

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: P332296-940

Luminaire Tested: **S123RDIP-S560D1195U940-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332296-940
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-S560D1195U940-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1195 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5841.0 lumens
Efficiency: N/A
Efficacy: 118.2 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

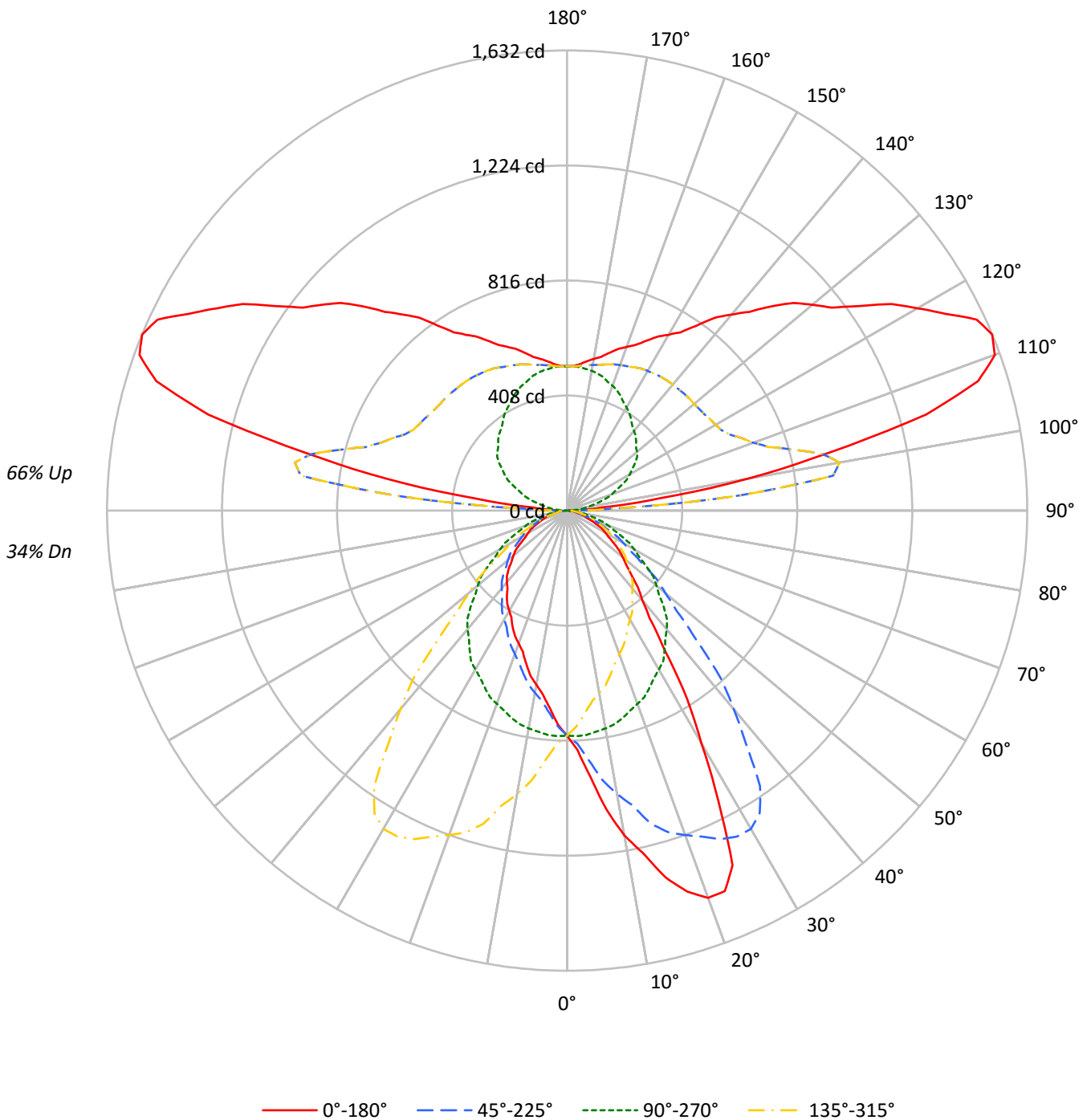
Input Watts (W): 49.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332296-940

CATALOG NUMBER: S123RDIP-S560D1195U940-4F0-1E-UDD-A4

Luminous Intensity Polar Plot





TEST NUMBER: P332296-940

CATALOG NUMBER: S123RDIP-S560D1195U940-4F0-1E-UDD-A4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34				
1	95	91	87	84	85	82	79	76	66	64	62	51	50	48	37	36	36	29				
2	86	79	74	69	78	72	67	63	58	55	52	45	43	41	33	32	31	25				
3	79	70	63	58	71	64	58	53	52	47	44	40	37	35	30	28	27	22				
4	72	62	55	49	65	57	50	45	46	41	38	36	33	30	27	25	23	19				
5	67	56	48	42	60	51	44	39	41	36	33	32	29	26	24	22	20	17				
6	61	50	42	37	55	45	39	34	37	32	29	29	26	23	22	20	18	15				
7	57	45	37	32	51	41	34	30	34	29	25	27	23	21	20	18	16	13				
8	53	41	33	28	47	37	31	26	31	26	22	25	21	18	19	16	15	12				
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	17	15	13	11				
10	46	34	27	23	41	31	25	21	26	21	18	21	17	15	16	14	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8587	8587	8587	8587
5°	10237	8625	7595	8625
10°	12783	8575	6862	8575
15°	15004	8487	6257	8487
20°	16745	8356	5743	8356
25°	16476	8219	5428	8219
30°	11844	8090	5102	8090
35°	7908	7926	4892	7926
40°	5826	7727	4675	7727
45°	4886	7377	4460	7377
50°	4312	6921	4163	6921
55°	3781	6397	3755	6397
60°	3367	5896	3442	5896
65°	2957	5359	3202	5359
70°	2319	4881	2924	4881
75°	2046	4263	2670	4263
80°	1779	3620	2628	3620
85°	1433	2902	2791	2902



TEST NUMBER: P332296-940

CATALOG NUMBER: S123RDIP-S560D1195U940-4F0-1E-UDD-A4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	1.3
10°-20°	245.1	4.2
20°-30°	385.1	6.6
30°-40°	401.8	6.9
40°-50°	343.8	5.9
50°-60°	262.1	4.5
60°-70°	168.0	2.9
70°-80°	80.8	1.4
80°-90°	25.3	0.4
90°-100°	284.8	4.9
100°-110°	806.5	13.8
110°-120°	793.4	13.6
120°-130°	632.8	10.8
130°-140°	498.9	8.5
140°-150°	372.4	6.4
150°-160°	259.6	4.4
160°-170°	152.5	2.6
170°-180°	49.6	0.8
0°-30°	708.7	12.1
0°-40°	1110.4	19.0
0°-60°	1716.3	29.4
0°-90°	1990.5	34.1
90°-120°	1884.7	32.3
90°-150°	3388.9	58.0
90°-180°	3851.0	65.9
0°-180°	5841.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	798	798	798	798	798	
5°	947	798	703	798	947	98
15°	1346	762	562	762	1346	382
25°	1387	692	457	692	1387	596
35°	602	603	372	603	602	395
45°	321	485	293	485	321	252
55°	202	341	200	341	202	182
65°	116	210	126	210	116	114
75°	49	102	64	102	49	53
85°	12	24	23	24	12	14
90°	30	2	30	2	30	16
95°	120	35	120	35	120	217
105°	1318	120	1318	120	1318	1300
115°	1603	212	1603	212	1603	1557
125°	1264	295	1264	295	1264	1145
135°	1025	346	1025	346	1025	795
145°	801	395	801	395	801	509
155°	664	449	664	449	664	310
165°	579	490	579	490	579	166
175°	521	511	521	511	521	51
180°	512	512	512	512	512	



TEST NUMBER: P332296-940

CATALOG NUMBER: S123RDIP-S560D1195U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	849.7	850.9	847.3	846.8	842.7	841.6	841.6	835.8	832.2	827.6	824.9
5°	947.4	952.9	950.2	944.1	933.8	931.4	924.9	914.6	903.0	888.7	881.9
7.5°	1069.4	1076.9	1074.0	1064.5	1053.8	1045.1	1026.8	1009.8	986.0	965.1	947.2
10°	1169.5	1161.5	1155.5	1146.2	1136.3	1120.3	1101.2	1074.9	1044.5	1020.6	993.9
12.5°	1244.3	1243.0	1235.2	1225.7	1211.7	1196.5	1173.0	1140.9	1105.6	1071.0	1040.6
15°	1346.4	1348.4	1343.3	1333.4	1313.6	1286.6	1251.1	1237.8	1187.2	1149.6	1112.1
17.5°	1417.0	1416.6	1415.9	1402.1	1382.0	1362.7	1329.8	1294.8	1249.0	1196.1	1145.5
20°	1461.8	1458.4	1459.1	1443.7	1428.7	1406.5	1374.4	1323.5	1285.9	1224.8	1172.5
22.5°	1460.7	1460.0	1462.6	1457.3	1446.4	1429.4	1404.2	1361.2	1313.2	1251.5	1192.8
25°	1387.3	1384.6	1400.7	1405.1	1422.5	1425.6	1418.1	1394.5	1349.1	1285.6	1212.8
27.5°	1161.1	1159.6	1189.4	1226.6	1274.0	1310.7	1346.2	1363.3	1349.1	1303.6	1230.7
30°	952.9	985.0	1000.1	1054.0	1114.1	1185.8	1248.7	1308.4	1323.1	1303.3	1243.6
32.5°	791.1	819.1	831.7	878.1	934.1	1018.1	1112.3	1196.9	1256.8	1271.9	1235.9
35°	601.8	602.2	630.8	651.3	703.2	789.6	881.2	994.5	1107.2	1192.7	1201.6
37.5°	480.2	481.9	499.3	519.7	558.7	604.3	684.9	779.2	909.4	1040.4	1117.3
40°	414.6	417.7	430.7	450.8	478.8	513.4	576.2	664.9	773.6	919.4	1038.7
42.5°	372.6	377.6	384.2	399.8	417.1	449.4	500.2	568.8	667.5	805.5	943.0
45°	321.0	323.8	328.9	336.1	351.8	374.3	408.5	454.6	536.5	647.6	785.2
47.5°	283.2	281.8	287.1	293.0	303.4	318.8	341.7	379.3	437.8	526.8	643.6
50°	257.5	257.2	260.9	265.4	275.3	286.6	305.3	333.7	380.1	453.9	560.8
52.5°	233.4	234.8	237.5	243.0	250.1	259.2	276.1	296.5	336.4	400.1	489.2
55°	201.5	202.5	206.3	209.4	214.5	223.7	234.3	251.4	278.7	323.1	396.5
57.5°	174.4	174.0	177.6	178.3	184.1	191.6	199.8	213.1	232.9	265.9	315.4
60°	156.4	155.4	158.5	160.9	163.9	170.0	176.9	189.9	205.6	229.9	272.2
62.5°	140.0	139.6	141.8	144.2	146.7	152.3	158.1	168.0	180.5	200.9	234.5
65°	116.1	117.2	118.2	119.2	120.6	123.9	129.5	136.3	144.8	159.2	183.4
67.5°	91.2	92.3	92.6	94.7	97.6	99.8	103.2	109.2	115.2	127.2	141.1
70°	73.7	73.4	73.7	74.8	78.6	82.3	86.8	91.2	95.0	103.5	115.1
72.5°	63.4	62.8	63.7	63.8	65.7	66.7	69.6	73.7	78.6	84.4	92.7
75°	49.2	49.2	49.2	49.2	50.6	51.3	52.3	53.3	55.0	57.7	63.8
77.5°	36.4	36.4	36.9	37.2	37.5	37.9	38.5	39.6	40.1	41.6	44.2
80°	28.7	29.1	28.7	29.1	29.1	29.7	30.1	31.1	31.4	33.2	34.2
82.5°	21.6	21.4	21.6	21.9	21.9	22.6	22.6	23.5	23.5	24.3	25.4
85°	11.6	11.0	11.6	11.2	11.9	11.2	11.6	12.3	12.3	12.7	14.0
87.5°	8.7	9.5	8.7	8.8	9.0	8.9	8.6	8.5	8.8	8.7	8.4
90°	30.1	31.1	30.1	29.0	30.1	28.0	26.9	25.9	24.9	25.9	22.8
92.5°	49.9	51.8	50.7	53.9	55.7	61.1	69.2	87.2	120.2	159.3	175.3
95°	120.2	124.3	131.6	140.9	160.6	197.9	252.8	373.0	498.3	614.4	547.1
97.5°	327.2	336.1	364.1	410.7	487.1	611.1	744.7	929.7	1018.6	952.1	697.1
100°	649.6	648.5	688.9	764.6	869.2	1016.4	1137.6	1221.5	1185.3	981.1	663.1
102.5°	953.0	976.8	1010.6	1070.4	1151.8	1245.1	1315.7	1318.5	1193.5	927.3	613.3
105°	1317.9	1323.0	1356.2	1395.5	1443.2	1470.2	1450.5	1346.8	1130.3	832.9	552.2
107.5°	1527.9	1537.5	1548.6	1561.9	1561.1	1524.2	1433.4	1265.2	1019.7	749.7	513.3
110°	1614.2	1616.2	1618.3	1610.0	1581.0	1508.5	1378.0	1187.3	950.0	702.4	498.3



TEST NUMBER: P332296-940

CATALOG NUMBER: S123RDIP-S560D1195U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1631.6	1631.1	1623.3	1597.6	1544.5	1451.3	1305.0	1110.2	889.6	670.9	490.1
115°	1602.8	1597.6	1576.8	1531.2	1453.6	1340.6	1188.3	1008.1	816.4	637.1	487.0
117.5°	1511.2	1504.1	1474.3	1422.1	1341.0	1226.5	1089.7	934.1	772.2	617.2	488.8
120°	1434.9	1428.7	1403.8	1345.8	1264.0	1159.3	1035.0	895.1	749.0	608.1	492.1
122.5°	1363.6	1355.8	1328.4	1276.2	1203.5	1106.3	991.0	864.4	730.0	602.4	497.9
125°	1264.0	1256.7	1230.8	1185.3	1118.9	1036.0	936.6	823.7	705.5	594.7	506.6
127.5°	1181.9	1175.3	1151.8	1112.9	1053.8	978.4	888.7	788.0	684.0	590.9	516.6
130°	1135.5	1127.2	1105.5	1068.2	1013.3	942.8	858.9	765.6	672.3	588.4	523.2
132.5°	1089.9	1084.1	1064.8	1027.5	976.0	908.8	830.7	744.9	661.6	587.6	528.2
135°	1024.7	1017.4	998.7	967.7	916.9	857.8	790.5	716.9	647.6	586.4	535.7
137.5°	955.6	950.8	935.1	903.7	860.9	809.8	751.7	691.4	635.3	584.1	540.6
140°	907.6	908.6	892.1	863.0	823.7	779.1	729.3	676.5	627.9	583.3	543.9
142.5°	862.8	863.8	848.9	823.2	789.7	750.9	707.8	662.5	621.2	581.7	546.4
145°	800.8	798.8	790.5	768.7	742.8	712.8	679.7	645.4	612.3	579.2	548.0
147.5°	749.8	749.0	741.2	726.5	706.8	685.5	658.7	631.6	603.6	575.2	548.0
150°	720.1	720.1	713.8	702.4	686.9	667.2	645.4	621.6	597.8	571.9	548.0
152.5°	695.2	695.2	691.4	680.9	668.7	652.3	633.0	612.5	591.2	567.8	545.5
155°	664.1	663.1	661.0	652.7	643.4	631.0	615.4	598.8	581.2	560.5	542.9
157.5°	635.7	635.9	634.3	628.0	619.9	610.2	598.2	584.3	570.0	554.1	539.4
160°	617.5	618.5	618.5	612.3	605.0	597.8	587.5	576.0	562.6	549.1	537.7
162.5°	600.9	601.9	601.9	596.6	591.7	585.3	575.9	566.1	555.1	544.1	534.4
165°	579.2	579.2	580.1	576.0	571.9	566.7	559.5	553.2	544.9	536.6	529.4
167.5°	558.4	558.4	559.5	556.5	554.7	551.0	546.8	542.1	535.2	529.2	524.4
170°	546.0	546.0	547.1	544.9	543.9	541.8	537.7	534.6	529.4	524.2	521.1
172.5°	534.4	535.2	537.1	535.0	534.8	533.6	530.2	528.0	523.6	520.0	518.6
175°	521.1	522.2	523.2	522.2	522.2	522.2	520.0	519.1	517.0	514.9	514.9
177.5°	513.4	513.4	515.1	514.2	515.1	515.1	514.2	513.4	512.6	511.8	512.6
180°	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8



TEST NUMBER: P332296-940

CATALOG NUMBER: S123RDIP-S560D1195U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	823.8	823.0	819.1	814.8	809.0	805.2	802.2	800.6	795.7	789.6	785.5
5°	874.7	864.4	853.5	840.2	827.9	815.3	807.4	798.2	786.9	774.3	765.4
7.5°	929.2	909.1	887.4	865.1	843.0	823.2	805.7	790.8	772.8	754.7	742.0
10°	971.0	941.6	911.2	880.1	851.8	825.2	804.7	784.5	763.0	742.2	726.5
12.5°	1009.0	970.4	935.3	897.1	860.9	829.0	799.5	775.8	749.9	727.7	709.8
15°	1057.0	1017.4	975.1	917.0	868.9	828.6	792.7	761.6	730.2	702.9	685.5
17.5°	1102.0	1042.4	985.5	937.0	874.5	824.1	780.3	743.2	708.7	679.8	658.3
20°	1120.6	1062.9	1001.0	939.2	877.8	821.4	770.5	729.5	693.7	660.8	641.1
22.5°	1131.8	1066.4	1001.3	934.9	869.6	811.0	760.7	715.6	676.7	645.6	621.2
25°	1144.9	1066.9	995.2	929.7	863.1	799.5	739.8	692.0	650.0	616.8	590.8
27.5°	1153.4	1061.8	977.0	904.2	836.6	773.4	718.6	667.9	625.3	590.2	562.4
30°	1155.1	1057.7	963.1	884.2	815.6	757.5	699.5	650.9	605.9	568.6	542.7
32.5°	1157.3	1047.7	944.3	860.5	790.2	732.7	680.1	633.7	587.5	550.9	524.4
35°	1148.3	1042.1	915.7	819.4	749.0	693.3	645.9	603.2	557.8	522.2	495.3
37.5°	1109.5	1019.8	886.0	773.0	699.5	647.9	609.2	572.0	530.4	492.0	466.6
40°	1070.4	998.0	863.1	744.9	668.1	615.1	580.2	549.9	509.6	473.7	446.4
42.5°	1012.2	968.2	841.2	715.4	632.5	581.5	552.1	523.6	488.3	451.8	426.1
45°	905.4	911.2	796.5	668.4	583.4	532.1	504.4	484.6	453.3	423.2	396.9
47.5°	771.5	825.8	744.0	618.3	531.5	483.4	459.2	441.9	420.8	391.3	367.3
50°	684.1	761.6	701.9	584.7	499.0	451.2	427.3	413.3	394.8	371.6	348.7
52.5°	603.5	686.8	651.0	547.2	463.8	420.0	396.6	385.1	370.5	348.7	328.0
55°	492.1	576.5	568.3	490.8	410.9	371.6	353.8	340.9	330.9	314.6	298.2
57.5°	398.1	478.0	482.3	427.9	364.3	325.5	310.2	300.4	293.9	281.6	266.4
60°	338.9	412.2	426.6	385.6	330.9	296.8	281.8	273.9	268.8	258.9	247.3
62.5°	289.6	352.1	368.4	338.9	299.0	267.0	255.3	247.7	244.2	235.7	225.4
65°	221.7	273.6	289.3	272.9	252.1	226.4	216.9	210.4	207.3	202.5	195.0
67.5°	166.7	204.6	221.8	210.2	202.7	186.5	180.4	176.9	174.2	170.9	164.6
70°	133.8	161.9	179.7	176.6	170.4	161.9	157.5	155.1	152.3	149.6	144.1
72.5°	107.6	126.9	143.6	145.2	140.1	138.4	134.5	133.5	131.8	128.6	125.6
75°	71.4	84.7	96.3	100.8	102.8	104.5	102.8	102.5	102.1	99.4	97.6
77.5°	46.8	53.9	61.3	68.8	72.1	74.4	74.9	76.2	75.3	73.8	73.0
80°	35.8	37.5	42.7	49.2	54.3	56.4	57.7	58.4	58.1	57.7	56.4
82.5°	26.0	27.5	29.9	34.4	38.7	42.2	43.0	42.8	43.6	43.8	42.7
85°	14.0	14.4	15.1	15.7	18.1	21.8	22.9	23.5	24.3	24.3	22.2
87.5°	8.3	7.4	7.3	7.0	7.3	7.0	8.2	9.2	9.8	9.2	9.8
90°	19.7	16.6	13.5	11.4	9.4	6.2	4.1	2.1	4.1	6.2	9.4
92.5°	131.6	87.0	59.9	44.6	35.8	27.7	19.1	12.8	19.1	27.7	35.8
95°	377.1	222.7	134.6	94.3	67.3	49.8	38.3	35.2	38.3	49.8	67.3
97.5°	413.8	239.8	155.6	111.9	85.3	70.0	61.1	60.1	61.1	70.0	85.3
100°	390.6	237.3	164.7	124.3	99.4	85.0	77.7	76.7	77.7	85.0	99.4
102.5°	370.7	240.6	175.5	138.4	116.0	102.4	95.9	94.1	95.9	102.4	116.0
105°	356.4	249.7	193.8	161.6	142.0	129.5	123.3	120.2	123.3	129.5	142.0
107.5°	355.3	266.7	217.6	187.7	169.2	157.0	151.1	147.9	151.1	157.0	169.2
110°	359.5	280.8	234.2	205.1	187.5	176.1	170.9	167.8	170.9	176.1	187.5



TEST NUMBER: P332296-940

CATALOG NUMBER: S123RDIP-S560D1195U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	367.8	294.9	251.6	223.4	205.7	194.4	189.2	186.1	189.2	194.4	205.7
115°	381.3	318.1	278.7	250.7	233.1	222.7	216.5	212.4	216.5	222.7	233.1
117.5°	399.0	342.7	303.8	277.9	258.2	248.6	243.4	238.7	243.4	248.6	258.2
120°	412.3	358.5	321.2	295.2	275.6	265.2	260.0	256.9	260.0	265.2	275.6
122.5°	424.8	375.1	338.6	311.0	292.1	281.0	275.8	272.7	275.8	281.0	292.1
125°	444.4	398.9	362.6	334.7	315.0	303.5	297.4	295.2	297.4	303.5	315.0
127.5°	460.7	419.5	384.6	356.6	334.8	323.2	315.6	312.5	315.6	323.2	334.8
130°	471.4	432.0	397.8	369.9	348.1	335.6	326.4	323.2	326.4	335.6	348.1
132.5°	481.3	442.8	409.5	382.3	360.5	345.6	335.5	331.5	335.5	345.6	360.5
135°	494.2	459.0	426.9	398.9	377.1	361.6	350.2	346.1	350.2	361.6	377.1
137.5°	503.7	470.1	439.3	413.4	391.8	375.2	364.1	359.7	364.1	375.2	391.8
140°	508.7	477.6	447.5	421.7	400.9	384.3	374.0	368.8	374.0	384.3	400.9
142.5°	513.6	483.4	454.2	430.0	409.2	394.3	383.2	378.8	383.2	394.3	409.2
145°	519.1	491.1	464.1	440.3	422.7	407.2	397.8	394.8	397.8	407.2	422.7
147.5°	522.4	497.3	472.6	452.4	435.3	421.9	412.8	410.9	412.8	421.9	435.3
150°	523.2	501.4	477.6	459.0	444.4	431.0	422.7	421.7	422.7	431.0	444.4
152.5°	524.9	503.9	483.4	465.6	452.7	441.0	432.7	432.5	432.7	441.0	452.7
155°	525.3	508.7	491.1	476.5	465.2	454.9	448.6	448.6	448.6	454.9	465.2
157.5°	526.3	511.4	497.3	486.1	476.4	467.3	462.3	461.5	462.3	467.3	476.4
160°	526.3	513.9	501.4	491.1	483.8	475.5	471.4	471.4	471.4	475.5	483.8
162.5°	525.5	514.7	503.9	495.3	488.8	482.1	478.8	478.8	478.8	482.1	488.8
165°	523.2	515.9	507.7	500.4	496.2	491.1	489.0	490.1	489.0	491.1	496.2
167.5°	521.6	515.8	509.7	505.2	502.3	498.3	497.3	498.6	497.3	498.3	502.3
170°	519.1	514.9	509.7	507.7	505.6	502.5	501.4	503.5	501.4	502.5	505.6
172.5°	518.3	514.9	510.6	509.3	508.1	505.8	505.6	506.8	505.6	505.8	508.1
175°	515.9	513.9	511.8	510.8	510.8	508.7	509.7	510.8	509.7	508.7	510.8
177.5°	514.2	512.6	511.8	511.8	511.8	511.0	511.8	512.6	511.8	511.0	511.8
180°	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8



TEST NUMBER: P332296-940

CATALOG NUMBER: S123RDIP-S560D1195U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	784.2	780.6	778.2	772.7	769.2	765.4	761.5	763.9	763.7	763.4	763.4
5°	757.9	750.0	742.9	733.6	727.8	720.7	715.2	714.5	715.9	711.1	708.4
7.5°	731.8	721.0	710.9	700.7	689.9	681.3	675.9	673.4	669.9	667.0	663.9
10°	713.5	700.9	690.9	678.3	666.7	656.5	650.0	645.5	643.1	640.7	636.3
12.5°	694.6	682.2	669.6	655.3	644.3	632.4	627.6	622.6	618.0	615.3	609.2
15°	667.0	650.9	637.7	622.6	610.4	598.7	591.9	582.0	580.6	577.2	571.1
17.5°	639.4	622.0	603.6	592.5	578.5	566.5	556.1	552.8	543.0	539.3	534.0
20°	617.5	601.5	587.5	572.7	552.6	541.4	533.2	528.7	520.8	516.0	512.6
22.5°	598.7	582.3	566.1	549.0	532.4	519.8	513.7	506.8	502.6	495.9	492.1
25°	571.8	554.0	534.5	516.0	504.1	494.5	485.0	478.8	472.7	469.6	462.8
27.5°	540.5	521.9	503.7	489.7	475.0	465.6	456.9	451.5	444.1	438.9	435.2
30°	523.3	501.4	485.7	473.1	454.2	445.4	438.9	432.0	426.6	421.2	417.3
32.5°	503.3	483.3	468.4	452.8	438.4	428.7	420.3	414.3	409.7	404.5	400.7
35°	472.0	455.3	439.9	424.2	413.6	403.7	393.8	388.7	384.2	379.4	376.0
37.5°	443.7	428.1	413.5	398.6	385.5	377.4	369.4	365.5	359.5	356.3	352.8
40°	426.2	410.9	395.2	380.8	367.1	361.1	353.8	348.0	342.6	340.2	336.4
42.5°	407.2	391.7	378.5	363.0	351.9	343.5	336.9	330.6	326.5	323.0	320.8
45°	378.8	365.1	352.1	336.8	326.2	319.0	311.5	305.7	301.9	299.5	295.8
47.5°	351.2	337.6	324.4	311.0	300.8	292.6	285.1	281.0	276.1	273.1	270.5
50°	331.3	319.0	305.0	292.7	282.5	274.3	268.1	263.0	258.5	254.8	253.1
52.5°	313.0	299.9	287.8	276.3	265.6	256.2	250.7	245.2	241.9	237.6	235.6
55°	282.8	270.2	259.9	248.6	238.1	230.2	223.4	218.6	215.2	210.4	207.7
57.5°	254.4	243.1	230.9	221.1	210.2	203.6	197.9	191.4	187.3	183.5	180.8
60°	235.3	222.3	211.8	202.5	193.0	184.4	179.3	174.2	169.8	165.9	163.6
62.5°	215.3	204.0	194.0	184.0	175.2	167.7	161.8	157.5	153.6	151.2	148.8
65°	184.8	175.9	165.7	157.5	149.3	143.8	139.0	135.3	132.5	130.8	128.8
67.5°	156.7	148.0	139.1	131.0	125.6	121.4	118.2	115.0	113.7	111.5	110.1
70°	138.3	129.5	121.6	115.5	109.9	106.9	104.9	102.5	101.1	98.4	97.0
72.5°	118.4	112.0	106.3	101.2	96.8	94.1	91.5	88.5	86.3	83.4	81.9
75°	93.3	87.5	83.0	79.5	76.9	73.1	69.4	66.3	65.3	64.2	63.8
77.5°	69.0	65.4	62.2	59.3	55.9	53.1	52.3	51.6	51.5	50.9	50.9
80°	54.3	50.9	48.5	45.1	43.1	43.1	43.1	42.4	42.7	42.7	42.7
82.5°	40.4	37.2	35.9	34.7	34.3	34.6	34.6	34.7	34.5	35.0	34.8
85°	20.9	21.1	21.8	21.5	21.8	21.8	22.6	22.2	22.6	21.8	22.6
87.5°	9.9	11.1	12.0	12.9	13.8	14.2	14.3	14.4	15.0	15.2	15.6
90°	11.4	13.5	16.6	19.7	22.8	25.9	24.9	25.9	26.9	28.0	30.1
92.5°	44.6	59.9	87.0	131.6	175.3	159.3	120.2	87.2	69.2	61.1	55.7
95°	94.3	134.6	222.7	377.1	547.1	614.4	498.3	373.0	252.8	197.9	160.6
97.5°	111.9	155.6	239.8	413.8	697.1	952.1	1018.6	929.7	744.7	611.1	487.1
100°	124.3	164.7	237.3	390.6	663.1	981.1	1185.3	1221.5	1137.6	1016.4	869.2
102.5°	138.4	175.5	240.6	370.7	613.3	927.3	1193.5	1318.5	1315.7	1245.1	1151.8
105°	161.6	193.8	249.7	356.4	552.2	832.9	1130.3	1346.8	1450.5	1470.2	1443.2
107.5°	187.7	217.6	266.7	355.3	513.3	749.7	1019.7	1265.2	1433.4	1524.2	1561.1
110°	205.1	234.2	280.8	359.5	498.3	702.4	950.0	1187.3	1378.0	1508.5	1581.0



TEST NUMBER: P332296-940

CATALOG NUMBER: S123RDIP-S560D1195U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	223.4	251.6	294.9	367.8	490.1	670.9	889.6	1110.2	1305.0	1451.3	1544.5
115°	250.7	278.7	318.1	381.3	487.0	637.1	816.4	1008.1	1188.3	1340.6	1453.6
117.5°	277.9	303.8	342.7	399.0	488.8	617.2	772.2	934.1	1089.7	1226.5	1341.0
120°	295.2	321.2	358.5	412.3	492.1	608.1	749.0	895.1	1035.0	1159.3	1264.0
122.5°	311.0	338.6	375.1	424.8	497.9	602.4	730.0	864.4	991.0	1106.3	1203.5
125°	334.7	362.6	398.9	444.4	506.6	594.7	705.5	823.7	936.6	1036.0	1118.9
127.5°	356.6	384.6	419.5	460.7	516.6	590.9	684.0	788.0	888.7	978.4	1053.8
130°	369.9	397.8	432.0	471.4	523.2	588.4	672.3	765.6	858.9	942.8	1013.3
132.5°	382.3	409.5	442.8	481.3	528.2	587.6	661.6	744.9	830.7	908.8	976.0
135°	398.9	426.9	459.0	494.2	535.7	586.4	647.6	716.9	790.5	857.8	916.9
137.5°	413.4	439.3	470.1	503.7	540.6	584.1	635.3	691.4	751.7	809.8	860.9
140°	421.7	447.5	477.6	508.7	543.9	583.3	627.9	676.5	729.3	779.1	823.7
142.5°	430.0	454.2	483.4	513.6	546.4	581.7	621.2	662.5	707.8	750.9	789.7
145°	440.3	464.1	491.1	519.1	548.0	579.2	612.3	645.4	679.7	712.8	742.8
147.5°	452.4	472.6	497.3	522.4	548.0	575.2	603.6	631.6	658.7	685.5	706.8
150°	459.0	477.6	501.4	523.2	548.0	571.9	597.8	621.6	645.4	667.2	686.9
152.5°	465.6	483.4	503.9	524.9	545.5	567.8	591.2	612.5	633.0	652.3	668.7
155°	476.5	491.1	508.7	525.3	542.9	560.5	581.2	598.8	615.4	631.0	643.4
157.5°	486.1	497.3	511.4	526.3	539.4	554.1	570.0	584.3	598.2	610.2	619.9
160°	491.1	501.4	513.9	526.3	537.7	549.1	562.6	576.0	587.5	597.8	605.0
162.5°	495.3	503.9	514.7	525.5	534.4	544.1	555.1	566.1	575.9	585.3	591.7
165°	500.4	507.7	515.9	523.2	529.4	536.6	544.9	553.2	559.5	566.7	571.9
167.5°	505.2	509.7	515.8	521.6	524.4	529.2	535.2	542.1	546.8	551.0	554.7
170°	507.7	509.7	514.9	519.1	521.1	524.2	529.4	534.6	537.7	541.8	543.9
172.5°	509.3	510.6	514.9	518.3	518.6	520.0	523.6	528.0	530.2	533.6	534.8
175°	510.8	511.8	513.9	515.9	514.9	514.9	517.0	519.1	520.0	522.2	522.2
177.5°	511.8	511.8	512.6	514.2	512.6	511.8	512.6	513.4	514.2	515.1	515.1
180°	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8



TEST NUMBER: P332296-940

CATALOG NUMBER: S123RDIP-S560D1195U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	760.1	759.8	760.1	759.0	760.1	759.8	760.1	763.4	763.4	763.7	763.9
5°	707.3	706.9	706.0	702.9	706.0	706.9	707.3	708.4	711.1	715.9	714.5
7.5°	661.2	660.8	657.7	657.8	657.7	660.8	661.2	663.9	667.0	669.9	673.4
10°	633.9	634.3	630.2	627.8	630.2	634.3	633.9	636.3	640.7	643.1	645.5
12.5°	607.4	605.8	602.5	599.9	602.5	605.8	607.4	609.2	615.3	618.0	622.6
15°	572.4	569.0	560.8	561.5	560.8	569.0	572.4	571.1	577.2	580.6	582.0
17.5°	531.2	528.7	528.6	523.8	528.6	528.7	531.2	534.0	539.3	543.0	552.8
20°	507.2	505.5	506.1	501.4	506.1	505.5	507.2	512.6	516.0	520.8	528.7
22.5°	488.3	486.6	483.8	482.2	483.8	486.6	488.3	492.1	495.9	502.6	506.8
25°	460.7	458.0	455.3	457.0	455.3	458.0	460.7	462.8	469.6	472.7	478.8
27.5°	433.1	431.1	428.4	428.0	428.4	431.1	433.1	435.2	438.9	444.1	451.5
30°	415.6	413.6	412.2	410.5	412.2	413.6	415.6	417.3	421.2	426.6	432.0
32.5°	397.9	397.5	395.0	394.7	395.0	397.5	397.9	400.7	404.5	409.7	414.3
35°	374.7	372.6	371.9	372.3	371.9	372.6	374.7	376.0	379.4	384.2	388.7
37.5°	352.6	349.9	348.7	347.4	348.7	349.9	352.6	352.8	356.3	359.5	365.5
40°	336.8	334.0	333.3	332.7	333.3	334.0	336.8	336.4	340.2	342.6	348.0
42.5°	319.0	317.9	317.5	316.3	317.5	317.9	319.0	320.8	323.0	326.5	330.6
45°	294.7	294.4	292.4	293.0	292.4	294.4	294.7	295.8	299.5	301.9	305.7
47.5°	269.2	267.7	266.3	267.2	266.3	267.7	269.2	270.5	273.1	276.1	281.0
50°	251.7	251.0	248.0	248.6	248.0	251.0	251.7	253.1	254.8	258.5	263.0
52.5°	234.3	231.7	230.5	230.1	230.5	231.7	234.3	235.6	237.6	241.9	245.2
55°	205.3	202.2	200.8	200.1	200.8	202.2	205.3	207.7	210.4	215.2	218.6
57.5°	176.8	176.0	175.0	175.7	175.0	176.0	176.8	180.8	183.5	187.3	191.4
60°	160.2	160.2	160.2	159.9	160.2	160.2	160.2	163.6	165.9	169.8	174.2
62.5°	147.3	146.5	146.2	146.7	146.2	146.5	147.3	148.8	151.2	153.6	157.5
65°	127.7	127.4	126.0	125.7	126.0	127.4	127.7	128.8	130.8	132.5	135.3
67.5°	109.2	108.0	107.6	107.1	107.6	108.0	109.2	110.1	111.5	113.7	115.0
70°	95.3	94.6	92.6	92.9	92.6	94.6	95.3	97.0	98.4	101.1	102.5
72.5°	80.3	79.5	79.2	78.6	79.2	79.5	80.3	81.9	83.4	86.3	88.5
75°	63.5	63.2	62.9	64.2	62.9	63.2	63.5	63.8	64.2	65.3	66.3
77.5°	50.9	50.9	51.1	50.6	51.1	50.9	50.9	50.9	50.9	51.5	51.6
80°	42.7	42.7	42.4	42.4	42.4	42.7	42.7	42.7	42.7	42.7	42.4
82.5°	34.2	34.5	34.7	34.2	34.7	34.5	34.2	34.8	35.0	34.5	34.7
85°	22.6	22.2	22.9	22.6	22.9	22.2	22.6	22.6	21.8	22.6	22.2
87.5°	15.9	15.6	15.8	15.9	15.8	15.6	15.9	15.6	15.2	15.0	14.4
90°	29.0	30.1	31.1	30.1	31.1	30.1	29.0	30.1	28.0	26.9	25.9
92.5°	53.9	50.7	51.8	49.9	51.8	50.7	53.9	55.7	61.1	69.2	87.2
95°	140.9	131.6	124.3	120.2	124.3	131.6	140.9	160.6	197.9	252.8	373.0
97.5°	410.7	364.1	336.1	327.2	336.1	364.1	410.7	487.1	611.1	744.7	929.7
100°	764.6	688.9	648.5	649.6	648.5	688.9	764.6	869.2	1016.4	1137.6	1221.5
102.5°	1070.4	1010.6	976.8	953.0	976.8	1010.6	1070.4	1151.8	1245.1	1315.7	1318.5
105°	1395.5	1356.2	1323.0	1317.9	1323.0	1356.2	1395.5	1443.2	1470.2	1450.5	1346.8
107.5°	1561.9	1548.6	1537.5	1527.9	1537.5	1548.6	1561.9	1561.1	1524.2	1433.4	1265.2
110°	1610.0	1618.3	1616.2	1614.2	1616.2	1618.3	1610.0	1581.0	1508.5	1378.0	1187.3



TEST NUMBER: P332296-940

CATALOG NUMBER: S123RDIP-S560D1195U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1597.6	1623.3	1631.1	1631.6	1631.1	1623.3	1597.6	1544.5	1451.3	1305.0	1110.2
115°	1531.2	1576.8	1597.6	1602.8	1597.6	1576.8	1531.2	1453.6	1340.6	1188.3	1008.1
117.5°	1422.1	1474.3	1504.1	1511.2	1504.1	1474.3	1422.1	1341.0	1226.5	1089.7	934.1
120°	1345.8	1403.8	1428.7	1434.9	1428.7	1403.8	1345.8	1264.0	1159.3	1035.0	895.1
122.5°	1276.2	1328.4	1355.8	1363.6	1355.8	1328.4	1276.2	1203.5	1106.3	991.0	864.4
125°	1185.3	1230.8	1256.7	1264.0	1256.7	1230.8	1185.3	1118.9	1036.0	936.6	823.7
127.5°	1112.9	1151.8	1175.3	1181.9	1175.3	1151.8	1112.9	1053.8	978.4	888.7	788.0
130°	1068.2	1105.5	1127.2	1135.5	1127.2	1105.5	1068.2	1013.3	942.8	858.9	765.6
132.5°	1027.5	1064.8	1084.1	1089.9	1084.1	1064.8	1027.5	976.0	908.8	830.7	744.9
135°	967.7	998.7	1017.4	1024.7	1017.4	998.7	967.7	916.9	857.8	790.5	716.9
137.5°	903.7	935.1	950.8	955.6	950.8	935.1	903.7	860.9	809.8	751.7	691.4
140°	863.0	892.1	908.6	907.6	908.6	892.1	863.0	823.7	779.1	729.3	676.5
142.5°	823.2	848.9	863.8	862.8	863.8	848.9	823.2	789.7	750.9	707.8	662.5
145°	768.7	790.5	798.8	800.8	798.8	790.5	768.7	742.8	712.8	679.7	645.4
147.5°	726.5	741.2	749.0	749.8	749.0	741.2	726.5	706.8	685.5	658.7	631.6
150°	702.4	713.8	720.1	720.1	720.1	713.8	702.4	686.9	667.2	645.4	621.6
152.5°	680.9	691.4	695.2	695.2	695.2	691.4	680.9	668.7	652.3	633.0	612.5
155°	652.7	661.0	663.1	664.1	663.1	661.0	652.7	643.4	631.0	615.4	598.8
157.5°	628.0	634.3	635.9	635.7	635.9	634.3	628.0	619.9	610.2	598.2	584.3
160°	612.3	618.5	618.5	617.5	618.5	618.5	612.3	605.0	597.8	587.5	576.0
162.5°	596.6	601.9	601.9	600.9	601.9	601.9	596.6	591.7	585.3	575.9	566.1
165°	576.0	580.1	579.2	579.2	579.2	580.1	576.0	571.9	566.7	559.5	553.2
167.5°	556.5	559.5	558.4	558.4	558.4	559.5	556.5	554.7	551.0	546.8	542.1
170°	544.9	547.1	546.0	546.0	546.0	547.1	544.9	543.9	541.8	537.7	534.6
172.5°	535.0	537.1	535.2	534.4	535.2	537.1	535.0	534.8	533.6	530.2	528.0
175°	522.2	523.2	522.2	521.1	522.2	523.2	522.2	522.2	522.2	520.0	519.1
177.5°	514.2	515.1	513.4	513.4	513.4	515.1	514.2	515.1	515.1	514.2	513.4
180°	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8



TEST NUMBER: P332296-940

CATALOG NUMBER: S123RDIP-S560D1195U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	761.5	765.4	769.2	772.7	778.2	780.6	784.2	785.5	789.6	795.7	800.6
5°	715.2	720.7	727.8	733.6	742.9	750.0	757.9	765.4	774.3	786.9	798.2
7.5°	675.9	681.3	689.9	700.7	710.9	721.0	731.8	742.0	754.7	772.8	790.8
10°	650.0	656.5	666.7	678.3	690.9	700.9	713.5	726.5	742.2	763.0	784.5
12.5°	627.6	632.4	644.3	655.3	669.6	682.2	694.6	709.8	727.7	749.9	775.8
15°	591.9	598.7	610.4	622.6	637.7	650.9	667.0	685.5	702.9	730.2	761.6
17.5°	556.1	566.5	578.5	592.5	603.6	622.0	639.4	658.3	679.8	708.7	743.2
20°	533.2	541.4	552.6	572.7	587.5	601.5	617.5	641.1	660.8	693.7	729.5
22.5°	513.7	519.8	532.4	549.0	566.1	582.3	598.7	621.2	645.6	676.7	715.6
25°	485.0	494.5	504.1	516.0	534.5	554.0	571.8	590.8	616.8	650.0	692.0
27.5°	456.9	465.6	475.0	489.7	503.7	521.9	540.5	562.4	590.2	625.3	667.9
30°	438.9	445.4	454.2	473.1	485.7	501.4	523.3	542.7	568.6	605.9	650.9
32.5°	420.3	428.7	438.4	452.8	468.4	483.3	503.3	524.4	550.9	587.5	633.7
35°	393.8	403.7	413.6	424.2	439.9	455.3	472.0	495.3	522.2	557.8	603.2
37.5°	369.4	377.4	385.5	398.6	413.5	428.1	443.7	466.6	492.0	530.4	572.0
40°	353.8	361.1	367.1	380.8	395.2	410.9	426.2	446.4	473.7	509.6	549.9
42.5°	336.9	343.5	351.9	363.0	378.5	391.7	407.2	426.1	451.8	488.3	523.6
45°	311.5	319.0	326.2	336.8	352.1	365.1	378.8	396.9	423.2	453.3	484.6
47.5°	285.1	292.6	300.8	311.0	324.4	337.6	351.2	367.3	391.3	420.8	441.9
50°	268.1	274.3	282.5	292.7	305.0	319.0	331.3	348.7	371.6	394.8	413.3
52.5°	250.7	256.2	265.6	276.3	287.8	299.9	313.0	328.0	348.7	370.5	385.1
55°	223.4	230.2	238.1	248.6	259.9	270.2	282.8	298.2	314.6	330.9	340.9
57.5°	197.9	203.6	210.2	221.1	230.9	243.1	254.4	266.4	281.6	293.9	300.4
60°	179.3	184.4	193.0	202.5	211.8	222.3	235.3	247.3	258.9	268.8	273.9
62.5°	161.8	167.7	175.2	184.0	194.0	204.0	215.3	225.4	235.7	244.2	247.7
65°	139.0	143.8	149.3	157.5	165.7	175.9	184.8	195.0	202.5	207.3	210.4
67.5°	118.2	121.4	125.6	131.0	139.1	148.0	156.7	164.6	170.9	174.2	176.9
70°	104.9	106.9	109.9	115.5	121.6	129.5	138.3	144.1	149.6	152.3	155.1
72.5°	91.5	94.1	96.8	101.2	106.3	112.0	118.4	125.6	128.6	131.8	133.5
75°	69.4	73.1	76.9	79.5	83.0	87.5	93.3	97.6	99.4	102.1	102.5
77.5°	52.3	53.1	55.9	59.3	62.2	65.4	69.0	73.0	73.8	75.3	76.2
80°	43.1	43.1	43.1	45.1	48.5	50.9	54.3	56.4	57.7	58.1	58.4
82.5°	34.6	34.6	34.3	34.7	35.9	37.2	40.4	42.7	43.8	43.6	42.8
85°	22.6	21.8	21.8	21.5	21.8	21.1	20.9	22.2	24.3	24.3	23.5
87.5°	14.3	14.2	13.8	12.9	12.0	11.1	9.9	9.8	9.2	9.8	9.2
90°	24.9	25.9	22.8	19.7	16.6	13.5	11.4	9.4	6.2	4.1	2.1
92.5°	120.2	159.3	175.3	131.6	87.0	59.9	44.6	35.8	27.7	19.1	12.8
95°	498.3	614.4	547.1	377.1	222.7	134.6	94.3	67.3	49.8	38.3	35.2
97.5°	1018.6	952.1	697.1	413.8	239.8	155.6	111.9	85.3	70.0	61.1	60.1
100°	1185.3	981.1	663.1	390.6	237.3	164.7	124.3	99.4	85.0	77.7	76.7
102.5°	1193.5	927.3	613.3	370.7	240.6	175.5	138.4	116.0	102.4	95.9	94.1
105°	1130.3	832.9	552.2	356.4	249.7	193.8	161.6	142.0	129.5	123.3	120.2
107.5°	1019.7	749.7	513.3	355.3	266.7	217.6	187.7	169.2	157.0	151.1	147.9
110°	950.0	702.4	498.3	359.5	280.8	234.2	205.1	187.5	176.1	170.9	167.8



TEST NUMBER: P332296-940

CATALOG NUMBER: S123RDIP-S560D1195U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	889.6	670.9	490.1	367.8	294.9	251.6	223.4	205.7	194.4	189.2	186.1
115°	816.4	637.1	487.0	381.3	318.1	278.7	250.7	233.1	222.7	216.5	212.4
117.5°	772.2	617.2	488.8	399.0	342.7	303.8	277.9	258.2	248.6	243.4	238.7
120°	749.0	608.1	492.1	412.3	358.5	321.2	295.2	275.6	265.2	260.0	256.9
122.5°	730.0	602.4	497.9	424.8	375.1	338.6	311.0	292.1	281.0	275.8	272.7
125°	705.5	594.7	506.6	444.4	398.9	362.6	334.7	315.0	303.5	297.4	295.2
127.5°	684.0	590.9	516.6	460.7	419.5	384.6	356.6	334.8	323.2	315.6	312.5
130°	672.3	588.4	523.2	471.4	432.0	397.8	369.9	348.1	335.6	326.4	323.2
132.5°	661.6	587.6	528.2	481.3	442.8	409.5	382.3	360.5	345.6	335.5	331.5
135°	647.6	586.4	535.7	494.2	459.0	426.9	398.9	377.1	361.6	350.2	346.1
137.5°	635.3	584.1	540.6	503.7	470.1	439.3	413.4	391.8	375.2	364.1	359.7
140°	627.9	583.3	543.9	508.7	477.6	447.5	421.7	400.9	384.3	374.0	368.8
142.5°	621.2	581.7	546.4	513.6	483.4	454.2	430.0	409.2	394.3	383.2	378.8
145°	612.3	579.2	548.0	519.1	491.1	464.1	440.3	422.7	407.2	397.8	394.8
147.5°	603.6	575.2	548.0	522.4	497.3	472.6	452.4	435.3	421.9	412.8	410.9
150°	597.8	571.9	548.0	523.2	501.4	477.6	459.0	444.4	431.0	422.7	421.7
152.5°	591.2	567.8	545.5	524.9	503.9	483.4	465.6	452.7	441.0	432.7	432.5
155°	581.2	560.5	542.9	525.3	508.7	491.1	476.5	465.2	454.9	448.6	448.6
157.5°	570.0	554.1	539.4	526.3	511.4	497.3	486.1	476.4	467.3	462.3	461.5
160°	562.6	549.1	537.7	526.3	513.9	501.4	491.1	483.8	475.5	471.4	471.4
162.5°	555.1	544.1	534.4	525.5	514.7	503.9	495.3	488.8	482.1	478.8	478.8
165°	544.9	536.6	529.4	523.2	515.9	507.7	500.4	496.2	491.1	489.0	490.1
167.5°	535.2	529.2	524.4	521.6	515.8	509.7	505.2	502.3	498.3	497.3	498.6
170°	529.4	524.2	521.1	519.1	514.9	509.7	507.7	505.6	502.5	501.4	503.5
172.5°	523.6	520.0	518.6	518.3	514.9	510.6	509.3	508.1	505.8	505.6	506.8
175°	517.0	514.9	514.9	515.9	513.9	511.8	510.8	510.8	508.7	509.7	510.8
177.5°	512.6	511.8	512.6	514.2	512.6	511.8	511.8	511.8	511.0	511.8	512.6
180°	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8



TEST NUMBER: P332296-940

CATALOG NUMBER: S123RDIP-S560D1195U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	802.2	805.2	809.0	814.8	819.1	823.0	823.8	824.9	827.6	832.2	835.8
5°	807.4	815.3	827.9	840.2	853.5	864.4	874.7	881.9	888.7	903.0	914.6
7.5°	805.7	823.2	843.0	865.1	887.4	909.1	929.2	947.2	965.1	986.0	1009.8
10°	804.7	825.2	851.8	880.1	911.2	941.6	971.0	993.9	1020.6	1044.5	1074.9
12.5°	799.5	829.0	860.9	897.1	935.3	970.4	1009.0	1040.6	1071.0	1105.6	1140.9
15°	792.7	828.6	868.9	917.0	975.1	1017.4	1057.0	1112.1	1149.6	1187.2	1237.8
17.5°	780.3	824.1	874.5	937.0	985.5	1042.4	1102.0	1145.5	1196.1	1249.0	1294.8
20°	770.5	821.4	877.8	939.2	1001.0	1062.9	1120.6	1172.5	1224.8	1285.9	1323.5
22.5°	760.7	811.0	869.6	934.9	1001.3	1066.4	1131.8	1192.8	1251.5	1313.2	1361.2
25°	739.8	799.5	863.1	929.7	995.2	1066.9	1144.9	1212.8	1285.6	1349.1	1394.5
27.5°	718.6	773.4	836.6	904.2	977.0	1061.8	1153.4	1230.7	1303.6	1349.1	1363.3
30°	699.5	757.5	815.6	884.2	963.1	1057.7	1155.1	1243.6	1303.3	1323.1	1308.4
32.5°	680.1	732.7	790.2	860.5	944.3	1047.7	1157.3	1235.9	1271.9	1256.8	1196.9
35°	645.9	693.3	749.0	819.4	915.7	1042.1	1148.3	1201.6	1192.7	1107.2	994.5
37.5°	609.2	647.9	699.5	773.0	886.0	1019.8	1109.5	1117.3	1040.4	909.4	779.2
40°	580.2	615.1	668.1	744.9	863.1	998.0	1070.4	1038.7	919.4	773.6	664.9
42.5°	552.1	581.5	632.5	715.4	841.2	968.2	1012.2	943.0	805.5	667.5	568.8
45°	504.4	532.1	583.4	668.4	796.5	911.2	905.4	785.2	647.6	536.5	454.6
47.5°	459.2	483.4	531.5	618.3	744.0	825.8	771.5	643.6	526.8	437.8	379.3
50°	427.3	451.2	499.0	584.7	701.9	761.6	684.1	560.8	453.9	380.1	333.7
52.5°	396.6	420.0	463.8	547.2	651.0	686.8	603.5	489.2	400.1	336.4	296.5
55°	353.8	371.6	410.9	490.8	568.3	576.5	492.1	396.5	323.1	278.7	251.4
57.5°	310.2	325.5	364.3	427.9	482.3	478.0	398.1	315.4	265.9	232.9	213.1
60°	281.8	296.8	330.9	385.6	426.6	412.2	338.9	272.2	229.9	205.6	189.9
62.5°	255.3	267.0	299.0	338.9	368.4	352.1	289.6	234.5	200.9	180.5	168.0
65°	216.9	226.4	252.1	272.9	289.3	273.6	221.7	183.4	159.2	144.8	136.3
67.5°	180.4	186.5	202.7	210.2	221.8	204.6	166.7	141.1	127.2	115.2	109.2
70°	157.5	161.9	170.4	176.6	179.7	161.9	133.8	115.1	103.5	95.0	91.2
72.5°	134.5	138.4	140.1	145.2	143.6	126.9	107.6	92.7	84.4	78.6	73.7
75°	102.8	104.5	102.8	100.8	96.3	84.7	71.4	63.8	57.7	55.0	53.3
77.5°	74.9	74.4	72.1	68.8	61.3	53.9	46.8	44.2	41.6	40.1	39.6
80°	57.7	56.4	54.3	49.2	42.7	37.5	35.8	34.2	33.2	31.4	31.1
82.5°	43.0	42.2	38.7	34.4	29.9	27.5	26.0	25.4	24.3	23.5	23.5
85°	22.9	21.8	18.1	15.7	15.1	14.4	14.0	14.0	12.7	12.3	12.3
87.5°	8.2	7.0	7.3	7.0	7.3	7.4	8.3	8.4	8.7	8.8	8.5
90°	4.1	6.2	9.4	11.4	13.5	16.6	19.7	22.8	25.9	24.9	25.9
92.5°	19.1	27.7	35.8	44.6	59.9	87.0	131.6	175.3	159.3	120.2	87.2
95°	38.3	49.8	67.3	94.3	134.6	222.7	377.1	547.1	614.4	498.3	373.0
97.5°	61.1	70.0	85.3	111.9	155.6	239.8	413.8	697.1	952.1	1018.6	929.7
100°	77.7	85.0	99.4	124.3	164.7	237.3	390.6	663.1	981.1	1185.3	1221.5
102.5°	95.9	102.4	116.0	138.4	175.5	240.6	370.7	613.3	927.3	1193.5	1318.5
105°	123.3	129.5	142.0	161.6	193.8	249.7	356.4	552.2	832.9	1130.3	1346.8
107.5°	151.1	157.0	169.2	187.7	217.6	266.7	355.3	513.3	749.7	1019.7	1265.2
110°	170.9	176.1	187.5	205.1	234.2	280.8	359.5	498.3	702.4	950.0	1187.3



TEST NUMBER: P332296-940

CATALOG NUMBER: S123RDIP-S560D1195U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	189.2	194.4	205.7	223.4	251.6	294.9	367.8	490.1	670.9	889.6	1110.2
115°	216.5	222.7	233.1	250.7	278.7	318.1	381.3	487.0	637.1	816.4	1008.1
117.5°	243.4	248.6	258.2	277.9	303.8	342.7	399.0	488.8	617.2	772.2	934.1
120°	260.0	265.2	275.6	295.2	321.2	358.5	412.3	492.1	608.1	749.0	895.1
122.5°	275.8	281.0	292.1	311.0	338.6	375.1	424.8	497.9	602.4	730.0	864.4
125°	297.4	303.5	315.0	334.7	362.6	398.9	444.4	506.6	594.7	705.5	823.7
127.5°	315.6	323.2	334.8	356.6	384.6	419.5	460.7	516.6	590.9	684.0	788.0
130°	326.4	335.6	348.1	369.9	397.8	432.0	471.4	523.2	588.4	672.3	765.6
132.5°	335.5	345.6	360.5	382.3	409.5	442.8	481.3	528.2	587.6	661.6	744.9
135°	350.2	361.6	377.1	398.9	426.9	459.0	494.2	535.7	586.4	647.6	716.9
137.5°	364.1	375.2	391.8	413.4	439.3	470.1	503.7	540.6	584.1	635.3	691.4
140°	374.0	384.3	400.9	421.7	447.5	477.6	508.7	543.9	583.3	627.9	676.5
142.5°	383.2	394.3	409.2	430.0	454.2	483.4	513.6	546.4	581.7	621.2	662.5
145°	397.8	407.2	422.7	440.3	464.1	491.1	519.1	548.0	579.2	612.3	645.4
147.5°	412.8	421.9	435.3	452.4	472.6	497.3	522.4	548.0	575.2	603.6	631.6
150°	422.7	431.0	444.4	459.0	477.6	501.4	523.2	548.0	571.9	597.8	621.6
152.5°	432.7	441.0	452.7	465.6	483.4	503.9	524.9	545.5	567.8	591.2	612.5
155°	448.6	454.9	465.2	476.5	491.1	508.7	525.3	542.9	560.5	581.2	598.8
157.5°	462.3	467.3	476.4	486.1	497.3	511.4	526.3	539.4	554.1	570.0	584.3
160°	471.4	475.5	483.8	491.1	501.4	513.9	526.3	537.7	549.1	562.6	576.0
162.5°	478.8	482.1	488.8	495.3	503.9	514.7	525.5	534.4	544.1	555.1	566.1
165°	489.0	491.1	496.2	500.4	507.7	515.9	523.2	529.4	536.6	544.9	553.2
167.5°	497.3	498.3	502.3	505.2	509.7	515.8	521.6	524.4	529.2	535.2	542.1
170°	501.4	502.5	505.6	507.7	509.7	514.9	519.1	521.1	524.2	529.4	534.6
172.5°	505.6	505.8	508.1	509.3	510.6	514.9	518.3	518.6	520.0	523.6	528.0
175°	509.7	508.7	510.8	510.8	511.8	513.9	515.9	514.9	514.9	517.0	519.1
177.5°	511.8	511.0	511.8	511.8	511.8	512.6	514.2	512.6	511.8	512.6	513.4
180°	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8



TEST NUMBER: P332296-940

CATALOG NUMBER: S123RDIP-S560D1195U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	841.6	841.6	842.7	846.8	847.3	850.9	849.7
5°	924.9	931.4	933.8	944.1	950.2	952.9	947.4
7.5°	1026.8	1045.1	1053.8	1064.5	1074.0	1076.9	1069.4
10°	1101.2	1120.3	1136.3	1146.2	1155.5	1161.5	1169.5
12.5°	1173.0	1196.5	1211.7	1225.7	1235.2	1243.0	1244.3
15°	1251.1	1286.6	1313.6	1333.4	1343.3	1348.4	1346.4
17.5°	1329.8	1362.7	1382.0	1402.1	1415.9	1416.6	1417.0
20°	1374.4	1406.5	1428.7	1443.7	1459.1	1458.4	1461.8
22.5°	1404.2	1429.4	1446.4	1457.3	1462.6	1460.0	1460.7
25°	1418.1	1425.6	1422.5	1405.1	1400.7	1384.6	1387.3
27.5°	1346.2	1310.7	1274.0	1226.6	1189.4	1159.6	1161.1
30°	1248.7	1185.8	1114.1	1054.0	1000.1	985.0	952.9
32.5°	1112.3	1018.1	934.1	878.1	831.7	819.1	791.1
35°	881.2	789.6	703.2	651.3	630.8	602.2	601.8
37.5°	684.9	604.3	558.7	519.7	499.3	481.9	480.2
40°	576.2	513.4	478.8	450.8	430.7	417.7	414.6
42.5°	500.2	449.4	417.1	399.8	384.2	377.6	372.6
45°	408.5	374.3	351.8	336.1	328.9	323.8	321.0
47.5°	341.7	318.8	303.4	293.0	287.1	281.8	283.2
50°	305.3	286.6	275.3	265.4	260.9	257.2	257.5
52.5°	276.1	259.2	250.1	243.0	237.5	234.8	233.4
55°	234.3	223.7	214.5	209.4	206.3	202.5	201.5
57.5°	199.8	191.6	184.1	178.3	177.6	174.0	174.4
60°	176.9	170.0	163.9	160.9	158.5	155.4	156.4
62.5°	158.1	152.3	146.7	144.2	141.8	139.6	140.0
65°	129.5	123.9	120.6	119.2	118.2	117.2	116.1
67.5°	103.2	99.8	97.6	94.7	92.6	92.3	91.2
70°	86.8	82.3	78.6	74.8	73.7	73.4	73.7
72.5°	69.6	66.7	65.7	63.8	63.7	62.8	63.4
75°	52.3	51.3	50.6	49.2	49.2	49.2	49.2
77.5°	38.5	37.9	37.5	37.2	36.9	36.4	36.4
80°	30.1	29.7	29.1	29.1	28.7	29.1	28.7
82.5°	22.6	22.6	21.9	21.9	21.6	21.4	21.6
85°	11.6	11.2	11.9	11.2	11.6	11.0	11.6
87.5°	8.6	8.9	9.0	8.8	8.7	9.5	8.7
90°	26.9	28.0	30.1	29.0	30.1	31.1	30.1
92.5°	69.2	61.1	55.7	53.9	50.7	51.8	49.9
95°	252.8	197.9	160.6	140.9	131.6	124.3	120.2
97.5°	744.7	611.1	487.1	410.7	364.1	336.1	327.2
100°	1137.6	1016.4	869.2	764.6	688.9	648.5	649.6
102.5°	1315.7	1245.1	1151.8	1070.4	1010.6	976.8	953.0
105°	1450.5	1470.2	1443.2	1395.5	1356.2	1323.0	1317.9
107.5°	1433.4	1524.2	1561.1	1561.9	1548.6	1537.5	1527.9
110°	1378.0	1508.5	1581.0	1610.0	1618.3	1616.2	1614.2



TEST NUMBER: P332296-940

CATALOG NUMBER: S123RDIP-S560D1195U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1305.0	1451.3	1544.5	1597.6	1623.3	1631.1	1631.6
115°	1188.3	1340.6	1453.6	1531.2	1576.8	1597.6	1602.8
117.5°	1089.7	1226.5	1341.0	1422.1	1474.3	1504.1	1511.2
120°	1035.0	1159.3	1264.0	1345.8	1403.8	1428.7	1434.9
122.5°	991.0	1106.3	1203.5	1276.2	1328.4	1355.8	1363.6
125°	936.6	1036.0	1118.9	1185.3	1230.8	1256.7	1264.0
127.5°	888.7	978.4	1053.8	1112.9	1151.8	1175.3	1181.9
130°	858.9	942.8	1013.3	1068.2	1105.5	1127.2	1135.5
132.5°	830.7	908.8	976.0	1027.5	1064.8	1084.1	1089.9
135°	790.5	857.8	916.9	967.7	998.7	1017.4	1024.7
137.5°	751.7	809.8	860.9	903.7	935.1	950.8	955.6
140°	729.3	779.1	823.7	863.0	892.1	908.6	907.6
142.5°	707.8	750.9	789.7	823.2	848.9	863.8	862.8
145°	679.7	712.8	742.8	768.7	790.5	798.8	800.8
147.5°	658.7	685.5	706.8	726.5	741.2	749.0	749.8
150°	645.4	667.2	686.9	702.4	713.8	720.1	720.1
152.5°	633.0	652.3	668.7	680.9	691.4	695.2	695.2
155°	615.4	631.0	643.4	652.7	661.0	663.1	664.1
157.5°	598.2	610.2	619.9	628.0	634.3	635.9	635.7
160°	587.5	597.8	605.0	612.3	618.5	618.5	617.5
162.5°	575.9	585.3	591.7	596.6	601.9	601.9	600.9
165°	559.5	566.7	571.9	576.0	580.1	579.2	579.2
167.5°	546.8	551.0	554.7	556.5	559.5	558.4	558.4
170°	537.7	541.8	543.9	544.9	547.1	546.0	546.0
172.5°	530.2	533.6	534.8	535.0	537.1	535.2	534.4
175°	520.0	522.2	522.2	522.2	523.2	522.2	521.1
177.5°	514.2	515.1	515.1	514.2	515.1	513.4	513.4
180°	511.8	511.8	511.8	511.8	511.8	511.8	511.8

(END OF REPORT)