

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: P332386-930

Luminaire Tested: **S123RDIP-S1165D1195U930-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332386-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIP-S1165D1195U930-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1195 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7251.2 lumens
Efficiency: N/A
Efficacy: 101.1 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

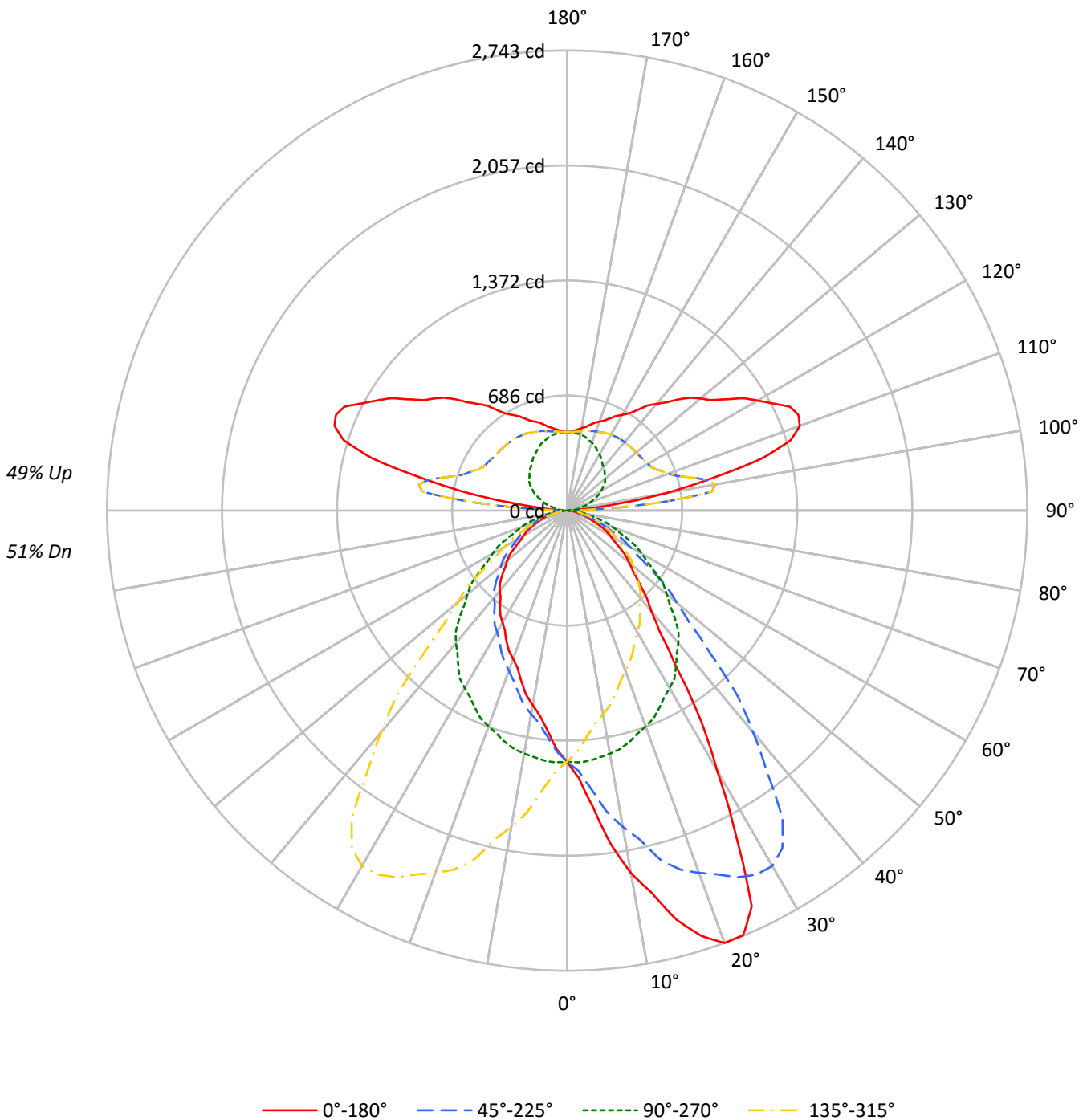
Input Watts (W): 71.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	99	95	91	88	91	88	85	82	75	72	70	63	61	60	52	51	50	45
2	90	83	77	73	83	77	72	68	66	62	59	56	53	51	46	44	43	38
3	83	74	67	61	76	69	62	58	59	54	50	50	46	44	41	39	37	33
4	76	66	58	52	70	61	54	49	53	48	44	45	41	38	37	35	32	29
5	70	59	51	45	65	55	48	43	47	42	38	40	36	33	34	31	29	25
6	65	53	45	39	60	49	42	37	43	37	33	37	33	29	31	28	25	23
7	60	48	40	35	55	45	38	33	39	34	30	34	29	26	28	25	23	20
8	56	44	36	31	52	41	34	29	36	30	26	31	27	23	26	23	21	18
9	52	40	33	28	48	38	31	26	33	28	24	28	24	21	24	21	19	17
10	49	37	30	25	45	35	28	24	30	25	22	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	16113	16113	16113	16113
5°	19207	16181	14249	16181
10°	23981	16088	12873	16088
15°	28149	15924	11739	15924
20°	31416	15678	10775	15678
25°	30914	15419	10183	15419
30°	22222	15181	9573	15181
35°	14837	14870	9179	14870
40°	10932	14497	8769	14497
45°	9168	13842	8369	13842
50°	8090	12983	7812	12983
55°	7096	12001	7047	12001
60°	6318	11063	6456	11063
65°	5547	10055	6006	10055
70°	4356	9155	5485	9155
75°	3839	7993	5011	7993
80°	3335	6794	4928	6794
85°	2692	5459	5224	5459



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.2	2.0
10°-20°	459.9	6.3
20°-30°	722.5	10.0
30°-40°	753.8	10.4
40°-50°	645.1	8.9
50°-60°	491.7	6.8
60°-70°	315.1	4.3
70°-80°	151.6	2.1
80°-90°	43.7	0.6
90°-100°	260.4	3.6
100°-110°	737.4	10.2
110°-120°	725.4	10.0
120°-130°	578.6	8.0
130°-140°	456.2	6.3
140°-150°	340.5	4.7
150°-160°	237.3	3.3
160°-170°	139.4	1.9
170°-180°	45.4	0.6
0°-30°	1329.6	18.3
0°-40°	2083.4	28.7
0°-60°	3220.2	44.4
0°-90°	3730.7	51.4
90°-120°	1723.2	23.8
90°-150°	3098.5	42.7
90°-180°	3521.0	48.6
0°-180°	7251.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1497	1497	1497	1497	1497	
5°	1778	1498	1319	1498	1778	184
15°	2526	1429	1053	1429	2526	716
25°	2603	1298	857	1298	2603	1119
35°	1129	1132	698	1132	1129	740
45°	602	909	550	909	602	474
55°	378	640	376	640	378	342
65°	218	395	236	395	218	214
75°	92	192	120	192	92	99
85°	22	44	42	44	22	26
90°	28	2	28	2	28	15
95°	110	32	110	32	110	198
105°	1205	110	1205	110	1205	1189
115°	1465	194	1465	194	1465	1424
125°	1156	270	1156	270	1156	1047
135°	937	316	937	316	937	727
145°	732	361	732	361	732	466
155°	607	410	607	410	607	283
165°	530	448	530	448	530	151
175°	476	467	476	467	476	46
180°	468	468	468	468	468	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1594.3	1596.4	1589.7	1588.7	1580.9	1578.9	1578.9	1568.1	1561.5	1552.8	1547.7
5°	1777.6	1787.9	1782.7	1771.2	1751.9	1747.4	1735.3	1716.0	1694.3	1667.4	1654.6
7.5°	2006.5	2020.5	2015.1	1997.2	1977.1	1960.9	1926.5	1894.6	1849.8	1810.6	1777.0
10°	2194.1	2179.4	2167.8	2150.5	2131.9	2101.8	2066.0	2016.6	1959.6	1914.7	1864.8
12.5°	2334.5	2332.2	2317.5	2299.7	2273.5	2244.8	2200.7	2140.6	2074.4	2009.5	1952.4
15°	2526.0	2529.9	2520.3	2501.7	2464.5	2413.9	2347.2	2322.3	2227.4	2157.0	2086.4
17.5°	2658.5	2657.8	2656.5	2630.7	2592.8	2556.8	2495.0	2429.3	2343.4	2244.1	2149.1
20°	2742.6	2736.2	2737.5	2708.7	2680.5	2638.8	2578.5	2483.1	2412.6	2297.9	2199.8
22.5°	2740.5	2739.3	2744.1	2734.3	2713.8	2681.8	2634.5	2553.8	2463.9	2348.1	2237.8
25°	2602.9	2597.8	2628.0	2636.3	2669.0	2674.7	2660.6	2616.4	2531.2	2412.0	2275.5
27.5°	2178.5	2175.6	2231.6	2301.5	2390.2	2459.1	2525.8	2557.9	2531.2	2445.8	2309.1
30°	1787.9	1848.0	1876.2	1977.5	2090.3	2224.9	2342.8	2454.9	2482.4	2445.3	2333.1
32.5°	1484.3	1536.9	1560.5	1647.4	1752.5	1910.1	2086.9	2245.7	2357.9	2386.3	2318.8
35°	1129.1	1129.8	1183.6	1222.0	1319.4	1481.6	1653.3	1866.0	2077.5	2237.7	2254.3
37.5°	901.0	904.2	936.7	975.0	1048.1	1133.8	1285.1	1461.9	1706.2	1952.2	2096.3
40°	778.0	783.7	808.0	845.9	898.4	963.1	1081.0	1247.7	1451.4	1725.0	1948.6
42.5°	699.0	708.3	720.9	750.0	782.5	843.2	938.5	1067.2	1252.5	1511.2	1769.3
45°	602.3	607.5	617.1	630.6	660.0	702.3	766.4	852.9	1006.7	1215.0	1473.2
47.5°	531.3	528.6	538.7	549.7	569.3	598.1	641.1	711.7	821.4	988.5	1207.5
50°	483.1	482.5	489.6	497.9	516.5	537.6	572.9	626.1	713.2	851.7	1052.2
52.5°	438.1	440.5	445.5	455.8	469.3	486.4	518.0	556.4	631.2	750.6	917.9
55°	378.1	380.0	387.0	392.8	402.4	419.7	439.6	471.7	522.9	606.2	744.0
57.5°	327.3	326.4	333.2	334.6	345.5	359.6	375.0	399.8	437.0	499.0	591.7
60°	293.5	291.6	297.3	301.8	307.6	319.1	331.9	356.3	385.8	431.3	510.7
62.5°	262.7	261.8	266.0	270.5	275.3	285.8	296.5	315.3	338.6	376.9	439.9
65°	217.8	219.8	221.7	223.6	226.2	232.6	242.9	255.7	271.7	298.6	344.1
67.5°	171.2	173.2	173.8	177.7	183.3	187.3	193.6	205.0	216.1	238.8	264.6
70°	138.4	137.8	138.4	140.3	147.4	154.4	162.7	171.1	178.1	194.1	216.0
72.5°	119.0	117.8	119.4	119.8	123.3	125.2	130.4	138.3	147.4	158.2	173.9
75°	92.3	92.3	92.3	92.3	94.8	96.1	98.1	100.0	103.1	108.3	119.8
77.5°	68.2	68.3	69.2	69.9	70.4	71.1	72.3	74.2	75.3	78.0	83.1
80°	53.8	54.5	53.8	54.5	54.5	55.8	56.4	58.3	58.9	62.1	64.1
82.5°	40.5	40.1	40.5	41.2	41.2	42.4	42.6	43.9	44.1	45.7	47.7
85°	21.8	20.5	21.8	21.1	22.4	21.1	21.8	23.1	23.1	23.7	26.3
87.5°	10.6	11.8	10.6	10.9	11.2	11.3	11.1	10.9	11.7	11.4	11.3
90°	27.5	28.5	27.5	26.5	27.5	25.6	24.6	23.6	22.7	23.6	20.9
92.5°	45.7	47.4	46.4	49.2	51.0	55.8	63.3	79.7	109.9	145.7	160.3
95°	109.9	113.7	120.3	128.8	146.8	180.9	231.1	341.0	455.6	561.7	500.2
97.5°	299.1	307.3	332.9	375.5	445.4	558.7	680.9	850.0	931.3	870.5	637.3
100°	593.9	593.0	629.9	699.0	794.8	929.3	1040.1	1116.8	1083.7	897.1	606.3
102.5°	871.3	893.1	924.0	978.7	1053.1	1138.4	1203.0	1205.5	1091.2	847.8	560.8
105°	1204.9	1209.7	1240.0	1275.9	1319.6	1344.2	1326.2	1231.4	1033.5	761.6	504.9
107.5°	1397.0	1405.7	1415.9	1428.1	1427.3	1393.6	1310.6	1156.7	932.3	685.4	469.3
110°	1475.9	1477.7	1479.6	1472.0	1445.5	1379.2	1259.9	1085.6	868.6	642.2	455.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1491.8	1491.3	1484.2	1460.7	1412.2	1326.9	1193.2	1015.0	813.3	613.4	448.1
115°	1465.4	1460.7	1441.7	1400.0	1329.0	1225.7	1086.5	921.7	746.4	582.5	445.2
117.5°	1381.7	1375.2	1347.9	1300.2	1226.1	1121.4	996.3	854.0	706.0	564.4	446.9
120°	1312.0	1306.3	1283.5	1230.4	1155.7	1060.0	946.3	818.4	684.9	556.0	450.0
122.5°	1246.8	1239.6	1214.6	1166.9	1100.3	1011.5	906.1	790.4	667.4	550.7	455.3
125°	1155.7	1149.0	1125.4	1083.7	1023.0	947.2	856.3	753.1	645.1	543.7	463.2
127.5°	1080.6	1074.6	1053.1	1017.6	963.5	894.5	812.5	720.5	625.4	540.3	472.3
130°	1038.2	1030.6	1010.7	976.6	926.4	862.0	785.3	700.0	614.7	538.0	478.3
132.5°	996.5	991.2	973.5	939.5	892.3	831.0	759.5	681.1	605.0	537.3	482.9
135°	936.9	930.2	913.1	884.8	838.3	784.3	722.8	655.5	592.1	536.1	489.8
137.5°	873.8	869.4	855.0	826.2	787.2	740.4	687.3	632.2	580.8	534.0	494.3
140°	829.8	830.7	815.6	789.0	753.1	712.3	666.8	618.6	574.1	533.3	497.3
142.5°	788.9	789.8	776.2	752.7	722.0	686.6	647.2	605.7	567.9	531.8	499.6
145°	732.2	730.3	722.8	702.9	679.1	651.8	621.4	590.1	559.9	529.5	501.1
147.5°	685.6	684.9	677.7	664.2	646.2	626.7	602.3	577.5	551.9	525.9	501.1
150°	658.4	658.4	652.6	642.2	628.0	610.0	590.1	568.3	546.6	522.9	501.1
152.5°	635.6	635.6	632.2	622.6	611.4	596.4	578.8	560.0	540.5	519.1	498.8
155°	607.2	606.3	604.4	596.8	588.2	576.9	562.6	547.5	531.4	512.5	496.4
157.5°	581.2	581.4	579.9	574.2	566.8	557.9	547.0	534.3	521.1	506.6	493.2
160°	564.6	565.5	565.5	559.9	553.2	546.6	537.1	526.7	514.4	502.1	491.6
162.5°	549.4	550.3	550.3	545.4	541.0	535.2	526.5	517.6	507.5	497.5	488.6
165°	529.5	529.5	530.4	526.7	522.9	518.1	511.5	505.8	498.2	490.6	484.0
167.5°	510.5	510.5	511.5	508.8	507.2	503.8	499.9	495.6	489.3	483.9	479.5
170°	499.2	499.2	500.2	498.2	497.3	495.4	491.6	488.8	484.0	479.3	476.5
172.5°	488.6	489.3	491.1	489.2	488.9	487.9	484.8	482.7	478.7	475.5	474.2
175°	476.5	477.4	478.3	477.4	477.4	477.4	475.5	474.6	472.7	470.8	470.8
177.5°	469.4	469.4	471.0	470.2	471.0	471.0	470.2	469.4	468.7	468.0	468.7
180°	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1545.6	1544.1	1536.9	1528.7	1517.9	1510.7	1505.1	1502.0	1492.8	1481.6	1473.8
5°	1641.1	1621.9	1601.3	1576.4	1553.3	1529.6	1514.8	1497.5	1476.4	1452.7	1436.1
7.5°	1743.4	1705.7	1665.1	1623.2	1581.8	1544.6	1511.8	1483.7	1450.0	1416.0	1392.2
10°	1821.8	1766.7	1709.7	1651.3	1598.1	1548.2	1509.7	1471.9	1431.6	1392.4	1363.0
12.5°	1893.0	1820.5	1754.8	1683.1	1615.1	1555.3	1500.0	1455.5	1407.0	1365.3	1331.7
15°	1983.3	1908.9	1829.5	1720.5	1630.2	1554.6	1487.3	1429.0	1370.0	1318.7	1286.1
17.5°	2067.6	1955.7	1848.9	1758.1	1640.7	1546.2	1464.1	1394.4	1329.7	1275.3	1235.1
20°	2102.5	1994.1	1878.2	1762.2	1646.8	1541.2	1445.6	1368.7	1301.5	1239.9	1202.8
22.5°	2123.4	2000.8	1878.7	1754.0	1631.5	1521.7	1427.2	1342.6	1269.7	1211.2	1165.4
25°	2148.0	2001.9	1867.3	1744.3	1619.3	1500.2	1388.0	1298.3	1219.4	1157.3	1108.6
27.5°	2164.1	1992.3	1833.2	1696.5	1569.7	1451.0	1348.3	1253.1	1173.2	1107.4	1055.2
30°	2167.1	1984.5	1807.0	1659.1	1530.2	1421.3	1312.4	1221.4	1136.8	1066.9	1018.2
32.5°	2171.3	1965.6	1771.6	1614.5	1482.5	1374.7	1275.9	1189.0	1102.4	1033.6	983.9
35°	2154.3	1955.1	1718.0	1537.2	1405.2	1300.8	1211.8	1131.6	1046.4	979.7	929.2
37.5°	2081.5	1913.4	1662.4	1450.4	1312.4	1215.6	1143.0	1073.2	995.1	923.2	875.5
40°	2008.2	1872.4	1619.3	1397.6	1253.4	1154.1	1088.8	1031.7	956.1	888.8	837.6
42.5°	1899.1	1816.6	1578.3	1342.2	1186.7	1091.0	1035.9	982.4	916.1	847.7	799.6
45°	1698.8	1709.7	1494.4	1254.0	1094.5	998.3	946.5	909.3	850.4	793.9	744.6
47.5°	1447.6	1549.5	1395.8	1160.1	997.2	907.0	861.6	829.2	789.5	734.1	689.1
50°	1283.5	1429.0	1316.9	1097.1	936.2	846.5	801.6	775.3	740.8	697.2	654.3
52.5°	1132.3	1288.5	1221.5	1026.8	870.1	788.1	744.2	722.6	695.1	654.1	615.3
55°	923.4	1081.7	1066.3	920.8	770.9	697.2	663.9	639.5	620.9	590.2	559.5
57.5°	746.9	897.0	904.9	802.9	683.5	610.7	582.0	563.6	551.5	528.3	499.9
60°	635.7	773.5	800.4	723.5	620.9	556.8	528.6	513.9	504.3	485.8	463.9
62.5°	543.4	660.6	691.1	635.8	560.9	501.0	478.9	464.7	458.2	442.1	422.9
65°	415.9	513.3	542.7	512.0	472.9	424.9	406.9	394.8	389.0	380.0	365.9
67.5°	312.7	383.7	416.0	394.4	380.3	349.8	338.4	331.9	326.8	320.7	308.8
70°	251.2	303.7	337.0	331.3	319.8	303.7	295.4	290.9	285.8	280.7	270.4
72.5°	201.9	238.1	269.4	272.3	262.9	259.7	252.3	250.5	247.4	241.2	235.5
75°	134.0	158.9	180.7	189.1	192.9	196.1	192.9	192.2	191.6	186.5	183.3
77.5°	87.8	101.3	115.0	129.2	135.2	139.6	140.6	142.9	141.2	138.5	137.0
80°	67.3	70.5	80.1	92.3	101.9	105.7	108.3	109.6	108.9	108.3	105.7
82.5°	48.8	51.5	56.0	64.6	72.6	79.1	80.6	80.4	81.8	82.2	80.1
85°	26.3	26.9	28.2	29.5	34.0	41.0	43.0	44.2	45.5	45.5	41.7
87.5°	11.8	10.7	11.2	10.8	12.0	11.9	14.6	16.8	17.7	16.0	16.6
90°	18.0	15.2	12.3	10.4	8.6	5.7	3.8	1.9	3.8	5.7	8.6
92.5°	120.3	79.6	54.8	40.8	32.8	25.4	17.4	11.7	17.4	25.4	32.8
95°	344.8	203.7	123.1	86.2	61.6	45.5	35.1	32.2	35.1	45.5	61.6
97.5°	378.3	219.2	142.3	102.3	78.0	64.0	55.8	55.0	55.8	64.0	78.0
100°	357.1	217.0	150.6	113.7	90.9	77.7	71.0	70.1	71.0	77.7	90.9
102.5°	338.9	220.0	160.5	126.5	106.1	93.6	87.7	86.0	87.7	93.6	106.1
105°	325.9	228.3	177.2	147.7	129.8	118.4	112.8	109.9	112.8	118.4	129.8
107.5°	324.9	243.9	198.9	171.6	154.7	143.6	138.1	135.3	138.1	143.6	154.7
110°	328.7	256.7	214.1	187.5	171.5	161.0	156.3	153.4	156.3	161.0	171.5



TEST NUMBER: P332386-930

CATALOG NUMBER: S123RDIP-S1165D1195U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	336.3	269.6	230.0	204.2	188.1	177.7	173.0	170.2	173.0	177.7	188.1
115°	348.6	290.8	254.8	229.3	213.1	203.7	198.0	194.2	198.0	203.7	213.1
117.5°	364.8	313.3	277.8	254.0	236.0	227.3	222.6	218.3	222.6	227.3	236.0
120°	377.0	327.8	293.7	269.9	252.0	242.5	237.7	234.9	237.7	242.5	252.0
122.5°	388.4	342.9	309.6	284.4	267.1	256.9	252.2	249.3	252.2	256.9	267.1
125°	406.3	364.7	331.5	306.0	288.0	277.5	271.9	269.9	271.9	277.5	288.0
127.5°	421.2	383.6	351.6	326.0	306.1	295.5	288.5	285.7	288.5	295.5	306.1
130°	431.0	395.0	363.7	338.2	318.3	306.9	298.4	295.5	298.4	306.9	318.3
132.5°	440.1	404.9	374.4	349.5	329.6	316.0	306.7	303.1	306.7	316.0	329.6
135°	451.8	419.6	390.3	364.7	344.8	330.6	320.2	316.4	320.2	330.6	344.8
137.5°	460.6	429.8	401.6	378.0	358.2	343.1	332.9	328.9	332.9	343.1	358.2
140°	465.1	436.7	409.2	385.6	366.6	351.4	341.9	337.2	341.9	351.4	366.6
142.5°	469.6	442.0	415.3	393.1	374.1	360.5	350.3	346.3	350.3	360.5	374.1
145°	474.6	449.0	424.4	402.6	386.5	372.3	363.7	360.9	363.7	372.3	386.5
147.5°	477.6	454.7	432.1	413.6	398.0	385.7	377.4	375.7	377.4	385.7	398.0
150°	478.3	458.4	436.7	419.6	406.3	394.0	386.5	385.6	386.5	394.0	406.3
152.5°	479.9	460.7	442.0	425.7	413.9	403.2	395.6	395.4	395.6	403.2	413.9
155°	480.3	465.1	449.0	435.7	425.3	415.9	410.2	410.2	410.2	415.9	425.3
157.5°	481.2	467.6	454.7	444.4	435.5	427.2	422.7	421.9	422.7	427.2	435.5
160°	481.2	469.9	458.4	449.0	442.4	434.8	431.0	431.0	431.0	434.8	442.4
162.5°	480.5	470.6	460.7	452.8	446.9	440.8	437.8	437.8	437.8	440.8	446.9
165°	478.3	471.7	464.1	457.5	453.7	449.0	447.1	448.1	447.1	449.0	453.7
167.5°	476.9	471.6	466.0	461.9	459.3	455.6	454.7	455.8	454.7	455.6	459.3
170°	474.6	470.8	466.0	464.1	462.3	459.4	458.4	460.4	458.4	459.4	462.3
172.5°	473.9	470.8	466.8	465.7	464.6	462.4	462.3	463.4	462.3	462.4	464.6
175°	471.7	469.9	468.0	467.0	467.0	465.1	466.0	467.0	466.0	465.1	467.0
177.5°	470.2	468.7	468.0	468.0	468.0	467.2	468.0	468.7	468.0	467.2	468.0
180°	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0



TEST NUMBER: P332386-930

CATALOG NUMBER: S123RDIP-S1165D1195U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1471.3	1464.6	1460.0	1449.8	1443.1	1435.9	1428.7	1433.4	1432.8	1432.3	1432.3
5°	1422.0	1407.2	1393.8	1376.5	1365.5	1352.1	1341.8	1340.5	1343.1	1334.2	1329.0
7.5°	1373.0	1352.8	1333.7	1314.7	1294.5	1278.3	1268.1	1263.4	1256.9	1251.3	1245.6
10°	1338.6	1314.9	1296.3	1272.6	1250.8	1231.6	1219.4	1211.1	1206.6	1202.2	1193.8
12.5°	1303.3	1280.1	1256.4	1229.6	1208.8	1186.5	1177.4	1168.1	1159.4	1154.5	1143.0
15°	1251.5	1221.4	1196.4	1168.2	1145.1	1123.3	1110.5	1091.9	1089.3	1083.0	1071.4
17.5°	1199.5	1166.9	1132.5	1111.5	1085.5	1062.8	1043.3	1037.1	1018.7	1011.8	1001.8
20°	1158.5	1128.5	1102.2	1074.6	1036.8	1015.7	1000.3	992.0	977.2	968.2	961.8
22.5°	1123.2	1092.6	1062.2	1030.0	998.9	975.2	963.9	951.0	942.9	930.3	923.4
25°	1072.7	1039.3	1002.8	968.2	945.8	927.9	910.0	898.4	886.9	881.1	868.3
27.5°	1014.0	979.2	945.0	918.8	891.2	873.5	857.3	847.0	833.2	823.5	816.4
30°	981.7	940.7	911.2	887.5	852.2	835.6	823.5	810.7	800.4	790.1	783.1
32.5°	944.3	906.9	878.9	849.5	822.6	804.3	788.6	777.3	768.6	758.8	751.8
35°	885.6	854.2	825.3	795.9	776.0	757.4	738.8	729.2	720.9	711.9	705.6
37.5°	832.5	803.2	775.8	747.8	723.2	708.1	693.1	685.7	674.5	668.5	661.9
40°	799.7	770.9	741.4	714.5	688.8	677.4	663.9	653.0	642.7	638.2	631.2
42.5°	763.9	735.0	710.1	681.2	660.1	644.5	632.1	620.2	612.5	605.9	601.9
45°	710.6	685.0	660.6	631.9	612.0	598.5	584.4	573.5	566.5	562.0	554.9
47.5°	659.0	633.4	608.6	583.5	564.3	548.9	534.8	527.3	517.9	512.4	507.6
50°	621.6	598.5	572.3	549.2	529.9	514.5	503.0	493.4	485.1	478.0	474.8
52.5°	587.3	562.6	540.0	518.4	498.1	480.7	470.2	460.1	453.8	445.7	442.1
55°	530.6	506.9	487.6	466.5	446.6	431.9	419.1	410.1	403.7	394.8	389.6
57.5°	477.4	456.2	433.2	414.8	394.4	381.9	371.3	359.1	351.3	344.2	339.2
60°	441.5	417.2	397.3	380.0	362.1	346.0	336.4	326.8	318.5	311.4	307.0
62.5°	404.1	382.8	363.9	345.1	328.7	314.8	303.6	295.5	288.2	283.7	279.2
65°	346.7	330.0	310.8	295.4	280.1	269.8	260.8	253.7	248.7	245.4	241.6
67.5°	293.8	277.7	260.9	245.8	235.5	227.7	221.8	215.8	213.3	209.1	206.6
70°	259.5	242.9	228.1	216.6	206.4	200.6	196.7	192.2	189.6	184.6	182.0
72.5°	222.1	210.0	199.4	190.0	181.7	176.5	171.6	166.1	162.0	156.4	153.8
75°	175.0	164.0	155.7	149.3	144.1	137.1	130.1	124.3	122.4	120.5	119.8
77.5°	129.6	122.6	116.6	111.2	104.8	99.7	98.2	96.9	96.5	95.5	95.5
80°	101.9	95.5	91.0	84.5	80.7	80.7	80.7	79.5	80.1	80.1	80.1
82.5°	75.7	69.9	67.4	65.1	64.3	64.8	64.8	65.1	64.7	65.7	65.2
85°	39.1	39.7	41.0	40.4	41.0	41.0	42.3	41.7	42.3	41.0	42.3
87.5°	16.5	18.3	19.4	20.5	21.6	21.7	22.0	22.2	22.8	23.1	23.4
90°	10.4	12.3	15.2	18.0	20.9	23.6	22.7	23.6	24.6	25.6	27.5
92.5°	40.8	54.8	79.6	120.3	160.3	145.7	109.9	79.7	63.3	55.8	51.0
95°	86.2	123.1	203.7	344.8	500.2	561.7	455.6	341.0	231.1	180.9	146.8
97.5°	102.3	142.3	219.2	378.3	637.3	870.5	931.3	850.0	680.9	558.7	445.4
100°	113.7	150.6	217.0	357.1	606.3	897.1	1083.7	1116.8	1040.1	929.3	794.8
102.5°	126.5	160.5	220.0	338.9	560.8	847.8	1091.2	1205.5	1203.0	1138.4	1053.1
105°	147.7	177.2	228.3	325.9	504.9	761.6	1033.5	1231.4	1326.2	1344.2	1319.6
107.5°	171.6	198.9	243.9	324.9	469.3	685.4	932.3	1156.7	1310.6	1393.6	1427.3
110°	187.5	214.1	256.7	328.7	455.6	642.2	868.6	1085.6	1259.9	1379.2	1445.5



TEST NUMBER: P332386-930

CATALOG NUMBER: S123RDIP-S1165D1195U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	204.2	230.0	269.6	336.3	448.1	613.4	813.3	1015.0	1193.2	1326.9	1412.2
115°	229.3	254.8	290.8	348.6	445.2	582.5	746.4	921.7	1086.5	1225.7	1329.0
117.5°	254.0	277.8	313.3	364.8	446.9	564.4	706.0	854.0	996.3	1121.4	1226.1
120°	269.9	293.7	327.8	377.0	450.0	556.0	684.9	818.4	946.3	1060.0	1155.7
122.5°	284.4	309.6	342.9	388.4	455.3	550.7	667.4	790.4	906.1	1011.5	1100.3
125°	306.0	331.5	364.7	406.3	463.2	543.7	645.1	753.1	856.3	947.2	1023.0
127.5°	326.0	351.6	383.6	421.2	472.3	540.3	625.4	720.5	812.5	894.5	963.5
130°	338.2	363.7	395.0	431.0	478.3	538.0	614.7	700.0	785.3	862.0	926.4
132.5°	349.5	374.4	404.9	440.1	482.9	537.3	605.0	681.1	759.5	831.0	892.3
135°	364.7	390.3	419.6	451.8	489.8	536.1	592.1	655.5	722.8	784.3	838.3
137.5°	378.0	401.6	429.8	460.6	494.3	534.0	580.8	632.2	687.3	740.4	787.2
140°	385.6	409.2	436.7	465.1	497.3	533.3	574.1	618.6	666.8	712.3	753.1
142.5°	393.1	415.3	442.0	469.6	499.6	531.8	567.9	605.7	647.2	686.6	722.0
145°	402.6	424.4	449.0	474.6	501.1	529.5	559.9	590.1	621.4	651.8	679.1
147.5°	413.6	432.1	454.7	477.6	501.1	525.9	551.9	577.5	602.3	626.7	646.2
150°	419.6	436.7	458.4	478.3	501.1	522.9	546.6	568.3	590.1	610.0	628.0
152.5°	425.7	442.0	460.7	479.9	498.8	519.1	540.5	560.0	578.8	596.4	611.4
155°	435.7	449.0	465.1	480.3	496.4	512.5	531.4	547.5	562.6	576.9	588.2
157.5°	444.4	454.7	467.6	481.2	493.2	506.6	521.1	534.3	547.0	557.9	566.8
160°	449.0	458.4	469.9	481.2	491.6	502.1	514.4	526.7	537.1	546.6	553.2
162.5°	452.8	460.7	470.6	480.5	488.6	497.5	507.5	517.6	526.5	535.2	541.0
165°	457.5	464.1	471.7	478.3	484.0	490.6	498.2	505.8	511.5	518.1	522.9
167.5°	461.9	466.0	471.6	476.9	479.5	483.9	489.3	495.6	499.9	503.8	507.2
170°	464.1	466.0	470.8	474.6	476.5	479.3	484.0	488.8	491.6	495.4	497.3
172.5°	465.7	466.8	470.8	473.9	474.2	475.5	478.7	482.7	484.8	487.9	488.9
175°	467.0	468.0	469.9	471.7	470.8	470.8	472.7	474.6	475.5	477.4	477.4
177.5°	468.0	468.0	468.7	470.2	468.7	468.0	468.7	469.4	470.2	471.0	471.0
180°	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0



TEST NUMBER: P332386-930

CATALOG NUMBER: S123RDIP-S1165D1195U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1426.2	1425.6	1426.2	1424.1	1426.2	1425.6	1426.2	1432.3	1432.3	1432.8	1433.4
5°	1327.1	1326.5	1324.5	1318.7	1324.5	1326.5	1327.1	1329.0	1334.2	1343.1	1340.5
7.5°	1240.6	1239.7	1234.0	1234.2	1234.0	1239.7	1240.6	1245.6	1251.3	1256.9	1263.4
10°	1189.4	1189.9	1182.3	1177.8	1182.3	1189.9	1189.4	1193.8	1202.2	1206.6	1211.1
12.5°	1139.6	1136.7	1130.5	1125.5	1130.5	1136.7	1139.6	1143.0	1154.5	1159.4	1168.1
15°	1074.0	1067.6	1052.2	1053.4	1052.2	1067.6	1074.0	1071.4	1083.0	1089.3	1091.9
17.5°	996.7	992.0	991.7	982.8	991.7	992.0	996.7	1001.8	1011.8	1018.7	1037.1
20°	951.6	948.4	949.7	940.7	949.7	948.4	951.6	961.8	968.2	977.2	992.0
22.5°	916.2	913.0	907.6	904.8	907.6	913.0	916.2	923.4	930.3	942.9	951.0
25°	864.5	859.3	854.2	857.4	854.2	859.3	864.5	868.3	881.1	886.9	898.4
27.5°	812.7	808.9	803.7	803.1	803.7	808.9	812.7	816.4	823.5	833.2	847.0
30°	779.8	776.0	773.5	770.2	773.5	776.0	779.8	783.1	790.1	800.4	810.7
32.5°	746.6	745.8	741.2	740.5	741.2	745.8	746.6	751.8	758.8	768.6	777.3
35°	703.0	699.1	697.8	698.5	697.8	699.1	703.0	705.6	711.9	720.9	729.2
37.5°	661.5	656.4	654.1	651.8	654.1	656.4	661.5	661.9	668.5	674.5	685.7
40°	631.9	626.7	625.4	624.1	625.4	626.7	631.9	631.2	638.2	642.7	653.0
42.5°	598.5	596.5	595.7	593.4	595.7	596.5	598.5	601.9	605.9	612.5	620.2
45°	553.0	552.4	548.5	549.8	548.5	552.4	553.0	554.9	562.0	566.5	573.5
47.5°	505.1	502.2	499.5	501.3	499.5	502.2	505.1	507.6	512.4	517.9	527.3
50°	472.3	471.0	465.2	466.5	465.2	471.0	472.3	474.8	478.0	485.1	493.4
52.5°	439.4	434.6	432.4	431.6	432.4	434.6	439.4	442.1	445.7	453.8	460.1
55°	385.1	379.4	376.7	375.5	376.7	379.4	385.1	389.6	394.8	403.7	410.1
57.5°	331.8	330.3	328.2	329.6	328.2	330.3	331.8	339.2	344.2	351.3	359.1
60°	300.5	300.5	300.5	299.9	300.5	300.5	300.5	307.0	311.4	318.5	326.8
62.5°	276.5	274.9	274.4	275.3	274.4	274.9	276.5	279.2	283.7	288.2	295.5
65°	239.7	239.0	236.4	235.8	236.4	239.0	239.7	241.6	245.4	248.7	253.7
67.5°	205.0	202.6	201.9	201.0	201.9	202.6	205.0	206.6	209.1	213.3	215.8
70°	178.8	177.5	173.7	174.3	173.7	177.5	178.8	182.0	184.6	189.6	192.2
72.5°	150.6	149.3	148.5	147.7	148.5	149.3	150.6	153.8	156.4	162.0	166.1
75°	119.2	118.5	117.9	120.5	117.9	118.5	119.2	119.8	120.5	122.4	124.3
77.5°	95.5	95.5	95.9	94.8	95.9	95.5	95.5	95.5	95.5	96.5	96.9
80°	80.1	80.1	79.5	79.5	79.5	80.1	80.1	80.1	80.1	80.1	79.5
82.5°	64.2	64.7	65.1	64.1	65.1	64.7	64.2	65.2	65.7	64.7	65.1
85°	42.3	41.7	43.0	42.3	43.0	41.7	42.3	42.3	41.0	42.3	41.7
87.5°	24.3	23.4	23.6	24.0	23.6	23.4	24.3	23.4	23.1	22.8	22.2
90°	26.5	27.5	28.5	27.5	28.5	27.5	26.5	27.5	25.6	24.6	23.6
92.5°	49.2	46.4	47.4	45.7	47.4	46.4	49.2	51.0	55.8	63.3	79.7
95°	128.8	120.3	113.7	109.9	113.7	120.3	128.8	146.8	180.9	231.1	341.0
97.5°	375.5	332.9	307.3	299.1	307.3	332.9	375.5	445.4	558.7	680.9	850.0
100°	699.0	629.9	593.0	593.9	593.0	629.9	699.0	794.8	929.3	1040.1	1116.8
102.5°	978.7	924.0	893.1	871.3	893.1	924.0	978.7	1053.1	1138.4	1203.0	1205.5
105°	1275.9	1240.0	1209.7	1204.9	1209.7	1240.0	1275.9	1319.6	1344.2	1326.2	1231.4
107.5°	1428.1	1415.9	1405.7	1397.0	1405.7	1415.9	1428.1	1427.3	1393.6	1310.6	1156.7
110°	1472.0	1479.6	1477.7	1475.9	1477.7	1479.6	1472.0	1445.5	1379.2	1259.9	1085.6



TEST NUMBER: P332386-930

CATALOG NUMBER: S123RDIP-S1165D1195U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1460.7	1484.2	1491.3	1491.8	1491.3	1484.2	1460.7	1412.2	1326.9	1193.2	1015.0
115°	1400.0	1441.7	1460.7	1465.4	1460.7	1441.7	1400.0	1329.0	1225.7	1086.5	921.7
117.5°	1300.2	1347.9	1375.2	1381.7	1375.2	1347.9	1300.2	1226.1	1121.4	996.3	854.0
120°	1230.4	1283.5	1306.3	1312.0	1306.3	1283.5	1230.4	1155.7	1060.0	946.3	818.4
122.5°	1166.9	1214.6	1239.6	1246.8	1239.6	1214.6	1166.9	1100.3	1011.5	906.1	790.4
125°	1083.7	1125.4	1149.0	1155.7	1149.0	1125.4	1083.7	1023.0	947.2	856.3	753.1
127.5°	1017.6	1053.1	1074.6	1080.6	1074.6	1053.1	1017.6	963.5	894.5	812.5	720.5
130°	976.6	1010.7	1030.6	1038.2	1030.6	1010.7	976.6	926.4	862.0	785.3	700.0
132.5°	939.5	973.5	991.2	996.5	991.2	973.5	939.5	892.3	831.0	759.5	681.1
135°	884.8	913.1	930.2	936.9	930.2	913.1	884.8	838.3	784.3	722.8	655.5
137.5°	826.2	855.0	869.4	873.8	869.4	855.0	826.2	787.2	740.4	687.3	632.2
140°	789.0	815.6	830.7	829.8	830.7	815.6	789.0	753.1	712.3	666.8	618.6
142.5°	752.7	776.2	789.8	788.9	789.8	776.2	752.7	722.0	686.6	647.2	605.7
145°	702.9	722.8	730.3	732.2	730.3	722.8	702.9	679.1	651.8	621.4	590.1
147.5°	664.2	677.7	684.9	685.6	684.9	677.7	664.2	646.2	626.7	602.3	577.5
150°	642.2	652.6	658.4	658.4	658.4	652.6	642.2	628.0	610.0	590.1	568.3
152.5°	622.6	632.2	635.6	635.6	635.6	632.2	622.6	611.4	596.4	578.8	560.0
155°	596.8	604.4	606.3	607.2	606.3	604.4	596.8	588.2	576.9	562.6	547.5
157.5°	574.2	579.9	581.4	581.2	581.4	579.9	574.2	566.8	557.9	547.0	534.3
160°	559.9	565.5	565.5	564.6	565.5	565.5	559.9	553.2	546.6	537.1	526.7
162.5°	545.4	550.3	550.3	549.4	550.3	550.3	545.4	541.0	535.2	526.5	517.6
165°	526.7	530.4	529.5	529.5	529.5	530.4	526.7	522.9	518.1	511.5	505.8
167.5°	508.8	511.5	510.5	510.5	510.5	511.5	508.8	507.2	503.8	499.9	495.6
170°	498.2	500.2	499.2	499.2	499.2	500.2	498.2	497.3	495.4	491.6	488.8
172.5°	489.2	491.1	489.3	488.6	489.3	491.1	489.2	488.9	487.9	484.8	482.7
175°	477.4	478.3	477.4	476.5	477.4	478.3	477.4	477.4	477.4	475.5	474.6
177.5°	470.2	471.0	469.4	469.4	469.4	471.0	470.2	471.0	471.0	470.2	469.4
180°	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0



TEST NUMBER: P332386-930

CATALOG NUMBER: S123RDIP-S1165D1195U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1428.7	1435.9	1443.1	1449.8	1460.0	1464.6	1471.3	1473.8	1481.6	1492.8	1502.0
5°	1341.8	1352.1	1365.5	1376.5	1393.8	1407.2	1422.0	1436.1	1452.7	1476.4	1497.5
7.5°	1268.1	1278.3	1294.5	1314.7	1333.7	1352.8	1373.0	1392.2	1416.0	1450.0	1483.7
10°	1219.4	1231.6	1250.8	1272.6	1296.3	1314.9	1338.6	1363.0	1392.4	1431.6	1471.9
12.5°	1177.4	1186.5	1208.8	1229.6	1256.4	1280.1	1303.3	1331.7	1365.3	1407.0	1455.5
15°	1110.5	1123.3	1145.1	1168.2	1196.4	1221.4	1251.5	1286.1	1318.7	1370.0	1429.0
17.5°	1043.3	1062.8	1085.5	1111.5	1132.5	1166.9	1199.5	1235.1	1275.3	1329.7	1394.4
20°	1000.3	1015.7	1036.8	1074.6	1102.2	1128.5	1158.5	1202.8	1239.9	1301.5	1368.7
22.5°	963.9	975.2	998.9	1030.0	1062.2	1092.6	1123.2	1165.4	1211.2	1269.7	1342.6
25°	910.0	927.9	945.8	968.2	1002.8	1039.3	1072.7	1108.6	1157.3	1219.4	1298.3
27.5°	857.3	873.5	891.2	918.8	945.0	979.2	1014.0	1055.2	1107.4	1173.2	1253.1
30°	823.5	835.6	852.2	887.5	911.2	940.7	981.7	1018.2	1066.9	1136.8	1221.4
32.5°	788.6	804.3	822.6	849.5	878.9	906.9	944.3	983.9	1033.6	1102.4	1189.0
35°	738.8	757.4	776.0	795.9	825.3	854.2	885.6	929.2	979.7	1046.4	1131.6
37.5°	693.1	708.1	723.2	747.8	775.8	803.2	832.5	875.5	923.2	995.1	1073.2
40°	663.9	677.4	688.8	714.5	741.4	770.9	799.7	837.6	888.8	956.1	1031.7
42.5°	632.1	644.5	660.1	681.2	710.1	735.0	763.9	799.6	847.7	916.1	982.4
45°	584.4	598.5	612.0	631.9	660.6	685.0	710.6	744.6	793.9	850.4	909.3
47.5°	534.8	548.9	564.3	583.5	608.6	633.4	659.0	689.1	734.1	789.5	829.2
50°	503.0	514.5	529.9	549.2	572.3	598.5	621.6	654.3	697.2	740.8	775.3
52.5°	470.2	480.7	498.1	518.4	540.0	562.6	587.3	615.3	654.1	695.1	722.6
55°	419.1	431.9	446.6	466.5	487.6	506.9	530.6	559.5	590.2	620.9	639.5
57.5°	371.3	381.9	394.4	414.8	433.2	456.2	477.4	499.9	528.3	551.5	563.6
60°	336.4	346.0	362.1	380.0	397.3	417.2	441.5	463.9	485.8	504.3	513.9
62.5°	303.6	314.8	328.7	345.1	363.9	382.8	404.1	422.9	442.1	458.2	464.7
65°	260.8	269.8	280.1	295.4	310.8	330.0	346.7	365.9	380.0	389.0	394.8
67.5°	221.8	227.7	235.5	245.8	260.9	277.7	293.8	308.8	320.7	326.8	331.9
70°	196.7	200.6	206.4	216.6	228.1	242.9	259.5	270.4	280.7	285.8	290.9
72.5°	171.6	176.5	181.7	190.0	199.4	210.0	222.1	235.5	241.2	247.4	250.5
75°	130.1	137.1	144.1	149.3	155.7	164.0	175.0	183.3	186.5	191.6	192.2
77.5°	98.2	99.7	104.8	111.2	116.6	122.6	129.6	137.0	138.5	141.2	142.9
80°	80.7	80.7	80.7	84.5	91.0	95.5	101.9	105.7	108.3	108.9	109.6
82.5°	64.8	64.8	64.3	65.1	67.4	69.9	75.7	80.1	82.2	81.8	80.4
85°	42.3	41.0	41.0	40.4	41.0	39.7	39.1	41.7	45.5	45.5	44.2
87.5°	22.0	21.7	21.6	20.5	19.4	18.3	16.5	16.6	16.0	17.7	16.8
90°	22.7	23.6	20.9	18.0	15.2	12.3	10.4	8.6	5.7	3.8	1.9
92.5°	109.9	145.7	160.3	120.3	79.6	54.8	40.8	32.8	25.4	17.4	11.7
95°	455.6	561.7	500.2	344.8	203.7	123.1	86.2	61.6	45.5	35.1	32.2
97.5°	931.3	870.5	637.3	378.3	219.2	142.3	102.3	78.0	64.0	55.8	55.0
100°	1083.7	897.1	606.3	357.1	217.0	150.6	113.7	90.9	77.7	71.0	70.1
102.5°	1091.2	847.8	560.8	338.9	220.0	160.5	126.5	106.1	93.6	87.7	86.0
105°	1033.5	761.6	504.9	325.9	228.3	177.2	147.7	129.8	118.4	112.8	109.9
107.5°	932.3	685.4	469.3	324.9	243.9	198.9	171.6	154.7	143.6	138.1	135.3
110°	868.6	642.2	455.6	328.7	256.7	214.1	187.5	171.5	161.0	156.3	153.4



TEST NUMBER: P332386-930

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	813.3	613.4	448.1	336.3	269.6	230.0	204.2	188.1	177.7	173.0	170.2
115°	746.4	582.5	445.2	348.6	290.8	254.8	229.3	213.1	203.7	198.0	194.2
117.5°	706.0	564.4	446.9	364.8	313.3	277.8	254.0	236.0	227.3	222.6	218.3
120°	684.9	556.0	450.0	377.0	327.8	293.7	269.9	252.0	242.5	237.7	234.9
122.5°	667.4	550.7	455.3	388.4	342.9	309.6	284.4	267.1	256.9	252.2	249.3
125°	645.1	543.7	463.2	406.3	364.7	331.5	306.0	288.0	277.5	271.9	269.9
127.5°	625.4	540.3	472.3	421.2	383.6	351.6	326.0	306.1	295.5	288.5	285.7
130°	614.7	538.0	478.3	431.0	395.0	363.7	338.2	318.3	306.9	298.4	295.5
132.5°	605.0	537.3	482.9	440.1	404.9	374.4	349.5	329.6	316.0	306.7	303.1
135°	592.1	536.1	489.8	451.8	419.6	390.3	364.7	344.8	330.6	320.2	316.4
137.5°	580.8	534.0	494.3	460.6	429.8	401.6	378.0	358.2	343.1	332.9	328.9
140°	574.1	533.3	497.3	465.1	436.7	409.2	385.6	366.6	351.4	341.9	337.2
142.5°	567.9	531.8	499.6	469.6	442.0	415.3	393.1	374.1	360.5	350.3	346.3
145°	559.9	529.5	501.1	474.6	449.0	424.4	402.6	386.5	372.3	363.7	360.9
147.5°	551.9	525.9	501.1	477.6	454.7	432.1	413.6	398.0	385.7	377.4	375.7
150°	546.6	522.9	501.1	478.3	458.4	436.7	419.6	406.3	394.0	386.5	385.6
152.5°	540.5	519.1	498.8	479.9	460.7	442.0	425.7	413.9	403.2	395.6	395.4
155°	531.4	512.5	496.4	480.3	465.1	449.0	435.7	425.3	415.9	410.2	410.2
157.5°	521.1	506.6	493.2	481.2	467.6	454.7	444.4	435.5	427.2	422.7	421.9
160°	514.4	502.1	491.6	481.2	469.9	458.4	449.0	442.4	434.8	431.0	431.0
162.5°	507.5	497.5	488.6	480.5	470.6	460.7	452.8	446.9	440.8	437.8	437.8
165°	498.2	490.6	484.0	478.3	471.7	464.1	457.5	453.7	449.0	447.1	448.1
167.5°	489.3	483.9	479.5	476.9	471.6	466.0	461.9	459.3	455.6	454.7	455.8
170°	484.0	479.3	476.5	474.6	470.8	466.0	464.1	462.3	459.4	458.4	460.4
172.5°	478.7	475.5	474.2	473.9	470.8	466.8	465.7	464.6	462.4	462.3	463.4
175°	472.7	470.8	470.8	471.7	469.9	468.0	467.0	467.0	465.1	466.0	467.0
177.5°	468.7	468.0	468.7	470.2	468.7	468.0	468.0	468.0	467.2	468.0	468.7
180°	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0



TEST NUMBER: P332386-930

CATALOG NUMBER: S123RDIP-S1165D1195U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1505.1	1510.7	1517.9	1528.7	1536.9	1544.1	1545.6	1547.7	1552.8	1561.5	1568.1
5°	1514.8	1529.6	1553.3	1576.4	1601.3	1621.9	1641.1	1654.6	1667.4	1694.3	1716.0
7.5°	1511.8	1544.6	1581.8	1623.2	1665.1	1705.7	1743.4	1777.0	1810.6	1849.8	1894.6
10°	1509.7	1548.2	1598.1	1651.3	1709.7	1766.7	1821.8	1864.8	1914.7	1959.6	2016.6
12.5°	1500.0	1555.3	1615.1	1683.1	1754.8	1820.5	1893.0	1952.4	2009.5	2074.4	2140.6
15°	1487.3	1554.6	1630.2	1720.5	1829.5	1908.9	1983.3	2086.4	2157.0	2227.4	2322.3
17.5°	1464.1	1546.2	1640.7	1758.1	1848.9	1955.7	2067.6	2149.1	2244.1	2343.4	2429.3
20°	1445.6	1541.2	1646.8	1762.2	1878.2	1994.1	2102.5	2199.8	2297.9	2412.6	2483.1
22.5°	1427.2	1521.7	1631.5	1754.0	1878.7	2000.8	2123.4	2237.8	2348.1	2463.9	2553.8
25°	1388.0	1500.2	1619.3	1744.3	1867.3	2001.9	2148.0	2275.5	2412.0	2531.2	2616.4
27.5°	1348.3	1451.0	1569.7	1696.5	1833.2	1992.3	2164.1	2309.1	2445.8	2531.2	2557.9
30°	1312.4	1421.3	1530.2	1659.1	1807.0	1984.5	2167.1	2333.1	2445.3	2482.4	2454.9
32.5°	1275.9	1374.7	1482.5	1614.5	1771.6	1965.6	2171.3	2318.8	2386.3	2357.9	2245.7
35°	1211.8	1300.8	1405.2	1537.2	1718.0	1955.1	2154.3	2254.3	2237.7	2077.5	1866.0
37.5°	1143.0	1215.6	1312.4	1450.4	1662.4	1913.4	2081.5	2096.3	1952.2	1706.2	1461.9
40°	1088.8	1154.1	1253.4	1397.6	1619.3	1872.4	2008.2	1948.6	1725.0	1451.4	1247.7
42.5°	1035.9	1091.0	1186.7	1342.2	1578.3	1816.6	1899.1	1769.3	1511.2	1252.5	1067.2
45°	946.5	998.3	1094.5	1254.0	1494.4	1709.7	1698.8	1473.2	1215.0	1006.7	852.9
47.5°	861.6	907.0	997.2	1160.1	1395.8	1549.5	1447.6	1207.5	988.5	821.4	711.7
50°	801.6	846.5	936.2	1097.1	1316.9	1429.0	1283.5	1052.2	851.7	713.2	626.1
52.5°	744.2	788.1	870.1	1026.8	1221.5	1288.5	1132.3	917.9	750.6	631.2	556.4
55°	663.9	697.2	770.9	920.8	1066.3	1081.7	923.4	744.0	606.2	522.9	471.7
57.5°	582.0	610.7	683.5	802.9	904.9	897.0	746.9	591.7	499.0	437.0	399.8
60°	528.6	556.8	620.9	723.5	800.4	773.5	635.7	510.7	431.3	385.8	356.3
62.5°	478.9	501.0	560.9	635.8	691.1	660.6	543.4	439.9	376.9	338.6	315.3
65°	406.9	424.9	472.9	512.0	542.7	513.3	415.9	344.1	298.6	271.7	255.7
67.5°	338.4	349.8	380.3	394.4	416.0	383.7	312.7	264.6	238.8	216.1	205.0
70°	295.4	303.7	319.8	331.3	337.0	303.7	251.2	216.0	194.1	178.1	171.1
72.5°	252.3	259.7	262.9	272.3	269.4	238.1	201.9	173.9	158.2	147.4	138.3
75°	192.9	196.1	192.9	189.1	180.7	158.9	134.0	119.8	108.3	103.1	100.0
77.5°	140.6	139.6	135.2	129.2	115.0	101.3	87.8	83.1	78.0	75.3	74.2
80°	108.3	105.7	101.9	92.3	80.1	70.5	67.3	64.1	62.1	58.9	58.3
82.5°	80.6	79.1	72.6	64.6	56.0	51.5	48.8	47.7	45.7	44.1	43.9
85°	43.0	41.0	34.0	29.5	28.2	26.9	26.3	26.3	23.7	23.1	23.1
87.5°	14.6	11.9	12.0	10.8	11.2	10.7	11.8	11.3	11.4	11.7	10.9
90°	3.8	5.7	8.6	10.4	12.3	15.2	18.0	20.9	23.6	22.7	23.6
92.5°	17.4	25.4	32.8	40.8	54.8	79.6	120.3	160.3	145.7	109.9	79.7
95°	35.1	45.5	61.6	86.2	123.1	203.7	344.8	500.2	561.7	455.6	341.0
97.5°	55.8	64.0	78.0	102.3	142.3	219.2	378.3	637.3	870.5	931.3	850.0
100°	71.0	77.7	90.9	113.7	150.6	217.0	357.1	606.3	897.1	1083.7	1116.8
102.5°	87.7	93.6	106.1	126.5	160.5	220.0	338.9	560.8	847.8	1091.2	1205.5
105°	112.8	118.4	129.8	147.7	177.2	228.3	325.9	504.9	761.6	1033.5	1231.4
107.5°	138.1	143.6	154.7	171.6	198.9	243.9	324.9	469.3	685.4	932.3	1156.7
110°	156.3	161.0	171.5	187.5	214.1	256.7	328.7	455.6	642.2	868.6	1085.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	173.0	177.7	188.1	204.2	230.0	269.6	336.3	448.1	613.4	813.3	1015.0
115°	198.0	203.7	213.1	229.3	254.8	290.8	348.6	445.2	582.5	746.4	921.7
117.5°	222.6	227.3	236.0	254.0	277.8	313.3	364.8	446.9	564.4	706.0	854.0
120°	237.7	242.5	252.0	269.9	293.7	327.8	377.0	450.0	556.0	684.9	818.4
122.5°	252.2	256.9	267.1	284.4	309.6	342.9	388.4	455.3	550.7	667.4	790.4
125°	271.9	277.5	288.0	306.0	331.5	364.7	406.3	463.2	543.7	645.1	753.1
127.5°	288.5	295.5	306.1	326.0	351.6	383.6	421.2	472.3	540.3	625.4	720.5
130°	298.4	306.9	318.3	338.2	363.7	395.0	431.0	478.3	538.0	614.7	700.0
132.5°	306.7	316.0	329.6	349.5	374.4	404.9	440.1	482.9	537.3	605.0	681.1
135°	320.2	330.6	344.8	364.7	390.3	419.6	451.8	489.8	536.1	592.1	655.5
137.5°	332.9	343.1	358.2	378.0	401.6	429.8	460.6	494.3	534.0	580.8	632.2
140°	341.9	351.4	366.6	385.6	409.2	436.7	465.1	497.3	533.3	574.1	618.6
142.5°	350.3	360.5	374.1	393.1	415.3	442.0	469.6	499.6	531.8	567.9	605.7
145°	363.7	372.3	386.5	402.6	424.4	449.0	474.6	501.1	529.5	559.9	590.1
147.5°	377.4	385.7	398.0	413.6	432.1	454.7	477.6	501.1	525.9	551.9	577.5
150°	386.5	394.0	406.3	419.6	436.7	458.4	478.3	501.1	522.9	546.6	568.3
152.5°	395.6	403.2	413.9	425.7	442.0	460.7	479.9	498.8	519.1	540.5	560.0
155°	410.2	415.9	425.3	435.7	449.0	465.1	480.3	496.4	512.5	531.4	547.5
157.5°	422.7	427.2	435.5	444.4	454.7	467.6	481.2	493.2	506.6	521.1	534.3
160°	431.0	434.8	442.4	449.0	458.4	469.9	481.2	491.6	502.1	514.4	526.7
162.5°	437.8	440.8	446.9	452.8	460.7	470.6	480.5	488.6	497.5	507.5	517.6
165°	447.1	449.0	453.7	457.5	464.1	471.7	478.3	484.0	490.6	498.2	505.8
167.5°	454.7	455.6	459.3	461.9	466.0	471.6	476.9	479.5	483.9	489.3	495.6
170°	458.4	459.4	462.3	464.1	466.0	470.8	474.6	476.5	479.3	484.0	488.8
172.5°	462.3	462.4	464.6	465.7	466.8	470.8	473.9	474.2	475.5	478.7	482.7
175°	466.0	465.1	467.0	467.0	468.0	469.9	471.7	470.8	470.8	472.7	474.6
177.5°	468.0	467.2	468.0	468.0	468.0	468.7	470.2	468.7	468.0	468.7	469.4
180°	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1578.9	1578.9	1580.9	1588.7	1589.7	1596.4	1594.3
5°	1735.3	1747.4	1751.9	1771.2	1782.7	1787.9	1777.6
7.5°	1926.5	1960.9	1977.1	1997.2	2015.1	2020.5	2006.5
10°	2066.0	2101.8	2131.9	2150.5	2167.8	2179.4	2194.1
12.5°	2200.7	2244.8	2273.5	2299.7	2317.5	2332.2	2334.5
15°	2347.2	2413.9	2464.5	2501.7	2520.3	2529.9	2526.0
17.5°	2495.0	2556.8	2592.8	2630.7	2656.5	2657.8	2658.5
20°	2578.5	2638.8	2680.5	2708.7	2737.5	2736.2	2742.6
22.5°	2634.5	2681.8	2713.8	2734.3	2744.1	2739.3	2740.5
25°	2660.6	2674.7	2669.0	2636.3	2628.0	2597.8	2602.9
27.5°	2525.8	2459.1	2390.2	2301.5	2231.6	2175.6	2178.5
30°	2342.8	2224.9	2090.3	1977.5	1876.2	1848.0	1787.9
32.5°	2086.9	1910.1	1752.5	1647.4	1560.5	1536.9	1484.3
35°	1653.3	1481.6	1319.4	1222.0	1183.6	1129.8	1129.1
37.5°	1285.1	1133.8	1048.1	975.0	936.7	904.2	901.0
40°	1081.0	963.1	898.4	845.9	808.0	783.7	778.0
42.5°	938.5	843.2	782.5	750.0	720.9	708.3	699.0
45°	766.4	702.3	660.0	630.6	617.1	607.5	602.3
47.5°	641.1	598.1	569.3	549.7	538.7	528.6	531.3
50°	572.9	537.6	516.5	497.9	489.6	482.5	483.1
52.5°	518.0	486.4	469.3	455.8	445.5	440.5	438.1
55°	439.6	419.7	402.4	392.8	387.0	380.0	378.1
57.5°	375.0	359.6	345.5	334.6	333.2	326.4	327.3
60°	331.9	319.1	307.6	301.8	297.3	291.6	293.5
62.5°	296.5	285.8	275.3	270.5	266.0	261.8	262.7
65°	242.9	232.6	226.2	223.6	221.7	219.8	217.8
67.5°	193.6	187.3	183.3	177.7	173.8	173.2	171.2
70°	162.7	154.4	147.4	140.3	138.4	137.8	138.4
72.5°	130.4	125.2	123.3	119.8	119.4	117.8	119.0
75°	98.1	96.1	94.8	92.3	92.3	92.3	92.3
77.5°	72.3	71.1	70.4	69.9	69.2	68.3	68.2
80°	56.4	55.8	54.5	54.5	53.8	54.5	53.8
82.5°	42.6	42.4	41.2	41.2	40.5	40.1	40.5
85°	21.8	21.1	22.4	21.1	21.8	20.5	21.8
87.5°	11.1	11.3	11.2	10.9	10.6	11.8	10.6
90°	24.6	25.6	27.5	26.5	27.5	28.5	27.5
92.5°	63.3	55.8	51.0	49.2	46.4	47.4	45.7
95°	231.1	180.9	146.8	128.8	120.3	113.7	109.9
97.5°	680.9	558.7	445.4	375.5	332.9	307.3	299.1
100°	1040.1	929.3	794.8	699.0	629.9	593.0	593.9
102.5°	1203.0	1138.4	1053.1	978.7	924.0	893.1	871.3
105°	1326.2	1344.2	1319.6	1275.9	1240.0	1209.7	1204.9
107.5°	1310.6	1393.6	1427.3	1428.1	1415.9	1405.7	1397.0
110°	1259.9	1379.2	1445.5	1472.0	1479.6	1477.7	1475.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1193.2	1326.9	1412.2	1460.7	1484.2	1491.3	1491.8
115°	1086.5	1225.7	1329.0	1400.0	1441.7	1460.7	1465.4
117.5°	996.3	1121.4	1226.1	1300.2	1347.9	1375.2	1381.7
120°	946.3	1060.0	1155.7	1230.4	1283.5	1306.3	1312.0
122.5°	906.1	1011.5	1100.3	1166.9	1214.6	1239.6	1246.8
125°	856.3	947.2	1023.0	1083.7	1125.4	1149.0	1155.7
127.5°	812.5	894.5	963.5	1017.6	1053.1	1074.6	1080.6
130°	785.3	862.0	926.4	976.6	1010.7	1030.6	1038.2
132.5°	759.5	831.0	892.3	939.5	973.5	991.2	996.5
135°	722.8	784.3	838.3	884.8	913.1	930.2	936.9
137.5°	687.3	740.4	787.2	826.2	855.0	869.4	873.8
140°	666.8	712.3	753.1	789.0	815.6	830.7	829.8
142.5°	647.2	686.6	722.0	752.7	776.2	789.8	788.9
145°	621.4	651.8	679.1	702.9	722.8	730.3	732.2
147.5°	602.3	626.7	646.2	664.2	677.7	684.9	685.6
150°	590.1	610.0	628.0	642.2	652.6	658.4	658.4
152.5°	578.8	596.4	611.4	622.6	632.2	635.6	635.6
155°	562.6	576.9	588.2	596.8	604.4	606.3	607.2
157.5°	547.0	557.9	566.8	574.2	579.9	581.4	581.2
160°	537.1	546.6	553.2	559.9	565.5	565.5	564.6
162.5°	526.5	535.2	541.0	545.4	550.3	550.3	549.4
165°	511.5	518.1	522.9	526.7	530.4	529.5	529.5
167.5°	499.9	503.8	507.2	508.8	511.5	510.5	510.5
170°	491.6	495.4	497.3	498.2	500.2	499.2	499.2
172.5°	484.8	487.9	488.9	489.2	491.1	489.3	488.6
175°	475.5	477.4	477.4	477.4	478.3	477.4	476.5
177.5°	470.2	471.0	471.0	470.2	471.0	469.4	469.4
180°	468.0	468.0	468.0	468.0	468.0	468.0	468.0

(END OF REPORT)