

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: P332295-840

Luminaire Tested: **S123RDIP-S560D1195U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332295-840  
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-S560D1195U840-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6392.6 lumens  
Efficiency: N/A  
Efficacy: 129.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Indirect

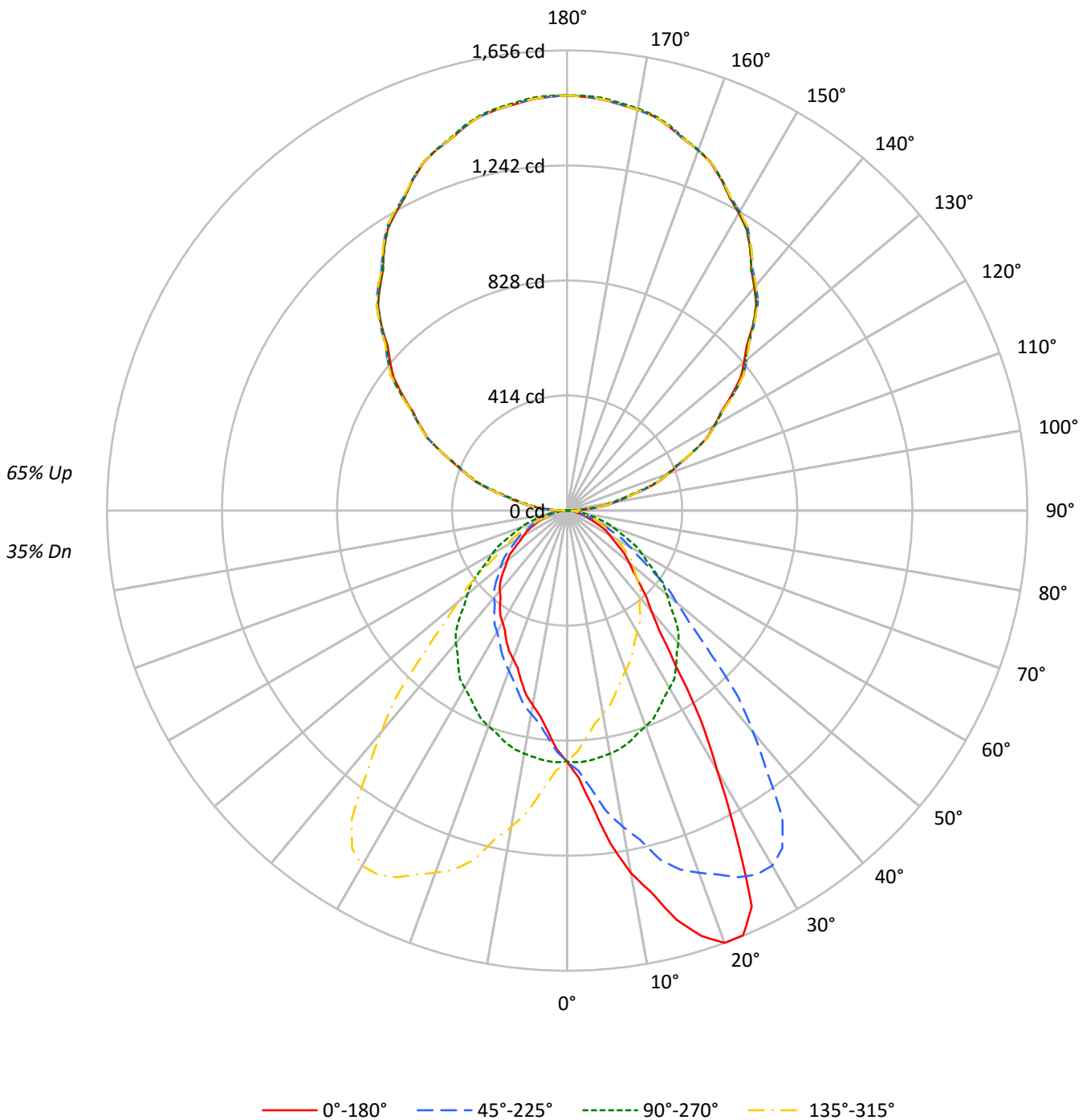
Input Watts (W): 49.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332295-840

CATALOG NUMBER: S123RDIP-S560D1195U840-4F0-1E-UDD-A1

### Luminous Intensity Polar Plot





TEST NUMBER: P332295-840

CATALOG NUMBER: S123RDIP-S560D1195U840-4F0-1E-UDD-A1

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20			20			20			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	35
1	95	91	87	84	86	82	79	76	66	64	62	52	50	49	38	37	37	30
2	87	80	74	69	78	72	68	63	59	55	52	46	44	42	34	33	32	26
3	79	70	63	58	72	64	58	53	52	48	44	41	38	36	31	29	27	23
4	73	62	55	49	66	57	50	45	46	42	38	37	33	31	28	26	24	20
5	67	56	48	42	60	51	44	39	42	37	33	33	30	27	25	23	21	17
6	62	50	42	37	56	46	39	34	38	33	29	30	26	24	23	20	19	15
7	57	45	38	32	51	41	35	30	34	29	25	27	24	21	21	18	17	14
8	53	41	34	29	48	38	31	27	31	26	23	25	21	19	19	17	15	13
9	49	37	30	25	45	34	28	24	28	24	20	23	19	17	18	15	14	11
10	46	34	27	23	42	32	25	21	26	22	18	21	18	15	17	14	12	10

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	9725	9725	9725	9725
5°	11594	9767	8602	9767
10°	14476	9711	7770	9711
15°	16992	9611	7086	9611
20°	18963	9464	6504	9464
25°	18659	9308	6147	9308
30°	13412	9163	5778	9163
35°	8956	8976	5540	8976
40°	6598	8751	5295	8751
45°	5535	8356	5051	8356
50°	4883	7839	4716	7839
55°	4282	7246	4252	7246
60°	3813	6678	3899	6678
65°	3349	6067	3627	6067
70°	2628	5526	3311	5526
75°	2316	4824	3023	4824
80°	2015	4097	2975	4097
85°	1618	3298	3149	3298



TEST NUMBER: P332295-840

CATALOG NUMBER: S123RDIP-S560D1195U840-4F0-1E-UDD-A1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.9	1.4
10°-20°	277.6	4.3
20°-30°	436.1	6.8
30°-40°	455.0	7.1
40°-50°	389.4	6.1
50°-60°	296.8	4.6
60°-70°	190.2	3.0
70°-80°	91.5	1.4
80°-90°	28.6	0.4
90°-100°	97.3	1.5
100°-110°	291.2	4.6
110°-120°	495.4	7.7
120°-130°	651.6	10.2
130°-140°	732.3	11.5
140°-150°	719.9	11.3
150°-160°	606.0	9.5
160°-170°	403.4	6.3
170°-180°	141.3	2.2
0°-30°	802.6	12.6
0°-40°	1257.6	19.7
0°-60°	1943.7	30.4
0°-90°	2254.1	35.3
90°-120°	883.9	13.8
90°-150°	2987.7	46.7
90°-180°	4138.0	64.7
0°-180°	6392.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	904	904	904	904	904	
5°	1073	904	796	904	1073	111
15°	1525	862	636	862	1525	432
25°	1571	784	518	784	1571	675
35°	682	683	422	683	682	447
45°	364	549	332	549	364	286
55°	228	386	227	386	228	206
65°	132	238	142	238	132	129
75°	56	116	73	116	56	60
85°	13	27	26	27	13	16
90°	35	1	35	1	35	18
95°	92	69	92	69	92	94
105°	279	264	279	264	279	296
115°	500	499	500	499	500	495
125°	722	730	722	730	722	645
135°	946	947	946	947	946	727
145°	1149	1149	1149	1149	1149	717
155°	1313	1315	1313	1315	1313	605
165°	1428	1433	1428	1433	1428	403
175°	1484	1490	1484	1490	1484	141
180°	1494	1494	1494	1494	1494	



TEST NUMBER: P332295-840

CATALOG NUMBER: S123RDIP-S560D1195U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5
2.5°	962.3	963.6	959.6	959.0	954.3	953.1	953.1	946.5	942.5	937.3	934.2
5°	1073.0	1079.1	1076.1	1069.1	1057.5	1054.8	1047.4	1035.8	1022.7	1006.4	998.8
7.5°	1211.1	1219.6	1216.3	1205.6	1193.5	1183.6	1162.9	1143.6	1116.6	1093.0	1072.7
10°	1324.4	1315.5	1308.6	1298.1	1286.9	1268.7	1247.1	1217.3	1182.9	1155.8	1125.6
12.5°	1409.2	1407.8	1398.9	1388.2	1372.3	1355.0	1328.4	1292.1	1252.1	1212.9	1178.5
15°	1524.8	1527.1	1521.3	1510.1	1487.6	1457.0	1416.8	1401.8	1344.5	1301.9	1259.4
17.5°	1604.8	1604.3	1603.5	1587.9	1565.1	1543.3	1506.0	1466.3	1414.5	1354.5	1297.3
20°	1655.5	1651.6	1652.4	1635.0	1618.0	1592.9	1556.5	1498.8	1456.3	1387.0	1327.9
22.5°	1654.3	1653.5	1656.4	1650.4	1638.1	1618.8	1590.2	1541.6	1487.2	1417.3	1350.8
25°	1571.1	1568.1	1586.3	1591.2	1611.0	1614.5	1606.0	1579.3	1527.8	1455.9	1373.5
27.5°	1314.9	1313.2	1347.0	1389.2	1442.8	1484.4	1524.6	1544.0	1527.8	1476.3	1393.8
30°	1079.1	1115.5	1132.6	1193.7	1261.7	1342.9	1414.1	1481.8	1498.4	1476.0	1408.4
32.5°	896.0	927.7	941.9	994.4	1057.8	1153.0	1259.7	1355.5	1423.3	1440.5	1399.7
35°	681.6	682.0	714.4	737.6	796.4	894.2	997.9	1126.3	1253.9	1350.7	1360.8
37.5°	543.8	545.7	565.4	588.5	632.7	684.4	775.7	882.4	1029.9	1178.3	1265.4
40°	469.6	473.0	487.8	510.6	542.3	581.4	652.6	753.1	876.1	1041.3	1176.3
42.5°	421.9	427.6	435.2	452.7	472.3	509.0	566.5	644.2	756.0	912.2	1067.9
45°	363.6	366.7	372.4	380.6	398.4	423.9	462.6	514.8	607.6	733.4	889.3
47.5°	320.7	319.1	325.2	331.8	343.7	361.0	387.0	429.6	495.8	596.6	728.9
50°	291.6	291.2	295.5	300.5	311.7	324.6	345.8	377.9	430.5	514.0	635.1
52.5°	264.4	265.9	268.9	275.2	283.3	293.6	312.7	335.8	381.0	453.1	554.0
55°	228.2	229.3	233.6	237.1	242.9	253.4	265.4	284.7	315.6	365.9	449.1
57.5°	197.5	197.0	201.2	202.0	208.5	217.0	226.3	241.4	263.8	301.1	357.2
60°	177.1	176.0	179.5	182.2	185.6	192.6	200.4	215.1	232.9	260.3	308.3
62.5°	158.5	158.0	160.6	163.3	166.1	172.5	179.0	190.3	204.4	227.5	265.6
65°	131.5	132.7	133.8	135.0	136.5	140.4	146.6	154.3	164.0	180.3	207.7
67.5°	103.3	104.5	104.9	107.2	110.6	113.0	116.8	123.7	130.5	144.1	159.8
70°	83.5	83.1	83.5	84.7	89.0	93.2	98.3	103.3	107.6	117.2	130.4
72.5°	71.8	71.1	72.1	72.3	74.4	75.5	78.8	83.5	89.0	95.5	105.0
75°	55.7	55.7	55.7	55.7	57.3	58.1	59.2	60.4	62.3	65.3	72.3
77.5°	41.2	41.2	41.8	42.1	42.5	42.9	43.6	44.8	45.4	47.2	50.1
80°	32.5	32.9	32.5	32.9	32.9	33.6	34.0	35.2	35.5	37.6	38.7
82.5°	24.4	24.2	24.4	24.8	24.8	25.7	25.7	26.6	26.7	27.6	28.8
85°	13.1	12.4	13.1	12.7	13.5	12.7	13.1	13.9	13.9	14.3	15.9
87.5°	10.1	10.6	9.9	10.1	10.0	10.2	10.0	9.8	10.2	9.7	9.3
90°	35.2	34.6	34.1	33.6	33.1	32.3	31.3	30.3	29.2	28.2	24.7
92.5°	47.4	47.7	48.1	48.4	48.7	48.4	47.6	46.8	45.8	45.0	43.1
95°	91.5	91.5	91.5	91.5	91.5	91.0	90.0	88.9	87.9	86.8	84.7
97.5°	140.8	140.9	141.0	141.1	141.2	140.7	139.5	138.3	137.0	135.8	134.3
100°	178.3	177.8	177.3	176.8	176.2	175.6	174.8	174.0	173.3	172.5	171.2
102.5°	216.8	216.9	217.0	217.1	217.2	216.9	216.1	215.3	214.6	213.8	212.1
105°	279.2	278.7	278.2	277.7	277.2	276.9	276.9	276.9	276.9	276.9	274.6
107.5°	344.3	344.6	344.9	345.2	345.5	345.3	344.5	343.6	342.7	341.9	340.9
110°	388.4	388.9	389.4	389.9	390.4	390.2	389.2	388.1	387.1	386.1	385.5



TEST NUMBER: P332295-840

CATALOG NUMBER: S123RDIP-S560D1195U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	435.4	435.5	435.6	435.7	435.8	435.2	433.9	432.6	431.4	430.1	430.0
115°	499.9	500.1	500.4	500.6	500.9	500.9	500.6	500.4	500.1	499.9	500.4
117.5°	565.3	566.0	566.7	567.5	568.3	568.7	568.7	568.8	568.8	568.9	569.6
120°	611.3	611.9	612.4	612.9	613.4	613.8	614.1	614.3	614.6	614.8	616.1
122.5°	655.4	656.1	656.9	657.6	658.3	659.0	659.7	660.5	661.1	661.8	662.5
125°	721.6	722.7	723.7	724.8	725.8	726.8	727.9	728.9	729.9	731.0	731.5
127.5°	787.6	788.7	789.9	791.1	792.3	793.7	795.2	796.6	798.1	799.5	800.1
130°	830.7	832.5	834.4	836.2	838.0	839.5	840.5	841.5	842.6	843.6	844.4
132.5°	875.8	877.2	878.6	880.0	881.4	882.7	884.0	885.2	886.5	887.8	888.3
135°	945.7	946.2	946.7	947.3	947.8	948.6	949.6	950.7	951.7	952.7	953.0
137.5°	1007.4	1008.5	1009.5	1010.4	1011.4	1012.4	1013.5	1014.6	1015.7	1016.8	1016.1
140°	1047.8	1049.7	1051.5	1053.3	1055.1	1056.1	1056.4	1056.6	1056.9	1057.2	1056.9
142.5°	1089.1	1090.6	1091.9	1093.3	1094.7	1095.6	1095.8	1096.1	1096.3	1096.6	1096.1
145°	1148.7	1149.7	1150.7	1151.9	1152.9	1153.6	1153.8	1154.1	1154.3	1154.6	1153.8
147.5°	1201.7	1203.3	1204.9	1206.4	1208.0	1208.8	1208.8	1208.8	1208.8	1208.8	1208.0
150°	1235.6	1237.1	1238.7	1240.2	1241.8	1242.5	1242.5	1242.5	1242.5	1242.5	1242.0
152.5°	1268.4	1269.7	1271.1	1272.4	1273.8	1274.2	1273.8	1273.4	1273.0	1272.6	1272.3
155°	1312.9	1314.8	1316.7	1318.5	1320.3	1320.7	1319.6	1318.6	1317.6	1316.5	1316.3
157.5°	1353.5	1355.0	1356.5	1358.0	1359.4	1359.6	1358.5	1357.4	1356.3	1355.2	1355.0
160°	1379.9	1380.9	1381.9	1383.0	1384.0	1383.9	1382.6	1381.3	1380.0	1378.7	1378.7
162.5°	1399.6	1401.2	1402.9	1404.5	1406.2	1406.4	1405.1	1403.8	1402.5	1401.2	1401.0
165°	1427.9	1429.8	1431.6	1433.4	1435.2	1435.4	1433.8	1432.3	1430.7	1429.2	1429.2
167.5°	1452.1	1453.7	1455.3	1456.9	1458.5	1458.5	1456.9	1455.3	1453.7	1452.1	1451.9
170°	1464.3	1466.1	1467.9	1469.9	1471.7	1471.7	1469.9	1467.9	1466.1	1464.3	1464.3
172.5°	1473.7	1475.5	1477.3	1479.1	1481.1	1481.2	1479.6	1477.9	1476.3	1474.7	1474.7
175°	1484.3	1486.1	1487.9	1489.8	1491.6	1491.7	1490.2	1488.5	1487.0	1485.4	1485.4
177.5°	1490.0	1491.4	1492.8	1494.3	1495.7	1495.8	1494.6	1493.4	1492.1	1490.9	1490.9
180°	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7



TEST NUMBER: P332295-840

CATALOG NUMBER: S123RDIP-S560D1195U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5
2.5°	932.9	932.0	927.7	922.7	916.3	911.9	908.5	906.7	901.1	894.2	889.6
5°	990.6	979.0	966.6	951.5	937.6	923.3	914.4	903.9	891.2	876.9	866.8
7.5°	1052.3	1029.6	1005.0	979.8	954.7	932.3	912.5	895.5	875.3	854.7	840.3
10°	1099.6	1066.4	1032.0	996.7	964.6	934.5	911.3	888.5	864.1	840.5	822.7
12.5°	1142.7	1098.9	1059.2	1015.9	974.9	938.9	905.4	878.6	849.3	824.2	803.9
15°	1197.1	1152.3	1104.3	1038.5	984.0	938.4	897.8	862.5	827.0	796.1	776.3
17.5°	1248.0	1180.5	1116.1	1061.2	990.4	933.3	883.7	841.6	802.6	769.8	745.5
20°	1269.1	1203.8	1133.7	1063.7	994.1	930.3	872.6	826.2	785.6	748.4	726.0
22.5°	1281.7	1207.7	1134.0	1058.7	984.8	918.5	861.5	810.4	766.4	731.1	703.5
25°	1296.6	1208.3	1127.1	1052.9	977.4	905.4	837.8	783.7	736.1	698.5	669.1
27.5°	1306.3	1202.5	1106.5	1024.0	947.5	875.9	813.9	756.4	708.1	668.4	636.9
30°	1308.2	1197.9	1090.8	1001.4	923.6	857.9	792.1	737.2	686.2	644.0	614.6
32.5°	1310.6	1186.5	1069.4	974.5	894.9	829.8	770.2	717.7	665.4	623.9	593.9
35°	1300.4	1180.1	1037.0	928.0	848.3	785.2	731.4	683.1	631.7	591.4	560.9
37.5°	1256.5	1155.0	1003.4	875.5	792.1	733.8	689.9	647.8	600.7	557.2	528.5
40°	1212.2	1130.2	977.4	843.6	756.6	696.6	657.1	622.8	577.1	536.4	505.5
42.5°	1146.3	1096.5	952.7	810.2	716.3	658.5	625.3	593.0	553.0	511.7	482.6
45°	1025.4	1032.0	902.0	757.0	660.7	602.6	571.3	548.9	513.3	479.3	449.5
47.5°	873.7	935.2	842.5	700.2	602.0	547.4	520.1	500.5	476.6	443.1	416.0
50°	774.8	862.5	794.9	662.2	565.1	511.0	483.9	468.1	447.2	420.8	395.0
52.5°	683.5	777.8	737.3	619.8	525.2	475.6	449.2	436.2	419.6	394.9	371.4
55°	557.3	652.9	643.6	555.8	465.3	420.8	400.7	386.1	374.8	356.3	337.7
57.5°	450.8	541.4	546.2	484.6	412.5	368.6	351.3	340.2	332.9	318.9	301.7
60°	383.7	466.9	483.1	436.7	374.8	336.1	319.1	310.2	304.4	293.2	280.0
62.5°	328.0	398.8	417.2	383.7	338.6	302.4	289.1	280.5	276.6	266.9	255.3
65°	251.1	309.8	327.6	309.0	285.5	256.4	245.6	238.2	234.8	229.3	220.9
67.5°	188.7	231.7	251.2	238.0	229.5	211.2	204.3	200.4	197.2	193.6	186.4
70°	151.6	183.4	203.5	200.0	193.0	183.4	178.3	175.6	172.5	169.5	163.2
72.5°	121.9	143.7	162.6	164.4	158.6	156.7	152.3	151.2	149.3	145.6	142.2
75°	80.9	95.9	109.1	114.1	116.4	118.4	116.4	116.0	115.6	112.6	110.6
77.5°	53.0	61.1	69.4	78.0	81.6	84.2	84.8	86.2	85.2	83.6	82.7
80°	40.6	42.5	48.4	55.7	61.5	63.8	65.3	66.1	65.7	65.3	63.8
82.5°	29.5	31.1	33.8	39.0	43.8	47.8	48.7	48.5	49.4	49.6	48.4
85°	15.9	16.3	17.1	17.8	20.5	24.7	26.0	26.7	27.5	27.5	25.1
87.5°	9.2	8.3	8.2	7.6	8.0	7.8	9.1	10.1	11.0	10.3	10.8
90°	21.4	18.0	14.6	11.6	9.0	6.4	3.7	1.2	3.7	6.4	9.0
92.5°	41.2	39.3	37.4	35.4	33.7	31.9	30.2	28.4	30.2	31.9	33.7
95°	82.6	80.6	78.5	76.5	74.7	72.9	71.1	69.3	71.1	72.9	74.7
97.5°	132.9	131.4	129.9	128.4	127.0	125.7	124.3	123.0	124.3	125.7	127.0
100°	169.9	168.5	167.2	165.8	164.3	162.7	161.2	159.6	161.2	162.7	164.3
102.5°	210.4	208.6	206.9	205.6	204.6	203.7	202.8	201.8	202.8	203.7	204.6
105°	272.3	269.8	267.5	266.1	265.6	265.1	264.5	264.0	264.5	265.1	265.6
107.5°	340.0	339.1	338.2	337.5	337.2	336.9	336.6	336.3	336.6	336.9	337.2
110°	385.0	384.5	384.0	383.4	382.9	382.3	381.8	381.3	381.8	382.3	382.9





TEST NUMBER: P332295-840

CATALOG NUMBER: S123RDIP-S560D1195U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	429.9	429.8	429.7	429.5	429.2	428.9	428.6	428.3	428.6	428.9	429.2
115°	500.9	501.4	501.9	501.8	501.0	500.2	499.5	498.7	499.5	500.2	501.0
117.5°	570.2	570.9	571.6	571.6	571.1	570.6	570.1	569.6	570.1	570.6	571.1
120°	617.4	618.7	620.1	620.0	618.3	616.8	615.2	613.7	615.2	616.8	618.3
122.5°	663.1	663.8	664.5	664.3	663.1	662.0	660.8	659.6	660.8	662.0	663.1
125°	732.1	732.6	733.1	733.0	732.2	731.3	730.6	729.8	730.6	731.3	732.2
127.5°	800.6	801.2	801.8	801.2	799.6	797.9	796.3	794.6	796.3	797.9	799.6
130°	845.2	846.0	846.8	846.1	844.0	841.9	839.8	837.8	839.8	841.9	844.0
132.5°	888.9	889.5	890.1	889.3	887.2	885.1	883.0	880.9	883.0	885.1	887.2
135°	953.3	953.5	953.8	953.1	951.6	950.0	948.5	946.8	948.5	950.0	951.6
137.5°	1015.4	1014.8	1014.1	1013.1	1011.8	1010.5	1009.2	1007.9	1009.2	1010.5	1011.8
140°	1056.6	1056.4	1056.1	1055.3	1054.1	1052.8	1051.5	1050.2	1051.5	1052.8	1054.1
142.5°	1095.7	1095.2	1094.7	1093.9	1092.6	1091.3	1089.9	1088.6	1089.9	1091.3	1092.6
145°	1153.0	1152.3	1151.4	1150.7	1150.2	1149.7	1149.2	1148.7	1149.2	1149.7	1150.2
147.5°	1207.3	1206.6	1205.9	1205.1	1204.1	1203.2	1202.2	1201.2	1202.2	1203.2	1204.1
150°	1241.5	1241.0	1240.5	1240.0	1239.4	1238.9	1238.4	1237.9	1238.4	1238.9	1239.4
152.5°	1272.0	1271.6	1271.3	1270.8	1270.1	1269.4	1268.7	1267.9	1268.7	1269.4	1270.1
155°	1316.0	1315.8	1315.5	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3
157.5°	1354.8	1354.6	1354.3	1354.4	1354.7	1355.0	1355.3	1355.6	1355.3	1355.0	1354.7
160°	1378.7	1378.7	1378.7	1379.0	1379.5	1380.0	1380.5	1381.0	1380.5	1380.0	1379.5
162.5°	1400.8	1400.6	1400.4	1400.7	1401.4	1402.1	1402.8	1403.5	1402.8	1402.1	1401.4
165°	1429.2	1429.2	1429.2	1429.6	1430.3	1431.1	1431.9	1432.7	1431.9	1431.1	1430.3
167.5°	1451.7	1451.5	1451.3	1451.7	1452.8	1453.8	1454.8	1455.9	1454.8	1453.8	1452.8
170°	1464.3	1464.3	1464.3	1464.8	1465.9	1466.9	1467.9	1469.1	1467.9	1466.9	1465.9
172.5°	1474.7	1474.7	1474.7	1475.2	1476.2	1477.2	1478.3	1479.4	1478.3	1477.2	1476.2
175°	1485.4	1485.4	1485.4	1486.0	1487.0	1488.0	1489.1	1490.2	1489.1	1488.0	1487.0
177.5°	1490.9	1490.9	1490.9	1491.3	1492.1	1493.0	1493.8	1494.6	1493.8	1493.0	1492.1
180°	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7



TEST NUMBER: P332295-840

CATALOG NUMBER: S123RDIP-S560D1195U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5
2.5°	888.1	884.0	881.3	875.0	871.1	866.8	862.4	865.2	864.8	864.5	864.5
5°	858.3	849.4	841.3	830.8	824.3	816.2	809.9	809.2	810.7	805.3	802.2
7.5°	828.8	816.6	805.1	793.6	781.3	771.5	765.5	762.7	758.7	755.4	751.8
10°	808.0	793.8	782.4	768.2	755.1	743.5	736.1	731.0	728.3	725.6	720.6
12.5°	786.7	772.6	758.3	742.1	729.6	716.2	710.7	705.1	699.8	696.8	689.9
15°	755.4	737.2	722.2	705.1	691.3	678.0	670.3	659.1	657.5	653.7	646.7
17.5°	724.1	704.4	683.6	671.0	655.2	641.6	629.8	626.0	614.9	610.8	604.7
20°	699.3	681.2	665.3	648.6	625.8	613.1	603.8	598.7	589.9	584.4	580.6
22.5°	678.0	659.4	641.2	621.8	602.9	588.7	581.8	574.0	569.2	561.6	557.3
25°	647.5	627.4	605.3	584.4	570.9	560.1	549.3	542.3	535.3	531.8	524.1
27.5°	612.1	591.1	570.5	554.6	538.0	527.3	517.5	511.3	502.9	497.1	492.8
30°	592.6	567.8	550.1	535.7	514.4	504.4	497.1	489.3	483.1	477.0	472.6
32.5°	570.0	547.3	530.5	512.8	496.4	485.5	475.9	469.2	463.9	458.1	453.8
35°	534.5	515.6	498.2	480.4	468.4	457.2	446.0	440.2	435.2	429.7	425.9
37.5°	502.5	484.8	468.3	451.4	436.6	427.4	418.4	413.9	407.2	403.5	399.6
40°	482.7	465.3	447.6	431.3	415.8	408.9	400.7	394.2	388.0	385.3	381.0
42.5°	461.1	443.6	428.7	411.1	398.5	389.0	381.5	374.4	369.7	365.8	363.3
45°	429.0	413.4	398.8	381.4	369.4	361.2	352.7	346.2	341.9	339.2	335.0
47.5°	397.8	382.3	367.4	352.2	340.6	331.3	322.9	318.2	312.7	309.3	306.4
50°	375.2	361.2	345.4	331.4	319.9	310.6	303.7	297.8	292.8	288.5	286.6
52.5°	354.5	339.6	325.9	313.0	300.7	290.1	283.9	277.7	274.0	269.0	266.8
55°	320.2	306.0	294.4	281.6	269.6	260.7	253.0	247.5	243.7	238.2	235.2
57.5°	288.1	275.3	261.5	250.4	238.0	230.6	224.1	216.7	212.1	207.8	204.8
60°	266.5	251.8	239.8	229.3	218.5	208.8	203.1	197.2	192.3	187.9	185.3
62.5°	243.9	231.1	219.7	208.3	198.4	190.0	183.3	178.3	174.0	171.3	168.5
65°	209.2	199.2	187.6	178.3	169.1	162.9	157.4	153.2	150.1	148.1	145.8
67.5°	177.4	167.6	157.5	148.3	142.2	137.4	133.9	130.3	128.8	126.2	124.7
70°	156.6	146.6	137.7	130.8	124.5	121.1	118.8	116.0	114.5	111.4	109.9
72.5°	134.1	126.8	120.4	114.6	109.7	106.5	103.6	100.3	97.8	94.4	92.8
75°	105.6	99.1	94.0	90.1	87.1	82.8	78.6	75.0	73.9	72.7	72.3
77.5°	78.2	74.0	70.4	67.2	63.3	60.2	59.3	58.5	58.3	57.7	57.7
80°	61.5	57.7	54.9	51.1	48.8	48.8	48.8	48.0	48.4	48.4	48.4
82.5°	45.7	42.1	40.7	39.3	38.9	39.2	39.2	39.3	39.1	39.7	39.4
85°	23.6	23.9	24.7	24.3	24.7	24.7	25.5	25.1	25.5	24.7	25.5
87.5°	11.0	12.5	13.5	14.4	15.5	15.9	16.4	16.6	17.1	17.3	17.5
90°	11.6	14.6	18.0	21.4	24.7	28.2	29.2	30.3	31.3	32.3	33.1
92.5°	35.4	37.4	39.3	41.2	43.1	45.0	45.8	46.8	47.6	48.4	48.7
95°	76.5	78.5	80.6	82.6	84.7	86.8	87.9	88.9	90.0	91.0	91.5
97.5°	128.4	129.9	131.4	132.9	134.3	135.8	137.0	138.3	139.5	140.7	141.2
100°	165.8	167.2	168.5	169.9	171.2	172.5	173.3	174.0	174.8	175.6	176.2
102.5°	205.6	206.9	208.6	210.4	212.1	213.8	214.6	215.3	216.1	216.9	217.2
105°	266.1	267.5	269.8	272.3	274.6	276.9	276.9	276.9	276.9	276.9	277.2
107.5°	337.5	338.2	339.1	340.0	340.9	341.9	342.7	343.6	344.5	345.3	345.5
110°	383.4	384.0	384.5	385.0	385.5	386.1	387.1	388.1	389.2	390.2	390.4



TEST NUMBER: P332295-840

CATALOG NUMBER: S123RDIP-S560D1195U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	429.5	429.7	429.8	429.9	430.0	430.1	431.4	432.6	433.9	435.2	435.8
115°	501.8	501.9	501.4	500.9	500.4	499.9	500.1	500.4	500.6	500.9	500.9
117.5°	571.6	571.6	570.9	570.2	569.6	568.9	568.8	568.8	568.7	568.7	568.3
120°	620.0	620.1	618.7	617.4	616.1	614.8	614.6	614.3	614.1	613.8	613.4
122.5°	664.3	664.5	663.8	663.1	662.5	661.8	661.1	660.5	659.7	659.0	658.3
125°	733.0	733.1	732.6	732.1	731.5	731.0	729.9	728.9	727.9	726.8	725.8
127.5°	801.2	801.8	801.2	800.6	800.1	799.5	798.1	796.6	795.2	793.7	792.3
130°	846.1	846.8	846.0	845.2	844.4	843.6	842.6	841.5	840.5	839.5	838.0
132.5°	889.3	890.1	889.5	888.9	888.3	887.8	886.5	885.2	884.0	882.7	881.4
135°	953.1	953.8	953.5	953.3	953.0	952.7	951.7	950.7	949.6	948.6	947.8
137.5°	1013.1	1014.1	1014.8	1015.4	1016.1	1016.8	1015.7	1014.6	1013.5	1012.4	1011.4
140°	1055.3	1056.1	1056.4	1056.6	1056.9	1057.2	1056.9	1056.6	1056.4	1056.1	1055.1
142.5°	1093.9	1094.7	1095.2	1095.7	1096.1	1096.6	1096.3	1096.1	1095.8	1095.6	1094.7
145°	1150.7	1151.4	1152.3	1153.0	1153.8	1154.6	1154.3	1154.1	1153.8	1153.6	1152.9
147.5°	1205.1	1205.9	1206.6	1207.3	1208.0	1208.8	1208.8	1208.8	1208.8	1208.8	1208.0
150°	1240.0	1240.5	1241.0	1241.5	1242.0	1242.5	1242.5	1242.5	1242.5	1242.5	1241.8
152.5°	1270.8	1271.3	1271.6	1272.0	1272.3	1272.6	1273.0	1273.4	1273.8	1274.2	1273.8
155°	1315.3	1315.5	1315.8	1316.0	1316.3	1316.5	1317.6	1318.6	1319.6	1320.7	1320.3
157.5°	1354.4	1354.3	1354.6	1354.8	1355.0	1355.2	1356.3	1357.4	1358.5	1359.6	1359.4
160°	1379.0	1378.7	1378.7	1378.7	1378.7	1378.7	1380.0	1381.3	1382.6	1383.9	1384.0
162.5°	1400.7	1400.4	1400.6	1400.8	1401.0	1401.2	1402.5	1403.8	1405.1	1406.4	1406.2
165°	1429.6	1429.2	1429.2	1429.2	1429.2	1429.2	1430.7	1432.3	1433.8	1435.4	1435.2
167.5°	1451.7	1451.3	1451.5	1451.7	1451.9	1452.1	1453.7	1455.3	1456.9	1458.5	1458.5
170°	1464.8	1464.3	1464.3	1464.3	1464.3	1464.3	1466.1	1467.9	1469.9	1471.7	1471.7
172.5°	1475.2	1474.7	1474.7	1474.7	1474.7	1474.7	1476.3	1477.9	1479.6	1481.2	1481.1
175°	1486.0	1485.4	1485.4	1485.4	1485.4	1485.4	1487.0	1488.5	1490.2	1491.7	1491.6
177.5°	1491.3	1490.9	1490.9	1490.9	1490.9	1490.9	1492.1	1493.4	1494.6	1495.8	1495.7
180°	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7



TEST NUMBER: P332295-840

CATALOG NUMBER: S123RDIP-S560D1195U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5
2.5°	860.8	860.5	860.8	859.6	860.8	860.5	860.8	864.5	864.5	864.8	865.2
5°	801.0	800.6	799.5	796.1	799.5	800.6	801.0	802.2	805.3	810.7	809.2
7.5°	748.8	748.3	744.9	745.0	744.9	748.3	748.8	751.8	755.4	758.7	762.7
10°	717.9	718.3	713.7	710.9	713.7	718.3	717.9	720.6	725.6	728.3	731.0
12.5°	687.9	686.1	682.4	679.3	682.4	686.1	687.9	689.9	696.8	699.8	705.1
15°	648.2	644.4	635.1	635.9	635.1	644.4	648.2	646.7	653.7	657.5	659.1
17.5°	601.6	598.7	598.6	593.2	598.6	598.7	601.6	604.7	610.8	614.9	626.0
20°	574.4	572.5	573.2	567.8	573.2	572.5	574.4	580.6	584.4	589.9	598.7
22.5°	553.0	551.1	547.9	546.1	547.9	551.1	553.0	557.3	561.6	569.2	574.0
25°	521.8	518.7	515.6	517.6	515.6	518.7	521.8	524.1	531.8	535.3	542.3
27.5°	490.5	488.2	485.1	484.7	485.1	488.2	490.5	492.8	497.1	502.9	511.3
30°	470.7	468.4	466.9	464.9	466.9	468.4	470.7	472.6	477.0	483.1	489.3
32.5°	450.6	450.2	447.4	447.0	447.4	450.2	450.6	453.8	458.1	463.9	469.2
35°	424.3	422.0	421.2	421.6	421.2	422.0	424.3	425.9	429.7	435.2	440.2
37.5°	399.3	396.3	394.9	393.4	394.9	396.3	399.3	399.6	403.5	407.2	413.9
40°	381.4	378.3	377.5	376.8	377.5	378.3	381.4	381.0	385.3	388.0	394.2
42.5°	361.2	360.0	359.6	358.2	359.6	360.0	361.2	363.3	365.8	369.7	374.4
45°	333.8	333.5	331.1	331.8	331.1	333.5	333.8	335.0	339.2	341.9	346.2
47.5°	304.9	303.2	301.5	302.7	301.5	303.2	304.9	306.4	309.3	312.7	318.2
50°	285.1	284.3	280.8	281.6	280.8	284.3	285.1	286.6	288.5	292.8	297.8
52.5°	265.3	262.4	261.1	260.5	261.1	262.4	265.3	266.8	269.0	274.0	277.7
55°	232.5	228.9	227.4	226.6	227.4	228.9	232.5	235.2	238.2	243.7	247.5
57.5°	200.3	199.3	198.1	198.9	198.1	199.3	200.3	204.8	207.8	212.1	216.7
60°	181.4	181.4	181.4	181.1	181.4	181.4	181.4	185.3	187.9	192.3	197.2
62.5°	166.8	165.9	165.6	166.1	165.6	165.9	166.8	168.5	171.3	174.0	178.3
65°	144.6	144.3	142.7	142.4	142.7	144.3	144.6	145.8	148.1	150.1	153.2
67.5°	123.7	122.3	121.9	121.3	121.9	122.3	123.7	124.7	126.2	128.8	130.3
70°	108.0	107.1	104.8	105.2	104.8	107.1	108.0	109.9	111.4	114.5	116.0
72.5°	90.9	90.1	89.7	89.1	89.7	90.1	90.9	92.8	94.4	97.8	100.3
75°	71.9	71.6	71.2	72.7	71.2	71.6	71.9	72.3	72.7	73.9	75.0
77.5°	57.7	57.7	57.9	57.3	57.9	57.7	57.7	57.7	57.7	58.3	58.5
80°	48.4	48.4	48.0	48.0	48.0	48.4	48.4	48.4	48.4	48.4	48.0
82.5°	38.8	39.1	39.3	38.7	39.3	39.1	38.8	39.4	39.7	39.1	39.3
85°	25.5	25.1	26.0	25.5	26.0	25.1	25.5	25.5	24.7	25.5	25.1
87.5°	18.2	17.7	17.8	18.2	17.8	17.7	18.2	17.5	17.3	17.1	16.6
90°	33.6	34.1	34.6	35.2	34.6	34.1	33.6	33.1	32.3	31.3	30.3
92.5°	48.4	48.1	47.7	47.4	47.7	48.1	48.4	48.7	48.4	47.6	46.8
95°	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.0	90.0	88.9
97.5°	141.1	141.0	140.9	140.8	140.9	141.0	141.1	141.2	140.7	139.5	138.3
100°	176.8	177.3	177.8	178.3	177.8	177.3	176.8	176.2	175.6	174.8	174.0
102.5°	217.1	217.0	216.9	216.8	216.9	217.0	217.1	217.2	216.9	216.1	215.3
105°	277.7	278.2	278.7	279.2	278.7	278.2	277.7	277.2	276.9	276.9	276.9
107.5°	345.2	344.9	344.6	344.3	344.6	344.9	345.2	345.5	345.3	344.5	343.6
110°	389.9	389.4	388.9	388.4	388.9	389.4	389.9	390.4	390.2	389.2	388.1



TEST NUMBER: P332295-840

CATALOG NUMBER: S123RDIP-S560D1195U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	435.7	435.6	435.5	435.4	435.5	435.6	435.7	435.8	435.2	433.9	432.6
115°	500.6	500.4	500.1	499.9	500.1	500.4	500.6	500.9	500.9	500.6	500.4
117.5°	567.5	566.7	566.0	565.3	566.0	566.7	567.5	568.3	568.7	568.7	568.8
120°	612.9	612.4	611.9	611.3	611.9	612.4	612.9	613.4	613.8	614.1	614.3
122.5°	657.6	656.9	656.1	655.4	656.1	656.9	657.6	658.3	659.0	659.7	660.5
125°	724.8	723.7	722.7	721.6	722.7	723.7	724.8	725.8	726.8	727.9	728.9
127.5°	791.1	789.9	788.7	787.6	788.7	789.9	791.1	792.3	793.7	795.2	796.6
130°	836.2	834.4	832.5	830.7	832.5	834.4	836.2	838.0	839.5	840.5	841.5
132.5°	880.0	878.6	877.2	875.8	877.2	878.6	880.0	881.4	882.7	884.0	885.2
135°	947.3	946.7	946.2	945.7	946.2	946.7	947.3	947.8	948.6	949.6	950.7
137.5°	1010.4	1009.5	1008.5	1007.4	1008.5	1009.5	1010.4	1011.4	1012.4	1013.5	1014.6
140°	1053.3	1051.5	1049.7	1047.8	1049.7	1051.5	1053.3	1055.1	1056.1	1056.4	1056.6
142.5°	1093.3	1091.9	1090.6	1089.1	1090.6	1091.9	1093.3	1094.7	1095.6	1095.8	1096.1
145°	1151.9	1150.7	1149.7	1148.7	1149.7	1150.7	1151.9	1152.9	1153.6	1153.8	1154.1
147.5°	1206.4	1204.9	1203.3	1201.7	1203.3	1204.9	1206.4	1208.0	1208.8	1208.8	1208.8
150°	1240.2	1238.7	1237.1	1235.6	1237.1	1238.7	1240.2	1241.8	1242.5	1242.5	1242.5
152.5°	1272.4	1271.1	1269.7	1268.4	1269.7	1271.1	1272.4	1273.8	1274.2	1273.8	1273.4
155°	1318.5	1316.7	1314.8	1312.9	1314.8	1316.7	1318.5	1320.3	1320.7	1319.6	1318.6
157.5°	1358.0	1356.5	1355.0	1353.5	1355.0	1356.5	1358.0	1359.4	1359.6	1358.5	1357.4
160°	1383.0	1381.9	1380.9	1379.9	1380.9	1381.9	1383.0	1384.0	1383.9	1382.6	1381.3
162.5°	1404.5	1402.9	1401.2	1399.6	1401.2	1402.9	1404.5	1406.2	1406.4	1405.1	1403.8
165°	1433.4	1431.6	1429.8	1427.9	1429.8	1431.6	1433.4	1435.2	1435.4	1433.8	1432.3
167.5°	1456.9	1455.3	1453.7	1452.1	1453.7	1455.3	1456.9	1458.5	1458.5	1456.9	1455.3
170°	1469.9	1467.9	1466.1	1464.3	1466.1	1467.9	1469.9	1471.7	1471.7	1469.9	1467.9
172.5°	1479.1	1477.3	1475.5	1473.7	1475.5	1477.3	1479.1	1481.1	1481.2	1479.6	1477.9
175°	1489.8	1487.9	1486.1	1484.3	1486.1	1487.9	1489.8	1491.6	1491.7	1490.2	1488.5
177.5°	1494.3	1492.8	1491.4	1490.0	1491.4	1492.8	1494.3	1495.7	1495.8	1494.6	1493.4
180°	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7



TEST NUMBER: P332295-840

CATALOG NUMBER: S123RDIP-S560D1195U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5
2.5°	862.4	866.8	871.1	875.0	881.3	884.0	888.1	889.6	894.2	901.1	906.7
5°	809.9	816.2	824.3	830.8	841.3	849.4	858.3	866.8	876.9	891.2	903.9
7.5°	765.5	771.5	781.3	793.6	805.1	816.6	828.8	840.3	854.7	875.3	895.5
10°	736.1	743.5	755.1	768.2	782.4	793.8	808.0	822.7	840.5	864.1	888.5
12.5°	710.7	716.2	729.6	742.1	758.3	772.6	786.7	803.9	824.2	849.3	878.6
15°	670.3	678.0	691.3	705.1	722.2	737.2	755.4	776.3	796.1	827.0	862.5
17.5°	629.8	641.6	655.2	671.0	683.6	704.4	724.1	745.5	769.8	802.6	841.6
20°	603.8	613.1	625.8	648.6	665.3	681.2	699.3	726.0	748.4	785.6	826.2
22.5°	581.8	588.7	602.9	621.8	641.2	659.4	678.0	703.5	731.1	766.4	810.4
25°	549.3	560.1	570.9	584.4	605.3	627.4	647.5	669.1	698.5	736.1	783.7
27.5°	517.5	527.3	538.0	554.6	570.5	591.1	612.1	636.9	668.4	708.1	756.4
30°	497.1	504.4	514.4	535.7	550.1	567.8	592.6	614.6	644.0	686.2	737.2
32.5°	475.9	485.5	496.4	512.8	530.5	547.3	570.0	593.9	623.9	665.4	717.7
35°	446.0	457.2	468.4	480.4	498.2	515.6	534.5	560.9	591.4	631.7	683.1
37.5°	418.4	427.4	436.6	451.4	468.3	484.8	502.5	528.5	557.2	600.7	647.8
40°	400.7	408.9	415.8	431.3	447.6	465.3	482.7	505.5	536.4	577.1	622.8
42.5°	381.5	389.0	398.5	411.1	428.7	443.6	461.1	482.6	511.7	553.0	593.0
45°	352.7	361.2	369.4	381.4	398.8	413.4	429.0	449.5	479.3	513.3	548.9
47.5°	322.9	331.3	340.6	352.2	367.4	382.3	397.8	416.0	443.1	476.6	500.5
50°	303.7	310.6	319.9	331.4	345.4	361.2	375.2	395.0	420.8	447.2	468.1
52.5°	283.9	290.1	300.7	313.0	325.9	339.6	354.5	371.4	394.9	419.6	436.2
55°	253.0	260.7	269.6	281.6	294.4	306.0	320.2	337.7	356.3	374.8	386.1
57.5°	224.1	230.6	238.0	250.4	261.5	275.3	288.1	301.7	318.9	332.9	340.2
60°	203.1	208.8	218.5	229.3	239.8	251.8	266.5	280.0	293.2	304.4	310.2
62.5°	183.3	190.0	198.4	208.3	219.7	231.1	243.9	255.3	266.9	276.6	280.5
65°	157.4	162.9	169.1	178.3	187.6	199.2	209.2	220.9	229.3	234.8	238.2
67.5°	133.9	137.4	142.2	148.3	157.5	167.6	177.4	186.4	193.6	197.2	200.4
70°	118.8	121.1	124.5	130.8	137.7	146.6	156.6	163.2	169.5	172.5	175.6
72.5°	103.6	106.5	109.7	114.6	120.4	126.8	134.1	142.2	145.6	149.3	151.2
75°	78.6	82.8	87.1	90.1	94.0	99.1	105.6	110.6	112.6	115.6	116.0
77.5°	59.3	60.2	63.3	67.2	70.4	74.0	78.2	82.7	83.6	85.2	86.2
80°	48.8	48.8	48.8	51.1	54.9	57.7	61.5	63.8	65.3	65.7	66.1
82.5°	39.2	39.2	38.9	39.3	40.7	42.1	45.7	48.4	49.6	49.4	48.5
85°	25.5	24.7	24.7	24.3	24.7	23.9	23.6	25.1	27.5	27.5	26.7
87.5°	16.4	15.9	15.5	14.4	13.5	12.5	11.0	10.8	10.3	11.0	10.1
90°	29.2	28.2	24.7	21.4	18.0	14.6	11.6	9.0	6.4	3.7	1.2
92.5°	45.8	45.0	43.1	41.2	39.3	37.4	35.4	33.7	31.9	30.2	28.4
95°	87.9	86.8	84.7	82.6	80.6	78.5	76.5	74.7	72.9	71.1	69.3
97.5°	137.0	135.8	134.3	132.9	131.4	129.9	128.4	127.0	125.7	124.3	123.0
100°	173.3	172.5	171.2	169.9	168.5	167.2	165.8	164.3	162.7	161.2	159.6
102.5°	214.6	213.8	212.1	210.4	208.6	206.9	205.6	204.6	203.7	202.8	201.8
105°	276.9	276.9	274.6	272.3	269.8	267.5	266.1	265.6	265.1	264.5	264.0
107.5°	342.7	341.9	340.9	340.0	339.1	338.2	337.5	337.2	336.9	336.6	336.3
110°	387.1	386.1	385.5	385.0	384.5	384.0	383.4	382.9	382.3	381.8	381.3



TEST NUMBER: P332295-840

CATALOG NUMBER: S123RDIP-S560D1195U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	431.4	430.1	430.0	429.9	429.8	429.7	429.5	429.2	428.9	428.6	428.3
115°	500.1	499.9	500.4	500.9	501.4	501.9	501.8	501.0	500.2	499.5	498.7
117.5°	568.8	568.9	569.6	570.2	570.9	571.6	571.6	571.1	570.6	570.1	569.6
120°	614.6	614.8	616.1	617.4	618.7	620.1	620.0	618.3	616.8	615.2	613.7
122.5°	661.1	661.8	662.5	663.1	663.8	664.5	664.3	663.1	662.0	660.8	659.6
125°	729.9	731.0	731.5	732.1	732.6	733.1	733.0	732.2	731.3	730.6	729.8
127.5°	798.1	799.5	800.1	800.6	801.2	801.8	801.2	799.6	797.9	796.3	794.6
130°	842.6	843.6	844.4	845.2	846.0	846.8	846.1	844.0	841.9	839.8	837.8
132.5°	886.5	887.8	888.3	888.9	889.5	890.1	889.3	887.2	885.1	883.0	880.9
135°	951.7	952.7	953.0	953.3	953.5	953.8	953.1	951.6	950.0	948.5	946.8
137.5°	1015.7	1016.8	1016.1	1015.4	1014.8	1014.1	1013.1	1011.8	1010.5	1009.2	1007.9
140°	1056.9	1057.2	1056.9	1056.6	1056.4	1056.1	1055.3	1054.1	1052.8	1051.5	1050.2
142.5°	1096.3	1096.6	1096.1	1095.7	1095.2	1094.7	1093.9	1092.6	1091.3	1089.9	1088.6
145°	1154.3	1154.6	1153.8	1153.0	1152.3	1151.4	1150.7	1150.2	1149.7	1149.2	1148.7
147.5°	1208.8	1208.8	1208.0	1207.3	1206.6	1205.9	1205.1	1204.1	1203.2	1202.2	1201.2
150°	1242.5	1242.5	1242.0	1241.5	1241.0	1240.5	1240.0	1239.4	1238.9	1238.4	1237.9
152.5°	1273.0	1272.6	1272.3	1272.0	1271.6	1271.3	1270.8	1270.1	1269.4	1268.7	1267.9
155°	1317.6	1316.5	1316.3	1316.0	1315.8	1315.5	1315.3	1315.3	1315.3	1315.3	1315.3
157.5°	1356.3	1355.2	1355.0	1354.8	1354.6	1354.3	1354.4	1354.7	1355.0	1355.3	1355.6
160°	1380.0	1378.7	1378.7	1378.7	1378.7	1378.7	1379.0	1379.5	1380.0	1380.5	1381.0
162.5°	1402.5	1401.2	1401.0	1400.8	1400.6	1400.4	1400.7	1401.4	1402.1	1402.8	1403.5
165°	1430.7	1429.2	1429.2	1429.2	1429.2	1429.2	1429.6	1430.3	1431.1	1431.9	1432.7
167.5°	1453.7	1452.1	1451.9	1451.7	1451.5	1451.3	1451.7	1452.8	1453.8	1454.8	1455.9
170°	1466.1	1464.3	1464.3	1464.3	1464.3	1464.3	1464.8	1465.9	1466.9	1467.9	1469.1
172.5°	1476.3	1474.7	1474.7	1474.7	1474.7	1474.7	1475.2	1476.2	1477.2	1478.3	1479.4
175°	1487.0	1485.4	1485.4	1485.4	1485.4	1485.4	1486.0	1487.0	1488.0	1489.1	1490.2
177.5°	1492.1	1490.9	1490.9	1490.9	1490.9	1490.9	1491.3	1492.1	1493.0	1493.8	1494.6
180°	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7



TEST NUMBER: P332295-840

CATALOG NUMBER: S123RDIP-S560D1195U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5
2.5°	908.5	911.9	916.3	922.7	927.7	932.0	932.9	934.2	937.3	942.5	946.5
5°	914.4	923.3	937.6	951.5	966.6	979.0	990.6	998.8	1006.4	1022.7	1035.8
7.5°	912.5	932.3	954.7	979.8	1005.0	1029.6	1052.3	1072.7	1093.0	1116.6	1143.6
10°	911.3	934.5	964.6	996.7	1032.0	1066.4	1099.6	1125.6	1155.8	1182.9	1217.3
12.5°	905.4	938.9	974.9	1015.9	1059.2	1098.9	1142.7	1178.5	1212.9	1252.1	1292.1
15°	897.8	938.4	984.0	1038.5	1104.3	1152.3	1197.1	1259.4	1301.9	1344.5	1401.8
17.5°	883.7	933.3	990.4	1061.2	1116.1	1180.5	1248.0	1297.3	1354.5	1414.5	1466.3
20°	872.6	930.3	994.1	1063.7	1133.7	1203.8	1269.1	1327.9	1387.0	1456.3	1498.8
22.5°	861.5	918.5	984.8	1058.7	1134.0	1207.7	1281.7	1350.8	1417.3	1487.2	1541.6
25°	837.8	905.4	977.4	1052.9	1127.1	1208.3	1296.6	1373.5	1455.9	1527.8	1579.3
27.5°	813.9	875.9	947.5	1024.0	1106.5	1202.5	1306.3	1393.8	1476.3	1527.8	1544.0
30°	792.1	857.9	923.6	1001.4	1090.8	1197.9	1308.2	1408.4	1476.0	1498.4	1481.8
32.5°	770.2	829.8	894.9	974.5	1069.4	1186.5	1310.6	1399.7	1440.5	1423.3	1355.5
35°	731.4	785.2	848.3	928.0	1037.0	1180.1	1300.4	1360.8	1350.7	1253.9	1126.3
37.5°	689.9	733.8	792.1	875.5	1003.4	1155.0	1256.5	1265.4	1178.3	1029.9	882.4
40°	657.1	696.6	756.6	843.6	977.4	1130.2	1212.2	1176.3	1041.3	876.1	753.1
42.5°	625.3	658.5	716.3	810.2	952.7	1096.5	1146.3	1067.9	912.2	756.0	644.2
45°	571.3	602.6	660.7	757.0	902.0	1032.0	1025.4	889.3	733.4	607.6	514.8
47.5°	520.1	547.4	602.0	700.2	842.5	935.2	873.7	728.9	596.6	495.8	429.6
50°	483.9	511.0	565.1	662.2	794.9	862.5	774.8	635.1	514.0	430.5	377.9
52.5°	449.2	475.6	525.2	619.8	737.3	777.8	683.5	554.0	453.1	381.0	335.8
55°	400.7	420.8	465.3	555.8	643.6	652.9	557.3	449.1	365.9	315.6	284.7
57.5°	351.3	368.6	412.5	484.6	546.2	541.4	450.8	357.2	301.1	263.8	241.4
60°	319.1	336.1	374.8	436.7	483.1	466.9	383.7	308.3	260.3	232.9	215.1
62.5°	289.1	302.4	338.6	383.7	417.2	398.8	328.0	265.6	227.5	204.4	190.3
65°	245.6	256.4	285.5	309.0	327.6	309.8	251.1	207.7	180.3	164.0	154.3
67.5°	204.3	211.2	229.5	238.0	251.2	231.7	188.7	159.8	144.1	130.5	123.7
70°	178.3	183.4	193.0	200.0	203.5	183.4	151.6	130.4	117.2	107.6	103.3
72.5°	152.3	156.7	158.6	164.4	162.6	143.7	121.9	105.0	95.5	89.0	83.5
75°	116.4	118.4	116.4	114.1	109.1	95.9	80.9	72.3	65.3	62.3	60.4
77.5°	84.8	84.2	81.6	78.0	69.4	61.1	53.0	50.1	47.2	45.4	44.8
80°	65.3	63.8	61.5	55.7	48.4	42.5	40.6	38.7	37.6	35.5	35.2
82.5°	48.7	47.8	43.8	39.0	33.8	31.1	29.5	28.8	27.6	26.7	26.6
85°	26.0	24.7	20.5	17.8	17.1	16.3	15.9	15.9	14.3	13.9	13.9
87.5°	9.1	7.8	8.0	7.6	8.2	8.3	9.2	9.3	9.7	10.2	9.8
90°	3.7	6.4	9.0	11.6	14.6	18.0	21.4	24.7	28.2	29.2	30.3
92.5°	30.2	31.9	33.7	35.4	37.4	39.3	41.2	43.1	45.0	45.8	46.8
95°	71.1	72.9	74.7	76.5	78.5	80.6	82.6	84.7	86.8	87.9	88.9
97.5°	124.3	125.7	127.0	128.4	129.9	131.4	132.9	134.3	135.8	137.0	138.3
100°	161.2	162.7	164.3	165.8	167.2	168.5	169.9	171.2	172.5	173.3	174.0
102.5°	202.8	203.7	204.6	205.6	206.9	208.6	210.4	212.1	213.8	214.6	215.3
105°	264.5	265.1	265.6	266.1	267.5	269.8	272.3	274.6	276.9	276.9	276.9
107.5°	336.6	336.9	337.2	337.5	338.2	339.1	340.0	340.9	341.9	342.7	343.6
110°	381.8	382.3	382.9	383.4	384.0	384.5	385.0	385.5	386.1	387.1	388.1





TEST NUMBER: P332295-840

CATALOG NUMBER: S123RDIP-S560D1195U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	428.6	428.9	429.2	429.5	429.7	429.8	429.9	430.0	430.1	431.4	432.6
115°	499.5	500.2	501.0	501.8	501.9	501.4	500.9	500.4	499.9	500.1	500.4
117.5°	570.1	570.6	571.1	571.6	571.6	570.9	570.2	569.6	568.9	568.8	568.8
120°	615.2	616.8	618.3	620.0	620.1	618.7	617.4	616.1	614.8	614.6	614.3
122.5°	660.8	662.0	663.1	664.3	664.5	663.8	663.1	662.5	661.8	661.1	660.5
125°	730.6	731.3	732.2	733.0	733.1	732.6	732.1	731.5	731.0	729.9	728.9
127.5°	796.3	797.9	799.6	801.2	801.8	801.2	800.6	800.1	799.5	798.1	796.6
130°	839.8	841.9	844.0	846.1	846.8	846.0	845.2	844.4	843.6	842.6	841.5
132.5°	883.0	885.1	887.2	889.3	890.1	889.5	888.9	888.3	887.8	886.5	885.2
135°	948.5	950.0	951.6	953.1	953.8	953.5	953.3	953.0	952.7	951.7	950.7
137.5°	1009.2	1010.5	1011.8	1013.1	1014.1	1014.8	1015.4	1016.1	1016.8	1015.7	1014.6
140°	1051.5	1052.8	1054.1	1055.3	1056.1	1056.4	1056.6	1056.9	1057.2	1056.9	1056.6
142.5°	1089.9	1091.3	1092.6	1093.9	1094.7	1095.2	1095.7	1096.1	1096.6	1096.3	1096.1
145°	1149.2	1149.7	1150.2	1150.7	1151.4	1152.3	1153.0	1153.8	1154.6	1154.3	1154.1
147.5°	1202.2	1203.2	1204.1	1205.1	1205.9	1206.6	1207.3	1208.0	1208.8	1208.8	1208.8
150°	1238.4	1238.9	1239.4	1240.0	1240.5	1241.0	1241.5	1242.0	1242.5	1242.5	1242.5
152.5°	1268.7	1269.4	1270.1	1270.8	1271.3	1271.6	1272.0	1272.3	1272.6	1273.0	1273.4
155°	1315.3	1315.3	1315.3	1315.3	1315.5	1315.8	1316.0	1316.3	1316.5	1317.6	1318.6
157.5°	1355.3	1355.0	1354.7	1354.4	1354.3	1354.6	1354.8	1355.0	1355.2	1356.3	1357.4
160°	1380.5	1380.0	1379.5	1379.0	1378.7	1378.7	1378.7	1378.7	1378.7	1380.0	1381.3
162.5°	1402.8	1402.1	1401.4	1400.7	1400.4	1400.6	1400.8	1401.0	1401.2	1402.5	1403.8
165°	1431.9	1431.1	1430.3	1429.6	1429.2	1429.2	1429.2	1429.2	1429.2	1430.7	1432.3
167.5°	1454.8	1453.8	1452.8	1451.7	1451.3	1451.5	1451.7	1451.9	1452.1	1453.7	1455.3
170°	1467.9	1466.9	1465.9	1464.8	1464.3	1464.3	1464.3	1464.3	1464.3	1466.1	1467.9
172.5°	1478.3	1477.2	1476.2	1475.2	1474.7	1474.7	1474.7	1474.7	1474.7	1476.3	1477.9
175°	1489.1	1488.0	1487.0	1486.0	1485.4	1485.4	1485.4	1485.4	1485.4	1487.0	1488.5
177.5°	1493.8	1493.0	1492.1	1491.3	1490.9	1490.9	1490.9	1490.9	1490.9	1492.1	1493.4
180°	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7



TEST NUMBER: P332295-840

CATALOG NUMBER: S123RDIP-S560D1195U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	903.5	903.5	903.5	903.5	903.5	903.5	903.5
2.5°	953.1	953.1	954.3	959.0	959.6	963.6	962.3
5°	1047.4	1054.8	1057.5	1069.1	1076.1	1079.1	1073.0
7.5°	1162.9	1183.6	1193.5	1205.6	1216.3	1219.6	1211.1
10°	1247.1	1268.7	1286.9	1298.1	1308.6	1315.5	1324.4
12.5°	1328.4	1355.0	1372.3	1388.2	1398.9	1407.8	1409.2
15°	1416.8	1457.0	1487.6	1510.1	1521.3	1527.1	1524.8
17.5°	1506.0	1543.3	1565.1	1587.9	1603.5	1604.3	1604.8
20°	1556.5	1592.9	1618.0	1635.0	1652.4	1651.6	1655.5
22.5°	1590.2	1618.8	1638.1	1650.4	1656.4	1653.5	1654.3
25°	1606.0	1614.5	1611.0	1591.2	1586.3	1568.1	1571.1
27.5°	1524.6	1484.4	1442.8	1389.2	1347.0	1313.2	1314.9
30°	1414.1	1342.9	1261.7	1193.7	1132.6	1115.5	1079.1
32.5°	1259.7	1153.0	1057.8	994.4	941.9	927.7	896.0
35°	997.9	894.2	796.4	737.6	714.4	682.0	681.6
37.5°	775.7	684.4	632.7	588.5	565.4	545.7	543.8
40°	652.6	581.4	542.3	510.6	487.8	473.0	469.6
42.5°	566.5	509.0	472.3	452.7	435.2	427.6	421.9
45°	462.6	423.9	398.4	380.6	372.4	366.7	363.6
47.5°	387.0	361.0	343.7	331.8	325.2	319.1	320.7
50°	345.8	324.6	311.7	300.5	295.5	291.2	291.6
52.5°	312.7	293.6	283.3	275.2	268.9	265.9	264.4
55°	265.4	253.4	242.9	237.1	233.6	229.3	228.2
57.5°	226.3	217.0	208.5	202.0	201.2	197.0	197.5
60°	200.4	192.6	185.6	182.2	179.5	176.0	177.1
62.5°	179.0	172.5	166.1	163.3	160.6	158.0	158.5
65°	146.6	140.4	136.5	135.0	133.8	132.7	131.5
67.5°	116.8	113.0	110.6	107.2	104.9	104.5	103.3
70°	98.3	93.2	89.0	84.7	83.5	83.1	83.5
72.5°	78.8	75.5	74.4	72.3	72.1	71.1	71.8
75°	59.2	58.1	57.3	55.7	55.7	55.7	55.7
77.5°	43.6	42.9	42.5	42.1	41.8	41.2	41.2
80°	34.0	33.6	32.9	32.9	32.5	32.9	32.5
82.5°	25.7	25.7	24.8	24.8	24.4	24.2	24.4
85°	13.1	12.7	13.5	12.7	13.1	12.4	13.1
87.5°	10.0	10.2	10.0	10.1	9.9	10.6	10.1
90°	31.3	32.3	33.1	33.6	34.1	34.6	35.2
92.5°	47.6	48.4	48.7	48.4	48.1	47.7	47.4
95°	90.0	91.0	91.5	91.5	91.5	91.5	91.5
97.5°	139.5	140.7	141.2	141.1	141.0	140.9	140.8
100°	174.8	175.6	176.2	176.8	177.3	177.8	178.3
102.5°	216.1	216.9	217.2	217.1	217.0	216.9	216.8
105°	276.9	276.9	277.2	277.7	278.2	278.7	279.2
107.5°	344.5	345.3	345.5	345.2	344.9	344.6	344.3
110°	389.2	390.2	390.4	389.9	389.4	388.9	388.4



TEST NUMBER: P332295-840

CATALOG NUMBER: S123RDIP-S560D1195U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	433.9	435.2	435.8	435.7	435.6	435.5	435.4
115°	500.6	500.9	500.9	500.6	500.4	500.1	499.9
117.5°	568.7	568.7	568.3	567.5	566.7	566.0	565.3
120°	614.1	613.8	613.4	612.9	612.4	611.9	611.3
122.5°	659.7	659.0	658.3	657.6	656.9	656.1	655.4
125°	727.9	726.8	725.8	724.8	723.7	722.7	721.6
127.5°	795.2	793.7	792.3	791.1	789.9	788.7	787.6
130°	840.5	839.5	838.0	836.2	834.4	832.5	830.7
132.5°	884.0	882.7	881.4	880.0	878.6	877.2	875.8
135°	949.6	948.6	947.8	947.3	946.7	946.2	945.7
137.5°	1013.5	1012.4	1011.4	1010.4	1009.5	1008.5	1007.4
140°	1056.4	1056.1	1055.1	1053.3	1051.5	1049.7	1047.8
142.5°	1095.8	1095.6	1094.7	1093.3	1091.9	1090.6	1089.1
145°	1153.8	1153.6	1152.9	1151.9	1150.7	1149.7	1148.7
147.5°	1208.8	1208.8	1208.0	1206.4	1204.9	1203.3	1201.7
150°	1242.5	1242.5	1241.8	1240.2	1238.7	1237.1	1235.6
152.5°	1273.8	1274.2	1273.8	1272.4	1271.1	1269.7	1268.4
155°	1319.6	1320.7	1320.3	1318.5	1316.7	1314.8	1312.9
157.5°	1358.5	1359.6	1359.4	1358.0	1356.5	1355.0	1353.5
160°	1382.6	1383.9	1384.0	1383.0	1381.9	1380.9	1379.9
162.5°	1405.1	1406.4	1406.2	1404.5	1402.9	1401.2	1399.6
165°	1433.8	1435.4	1435.2	1433.4	1431.6	1429.8	1427.9
167.5°	1456.9	1458.5	1458.5	1456.9	1455.3	1453.7	1452.1
170°	1469.9	1471.7	1471.7	1469.9	1467.9	1466.1	1464.3
172.5°	1479.6	1481.2	1481.1	1479.1	1477.3	1475.5	1473.7
175°	1490.2	1491.7	1491.6	1489.8	1487.9	1486.1	1484.3
177.5°	1494.6	1495.8	1495.7	1494.3	1492.8	1491.4	1490.0
180°	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7

(END OF REPORT)