

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: P332282

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332282  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,  
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-A  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 805 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5439.7 lumens  
Efficiency: N/A  
Efficacy: 141.7 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

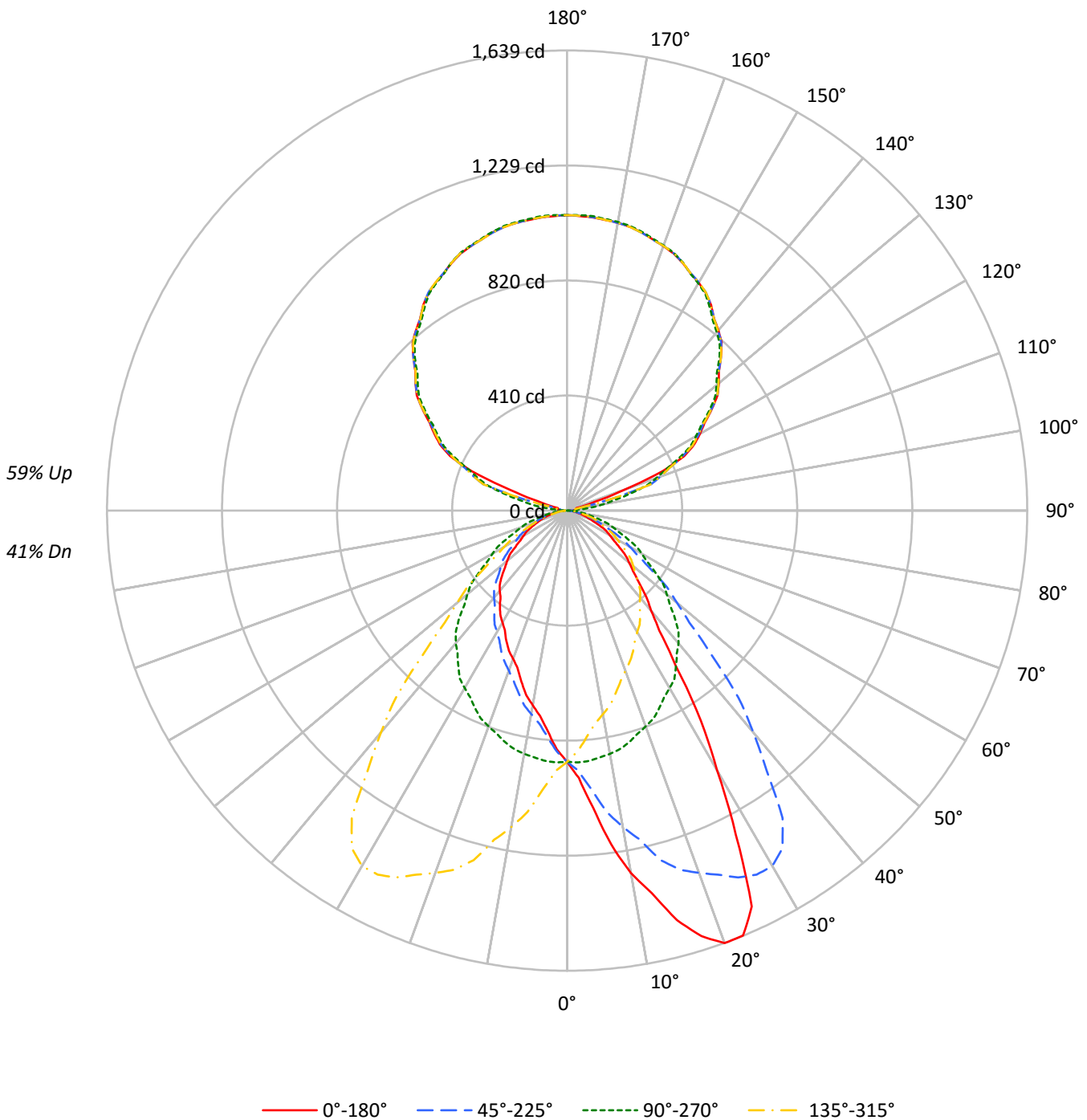
Input Watts (W): 38.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	35
2	88	81	75	70	80	74	69	65	61	58	55	49	47	45	38	37	36	30
3	81	72	65	59	73	66	60	55	54	50	47	44	41	39	34	32	31	26
4	74	64	56	50	67	58	52	47	49	44	40	40	36	33	31	29	27	23
5	68	57	49	43	62	52	46	40	44	39	35	36	32	29	28	26	24	20
6	63	51	43	38	57	47	40	35	39	34	30	32	29	26	26	23	21	18
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	24	21	19	16
8	54	42	35	29	49	39	32	28	33	28	24	27	23	20	22	19	17	15
9	50	38	31	26	46	35	29	25	30	25	22	25	21	18	20	17	15	13
10	47	35	28	24	43	33	26	22	28	23	19	23	19	17	19	16	14	12

**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	1.6
10°-20°	274.9	5.1
20°-30°	431.9	7.9
30°-40°	450.6	8.3
40°-50°	385.6	7.1
50°-60°	293.9	5.4
60°-70°	188.4	3.5
70°-80°	90.6	1.7
80°-90°	26.9	0.5
90°-100°	38.3	0.7
100°-110°	182.3	3.4
110°-120°	438.0	8.1
120°-130°	557.7	10.3
130°-140°	595.9	11.0
140°-150°	557.2	10.2
150°-160°	449.5	8.3
160°-170°	290.1	5.3
170°-180°	100.0	1.8
0°-30°	794.7	14.6
0°-40°	1245.3	22.9
0°-60°	1924.8	35.4
0°-90°	2230.7	41.0
90°-120°	658.6	12.1
90°-150°	2369.4	43.6
90°-180°	3209.0	59.0
0°-180°	5439.7	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	11
95°	30	48	30	48	30	25
105°	34	233	34	233	34	79
115°	460	437	460	437	460	425
125°	629	616	629	616	629	561
135°	775	767	775	767	775	597
145°	894	885	894	885	894	558
155°	973	975	973	975	973	449
165°	1026	1028	1026	1028	1026	290
175°	1048	1052	1048	1052	1048	100
180°	1052	1052	1052	1052	1052	



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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°	26.0	25.7	25.5	25.3	25.1	24.5	23.3	22.2	21.1	20.0	18.3
95°	29.7	29.7	29.7	29.7	29.7	29.1	27.9	26.7	25.5	24.2	22.3
97.5°	32.2	32.0	31.9	31.7	31.5	30.7	29.3	28.0	26.6	25.2	37.7
100°	32.8	32.7	32.5	32.3	32.1	31.4	30.0	28.6	27.2	25.8	52.9
102.5°	33.5	33.1	32.8	32.5	32.2	34.2	38.5	42.8	47.1	51.4	81.0
105°	34.4	34.1	33.7	33.4	33.0	48.2	79.0	109.7	140.5	171.2	186.8
107.5°	108.0	131.2	154.4	177.6	200.7	223.6	246.2	268.7	291.3	313.8	311.3
110°	215.0	239.8	264.7	289.5	314.4	329.7	335.4	341.1	346.9	352.6	350.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	368.9	374.1	379.3	384.6	389.8	392.4	392.3	392.2	392.1	392.0	390.1
115°	459.7	459.0	458.3	457.6	456.9	455.7	454.0	452.2	450.5	448.8	447.2
117.5°	510.7	510.5	510.4	510.3	510.1	509.3	508.0	506.6	505.2	503.8	503.0
120°	545.7	545.7	545.7	545.7	545.7	545.0	543.6	542.2	540.8	539.4	538.9
122.5°	580.1	580.0	579.8	579.7	579.5	579.0	578.0	577.0	576.1	575.1	574.4
125°	628.6	628.2	627.9	627.5	627.2	626.8	626.5	626.1	625.8	625.4	624.7
127.5°	675.2	675.5	675.9	676.2	676.5	676.4	675.9	675.3	674.8	674.2	673.4
130°	705.2	705.5	705.9	706.2	706.6	706.4	705.7	705.0	704.3	703.6	702.9
132.5°	732.7	733.2	733.7	734.2	734.6	734.5	733.8	733.1	732.5	731.8	731.2
135°	774.8	775.3	775.8	776.3	776.8	776.8	776.3	775.8	775.3	774.8	774.1
137.5°	814.3	814.7	815.0	815.4	815.7	815.5	814.6	813.8	813.0	812.1	811.7
140°	838.1	838.4	838.8	839.1	839.5	839.3	838.6	837.9	837.2	836.5	836.0
142.5°	860.0	860.5	860.9	861.4	861.9	861.9	861.3	860.8	860.2	859.7	859.1
145°	893.6	893.6	893.6	893.6	893.6	893.4	893.1	892.7	892.4	892.0	891.7
147.5°	918.6	919.4	920.2	921.0	921.8	922.0	921.7	921.3	921.0	920.6	920.3
150°	937.4	937.9	938.4	938.9	939.5	939.5	939.2	938.8	938.5	938.2	937.8
152.5°	952.4	953.2	954.0	954.8	955.6	955.7	955.0	954.4	953.8	953.2	953.0
155°	973.3	974.4	975.4	976.5	977.5	977.6	976.7	975.9	975.0	974.1	973.9
157.5°	991.0	992.4	993.7	995.1	996.4	996.6	995.5	994.5	993.5	992.4	992.6
160°	1002.3	1003.5	1004.7	1005.9	1007.1	1007.2	1006.2	1005.1	1004.1	1003.0	1003.2
162.5°	1012.9	1014.0	1015.0	1016.1	1017.2	1017.1	1016.0	1014.8	1013.6	1012.4	1012.6
165°	1025.7	1026.9	1028.1	1029.4	1030.6	1030.5	1029.1	1027.7	1026.3	1024.9	1025.1
167.5°	1034.9	1036.3	1037.7	1039.1	1040.5	1040.5	1039.1	1037.7	1036.3	1034.9	1034.9
170°	1040.6	1042.0	1043.3	1044.7	1046.1	1046.1	1044.7	1043.3	1042.0	1040.6	1040.6
172.5°	1043.7	1045.2	1046.8	1048.3	1049.8	1049.9	1048.5	1047.1	1045.7	1044.3	1044.2
175°	1048.4	1049.8	1051.2	1052.6	1053.9	1054.0	1052.8	1051.6	1050.4	1049.2	1049.0
177.5°	1049.8	1051.2	1052.6	1054.0	1055.4	1055.5	1054.4	1053.3	1052.2	1051.0	1050.9
180°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3



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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°	16.6	14.9	13.2	12.6	13.1	13.6	14.1	14.5	14.1	13.6	13.1
95°	20.4	18.5	16.6	19.2	26.3	33.4	40.6	47.7	40.6	33.4	26.3
97.5°	50.2	62.7	75.2	83.1	86.3	89.5	92.7	95.8	92.7	89.5	86.3
100°	80.0	107.1	134.2	146.0	142.5	139.1	135.6	132.1	135.6	139.1	142.5
102.5°	110.6	140.3	169.9	183.4	180.9	178.4	175.9	173.4	175.9	178.4	180.9
105°	202.5	218.1	233.8	240.6	238.7	236.8	234.9	233.0	234.9	236.8	238.7
107.5°	308.9	306.4	303.9	301.9	300.4	298.9	297.4	295.8	297.4	298.9	300.4
110°	348.8	346.9	344.9	343.3	341.9	340.5	339.1	337.7	339.1	340.5	341.9





TEST NUMBER: P332282

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

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	388.2	386.3	384.3	382.8	381.5	380.3	379.0	377.8	379.0	380.3	381.5
115°	445.6	444.1	442.5	441.2	440.2	439.1	438.1	437.0	438.1	439.1	440.2
117.5°	502.2	501.4	500.6	499.5	498.3	497.0	495.7	494.4	495.7	497.0	498.3
120°	538.4	537.9	537.4	536.3	534.7	533.2	531.6	530.1	531.6	533.2	534.7
122.5°	573.8	573.1	572.4	571.5	570.2	568.9	567.6	566.3	567.6	568.9	570.2
125°	624.0	623.4	622.7	621.6	620.2	618.8	617.4	616.1	617.4	618.8	620.2
127.5°	672.6	671.7	670.9	669.8	668.4	667.0	665.6	664.2	665.6	667.0	668.4
130°	702.2	701.5	700.8	699.8	698.4	697.0	695.6	694.2	695.6	697.0	698.4
132.5°	730.6	730.1	729.5	728.6	727.2	725.8	724.4	723.0	724.4	725.8	727.2
135°	773.4	772.7	772.0	771.1	770.1	769.0	768.0	766.9	768.0	769.0	770.1
137.5°	811.4	811.0	810.6	809.7	808.4	807.1	805.8	804.5	805.8	807.1	808.4
140°	835.5	835.0	834.4	833.7	832.6	831.6	830.5	829.5	830.5	831.6	832.6
142.5°	858.6	858.1	857.6	856.8	855.8	854.7	853.7	852.6	853.7	854.7	855.8
145°	891.3	891.0	890.6	889.9	888.6	887.4	886.2	885.0	886.2	887.4	888.6
147.5°	919.9	919.6	919.3	918.7	917.9	917.1	916.3	915.5	916.3	917.1	917.9
150°	937.5	937.1	936.8	936.3	935.8	935.3	934.8	934.2	934.8	935.3	935.8
152.5°	952.7	952.5	952.3	952.1	951.9	951.6	951.4	951.1	951.4	951.6	951.9
155°	973.8	973.6	973.4	973.5	973.9	974.2	974.6	974.9	974.6	974.2	973.9
157.5°	992.8	992.9	993.1	993.2	993.2	993.3	993.3	993.3	993.3	993.3	993.2
160°	1003.4	1003.6	1003.7	1003.9	1004.1	1004.3	1004.4	1004.6	1004.4	1004.3	1004.1
162.5°	1012.8	1012.9	1013.1	1013.4	1013.9	1014.3	1014.8	1015.2	1014.8	1014.3	1013.9
165°	1025.3	1025.5	1025.6	1026.0	1026.5	1027.0	1027.5	1028.1	1027.5	1027.0	1026.5
167.5°	1034.9	1034.9	1034.9	1035.3	1036.0	1036.7	1037.4	1038.1	1037.4	1036.7	1036.0
170°	1040.6	1040.6	1040.6	1040.9	1041.6	1042.3	1043.0	1043.7	1043.0	1042.3	1041.6
172.5°	1044.0	1043.9	1043.8	1044.1	1044.9	1045.8	1046.6	1047.4	1046.6	1045.8	1044.9
175°	1048.8	1048.6	1048.5	1048.8	1049.7	1050.6	1051.4	1052.3	1051.4	1050.6	1049.7
177.5°	1050.8	1050.6	1050.5	1050.8	1051.5	1052.2	1052.9	1053.5	1052.9	1052.2	1051.5
180°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3



TEST NUMBER: P332282

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

**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°	12.6	13.2	14.9	16.6	18.3	20.0	21.1	22.2	23.3	24.5	25.1
95°	19.2	16.6	18.5	20.4	22.3	24.2	25.5	26.7	27.9	29.1	29.7
97.5°	83.1	75.2	62.7	50.2	37.7	25.2	26.6	28.0	29.3	30.7	31.5
100°	146.0	134.2	107.1	80.0	52.9	25.8	27.2	28.6	30.0	31.4	32.1
102.5°	183.4	169.9	140.3	110.6	81.0	51.4	47.1	42.8	38.5	34.2	32.2
105°	240.6	233.8	218.1	202.5	186.8	171.2	140.5	109.7	79.0	48.2	33.0
107.5°	301.9	303.9	306.4	308.9	311.3	313.8	291.3	268.7	246.2	223.6	200.7
110°	343.3	344.9	346.9	348.8	350.7	352.6	346.9	341.1	335.4	329.7	314.4



TEST NUMBER: P332282

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

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	382.8	384.3	386.3	388.2	390.1	392.0	392.1	392.2	392.3	392.4	389.8
115°	441.2	442.5	444.1	445.6	447.2	448.8	450.5	452.2	454.0	455.7	456.9
117.5°	499.5	500.6	501.4	502.2	503.0	503.8	505.2	506.6	508.0	509.3	510.1
120°	536.3	537.4	537.9	538.4	538.9	539.4	540.8	542.2	543.6	545.0	545.7
122.5°	571.5	572.4	573.1	573.8	574.4	575.1	576.1	577.0	578.0	579.0	579.5
125°	621.6	622.7	623.4	624.0	624.7	625.4	625.8	626.1	626.5	626.8	627.2
127.5°	669.8	670.9	671.7	672.6	673.4	674.2	674.8	675.3	675.9	676.4	676.5
130°	699.8	700.8	701.5	702.2	702.9	703.6	704.3	705.0	705.7	706.4	706.6
132.5°	728.6	729.5	730.1	730.6	731.2	731.8	732.5	733.1	733.8	734.5	734.6
135°	771.1	772.0	772.7	773.4	774.1	774.8	775.3	775.8	776.3	776.8	776.8
137.5°	809.7	810.6	811.0	811.4	811.7	812.1	813.0	813.8	814.6	815.5	815.7
140°	833.7	834.4	835.0	835.5	836.0	836.5	837.2	837.9	838.6	839.3	839.5
142.5°	856.8	857.6	858.1	858.6	859.1	859.7	860.2	860.8	861.3	861.9	861.9
145°	889.9	890.6	891.0	891.3	891.7	892.0	892.4	892.7	893.1	893.4	893.6
147.5°	918.7	919.3	919.6	919.9	920.3	920.6	921.0	921.3	921.7	922.0	921.8
150°	936.3	936.8	937.1	937.5	937.8	938.2	938.5	938.8	939.2	939.5	939.5
152.5°	952.1	952.3	952.5	952.7	953.0	953.2	953.8	954.4	955.0	955.7	955.6
155°	973.5	973.4	973.6	973.8	973.9	974.1	975.0	975.9	976.7	977.6	977.5
157.5°	993.2	993.1	992.9	992.8	992.6	992.4	993.5	994.5	995.5	996.6	996.4
160°	1003.9	1003.7	1003.6	1003.4	1003.2	1003.0	1004.1	1005.1	1006.2	1007.2	1007.1
162.5°	1013.4	1013.1	1012.9	1012.8	1012.6	1012.4	1013.6	1014.8	1016.0	1017.1	1017.2
165°	1026.0	1025.6	1025.5	1025.3	1025.1	1024.9	1026.3	1027.7	1029.1	1030.5	1030.6
167.5°	1035.3	1034.9	1034.9	1034.9	1034.9	1034.9	1036.3	1037.7	1039.1	1040.5	1040.5
170°	1040.9	1040.6	1040.6	1040.6	1040.6	1040.6	1042.0	1043.3	1044.7	1046.1	1046.1
172.5°	1044.1	1043.8	1043.9	1044.0	1044.2	1044.3	1045.7	1047.1	1048.5	1049.9	1049.8
175°	1048.8	1048.5	1048.6	1048.8	1049.0	1049.2	1050.4	1051.6	1052.8	1054.0	1053.9
177.5°	1050.8	1050.5	1050.6	1050.8	1050.9	1051.0	1052.2	1053.3	1054.4	1055.5	1055.4
180°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3



TEST NUMBER: P332282

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

**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°	25.3	25.5	25.7	26.0	25.7	25.5	25.3	25.1	24.5	23.3	22.2
95°	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.1	27.9	26.7
97.5°	31.7	31.9	32.0	32.2	32.0	31.9	31.7	31.5	30.7	29.3	28.0
100°	32.3	32.5	32.7	32.8	32.7	32.5	32.3	32.1	31.4	30.0	28.6
102.5°	32.5	32.8	33.1	33.5	33.1	32.8	32.5	32.2	34.2	38.5	42.8
105°	33.4	33.7	34.1	34.4	34.1	33.7	33.4	33.0	48.2	79.0	109.7
107.5°	177.6	154.4	131.2	108.0	131.2	154.4	177.6	200.7	223.6	246.2	268.7
110°	289.5	264.7	239.8	215.0	239.8	264.7	289.5	314.4	329.7	335.4	341.1



TEST NUMBER: P332282

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	384.6	379.3	374.1	368.9	374.1	379.3	384.6	389.8	392.4	392.3	392.2
115°	457.6	458.3	459.0	459.7	459.0	458.3	457.6	456.9	455.7	454.0	452.2
117.5°	510.3	510.4	510.5	510.7	510.5	510.4	510.3	510.1	509.3	508.0	506.6
120°	545.7	545.7	545.7	545.7	545.7	545.7	545.7	545.7	545.0	543.6	542.2
122.5°	579.7	579.8	580.0	580.1	580.0	579.8	579.7	579.5	579.0	578.0	577.0
125°	627.5	627.9	628.2	628.6	628.2	627.9	627.5	627.2	626.8	626.5	626.1
127.5°	676.2	675.9	675.5	675.2	675.5	675.9	676.2	676.5	676.4	675.9	675.3
130°	706.2	705.9	705.5	705.2	705.5	705.9	706.2	706.6	706.4	705.7	705.0
132.5°	734.2	733.7	733.2	732.7	733.2	733.7	734.2	734.6	734.5	733.8	733.1
135°	776.3	775.8	775.3	774.8	775.3	775.8	776.3	776.8	776.8	776.3	775.8
137.5°	815.4	815.0	814.7	814.3	814.7	815.0	815.4	815.7	815.5	814.6	813.8
140°	839.1	838.8	838.4	838.1	838.4	838.8	839.1	839.5	839.3	838.6	837.9
142.5°	861.4	860.9	860.5	860.0	860.5	860.9	861.4	861.9	861.9	861.3	860.8
145°	893.6	893.6	893.6	893.6	893.6	893.6	893.6	893.6	893.4	893.1	892.7
147.5°	921.0	920.2	919.4	918.6	919.4	920.2	921.0	921.8	922.0	921.7	921.3
150°	938.9	938.4	937.9	937.4	937.9	938.4	938.9	939.5	939.5	939.2	938.8
152.5°	954.8	954.0	953.2	952.4	953.2	954.0	954.8	955.6	955.7	955.0	954.4
155°	976.5	975.4	974.4	973.3	974.4	975.4	976.5	977.5	977.6	976.7	975.9
157.5°	995.1	993.7	992.4	991.0	992.4	993.7	995.1	996.4	996.6	995.5	994.5
160°	1005.9	1004.7	1003.5	1002.3	1003.5	1004.7	1005.9	1007.1	1007.2	1006.2	1005.1
162.5°	1016.1	1015.0	1014.0	1012.9	1014.0	1015.0	1016.1	1017.2	1017.1	1016.0	1014.8
165°	1029.4	1028.1	1026.9	1025.7	1026.9	1028.1	1029.4	1030.6	1030.5	1029.1	1027.7
167.5°	1039.1	1037.7	1036.3	1034.9	1036.3	1037.7	1039.1	1040.5	1040.5	1039.1	1037.7
170°	1044.7	1043.3	1042.0	1040.6	1042.0	1043.3	1044.7	1046.1	1046.1	1044.7	1043.3
172.5°	1048.3	1046.8	1045.2	1043.7	1045.2	1046.8	1048.3	1049.8	1049.9	1048.5	1047.1
175°	1052.6	1051.2	1049.8	1048.4	1049.8	1051.2	1052.6	1053.9	1054.0	1052.8	1051.6
177.5°	1054.0	1052.6	1051.2	1049.8	1051.2	1052.6	1054.0	1055.4	1055.5	1054.4	1053.3
180°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3



TEST NUMBER: P332282

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**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°	21.1	20.0	18.3	16.6	14.9	13.2	12.6	13.1	13.6	14.1	14.5
95°	25.5	24.2	22.3	20.4	18.5	16.6	19.2	26.3	33.4	40.6	47.7
97.5°	26.6	25.2	37.7	50.2	62.7	75.2	83.1	86.3	89.5	92.7	95.8
100°	27.2	25.8	52.9	80.0	107.1	134.2	146.0	142.5	139.1	135.6	132.1
102.5°	47.1	51.4	81.0	110.6	140.3	169.9	183.4	180.9	178.4	175.9	173.4
105°	140.5	171.2	186.8	202.5	218.1	233.8	240.6	238.7	236.8	234.9	233.0
107.5°	291.3	313.8	311.3	308.9	306.4	303.9	301.9	300.4	298.9	297.4	295.8
110°	346.9	352.6	350.7	348.8	346.9	344.9	343.3	341.9	340.5	339.1	337.7



TEST NUMBER: P332282

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

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	392.1	392.0	390.1	388.2	386.3	384.3	382.8	381.5	380.3	379.0	377.8
115°	450.5	448.8	447.2	445.6	444.1	442.5	441.2	440.2	439.1	438.1	437.0
117.5°	505.2	503.8	503.0	502.2	501.4	500.6	499.5	498.3	497.0	495.7	494.4
120°	540.8	539.4	538.9	538.4	537.9	537.4	536.3	534.7	533.2	531.6	530.1
122.5°	576.1	575.1	574.4	573.8	573.1	572.4	571.5	570.2	568.9	567.6	566.3
125°	625.8	625.4	624.7	624.0	623.4	622.7	621.6	620.2	618.8	617.4	616.1
127.5°	674.8	674.2	673.4	672.6	671.7	670.9	669.8	668.4	667.0	665.6	664.2
130°	704.3	703.6	702.9	702.2	701.5	700.8	699.8	698.4	697.0	695.6	694.2
132.5°	732.5	731.8	731.2	730.6	730.1	729.5	728.6	727.2	725.8	724.4	723.0
135°	775.3	774.8	774.1	773.4	772.7	772.0	771.1	770.1	769.0	768.0	766.9
137.5°	813.0	812.1	811.7	811.4	811.0	810.6	809.7	808.4	807.1	805.8	804.5
140°	837.2	836.5	836.0	835.5	835.0	834.4	833.7	832.6	831.6	830.5	829.5
142.5°	860.2	859.7	859.1	858.6	858.1	857.6	856.8	855.8	854.7	853.7	852.6
145°	892.4	892.0	891.7	891.3	891.0	890.6	889.9	888.6	887.4	886.2	885.0
147.5°	921.0	920.6	920.3	919.9	919.6	919.3	918.7	917.9	917.1	916.3	915.5
150°	938.5	938.2	937.8	937.5	937.1	936.8	936.3	935.8	935.3	934.8	934.2
152.5°	953.8	953.2	953.0	952.7	952.5	952.3	952.1	951.9	951.6	951.4	951.1
155°	975.0	974.1	973.9	973.8	973.6	973.4	973.5	973.9	974.2	974.6	974.9
157.5°	993.5	992.4	992.6	992.8	992.9	993.1	993.2	993.2	993.3	993.3	993.3
160°	1004.1	1003.0	1003.2	1003.4	1003.6	1003.7	1003.9	1004.1	1004.3	1004.4	1004.6
162.5°	1013.6	1012.4	1012.6	1012.8	1012.9	1013.1	1013.4	1013.9	1014.3	1014.8	1015.2
165°	1026.3	1024.9	1025.1	1025.3	1025.5	1025.6	1026.0	1026.5	1027.0	1027.5	1028.1
167.5°	1036.3	1034.9	1034.9	1034.9	1034.9	1034.9	1035.3	1036.0	1036.7	1037.4	1038.1
170°	1042.0	1040.6	1040.6	1040.6	1040.6	1040.6	1040.9	1041.6	1042.3	1043.0	1043.7
172.5°	1045.7	1044.3	1044.2	1044.0	1043.9	1043.8	1044.1	1044.9	1045.8	1046.6	1047.4
175°	1050.4	1049.2	1049.0	1048.8	1048.6	1048.5	1048.8	1049.7	1050.6	1051.4	1052.3
177.5°	1052.2	1051.0	1050.9	1050.8	1050.6	1050.5	1050.8	1051.5	1052.2	1052.9	1053.5
180°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3



TEST NUMBER: P332282

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

**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°	14.1	13.6	13.1	12.6	13.2	14.9	16.6	18.3	20.0	21.1	22.2
95°	40.6	33.4	26.3	19.2	16.6	18.5	20.4	22.3	24.2	25.5	26.7
97.5°	92.7	89.5	86.3	83.1	75.2	62.7	50.2	37.7	25.2	26.6	28.0
100°	135.6	139.1	142.5	146.0	134.2	107.1	80.0	52.9	25.8	27.2	28.6
102.5°	175.9	178.4	180.9	183.4	169.9	140.3	110.6	81.0	51.4	47.1	42.8
105°	234.9	236.8	238.7	240.6	233.8	218.1	202.5	186.8	171.2	140.5	109.7
107.5°	297.4	298.9	300.4	301.9	303.9	306.4	308.9	311.3	313.8	291.3	268.7
110°	339.1	340.5	341.9	343.3	344.9	346.9	348.8	350.7	352.6	346.9	341.1





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	379.0	380.3	381.5	382.8	384.3	386.3	388.2	390.1	392.0	392.1	392.2
115°	438.1	439.1	440.2	441.2	442.5	444.1	445.6	447.2	448.8	450.5	452.2
117.5°	495.7	497.0	498.3	499.5	500.6	501.4	502.2	503.0	503.8	505.2	506.6
120°	531.6	533.2	534.7	536.3	537.4	537.9	538.4	538.9	539.4	540.8	542.2
122.5°	567.6	568.9	570.2	571.5	572.4	573.1	573.8	574.4	575.1	576.1	577.0
125°	617.4	618.8	620.2	621.6	622.7	623.4	624.0	624.7	625.4	625.8	626.1
127.5°	665.6	667.0	668.4	669.8	670.9	671.7	672.6	673.4	674.2	674.8	675.3
130°	695.6	697.0	698.4	699.8	700.8	701.5	702.2	702.9	703.6	704.3	705.0
132.5°	724.4	725.8	727.2	728.6	729.5	730.1	730.6	731.2	731.8	732.5	733.1
135°	768.0	769.0	770.1	771.1	772.0	772.7	773.4	774.1	774.8	775.3	775.8
137.5°	805.8	807.1	808.4	809.7	810.6	811.0	811.4	811.7	812.1	813.0	813.8
140°	830.5	831.6	832.6	833.7	834.4	835.0	835.5	836.0	836.5	837.2	837.9
142.5°	853.7	854.7	855.8	856.8	857.6	858.1	858.6	859.1	859.7	860.2	860.8
145°	886.2	887.4	888.6	889.9	890.6	891.0	891.3	891.7	892.0	892.4	892.7
147.5°	916.3	917.1	917.9	918.7	919.3	919.6	919.9	920.3	920.6	921.0	921.3
150°	934.8	935.3	935.8	936.3	936.8	937.1	937.5	937.8	938.2	938.5	938.8
152.5°	951.4	951.6	951.9	952.1	952.3	952.5	952.7	953.0	953.2	953.8	954.4
155°	974.6	974.2	973.9	973.5	973.4	973.6	973.8	973.9	974.1	975.0	975.9
157.5°	993.3	993.3	993.2	993.2	993.1	992.9	992.8	992.6	992.4	993.5	994.5
160°	1004.4	1004.3	1004.1	1003.9	1003.7	1003.6	1003.4	1003.2	1003.0	1004.1	1005.1
162.5°	1014.8	1014.3	1013.9	1013.4	1013.1	1012.9	1012.8	1012.6	1012.4	1013.6	1014.8
165°	1027.5	1027.0	1026.5	1026.0	1025.6	1025.5	1025.3	1025.1	1024.9	1026.3	1027.7
167.5°	1037.4	1036.7	1036.0	1035.3	1034.9	1034.9	1034.9	1034.9	1034.9	1036.3	1037.7
170°	1043.0	1042.3	1041.6	1040.9	1040.6	1040.6	1040.6	1040.6	1040.6	1042.0	1043.3
172.5°	1046.6	1045.8	1044.9	1044.1	1043.8	1043.9	1044.0	1044.2	1044.3	1045.7	1047.1
175°	1051.4	1050.6	1049.7	1048.8	1048.5	1048.6	1048.8	1049.0	1049.2	1050.4	1051.6
177.5°	1052.9	1052.2	1051.5	1050.8	1050.5	1050.6	1050.8	1050.9	1051.0	1052.2	1053.3
180°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3



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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°	23.3	24.5	25.1	25.3	25.5	25.7	26.0
95°	27.9	29.1	29.7	29.7	29.7	29.7	29.7
97.5°	29.3	30.7	31.5	31.7	31.9	32.0	32.2
100°	30.0	31.4	32.1	32.3	32.5	32.7	32.8
102.5°	38.5	34.2	32.2	32.5	32.8	33.1	33.5
105°	79.0	48.2	33.0	33.4	33.7	34.1	34.4
107.5°	246.2	223.6	200.7	177.6	154.4	131.2	108.0
110°	335.4	329.7	314.4	289.5	264.7	239.8	215.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	392.3	392.4	389.8	384.6	379.3	374.1	368.9
115°	454.0	455.7	456.9	457.6	458.3	459.0	459.7
117.5°	508.0	509.3	510.1	510.3	510.4	510.5	510.7
120°	543.6	545.0	545.7	545.7	545.7	545.7	545.7
122.5°	578.0	579.0	579.5	579.7	579.8	580.0	580.1
125°	626.5	626.8	627.2	627.5	627.9	628.2	628.6
127.5°	675.9	676.4	676.5	676.2	675.9	675.5	675.2
130°	705.7	706.4	706.6	706.2	705.9	705.5	705.2
132.5°	733.8	734.5	734.6	734.2	733.7	733.2	732.7
135°	776.3	776.8	776.8	776.3	775.8	775.3	774.8
137.5°	814.6	815.5	815.7	815.4	815.0	814.7	814.3
140°	838.6	839.3	839.5	839.1	838.8	838.4	838.1
142.5°	861.3	861.9	861.9	861.4	860.9	860.5	860.0
145°	893.1	893.4	893.6	893.6	893.6	893.6	893.6
147.5°	921.7	922.0	921.8	921.0	920.2	919.4	918.6
150°	939.2	939.5	939.5	938.9	938.4	937.9	937.4
152.5°	955.0	955.7	955.6	954.8	954.0	953.2	952.4
155°	976.7	977.6	977.5	976.5	975.4	974.4	973.3
157.5°	995.5	996.6	996.4	995.1	993.7	992.4	991.0
160°	1006.2	1007.2	1007.1	1005.9	1004.7	1003.5	1002.3
162.5°	1016.0	1017.1	1017.2	1016.1	1015.0	1014.0	1012.9
165°	1029.1	1030.5	1030.6	1029.4	1028.1	1026.9	1025.7
167.5°	1039.1	1040.5	1040.5	1039.1	1037.7	1036.3	1034.9
170°	1044.7	1046.1	1046.1	1044.7	1043.3	1042.0	1040.6
172.5°	1048.5	1049.9	1049.8	1048.3	1046.8	1045.2	1043.7
175°	1052.8	1054.0	1053.9	1052.6	1051.2	1049.8	1048.4
177.5°	1054.4	1055.5	1055.4	1054.0	1052.6	1051.2	1049.8
180°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3

(END OF REPORT)