

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: P332283

Luminaire Tested: **S123RDIP-S560D805U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332283
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIP-S560D805U835-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 805 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4988.3 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

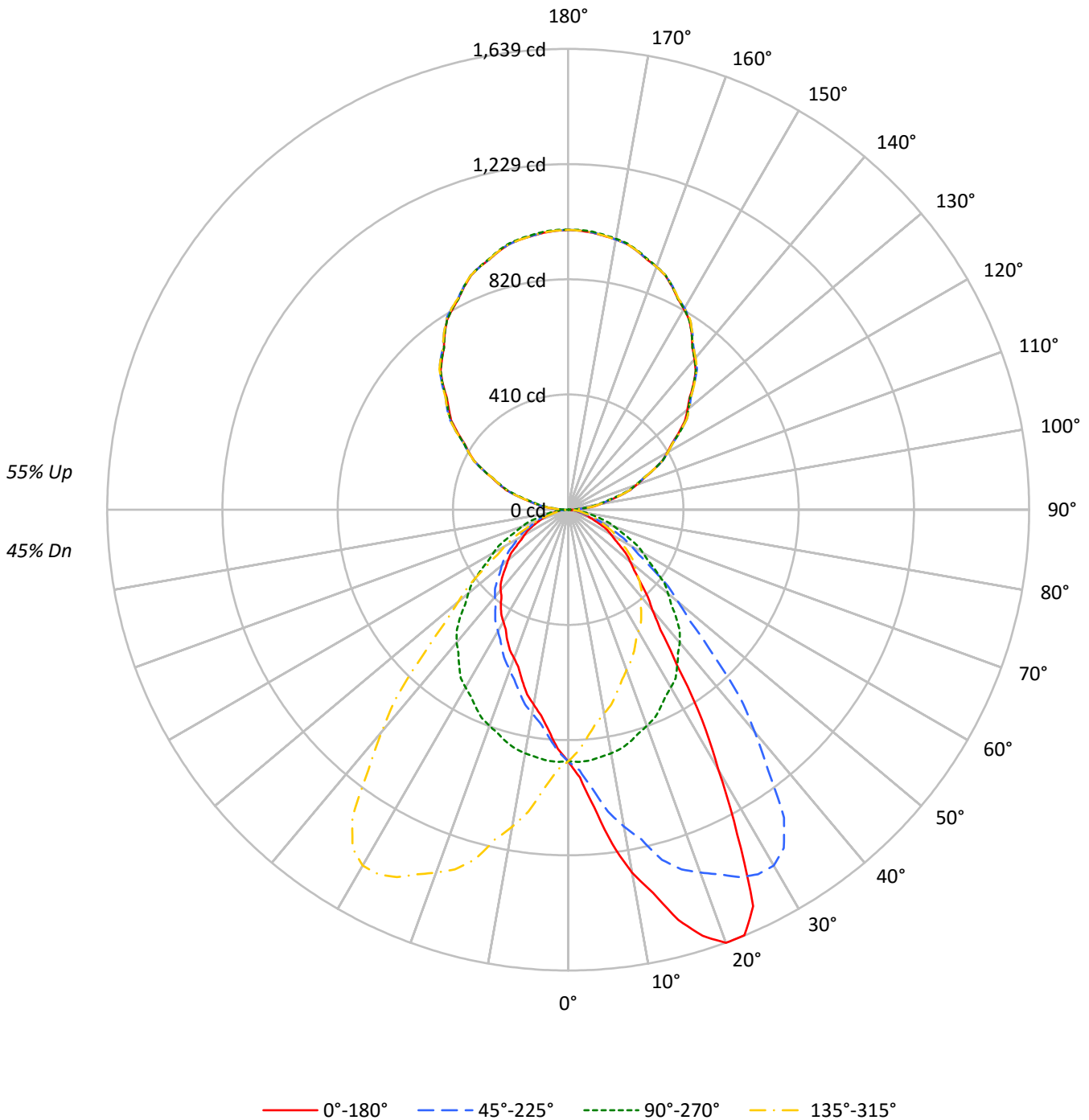
Input Watts (W): 38.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	65	65	65	51	51	51	45
1	97	93	89	86	89	85	82	79	71	69	67	58	57	55	46	45	44	39
2	89	82	76	71	81	75	70	66	63	59	56	52	49	47	41	40	38	33
3	81	72	65	60	74	67	61	56	56	52	48	46	43	40	37	35	33	29
4	75	64	57	51	68	59	53	48	50	45	41	41	38	35	33	31	29	25
5	69	58	50	44	63	53	46	41	45	40	36	37	34	31	30	28	25	22
6	63	52	44	38	58	48	41	36	41	35	31	34	30	27	28	25	23	20
7	59	47	39	34	54	43	37	32	37	32	28	31	27	24	25	22	20	18
8	54	43	35	30	50	40	33	28	34	29	25	28	24	22	23	20	18	16
9	51	39	32	27	47	36	30	25	31	26	22	26	22	19	22	19	17	14
10	47	36	29	24	44	33	27	23	29	24	20	24	20	18	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	1.8
10°-20°	274.9	5.5
20°-30°	431.9	8.7
30°-40°	450.6	9.0
40°-50°	385.6	7.7
50°-60°	293.9	5.9
60°-70°	188.4	3.8
70°-80°	90.6	1.8
80°-90°	26.9	0.5
90°-100°	64.8	1.3
100°-110°	194.1	3.9
110°-120°	330.1	6.6
120°-130°	434.2	8.7
130°-140°	488.0	9.8
140°-150°	479.7	9.6
150°-160°	403.8	8.1
160°-170°	268.8	5.4
170°-180°	94.1	1.9
0°-30°	794.7	15.9
0°-40°	1245.3	25.0
0°-60°	1924.8	38.6
0°-90°	2230.7	44.7
90°-120°	589.0	11.8
90°-150°	1990.8	39.9
90°-180°	2758.0	55.3
0°-180°	4988.3	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°	24	1	24	1	24	12
95°	61	46	61	46	61	63
105°	186	176	186	176	186	197
115°	333	332	333	332	333	330
125°	481	486	481	486	481	430
135°	630	631	630	631	630	484
145°	765	765	765	765	765	478
155°	875	876	875	876	875	403
165°	952	955	952	955	952	268
175°	989	993	989	993	989	94
180°	995	995	995	995	995	



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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°	7.8	8.3	7.6	7.9	7.8	8.0	7.8	7.7	8.2	7.7	7.6
90°	23.5	23.1	22.8	22.4	22.1	21.5	20.8	20.2	19.5	18.8	16.5
92.5°	31.6	31.8	32.0	32.2	32.4	32.2	31.7	31.1	30.6	30.0	28.7
95°	61.0	61.0	61.0	61.0	61.0	60.6	59.9	59.2	58.6	57.9	56.5
97.5°	93.8	93.9	94.0	94.0	94.1	93.7	92.9	92.1	91.3	90.5	89.5
100°	118.8	118.5	118.1	117.8	117.5	117.0	116.5	116.0	115.5	114.9	114.1
102.5°	144.5	144.6	144.6	144.7	144.8	144.5	144.0	143.5	143.0	142.5	141.3
105°	186.1	185.7	185.4	185.0	184.7	184.5	184.5	184.5	184.5	184.5	183.0
107.5°	229.4	229.6	229.8	230.0	230.2	230.1	229.5	228.9	228.4	227.8	227.2
110°	258.8	259.1	259.5	259.8	260.2	260.0	259.3	258.6	257.9	257.2	256.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	290.1	290.1	290.2	290.3	290.3	290.0	289.1	288.3	287.5	286.6	286.6
115°	333.1	333.2	333.4	333.6	333.8	333.8	333.6	333.4	333.2	333.1	333.4
117.5°	376.7	377.2	377.7	378.2	378.6	378.9	378.9	379.0	379.0	379.0	379.5
120°	407.3	407.7	408.0	408.4	408.7	409.0	409.2	409.3	409.5	409.7	410.6
122.5°	436.7	437.2	437.7	438.2	438.7	439.2	439.6	440.1	440.5	441.0	441.4
125°	480.8	481.5	482.2	482.9	483.6	484.3	485.0	485.7	486.4	487.1	487.4
127.5°	524.8	525.6	526.4	527.2	528.0	528.9	529.8	530.8	531.8	532.7	533.1
130°	553.5	554.8	556.0	557.2	558.4	559.4	560.1	560.8	561.4	562.1	562.7
132.5°	583.6	584.5	585.4	586.4	587.3	588.2	589.0	589.9	590.7	591.5	591.9
135°	630.2	630.5	630.9	631.2	631.6	632.1	632.8	633.5	634.2	634.9	635.0
137.5°	671.3	672.0	672.6	673.3	673.9	674.6	675.4	676.1	676.8	677.5	677.1
140°	698.2	699.4	700.6	701.8	703.1	703.7	703.9	704.1	704.3	704.4	704.3
142.5°	725.7	726.6	727.6	728.5	729.5	730.0	730.2	730.4	730.5	730.7	730.4
145°	765.4	766.1	766.8	767.5	768.2	768.6	768.8	769.0	769.2	769.3	768.8
147.5°	800.8	801.8	802.8	803.9	804.9	805.5	805.5	805.5	805.5	805.5	805.0
150°	823.3	824.3	825.4	826.4	827.5	828.0	828.0	828.0	828.0	828.0	827.6
152.5°	845.2	846.1	847.0	847.9	848.8	849.1	848.8	848.5	848.3	848.0	847.8
155°	874.9	876.1	877.3	878.5	879.7	880.0	879.3	878.6	877.9	877.2	877.1
157.5°	901.9	902.9	903.9	904.9	905.8	905.9	905.2	904.5	903.8	903.0	902.9
160°	919.4	920.1	920.8	921.5	922.2	922.1	921.3	920.4	919.5	918.7	918.7
162.5°	932.6	933.7	934.8	935.9	937.0	937.2	936.3	935.4	934.5	933.7	933.5
165°	951.5	952.7	953.9	955.2	956.4	956.5	955.4	954.4	953.3	952.3	952.3
167.5°	967.6	968.7	969.8	970.8	971.9	971.9	970.8	969.8	968.7	967.6	967.5
170°	975.7	977.0	978.2	979.4	980.6	980.6	979.4	978.2	977.0	975.7	975.7
172.5°	982.0	983.2	984.4	985.6	986.9	986.9	985.9	984.8	983.7	982.6	982.6
175°	989.0	990.2	991.5	992.7	993.9	994.0	992.9	991.9	990.9	989.8	989.8
177.5°	992.8	993.8	994.7	995.7	996.7	996.7	995.9	995.1	994.2	993.4	993.4
180°	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3



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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°	7.8	7.0	7.2	6.8	7.3	7.3	8.8	10.0	10.6	9.7	10.1
90°	14.2	12.0	9.7	7.7	6.0	4.3	2.5	0.8	2.5	4.3	6.0
92.5°	27.5	26.2	24.9	23.6	22.5	21.3	20.1	18.9	20.1	21.3	22.5
95°	55.1	53.7	52.3	51.0	49.8	48.6	47.3	46.1	47.3	48.6	49.8
97.5°	88.5	87.5	86.5	85.6	84.6	83.7	82.8	81.9	82.8	83.7	84.6
100°	113.2	112.3	111.5	110.5	109.5	108.4	107.4	106.3	107.4	108.4	109.5
102.5°	140.2	139.0	137.9	137.0	136.4	135.7	135.1	134.5	135.1	135.7	136.4
105°	181.4	179.8	178.3	177.3	177.0	176.6	176.3	175.9	176.3	176.6	177.0
107.5°	226.6	226.0	225.3	224.9	224.7	224.5	224.3	224.1	224.3	224.5	224.7
110°	256.5	256.2	255.8	255.5	255.1	254.8	254.4	254.1	254.4	254.8	255.1



TEST NUMBER: P332283

CATALOG NUMBER: S123RDIP-S560D805U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	286.5	286.4	286.3	286.2	286.0	285.8	285.6	285.4	285.6	285.8	286.0
115°	333.8	334.1	334.5	334.4	333.8	333.3	332.8	332.3	332.8	333.3	333.8
117.5°	379.9	380.4	380.8	380.9	380.5	380.2	379.9	379.5	379.9	380.2	380.5
120°	411.4	412.3	413.2	413.1	412.0	411.0	409.9	408.9	409.9	411.0	412.0
122.5°	441.9	442.3	442.8	442.6	441.8	441.1	440.3	439.6	440.3	441.1	441.8
125°	487.8	488.1	488.5	488.4	487.9	487.3	486.8	486.3	486.8	487.3	487.9
127.5°	533.5	533.9	534.3	533.9	532.8	531.7	530.6	529.5	530.6	531.7	532.8
130°	563.2	563.7	564.2	563.8	562.4	561.0	559.6	558.2	559.6	561.0	562.4
132.5°	592.3	592.7	593.1	592.6	591.2	589.8	588.4	587.0	588.4	589.8	591.2
135°	635.2	635.4	635.6	635.1	634.1	633.0	632.0	630.9	632.0	633.0	634.1
137.5°	676.6	676.2	675.7	675.1	674.2	673.3	672.5	671.6	672.5	673.3	674.2
140°	704.1	703.9	703.7	703.2	702.4	701.5	700.6	699.7	700.6	701.5	702.4
142.5°	730.1	729.8	729.5	728.9	728.0	727.1	726.3	725.4	726.3	727.1	728.0
145°	768.3	767.8	767.2	766.8	766.5	766.1	765.8	765.4	765.8	766.1	766.5
147.5°	804.5	804.0	803.5	803.0	802.3	801.7	801.1	800.5	801.1	801.7	802.3
150°	827.3	826.9	826.6	826.2	825.9	825.5	825.2	824.8	825.2	825.5	825.9
152.5°	847.6	847.4	847.2	846.8	846.3	845.8	845.3	844.9	845.3	845.8	846.3
155°	876.9	876.7	876.5	876.4	876.4	876.4	876.4	876.4	876.4	876.4	876.4
157.5°	902.8	902.6	902.5	902.5	902.7	902.9	903.1	903.3	903.1	902.9	902.7
160°	918.7	918.7	918.7	918.8	919.2	919.5	919.9	920.2	919.9	919.5	919.2
162.5°	933.4	933.3	933.1	933.3	933.8	934.3	934.8	935.2	934.8	934.3	933.8
165°	952.3	952.3	952.3	952.5	953.1	953.6	954.1	954.6	954.1	953.6	953.1
167.5°	967.3	967.2	967.1	967.3	968.0	968.7	969.4	970.1	969.4	968.7	968.0
170°	975.7	975.7	975.7	976.1	976.8	977.5	978.2	978.9	978.2	977.5	976.8
172.5°	982.6	982.6	982.6	983.0	983.7	984.4	985.1	985.7	985.1	984.4	983.7
175°	989.8	989.8	989.8	990.2	990.9	991.6	992.2	992.9	992.2	991.6	990.9
177.5°	993.4	993.4	993.4	993.7	994.2	994.8	995.4	995.9	995.4	994.8	994.2
180°	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3



TEST NUMBER: P332283

CATALOG NUMBER: S123RDIP-S560D805U835-4F0-1E-UDD-A1

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°	10.1	11.4	12.2	13.0	13.7	13.9	14.3	14.4	14.9	15.0	15.1
90°	7.7	9.7	12.0	14.2	16.5	18.8	19.5	20.2	20.8	21.5	22.1
92.5°	23.6	24.9	26.2	27.5	28.7	30.0	30.6	31.1	31.7	32.2	32.4
95°	51.0	52.3	53.7	55.1	56.5	57.9	58.6	59.2	59.9	60.6	61.0
97.5°	85.6	86.5	87.5	88.5	89.5	90.5	91.3	92.1	92.9	93.7	94.1
100°	110.5	111.5	112.3	113.2	114.1	114.9	115.5	116.0	116.5	117.0	117.5
102.5°	137.0	137.9	139.0	140.2	141.3	142.5	143.0	143.5	144.0	144.5	144.8
105°	177.3	178.3	179.8	181.4	183.0	184.5	184.5	184.5	184.5	184.5	184.7
107.5°	224.9	225.3	226.0	226.6	227.2	227.8	228.4	228.9	229.5	230.1	230.2
110°	255.5	255.8	256.2	256.5	256.9	257.2	257.9	258.6	259.3	260.0	260.2



TEST NUMBER: P332283

CATALOG NUMBER: S123RDIP-S560D805U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	286.2	286.3	286.4	286.5	286.6	286.6	287.5	288.3	289.1	290.0	290.3
115°	334.4	334.5	334.1	333.8	333.4	333.1	333.2	333.4	333.6	333.8	333.8
117.5°	380.9	380.8	380.4	379.9	379.5	379.0	379.0	379.0	378.9	378.9	378.6
120°	413.1	413.2	412.3	411.4	410.6	409.7	409.5	409.3	409.2	409.0	408.7
122.5°	442.6	442.8	442.3	441.9	441.4	441.0	440.5	440.1	439.6	439.2	438.7
125°	488.4	488.5	488.1	487.8	487.4	487.1	486.4	485.7	485.0	484.3	483.6
127.5°	533.9	534.3	533.9	533.5	533.1	532.7	531.8	530.8	529.8	528.9	528.0
130°	563.8	564.2	563.7	563.2	562.7	562.1	561.4	560.8	560.1	559.4	558.4
132.5°	592.6	593.1	592.7	592.3	591.9	591.5	590.7	589.9	589.0	588.2	587.3
135°	635.1	635.6	635.4	635.2	635.0	634.9	634.2	633.5	632.8	632.1	631.6
137.5°	675.1	675.7	676.2	676.6	677.1	677.5	676.8	676.1	675.4	674.6	673.9
140°	703.2	703.7	703.9	704.1	704.3	704.4	704.3	704.1	703.9	703.7	703.1
142.5°	728.9	729.5	729.8	730.1	730.4	730.7	730.5	730.4	730.2	730.0	729.5
145°	766.8	767.2	767.8	768.3	768.8	769.3	769.2	769.0	768.8	768.6	768.2
147.5°	803.0	803.5	804.0	804.5	805.0	805.5	805.5	805.5	805.5	805.5	804.9
150°	826.2	826.6	826.9	827.3	827.6	828.0	828.0	828.0	828.0	828.0	827.5
152.5°	846.8	847.2	847.4	847.6	847.8	848.0	848.3	848.5	848.8	849.1	848.8
155°	876.4	876.5	876.7	876.9	877.1	877.2	877.9	878.6	879.3	880.0	879.7
157.5°	902.5	902.5	902.6	902.8	902.9	903.0	903.8	904.5	905.2	905.9	905.8
160°	918.8	918.7	918.7	918.7	918.7	918.7	919.5	920.4	921.3	922.1	922.2
162.5°	933.3	933.1	933.3	933.4	933.5	933.7	934.5	935.4	936.3	937.2	937.0
165°	952.5	952.3	952.3	952.3	952.3	952.3	953.3	954.4	955.4	956.5	956.4
167.5°	967.3	967.1	967.2	967.3	967.5	967.6	968.7	969.8	970.8	971.9	971.9
170°	976.1	975.7	975.7	975.7	975.7	975.7	977.0	978.2	979.4	980.6	980.6
172.5°	983.0	982.6	982.6	982.6	982.6	982.6	983.7	984.8	985.9	986.9	986.9
175°	990.2	989.8	989.8	989.8	989.8	989.8	990.9	991.9	992.9	994.0	993.9
177.5°	993.7	993.4	993.4	993.4	993.4	993.4	994.2	995.1	995.9	996.7	996.7
180°	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3



TEST NUMBER: P332283

CATALOG NUMBER: S123RDIP-S560D805U835-4F0-1E-UDD-A1

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°	15.8	15.3	15.3	15.7	15.3	15.3	15.8	15.1	15.0	14.9	14.4
90°	22.4	22.8	23.1	23.5	23.1	22.8	22.4	22.1	21.5	20.8	20.2
92.5°	32.2	32.0	31.8	31.6	31.8	32.0	32.2	32.4	32.2	31.7	31.1
95°	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	60.6	59.9	59.2
97.5°	94.0	94.0	93.9	93.8	93.9	94.0	94.0	94.1	93.7	92.9	92.1
100°	117.8	118.1	118.5	118.8	118.5	118.1	117.8	117.5	117.0	116.5	116.0
102.5°	144.7	144.6	144.6	144.5	144.6	144.6	144.7	144.8	144.5	144.0	143.5
105°	185.0	185.4	185.7	186.1	185.7	185.4	185.0	184.7	184.5	184.5	184.5
107.5°	230.0	229.8	229.6	229.4	229.6	229.8	230.0	230.2	230.1	229.5	228.9
110°	259.8	259.5	259.1	258.8	259.1	259.5	259.8	260.2	260.0	259.3	258.6



TEST NUMBER: P332283

CATALOG NUMBER: S123RDIP-S560D805U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	290.3	290.2	290.1	290.1	290.1	290.2	290.3	290.3	290.0	289.1	288.3
115°	333.6	333.4	333.2	333.1	333.2	333.4	333.6	333.8	333.8	333.6	333.4
117.5°	378.2	377.7	377.2	376.7	377.2	377.7	378.2	378.6	378.9	378.9	379.0
120°	408.4	408.0	407.7	407.3	407.7	408.0	408.4	408.7	409.0	409.2	409.3
122.5°	438.2	437.7	437.2	436.7	437.2	437.7	438.2	438.7	439.2	439.6	440.1
125°	482.9	482.2	481.5	480.8	481.5	482.2	482.9	483.6	484.3	485.0	485.7
127.5°	527.2	526.4	525.6	524.8	525.6	526.4	527.2	528.0	528.9	529.8	530.8
130°	557.2	556.0	554.8	553.5	554.8	556.0	557.2	558.4	559.4	560.1	560.8
132.5°	586.4	585.4	584.5	583.6	584.5	585.4	586.4	587.3	588.2	589.0	589.9
135°	631.2	630.9	630.5	630.2	630.5	630.9	631.2	631.6	632.1	632.8	633.5
137.5°	673.3	672.6	672.0	671.3	672.0	672.6	673.3	673.9	674.6	675.4	676.1
140°	701.8	700.6	699.4	698.2	699.4	700.6	701.8	703.1	703.7	703.9	704.1
142.5°	728.5	727.6	726.6	725.7	726.6	727.6	728.5	729.5	730.0	730.2	730.4
145°	767.5	766.8	766.1	765.4	766.1	766.8	767.5	768.2	768.6	768.8	769.0
147.5°	803.9	802.8	801.8	800.8	801.8	802.8	803.9	804.9	805.5	805.5	805.5
150°	826.4	825.4	824.3	823.3	824.3	825.4	826.4	827.5	828.0	828.0	828.0
152.5°	847.9	847.0	846.1	845.2	846.1	847.0	847.9	848.8	849.1	848.8	848.5
155°	878.5	877.3	876.1	874.9	876.1	877.3	878.5	879.7	880.0	879.3	878.6
157.5°	904.9	903.9	902.9	901.9	902.9	903.9	904.9	905.8	905.9	905.2	904.5
160°	921.5	920.8	920.1	919.4	920.1	920.8	921.5	922.2	922.1	921.3	920.4
162.5°	935.9	934.8	933.7	932.6	933.7	934.8	935.9	937.0	937.2	936.3	935.4
165°	955.2	953.9	952.7	951.5	952.7	953.9	955.2	956.4	956.5	955.4	954.4
167.5°	970.8	969.8	968.7	967.6	968.7	969.8	970.8	971.9	971.9	970.8	969.8
170°	979.4	978.2	977.0	975.7	977.0	978.2	979.4	980.6	980.6	979.4	978.2
172.5°	985.6	984.4	983.2	982.0	983.2	984.4	985.6	986.9	986.9	985.9	984.8
175°	992.7	991.5	990.2	989.0	990.2	991.5	992.7	993.9	994.0	992.9	991.9
177.5°	995.7	994.7	993.8	992.8	993.8	994.7	995.7	996.7	996.7	995.9	995.1
180°	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3



TEST NUMBER: P332283

CATALOG NUMBER: S123RDIP-S560D805U835-4F0-1E-UDD-A1

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°	14.3	13.9	13.7	13.0	12.2	11.4	10.1	10.1	9.7	10.6	10.0
90°	19.5	18.8	16.5	14.2	12.0	9.7	7.7	6.0	4.3	2.5	0.8
92.5°	30.6	30.0	28.7	27.5	26.2	24.9	23.6	22.5	21.3	20.1	18.9
95°	58.6	57.9	56.5	55.1	53.7	52.3	51.0	49.8	48.6	47.3	46.1
97.5°	91.3	90.5	89.5	88.5	87.5	86.5	85.6	84.6	83.7	82.8	81.9
100°	115.5	114.9	114.1	113.2	112.3	111.5	110.5	109.5	108.4	107.4	106.3
102.5°	143.0	142.5	141.3	140.2	139.0	137.9	137.0	136.4	135.7	135.1	134.5
105°	184.5	184.5	183.0	181.4	179.8	178.3	177.3	177.0	176.6	176.3	175.9
107.5°	228.4	227.8	227.2	226.6	226.0	225.3	224.9	224.7	224.5	224.3	224.1
110°	257.9	257.2	256.9	256.5	256.2	255.8	255.5	255.1	254.8	254.4	254.1



TEST NUMBER: P332283

CATALOG NUMBER: S123RDIP-S560D805U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	287.5	286.6	286.6	286.5	286.4	286.3	286.2	286.0	285.8	285.6	285.4
115°	333.2	333.1	333.4	333.8	334.1	334.5	334.4	333.8	333.3	332.8	332.3
117.5°	379.0	379.0	379.5	379.9	380.4	380.8	380.9	380.5	380.2	379.9	379.5
120°	409.5	409.7	410.6	411.4	412.3	413.2	413.1	412.0	411.0	409.9	408.9
122.5°	440.5	441.0	441.4	441.9	442.3	442.8	442.6	441.8	441.1	440.3	439.6
125°	486.4	487.1	487.4	487.8	488.1	488.5	488.4	487.9	487.3	486.8	486.3
127.5°	531.8	532.7	533.1	533.5	533.9	534.3	533.9	532.8	531.7	530.6	529.5
130°	561.4	562.1	562.7	563.2	563.7	564.2	563.8	562.4	561.0	559.6	558.2
132.5°	590.7	591.5	591.9	592.3	592.7	593.1	592.6	591.2	589.8	588.4	587.0
135°	634.2	634.9	635.0	635.2	635.4	635.6	635.1	634.1	633.0	632.0	630.9
137.5°	676.8	677.5	677.1	676.6	676.2	675.7	675.1	674.2	673.3	672.5	671.6
140°	704.3	704.4	704.3	704.1	703.9	703.7	703.2	702.4	701.5	700.6	699.7
142.5°	730.5	730.7	730.4	730.1	729.8	729.5	728.9	728.0	727.1	726.3	725.4
145°	769.2	769.3	768.8	768.3	767.8	767.2	766.8	766.5	766.1	765.8	765.4
147.5°	805.5	805.5	805.0	804.5	804.0	803.5	803.0	802.3	801.7	801.1	800.5
150°	828.0	828.0	827.6	827.3	826.9	826.6	826.2	825.9	825.5	825.2	824.8
152.5°	848.3	848.0	847.8	847.6	847.4	847.2	846.8	846.3	845.8	845.3	844.9
155°	877.9	877.2	877.1	876.9	876.7	876.5	876.4	876.4	876.4	876.4	876.4
157.5°	903.8	903.0	902.9	902.8	902.6	902.5	902.5	902.7	902.9	903.1	903.3
160°	919.5	918.7	918.7	918.7	918.7	918.7	918.8	919.2	919.5	919.9	920.2
162.5°	934.5	933.7	933.5	933.4	933.3	933.1	933.3	933.8	934.3	934.8	935.2
165°	953.3	952.3	952.3	952.3	952.3	952.3	952.5	953.1	953.6	954.1	954.6
167.5°	968.7	967.6	967.5	967.3	967.2	967.1	967.3	968.0	968.7	969.4	970.1
170°	977.0	975.7	975.7	975.7	975.7	975.7	976.1	976.8	977.5	978.2	978.9
172.5°	983.7	982.6	982.6	982.6	982.6	982.6	983.0	983.7	984.4	985.1	985.7
175°	990.9	989.8	989.8	989.8	989.8	989.8	990.2	990.9	991.6	992.2	992.9
177.5°	994.2	993.4	993.4	993.4	993.4	993.4	993.7	994.2	994.8	995.4	995.9
180°	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3



TEST NUMBER: P332283

CATALOG NUMBER: S123RDIP-S560D805U835-4F0-1E-UDD-A1

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°	8.8	7.3	7.3	6.8	7.2	7.0	7.8	7.6	7.7	8.2	7.7
90°	2.5	4.3	6.0	7.7	9.7	12.0	14.2	16.5	18.8	19.5	20.2
92.5°	20.1	21.3	22.5	23.6	24.9	26.2	27.5	28.7	30.0	30.6	31.1
95°	47.3	48.6	49.8	51.0	52.3	53.7	55.1	56.5	57.9	58.6	59.2
97.5°	82.8	83.7	84.6	85.6	86.5	87.5	88.5	89.5	90.5	91.3	92.1
100°	107.4	108.4	109.5	110.5	111.5	112.3	113.2	114.1	114.9	115.5	116.0
102.5°	135.1	135.7	136.4	137.0	137.9	139.0	140.2	141.3	142.5	143.0	143.5
105°	176.3	176.6	177.0	177.3	178.3	179.8	181.4	183.0	184.5	184.5	184.5
107.5°	224.3	224.5	224.7	224.9	225.3	226.0	226.6	227.2	227.8	228.4	228.9
110°	254.4	254.8	255.1	255.5	255.8	256.2	256.5	256.9	257.2	257.9	258.6



TEST NUMBER: P332283

CATALOG NUMBER: S123RDIP-S560D805U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	285.6	285.8	286.0	286.2	286.3	286.4	286.5	286.6	286.6	287.5	288.3
115°	332.8	333.3	333.8	334.4	334.5	334.1	333.8	333.4	333.1	333.2	333.4
117.5°	379.9	380.2	380.5	380.9	380.8	380.4	379.9	379.5	379.0	379.0	379.0
120°	409.9	411.0	412.0	413.1	413.2	412.3	411.4	410.6	409.7	409.5	409.3
122.5°	440.3	441.1	441.8	442.6	442.8	442.3	441.9	441.4	441.0	440.5	440.1
125°	486.8	487.3	487.9	488.4	488.5	488.1	487.8	487.4	487.1	486.4	485.7
127.5°	530.6	531.7	532.8	533.9	534.3	533.9	533.5	533.1	532.7	531.8	530.8
130°	559.6	561.0	562.4	563.8	564.2	563.7	563.2	562.7	562.1	561.4	560.8
132.5°	588.4	589.8	591.2	592.6	593.1	592.7	592.3	591.9	591.5	590.7	589.9
135°	632.0	633.0	634.1	635.1	635.6	635.4	635.2	635.0	634.9	634.2	633.5
137.5°	672.5	673.3	674.2	675.1	675.7	676.2	676.6	677.1	677.5	676.8	676.1
140°	700.6	701.5	702.4	703.2	703.7	703.9	704.1	704.3	704.4	704.3	704.1
142.5°	726.3	727.1	728.0	728.9	729.5	729.8	730.1	730.4	730.7	730.5	730.4
145°	765.8	766.1	766.5	766.8	767.2	767.8	768.3	768.8	769.3	769.2	769.0
147.5°	801.1	801.7	802.3	803.0	803.5	804.0	804.5	805.0	805.5	805.5	805.5
150°	825.2	825.5	825.9	826.2	826.6	826.9	827.3	827.6	828.0	828.0	828.0
152.5°	845.3	845.8	846.3	846.8	847.2	847.4	847.6	847.8	848.0	848.3	848.5
155°	876.4	876.4	876.4	876.4	876.5	876.7	876.9	877.1	877.2	877.9	878.6
157.5°	903.1	902.9	902.7	902.5	902.5	902.6	902.8	902.9	903.0	903.8	904.5
160°	919.9	919.5	919.2	918.8	918.7	918.7	918.7	918.7	918.7	919.5	920.4
162.5°	934.8	934.3	933.8	933.3	933.1	933.3	933.4	933.5	933.7	934.5	935.4
165°	954.1	953.6	953.1	952.5	952.3	952.3	952.3	952.3	952.3	953.3	954.4
167.5°	969.4	968.7	968.0	967.3	967.1	967.2	967.3	967.5	967.6	968.7	969.8
170°	978.2	977.5	976.8	976.1	975.7	975.7	975.7	975.7	975.7	977.0	978.2
172.5°	985.1	984.4	983.7	983.0	982.6	982.6	982.6	982.6	982.6	983.7	984.8
175°	992.2	991.6	990.9	990.2	989.8	989.8	989.8	989.8	989.8	990.9	991.9
177.5°	995.4	994.8	994.2	993.7	993.4	993.4	993.4	993.4	993.4	994.2	995.1
180°	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3



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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°	7.8	8.0	7.8	7.9	7.6	8.3	7.8
90°	20.8	21.5	22.1	22.4	22.8	23.1	23.5
92.5°	31.7	32.2	32.4	32.2	32.0	31.8	31.6
95°	59.9	60.6	61.0	61.0	61.0	61.0	61.0
97.5°	92.9	93.7	94.1	94.0	94.0	93.9	93.8
100°	116.5	117.0	117.5	117.8	118.1	118.5	118.8
102.5°	144.0	144.5	144.8	144.7	144.6	144.6	144.5
105°	184.5	184.5	184.7	185.0	185.4	185.7	186.1
107.5°	229.5	230.1	230.2	230.0	229.8	229.6	229.4
110°	259.3	260.0	260.2	259.8	259.5	259.1	258.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	289.1	290.0	290.3	290.3	290.2	290.1	290.1
115°	333.6	333.8	333.8	333.6	333.4	333.2	333.1
117.5°	378.9	378.9	378.6	378.2	377.7	377.2	376.7
120°	409.2	409.0	408.7	408.4	408.0	407.7	407.3
122.5°	439.6	439.2	438.7	438.2	437.7	437.2	436.7
125°	485.0	484.3	483.6	482.9	482.2	481.5	480.8
127.5°	529.8	528.9	528.0	527.2	526.4	525.6	524.8
130°	560.1	559.4	558.4	557.2	556.0	554.8	553.5
132.5°	589.0	588.2	587.3	586.4	585.4	584.5	583.6
135°	632.8	632.1	631.6	631.2	630.9	630.5	630.2
137.5°	675.4	674.6	673.9	673.3	672.6	672.0	671.3
140°	703.9	703.7	703.1	701.8	700.6	699.4	698.2
142.5°	730.2	730.0	729.5	728.5	727.6	726.6	725.7
145°	768.8	768.6	768.2	767.5	766.8	766.1	765.4
147.5°	805.5	805.5	804.9	803.9	802.8	801.8	800.8
150°	828.0	828.0	827.5	826.4	825.4	824.3	823.3
152.5°	848.8	849.1	848.8	847.9	847.0	846.1	845.2
155°	879.3	880.0	879.7	878.5	877.3	876.1	874.9
157.5°	905.2	905.9	905.8	904.9	903.9	902.9	901.9
160°	921.3	922.1	922.2	921.5	920.8	920.1	919.4
162.5°	936.3	937.2	937.0	935.9	934.8	933.7	932.6
165°	955.4	956.5	956.4	955.2	953.9	952.7	951.5
167.5°	970.8	971.9	971.9	970.8	969.8	968.7	967.6
170°	979.4	980.6	980.6	979.4	978.2	977.0	975.7
172.5°	985.9	986.9	986.9	985.6	984.4	983.2	982.0
175°	992.9	994.0	993.9	992.7	991.5	990.2	989.0
177.5°	995.9	996.7	996.7	995.7	994.7	993.8	992.8
180°	995.3	995.3	995.3	995.3	995.3	995.3	995.3

(END OF REPORT)