

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: P332415

Luminaire Tested: **S123RDIW-S560D755U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332415
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: S123RDIW-S560D755U835-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 755 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4848.5 lumens
Efficiency: N/A
Efficacy: 128.9 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

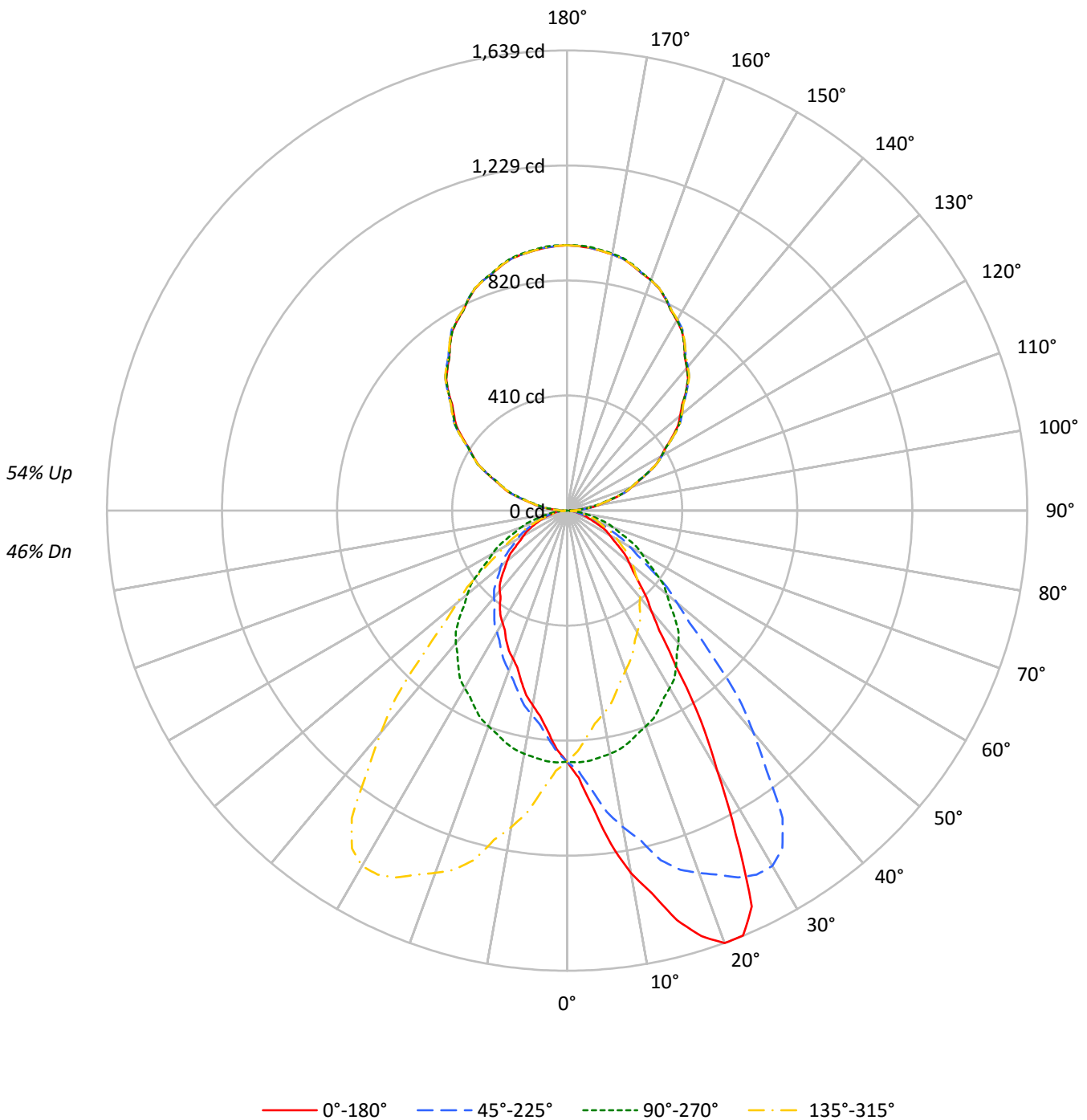
Input Watts (W): 37.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332415

CATALOG NUMBER: S123RDIW-S560D755U835-4F0-1E-UDD-A1

Luminous Intensity Polar Plot





TEST NUMBER: P332415

CATALOG NUMBER: S123RDIW-S560D755U835-4F0-1E-UDD-A1

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	81	81	81	66	66	66	52	52	52	46
1	97	93	90	86	89	86	83	80	72	70	68	59	58	56	47	46	45	40
2	89	82	76	71	82	76	71	66	64	60	57	52	50	48	42	40	39	34
3	82	73	66	60	75	67	61	56	57	52	48	47	44	41	38	36	34	30
4	75	65	57	51	69	60	53	48	51	46	42	42	38	36	34	32	30	26
5	69	58	50	44	63	54	47	42	45	40	36	38	34	31	31	28	26	23
6	64	52	44	39	58	48	41	36	41	36	32	34	30	27	28	25	23	20
7	59	47	39	34	54	44	37	32	37	32	28	31	27	24	26	23	21	18
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19	16
9	51	39	32	27	47	36	30	25	31	26	23	27	23	20	22	19	17	15
10	48	36	29	24	44	34	27	23	29	24	20	25	21	18	21	18	15	14

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



TEST NUMBER: P332415

CATALOG NUMBER: S123RDIW-S560D755U835-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.0	1.8
10°-20°	274.9	5.7
20°-30°	431.9	8.9
30°-40°	450.6	9.3
40°-50°	385.6	8.0
50°-60°	293.9	6.1
60°-70°	188.4	3.9
70°-80°	90.6	1.9
80°-90°	26.8	0.6
90°-100°	61.6	1.3
100°-110°	184.2	3.8
110°-120°	313.4	6.5
120°-130°	412.2	8.5
130°-140°	463.3	9.6
140°-150°	455.4	9.4
150°-160°	383.4	7.9
160°-170°	255.2	5.3
170°-180°	89.4	1.8
0°-30°	794.7	16.4
0°-40°	1245.3	25.7
0°-60°	1924.8	39.7
0°-90°	2230.5	46.0
90°-120°	559.2	11.5
90°-150°	1890.0	39.0
90°-180°	2618.0	54.0
0°-180°	4848.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	895	895	895	895	895	
5°	1062	895	788	895	1062	110
15°	1510	854	630	854	1510	428
25°	1556	776	512	776	1556	669
35°	675	676	418	676	675	442
45°	360	544	329	544	360	283
55°	226	382	224	382	226	204
65°	130	236	141	236	130	128
75°	55	115	72	115	55	59
85°	13	26	25	26	13	16
90°	22	1	22	1	22	11
95°	58	44	58	44	58	59
105°	177	167	177	167	177	187
115°	316	316	316	316	316	313
125°	456	462	456	462	456	408
135°	598	599	598	599	598	460
145°	727	727	727	727	727	454
155°	831	832	831	832	831	382
165°	903	906	903	906	903	255
175°	939	943	939	943	939	89
180°	945	945	945	945	945	



TEST NUMBER: P332415

CATALOG NUMBER: S123RDIW-S560D755U835-4F0-1E-UDD-A1

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°	7.5	8.1	7.4	7.6	7.6	7.8	7.6	7.5	8.0	7.5	7.4
90°	22.3	21.9	21.6	21.3	20.9	20.5	19.8	19.1	18.5	17.8	15.7
92.5°	30.0	30.2	30.4	30.6	30.8	30.6	30.1	29.6	29.0	28.5	27.3
95°	57.9	57.9	57.9	57.9	57.9	57.6	56.9	56.2	55.6	54.9	53.6
97.5°	89.1	89.1	89.2	89.3	89.3	89.0	88.2	87.5	86.7	86.0	85.0
100°	112.8	112.5	112.2	111.8	111.5	111.1	110.6	110.1	109.6	109.1	108.3
102.5°	137.2	137.2	137.3	137.4	137.4	137.2	136.7	136.2	135.7	135.2	134.1
105°	176.7	176.3	176.0	175.7	175.3	175.2	175.2	175.2	175.2	175.2	173.7
107.5°	217.8	218.0	218.2	218.4	218.6	218.4	217.9	217.3	216.8	216.3	215.7
110°	245.7	246.0	246.3	246.7	247.0	246.8	246.2	245.5	244.9	244.2	243.9



TEST NUMBER: P332415

CATALOG NUMBER: S123RDIW-S560D755U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	275.4	275.4	275.5	275.6	275.6	275.3	274.5	273.7	272.9	272.1	272.0
115°	316.2	316.4	316.5	316.7	316.9	316.9	316.7	316.5	316.4	316.2	316.5
117.5°	357.6	358.1	358.5	359.0	359.5	359.7	359.7	359.8	359.8	359.8	360.3
120°	386.7	387.0	387.4	387.7	388.0	388.3	388.4	388.6	388.8	388.9	389.8
122.5°	414.6	415.1	415.5	416.0	416.5	416.9	417.3	417.8	418.2	418.6	419.1
125°	456.5	457.1	457.8	458.5	459.1	459.8	460.4	461.1	461.8	462.4	462.7
127.5°	498.2	499.0	499.7	500.5	501.2	502.1	503.0	503.9	504.8	505.8	506.1
130°	525.5	526.7	527.8	529.0	530.1	531.0	531.7	532.4	533.0	533.7	534.2
132.5°	554.0	554.9	555.8	556.7	557.6	558.4	559.2	560.0	560.8	561.6	561.9
135°	598.2	598.6	598.9	599.2	599.6	600.1	600.7	601.4	602.0	602.7	602.9
137.5°	637.3	637.9	638.5	639.2	639.8	640.5	641.1	641.8	642.5	643.2	642.8
140°	662.8	664.0	665.1	666.3	667.4	668.1	668.3	668.4	668.6	668.8	668.6
142.5°	688.9	689.8	690.7	691.6	692.5	693.0	693.2	693.4	693.5	693.7	693.4
145°	726.7	727.3	728.0	728.6	729.3	729.7	729.9	730.0	730.2	730.4	729.9
147.5°	760.2	761.2	762.2	763.2	764.2	764.7	764.7	764.7	764.7	764.7	764.2
150°	781.6	782.6	783.6	784.5	785.5	786.0	786.0	786.0	786.0	786.0	785.7
152.5°	802.4	803.2	804.1	804.9	805.8	806.1	805.8	805.6	805.3	805.0	804.8
155°	830.6	831.7	832.9	834.0	835.2	835.4	834.8	834.1	833.5	832.8	832.6
157.5°	856.2	857.2	858.1	859.0	859.9	860.1	859.4	858.7	858.0	857.3	857.2
160°	872.9	873.5	874.2	874.9	875.5	875.4	874.6	873.8	873.0	872.1	872.1
162.5°	885.3	886.4	887.5	888.5	889.6	889.7	888.9	888.0	887.2	886.4	886.3
165°	903.3	904.5	905.6	906.8	907.9	908.0	907.0	906.0	905.0	904.0	904.0
167.5°	918.6	919.6	920.6	921.7	922.7	922.7	921.7	920.6	919.6	918.6	918.5
170°	926.3	927.5	928.6	929.8	930.9	930.9	929.8	928.6	927.5	926.3	926.3
172.5°	932.3	933.4	934.6	935.7	936.9	936.9	935.9	934.9	933.9	932.8	932.8
175°	938.9	940.1	941.2	942.4	943.6	943.6	942.6	941.7	940.7	939.7	939.7
177.5°	942.5	943.4	944.3	945.3	946.2	946.3	945.5	944.7	943.9	943.1	943.1
180°	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9



TEST NUMBER: P332415

CATALOG NUMBER: S123RDIW-S560D755U835-4F0-1E-UDD-A1

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°	7.6	6.9	7.1	6.7	7.3	7.2	8.8	10.0	10.6	9.7	10.0
90°	13.5	11.4	9.2	7.3	5.7	4.0	2.4	0.7	2.4	4.0	5.7
92.5°	26.1	24.8	23.6	22.4	21.3	20.2	19.1	18.0	19.1	20.2	21.3
95°	52.3	51.0	49.6	48.4	47.3	46.1	44.9	43.8	44.9	46.1	47.3
97.5°	84.0	83.1	82.1	81.2	80.4	79.5	78.6	77.8	78.6	79.5	80.4
100°	107.5	106.6	105.8	104.9	103.9	102.9	101.9	100.9	101.9	102.9	103.9
102.5°	133.1	132.0	130.9	130.0	129.4	128.9	128.3	127.7	128.3	128.9	129.4
105°	172.2	170.7	169.2	168.3	168.0	167.7	167.3	167.0	167.3	167.7	168.0
107.5°	215.1	214.5	213.9	213.5	213.3	213.1	212.9	212.7	212.9	213.1	213.3
110°	243.5	243.2	242.9	242.5	242.2	241.9	241.6	241.2	241.6	241.9	242.2



TEST NUMBER: P332415

CATALOG NUMBER: S123RDIW-S560D755U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	272.0	271.9	271.8	271.7	271.5	271.3	271.1	270.9	271.1	271.3	271.5
115°	316.9	317.2	317.5	317.4	316.9	316.4	315.9	315.5	315.9	316.4	316.9
117.5°	360.7	361.1	361.6	361.6	361.3	360.9	360.6	360.3	360.6	360.9	361.3
120°	390.6	391.4	392.2	392.2	391.2	390.2	389.2	388.2	389.2	390.2	391.2
122.5°	419.5	419.9	420.3	420.2	419.5	418.7	418.0	417.3	418.0	418.7	419.5
125°	463.1	463.4	463.7	463.7	463.2	462.7	462.2	461.7	462.2	462.7	463.2
127.5°	506.5	506.9	507.2	506.9	505.8	504.8	503.7	502.6	503.7	504.8	505.8
130°	534.7	535.2	535.7	535.2	533.9	532.6	531.3	530.0	531.3	532.6	533.9
132.5°	562.3	562.7	563.0	562.6	561.2	559.9	558.6	557.3	558.6	559.9	561.2
135°	603.0	603.2	603.4	602.9	602.0	601.0	600.0	599.0	600.0	601.0	602.0
137.5°	642.4	641.9	641.5	640.9	640.1	639.2	638.4	637.6	638.4	639.2	640.1
140°	668.4	668.3	668.1	667.6	666.8	666.0	665.1	664.3	665.1	666.0	666.8
142.5°	693.1	692.8	692.5	691.9	691.1	690.3	689.5	688.7	689.5	690.3	691.1
145°	729.4	728.9	728.4	728.0	727.6	727.3	727.0	726.7	727.0	727.3	727.6
147.5°	763.7	763.3	762.8	762.3	761.7	761.1	760.5	759.9	760.5	761.1	761.7
150°	785.4	785.0	784.7	784.4	784.1	783.7	783.4	783.1	783.4	783.7	784.1
152.5°	804.6	804.4	804.2	803.9	803.5	803.0	802.5	802.1	802.5	803.0	803.5
155°	832.5	832.3	832.1	832.1	832.1	832.1	832.1	832.1	832.1	832.1	832.1
157.5°	857.0	856.9	856.8	856.8	857.0	857.2	857.4	857.6	857.4	857.2	857.0
160°	872.1	872.1	872.1	872.3	872.6	873.0	873.3	873.6	873.3	873.0	872.6
162.5°	886.1	886.0	885.9	886.0	886.5	886.9	887.4	887.9	887.4	886.9	886.5
165°	904.0	904.0	904.0	904.3	904.8	905.3	905.8	906.3	905.8	905.3	904.8
167.5°	918.3	918.2	918.1	918.3	919.0	919.7	920.3	921.0	920.3	919.7	919.0
170°	926.3	926.3	926.3	926.6	927.3	928.0	928.6	929.3	928.6	928.0	927.3
172.5°	932.8	932.8	932.8	933.2	933.8	934.5	935.2	935.8	935.2	934.5	933.8
175°	939.7	939.7	939.7	940.0	940.7	941.3	942.0	942.6	942.0	941.3	940.7
177.5°	943.1	943.1	943.1	943.4	943.9	944.4	944.9	945.5	944.9	944.4	943.9
180°	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9



TEST NUMBER: P332415

CATALOG NUMBER: S123RDIW-S560D755U835-4F0-1E-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°	10.0	11.3	12.1	12.8	13.6	13.7	14.1	14.2	14.7	14.8	14.9
90°	7.3	9.2	11.4	13.5	15.7	17.8	18.5	19.1	19.8	20.5	20.9
92.5°	22.4	23.6	24.8	26.1	27.3	28.5	29.0	29.6	30.1	30.6	30.8
95°	48.4	49.6	51.0	52.3	53.6	54.9	55.6	56.2	56.9	57.6	57.9
97.5°	81.2	82.1	83.1	84.0	85.0	86.0	86.7	87.5	88.2	89.0	89.3
100°	104.9	105.8	106.6	107.5	108.3	109.1	109.6	110.1	110.6	111.1	111.5
102.5°	130.0	130.9	132.0	133.1	134.1	135.2	135.7	136.2	136.7	137.2	137.4
105°	168.3	169.2	170.7	172.2	173.7	175.2	175.2	175.2	175.2	175.2	175.3
107.5°	213.5	213.9	214.5	215.1	215.7	216.3	216.8	217.3	217.9	218.4	218.6
110°	242.5	242.9	243.2	243.5	243.9	244.2	244.9	245.5	246.2	246.8	247.0



TEST NUMBER: P332415

CATALOG NUMBER: S123RDIW-S560D755U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	271.7	271.8	271.9	272.0	272.0	272.1	272.9	273.7	274.5	275.3	275.6
115°	317.4	317.5	317.2	316.9	316.5	316.2	316.4	316.5	316.7	316.9	316.9
117.5°	361.6	361.6	361.1	360.7	360.3	359.8	359.8	359.8	359.7	359.7	359.5
120°	392.2	392.2	391.4	390.6	389.8	388.9	388.8	388.6	388.4	388.3	388.0
122.5°	420.2	420.3	419.9	419.5	419.1	418.6	418.2	417.8	417.3	416.9	416.5
125°	463.7	463.7	463.4	463.1	462.7	462.4	461.8	461.1	460.4	459.8	459.1
127.5°	506.9	507.2	506.9	506.5	506.1	505.8	504.8	503.9	503.0	502.1	501.2
130°	535.2	535.7	535.2	534.7	534.2	533.7	533.0	532.4	531.7	531.0	530.1
132.5°	562.6	563.0	562.7	562.3	561.9	561.6	560.8	560.0	559.2	558.4	557.6
135°	602.9	603.4	603.2	603.0	602.9	602.7	602.0	601.4	600.7	600.1	599.6
137.5°	640.9	641.5	641.9	642.4	642.8	643.2	642.5	641.8	641.1	640.5	639.8
140°	667.6	668.1	668.3	668.4	668.6	668.8	668.6	668.4	668.3	668.1	667.4
142.5°	691.9	692.5	692.8	693.1	693.4	693.7	693.5	693.4	693.2	693.0	692.5
145°	728.0	728.4	728.9	729.4	729.9	730.4	730.2	730.0	729.9	729.7	729.3
147.5°	762.3	762.8	763.3	763.7	764.2	764.7	764.7	764.7	764.7	764.7	764.2
150°	784.4	784.7	785.0	785.4	785.7	786.0	786.0	786.0	786.0	786.0	785.5
152.5°	803.9	804.2	804.4	804.6	804.8	805.0	805.3	805.6	805.8	806.1	805.8
155°	832.1	832.1	832.3	832.5	832.6	832.8	833.5	834.1	834.8	835.4	835.2
157.5°	856.8	856.8	856.9	857.0	857.2	857.3	858.0	858.7	859.4	860.1	859.9
160°	872.3	872.1	872.1	872.1	872.1	872.1	873.0	873.8	874.6	875.4	875.5
162.5°	886.0	885.9	886.0	886.1	886.3	886.4	887.2	888.0	888.9	889.7	889.6
165°	904.3	904.0	904.0	904.0	904.0	904.0	905.0	906.0	907.0	908.0	907.9
167.5°	918.3	918.1	918.2	918.3	918.5	918.6	919.6	920.6	921.7	922.7	922.7
170°	926.6	926.3	926.3	926.3	926.3	926.3	927.5	928.6	929.8	930.9	930.9
172.5°	933.2	932.8	932.8	932.8	932.8	932.8	933.9	934.9	935.9	936.9	936.9
175°	940.0	939.7	939.7	939.7	939.7	939.7	940.7	941.7	942.6	943.6	943.6
177.5°	943.4	943.1	943.1	943.1	943.1	943.1	943.9	944.7	945.5	946.3	946.2
180°	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9



TEST NUMBER: P332415

CATALOG NUMBER: S123RDIW-S560D755U835-4F0-1E-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°	15.6	15.0	15.1	15.5	15.1	15.0	15.6	14.9	14.8	14.7	14.2
90°	21.3	21.6	21.9	22.3	21.9	21.6	21.3	20.9	20.5	19.8	19.1
92.5°	30.6	30.4	30.2	30.0	30.2	30.4	30.6	30.8	30.6	30.1	29.6
95°	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.6	56.9	56.2
97.5°	89.3	89.2	89.1	89.1	89.1	89.2	89.3	89.3	89.0	88.2	87.5
100°	111.8	112.2	112.5	112.8	112.5	112.2	111.8	111.5	111.1	110.6	110.1
102.5°	137.4	137.3	137.2	137.2	137.2	137.3	137.4	137.4	137.2	136.7	136.2
105°	175.7	176.0	176.3	176.7	176.3	176.0	175.7	175.3	175.2	175.2	175.2
107.5°	218.4	218.2	218.0	217.8	218.0	218.2	218.4	218.6	218.4	217.9	217.3
110°	246.7	246.3	246.0	245.7	246.0	246.3	246.7	247.0	246.8	246.2	245.5



TEST NUMBER: P332415

CATALOG NUMBER: S123RDIW-S560D755U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	275.6	275.5	275.4	275.4	275.4	275.5	275.6	275.6	275.3	274.5	273.7
115°	316.7	316.5	316.4	316.2	316.4	316.5	316.7	316.9	316.9	316.7	316.5
117.5°	359.0	358.5	358.1	357.6	358.1	358.5	359.0	359.5	359.7	359.7	359.8
120°	387.7	387.4	387.0	386.7	387.0	387.4	387.7	388.0	388.3	388.4	388.6
122.5°	416.0	415.5	415.1	414.6	415.1	415.5	416.0	416.5	416.9	417.3	417.8
125°	458.5	457.8	457.1	456.5	457.1	457.8	458.5	459.1	459.8	460.4	461.1
127.5°	500.5	499.7	499.0	498.2	499.0	499.7	500.5	501.2	502.1	503.0	503.9
130°	529.0	527.8	526.7	525.5	526.7	527.8	529.0	530.1	531.0	531.7	532.4
132.5°	556.7	555.8	554.9	554.0	554.9	555.8	556.7	557.6	558.4	559.2	560.0
135°	599.2	598.9	598.6	598.2	598.6	598.9	599.2	599.6	600.1	600.7	601.4
137.5°	639.2	638.5	637.9	637.3	637.9	638.5	639.2	639.8	640.5	641.1	641.8
140°	666.3	665.1	664.0	662.8	664.0	665.1	666.3	667.4	668.1	668.3	668.4
142.5°	691.6	690.7	689.8	688.9	689.8	690.7	691.6	692.5	693.0	693.2	693.4
145°	728.6	728.0	727.3	726.7	727.3	728.0	728.6	729.3	729.7	729.9	730.0
147.5°	763.2	762.2	761.2	760.2	761.2	762.2	763.2	764.2	764.7	764.7	764.7
150°	784.5	783.6	782.6	781.6	782.6	783.6	784.5	785.5	786.0	786.0	786.0
152.5°	804.9	804.1	803.2	802.4	803.2	804.1	804.9	805.8	806.1	805.8	805.6
155°	834.0	832.9	831.7	830.6	831.7	832.9	834.0	835.2	835.4	834.8	834.1
157.5°	859.0	858.1	857.2	856.2	857.2	858.1	859.0	859.9	860.1	859.4	858.7
160°	874.9	874.2	873.5	872.9	873.5	874.2	874.9	875.5	875.4	874.6	873.8
162.5°	888.5	887.5	886.4	885.3	886.4	887.5	888.5	889.6	889.7	888.9	888.0
165°	906.8	905.6	904.5	903.3	904.5	905.6	906.8	907.9	908.0	907.0	906.0
167.5°	921.7	920.6	919.6	918.6	919.6	920.6	921.7	922.7	922.7	921.7	920.6
170°	929.8	928.6	927.5	926.3	927.5	928.6	929.8	930.9	930.9	929.8	928.6
172.5°	935.7	934.6	933.4	932.3	933.4	934.6	935.7	936.9	936.9	935.9	934.9
175°	942.4	941.2	940.1	938.9	940.1	941.2	942.4	943.6	943.6	942.6	941.7
177.5°	945.3	944.3	943.4	942.5	943.4	944.3	945.3	946.2	946.3	945.5	944.7
180°	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9



TEST NUMBER: P332415

CATALOG NUMBER: S123RDIW-S560D755U835-4F0-1E-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°	14.1	13.7	13.6	12.8	12.1	11.3	10.0	10.0	9.7	10.6	10.0
90°	18.5	17.8	15.7	13.5	11.4	9.2	7.3	5.7	4.0	2.4	0.7
92.5°	29.0	28.5	27.3	26.1	24.8	23.6	22.4	21.3	20.2	19.1	18.0
95°	55.6	54.9	53.6	52.3	51.0	49.6	48.4	47.3	46.1	44.9	43.8
97.5°	86.7	86.0	85.0	84.0	83.1	82.1	81.2	80.4	79.5	78.6	77.8
100°	109.6	109.1	108.3	107.5	106.6	105.8	104.9	103.9	102.9	101.9	100.9
102.5°	135.7	135.2	134.1	133.1	132.0	130.9	130.0	129.4	128.9	128.3	127.7
105°	175.2	175.2	173.7	172.2	170.7	169.2	168.3	168.0	167.7	167.3	167.0
107.5°	216.8	216.3	215.7	215.1	214.5	213.9	213.5	213.3	213.1	212.9	212.7
110°	244.9	244.2	243.9	243.5	243.2	242.9	242.5	242.2	241.9	241.6	241.2



TEST NUMBER: P332415

CATALOG NUMBER: S123RDIW-S560D755U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	272.9	272.1	272.0	272.0	271.9	271.8	271.7	271.5	271.3	271.1	270.9
115°	316.4	316.2	316.5	316.9	317.2	317.5	317.4	316.9	316.4	315.9	315.5
117.5°	359.8	359.8	360.3	360.7	361.1	361.6	361.6	361.3	360.9	360.6	360.3
120°	388.8	388.9	389.8	390.6	391.4	392.2	392.2	391.2	390.2	389.2	388.2
122.5°	418.2	418.6	419.1	419.5	419.9	420.3	420.2	419.5	418.7	418.0	417.3
125°	461.8	462.4	462.7	463.1	463.4	463.7	463.7	463.2	462.7	462.2	461.7
127.5°	504.8	505.8	506.1	506.5	506.9	507.2	506.9	505.8	504.8	503.7	502.6
130°	533.0	533.7	534.2	534.7	535.2	535.7	535.2	533.9	532.6	531.3	530.0
132.5°	560.8	561.6	561.9	562.3	562.7	563.0	562.6	561.2	559.9	558.6	557.3
135°	602.0	602.7	602.9	603.0	603.2	603.4	602.9	602.0	601.0	600.0	599.0
137.5°	642.5	643.2	642.8	642.4	641.9	641.5	640.9	640.1	639.2	638.4	637.6
140°	668.6	668.8	668.6	668.4	668.3	668.1	667.6	666.8	666.0	665.1	664.3
142.5°	693.5	693.7	693.4	693.1	692.8	692.5	691.9	691.1	690.3	689.5	688.7
145°	730.2	730.4	729.9	729.4	728.9	728.4	728.0	727.6	727.3	727.0	726.7
147.5°	764.7	764.7	764.2	763.7	763.3	762.8	762.3	761.7	761.1	760.5	759.9
150°	786.0	786.0	785.7	785.4	785.0	784.7	784.4	784.1	783.7	783.4	783.1
152.5°	805.3	805.0	804.8	804.6	804.4	804.2	803.9	803.5	803.0	802.5	802.1
155°	833.5	832.8	832.6	832.5	832.3	832.1	832.1	832.1	832.1	832.1	832.1
157.5°	858.0	857.3	857.2	857.0	856.9	856.8	856.8	857.0	857.2	857.4	857.6
160°	873.0	872.1	872.1	872.1	872.1	872.1	872.3	872.6	873.0	873.3	873.6
162.5°	887.2	886.4	886.3	886.1	886.0	885.9	886.0	886.5	886.9	887.4	887.9
165°	905.0	904.0	904.0	904.0	904.0	904.0	904.3	904.8	905.3	905.8	906.3
167.5°	919.6	918.6	918.5	918.3	918.2	918.1	918.3	919.0	919.7	920.3	921.0
170°	927.5	926.3	926.3	926.3	926.3	926.3	926.6	927.3	928.0	928.6	929.3
172.5°	933.9	932.8	932.8	932.8	932.8	932.8	933.2	933.8	934.5	935.2	935.8
175°	940.7	939.7	939.7	939.7	939.7	939.7	940.0	940.7	941.3	942.0	942.6
177.5°	943.9	943.1	943.1	943.1	943.1	943.1	943.4	943.9	944.4	944.9	945.5
180°	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9



TEST NUMBER: P332415

CATALOG NUMBER: S123RDIW-S560D755U835-4F0-1E-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	7.2	7.3	6.7	7.1	6.9	7.6	7.4	7.5	8.0	7.5
90°	2.4	4.0	5.7	7.3	9.2	11.4	13.5	15.7	17.8	18.5	19.1
92.5°	19.1	20.2	21.3	22.4	23.6	24.8	26.1	27.3	28.5	29.0	29.6
95°	44.9	46.1	47.3	48.4	49.6	51.0	52.3	53.6	54.9	55.6	56.2
97.5°	78.6	79.5	80.4	81.2	82.1	83.1	84.0	85.0	86.0	86.7	87.5
100°	101.9	102.9	103.9	104.9	105.8	106.6	107.5	108.3	109.1	109.6	110.1
102.5°	128.3	128.9	129.4	130.0	130.9	132.0	133.1	134.1	135.2	135.7	136.2
105°	167.3	167.7	168.0	168.3	169.2	170.7	172.2	173.7	175.2	175.2	175.2
107.5°	212.9	213.1	213.3	213.5	213.9	214.5	215.1	215.7	216.3	216.8	217.3
110°	241.6	241.9	242.2	242.5	242.9	243.2	243.5	243.9	244.2	244.9	245.5



TEST NUMBER: P332415

CATALOG NUMBER: S123RDIW-S560D755U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	271.1	271.3	271.5	271.7	271.8	271.9	272.0	272.0	272.1	272.9	273.7
115°	315.9	316.4	316.9	317.4	317.5	317.2	316.9	316.5	316.2	316.4	316.5
117.5°	360.6	360.9	361.3	361.6	361.6	361.1	360.7	360.3	359.8	359.8	359.8
120°	389.2	390.2	391.2	392.2	392.2	391.4	390.6	389.8	388.9	388.8	388.6
122.5°	418.0	418.7	419.5	420.2	420.3	419.9	419.5	419.1	418.6	418.2	417.8
125°	462.2	462.7	463.2	463.7	463.7	463.4	463.1	462.7	462.4	461.8	461.1
127.5°	503.7	504.8	505.8	506.9	507.2	506.9	506.5	506.1	505.8	504.8	503.9
130°	531.3	532.6	533.9	535.2	535.7	535.2	534.7	534.2	533.7	533.0	532.4
132.5°	558.6	559.9	561.2	562.6	563.0	562.7	562.3	561.9	561.6	560.8	560.0
135°	600.0	601.0	602.0	602.9	603.4	603.2	603.0	602.9	602.7	602.0	601.4
137.5°	638.4	639.2	640.1	640.9	641.5	641.9	642.4	642.8	643.2	642.5	641.8
140°	665.1	666.0	666.8	667.6	668.1	668.3	668.4	668.6	668.8	668.6	668.4
142.5°	689.5	690.3	691.1	691.9	692.5	692.8	693.1	693.4	693.7	693.5	693.4
145°	727.0	727.3	727.6	728.0	728.4	728.9	729.4	729.9	730.4	730.2	730.0
147.5°	760.5	761.1	761.7	762.3	762.8	763.3	763.7	764.2	764.7	764.7	764.7
150°	783.4	783.7	784.1	784.4	784.7	785.0	785.4	785.7	786.0	786.0	786.0
152.5°	802.5	803.0	803.5	803.9	804.2	804.4	804.6	804.8	805.0	805.3	805.6
155°	832.1	832.1	832.1	832.1	832.1	832.3	832.5	832.6	832.8	833.5	834.1
157.5°	857.4	857.2	857.0	856.8	856.8	856.9	857.0	857.2	857.3	858.0	858.7
160°	873.3	873.0	872.6	872.3	872.1	872.1	872.1	872.1	872.1	873.0	873.8
162.5°	887.4	886.9	886.5	886.0	885.9	886.0	886.1	886.3	886.4	887.2	888.0
165°	905.8	905.3	904.8	904.3	904.0	904.0	904.0	904.0	904.0	905.0	906.0
167.5°	920.3	919.7	919.0	918.3	918.1	918.2	918.3	918.5	918.6	919.6	920.6
170°	928.6	928.0	927.3	926.6	926.3	926.3	926.3	926.3	926.3	927.5	928.6
172.5°	935.2	934.5	933.8	933.2	932.8	932.8	932.8	932.8	932.8	933.9	934.9
175°	942.0	941.3	940.7	940.0	939.7	939.7	939.7	939.7	939.7	940.7	941.7
177.5°	944.9	944.4	943.9	943.4	943.1	943.1	943.1	943.1	943.1	943.9	944.7
180°	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9



TEST NUMBER: P332415

CATALOG NUMBER: S123RDIW-S560D755U835-4F0-1E-UDD-A1

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°	7.6	7.8	7.6	7.6	7.4	8.1	7.5
90°	19.8	20.5	20.9	21.3	21.6	21.9	22.3
92.5°	30.1	30.6	30.8	30.6	30.4	30.2	30.0
95°	56.9	57.6	57.9	57.9	57.9	57.9	57.9
97.5°	88.2	89.0	89.3	89.3	89.2	89.1	89.1
100°	110.6	111.1	111.5	111.8	112.2	112.5	112.8
102.5°	136.7	137.2	137.4	137.4	137.3	137.2	137.2
105°	175.2	175.2	175.3	175.7	176.0	176.3	176.7
107.5°	217.9	218.4	218.6	218.4	218.2	218.0	217.8
110°	246.2	246.8	247.0	246.7	246.3	246.0	245.7



TEST NUMBER: P332415

CATALOG NUMBER: S123RDIW-S560D755U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	274.5	275.3	275.6	275.6	275.5	275.4	275.4
115°	316.7	316.9	316.9	316.7	316.5	316.4	316.2
117.5°	359.7	359.7	359.5	359.0	358.5	358.1	357.6
120°	388.4	388.3	388.0	387.7	387.4	387.0	386.7
122.5°	417.3	416.9	416.5	416.0	415.5	415.1	414.6
125°	460.4	459.8	459.1	458.5	457.8	457.1	456.5
127.5°	503.0	502.1	501.2	500.5	499.7	499.0	498.2
130°	531.7	531.0	530.1	529.0	527.8	526.7	525.5
132.5°	559.2	558.4	557.6	556.7	555.8	554.9	554.0
135°	600.7	600.1	599.6	599.2	598.9	598.6	598.2
137.5°	641.1	640.5	639.8	639.2	638.5	637.9	637.3
140°	668.3	668.1	667.4	666.3	665.1	664.0	662.8
142.5°	693.2	693.0	692.5	691.6	690.7	689.8	688.9
145°	729.9	729.7	729.3	728.6	728.0	727.3	726.7
147.5°	764.7	764.7	764.2	763.2	762.2	761.2	760.2
150°	786.0	786.0	785.5	784.5	783.6	782.6	781.6
152.5°	805.8	806.1	805.8	804.9	804.1	803.2	802.4
155°	834.8	835.4	835.2	834.0	832.9	831.7	830.6
157.5°	859.4	860.1	859.9	859.0	858.1	857.2	856.2
160°	874.6	875.4	875.5	874.9	874.2	873.5	872.9
162.5°	888.9	889.7	889.6	888.5	887.5	886.4	885.3
165°	907.0	908.0	907.9	906.8	905.6	904.5	903.3
167.5°	921.7	922.7	922.7	921.7	920.6	919.6	918.6
170°	929.8	930.9	930.9	929.8	928.6	927.5	926.3
172.5°	935.9	936.9	936.9	935.7	934.6	933.4	932.3
175°	942.6	943.6	943.6	942.4	941.2	940.1	938.9
177.5°	945.5	946.3	946.2	945.3	944.3	943.4	942.5
180°	944.9	944.9	944.9	944.9	944.9	944.9	944.9

(END OF REPORT)