	480.1	479.1	480.3
170°	510.1	505.1	502.1	500.1	496.1	491.1	489.1	487.1	484.1	483.1	485.1
172.5°	504.5	501.1	499.7	499.3	496.1	491.9	490.7	489.5	487.3	487.1	488.3
175°	498.1	496.1	496.1	497.1	495.1	493.1	492.1	492.1	490.1	491.1	492.1
177.5°	493.9	493.1	493.9	495.5	493.9	493.1	493.1	493.1	492.3	493.1	493.9
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1



TEST NUMBER: P332290

CATALOG NUMBER: S123RDIP-S560D1025U835-4F0-1E-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°	9.1	7.6	7.9	7.4	7.8	7.8	8.7	8.7	9.0	9.1	8.7
90°	4.0	6.0	9.0	11.0	13.0	16.0	19.0	22.0	25.0	24.0	25.0
92.5°	18.4	26.8	34.5	42.9	57.7	83.8	126.8	168.9	153.5	115.8	84.0
95°	36.9	47.9	64.9	90.8	129.8	214.6	363.3	527.0	591.9	480.1	359.3
97.5°	58.9	67.5	82.2	107.8	149.9	231.0	398.7	671.6	917.3	981.4	895.8
100°	74.9	81.9	95.8	119.8	158.7	228.6	376.3	638.8	945.3	1141.9	1176.9
102.5°	92.4	98.6	111.8	133.4	169.1	231.8	357.1	590.9	893.4	1149.9	1270.3
105°	118.8	124.8	136.8	155.7	186.7	240.6	343.4	532.0	802.5	1089.0	1297.6
107.5°	145.5	151.3	163.1	180.9	209.6	256.9	342.4	494.5	722.3	982.4	1219.0
110°	164.7	169.7	180.7	197.6	225.6	270.5	346.4	480.1	676.8	915.3	1143.9



TEST NUMBER: P332290

CATALOG NUMBER: S123RDIP-S560D1025U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	182.3	187.3	198.2	215.2	242.4	284.1	354.4	472.1	646.4	857.0	1069.6
115°	208.6	214.6	224.6	241.6	268.5	306.4	367.3	469.1	613.9	786.6	971.2
117.5°	234.6	239.6	248.7	267.7	292.7	330.2	384.5	470.9	594.7	744.0	900.0
120°	250.5	255.5	265.5	284.5	309.4	345.4	397.3	474.1	585.9	721.7	862.4
122.5°	265.7	270.7	281.5	299.7	326.2	361.3	409.3	479.7	580.3	703.3	832.9
125°	286.5	292.5	303.4	322.4	349.4	384.3	428.2	488.1	573.0	679.8	793.6
127.5°	304.0	311.4	322.6	343.6	370.5	404.3	443.8	497.7	569.4	659.0	759.2
130°	314.4	323.4	335.4	356.3	383.3	416.2	454.2	504.1	567.0	647.8	737.7
132.5°	323.2	333.0	347.4	368.3	394.5	426.6	463.8	508.9	566.2	637.4	717.7
135°	337.4	348.4	363.3	384.3	411.2	442.2	476.1	516.1	565.0	623.9	690.7
137.5°	350.8	361.5	377.5	398.3	423.2	453.0	485.3	520.8	562.8	612.1	666.2
140°	360.3	370.3	386.3	406.3	431.2	460.2	490.1	524.0	562.0	604.9	651.8
142.5°	369.1	379.9	394.3	414.2	437.6	465.8	494.9	526.4	560.4	598.5	638.2
145°	383.3	392.3	407.3	424.2	447.2	473.1	500.1	528.0	558.0	589.9	621.9
147.5°	397.7	406.5	419.4	435.8	455.4	479.1	503.3	528.0	554.2	581.5	608.5
150°	407.3	415.2	428.2	442.2	460.2	483.1	504.1	528.0	551.0	575.9	598.9
152.5°	416.8	424.8	436.2	448.6	465.8	485.5	505.7	525.6	547.0	569.6	590.1
155°	432.2	438.2	448.2	459.2	473.1	490.1	506.1	523.0	540.0	560.0	576.9
157.5°	445.4	450.2	459.0	468.3	479.1	492.7	507.1	519.7	533.8	549.2	563.0
160°	454.2	458.2	466.1	473.1	483.1	495.1	507.1	518.1	529.0	542.0	555.0
162.5°	461.4	464.6	470.9	477.1	485.5	495.9	506.3	514.9	524.2	534.8	545.4
165°	471.1	473.1	478.1	482.1	489.1	497.1	504.1	510.1	517.1	525.0	533.0
167.5°	479.1	480.1	483.9	486.7	491.1	496.9	502.5	505.3	509.9	515.7	522.2
170°	483.1	484.1	487.1	489.1	491.1	496.1	500.1	502.1	505.1	510.1	515.1
172.5°	487.1	487.3	489.5	490.7	491.9	496.1	499.3	499.7	501.1	504.5	508.7
175°	491.1	490.1	492.1	492.1	493.1	495.1	497.1	496.1	496.1	498.1	500.1
177.5°	493.1	492.3	493.1	493.1	493.1	493.9	495.5	493.9	493.1	493.9	494.7
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1



TEST NUMBER: P332290

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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°	8.9	9.1	9.2	9.0	8.9	9.7	8.9
90°	26.0	27.0	28.9	27.9	28.9	29.9	28.9
92.5°	66.7	58.9	53.7	51.9	48.9	49.9	48.1
95°	243.6	190.7	154.7	135.8	126.8	119.8	115.8
97.5°	717.5	588.7	469.3	395.7	350.8	323.8	315.2
100°	1096.0	979.2	837.5	736.7	663.8	624.9	625.9
102.5°	1267.7	1199.6	1109.8	1031.3	973.6	941.1	918.1
105°	1397.5	1416.4	1390.5	1344.5	1306.6	1274.7	1269.7
107.5°	1381.1	1468.5	1504.1	1504.9	1492.1	1481.3	1472.1
110°	1327.6	1453.3	1523.2	1551.2	1559.2	1557.2	1555.2



TEST NUMBER: P332290

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1257.3	1398.2	1488.1	1539.2	1563.9	1571.5	1571.9
115°	1144.9	1291.6	1400.4	1475.3	1519.2	1539.2	1544.2
117.5°	1049.9	1181.6	1292.0	1370.1	1420.4	1449.2	1455.9
120°	997.2	1117.0	1217.8	1296.6	1352.5	1376.5	1382.5
122.5°	954.9	1065.9	1159.5	1229.6	1279.9	1306.2	1313.8
125°	902.4	998.2	1078.0	1141.9	1185.8	1210.8	1217.8
127.5°	856.2	942.7	1015.3	1072.2	1109.8	1132.3	1138.7
130°	827.5	908.3	976.2	1029.1	1065.1	1086.0	1094.0
132.5°	800.3	875.6	940.3	990.0	1025.9	1044.5	1050.1
135°	761.6	826.5	883.4	932.3	962.2	980.2	987.2
137.5°	724.3	780.2	829.5	870.6	901.0	916.1	920.7
140°	702.7	750.6	793.6	831.5	859.4	875.4	874.4
142.5°	682.0	723.5	760.8	793.2	817.9	832.3	831.3
145°	654.8	686.7	715.7	740.6	761.6	769.6	771.6
147.5°	634.6	660.4	681.0	699.9	714.1	721.7	722.5
150°	621.9	642.8	661.8	676.8	687.7	693.7	693.7
152.5°	609.9	628.5	644.2	656.0	666.2	669.8	669.8
155°	592.9	607.9	619.9	628.9	636.8	638.8	639.8
157.5°	576.3	587.9	597.3	605.1	611.1	612.7	612.5
160°	566.0	575.9	582.9	589.9	595.9	595.9	594.9
162.5°	554.8	564.0	570.2	574.8	579.9	579.9	578.9
165°	539.0	546.0	551.0	555.0	559.0	558.0	558.0
167.5°	526.8	530.8	534.4	536.2	539.0	538.0	538.0
170°	518.1	522.0	524.0	525.0	527.0	526.0	526.0
172.5°	510.9	514.1	515.3	515.5	517.5	515.7	514.9
175°	501.1	503.1	503.1	503.1	504.1	503.1	502.1
177.5°	495.5	496.3	496.3	495.5	496.3	494.7	494.7
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1

(END OF REPORT)