

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: P332969-927

Luminaire Tested: **S124RDIP-S1020D810U927-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332969-927  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124RDIP-S1020D810U927-4F0-1E-UDD-A4  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 810 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5730.6 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: General Diffuse

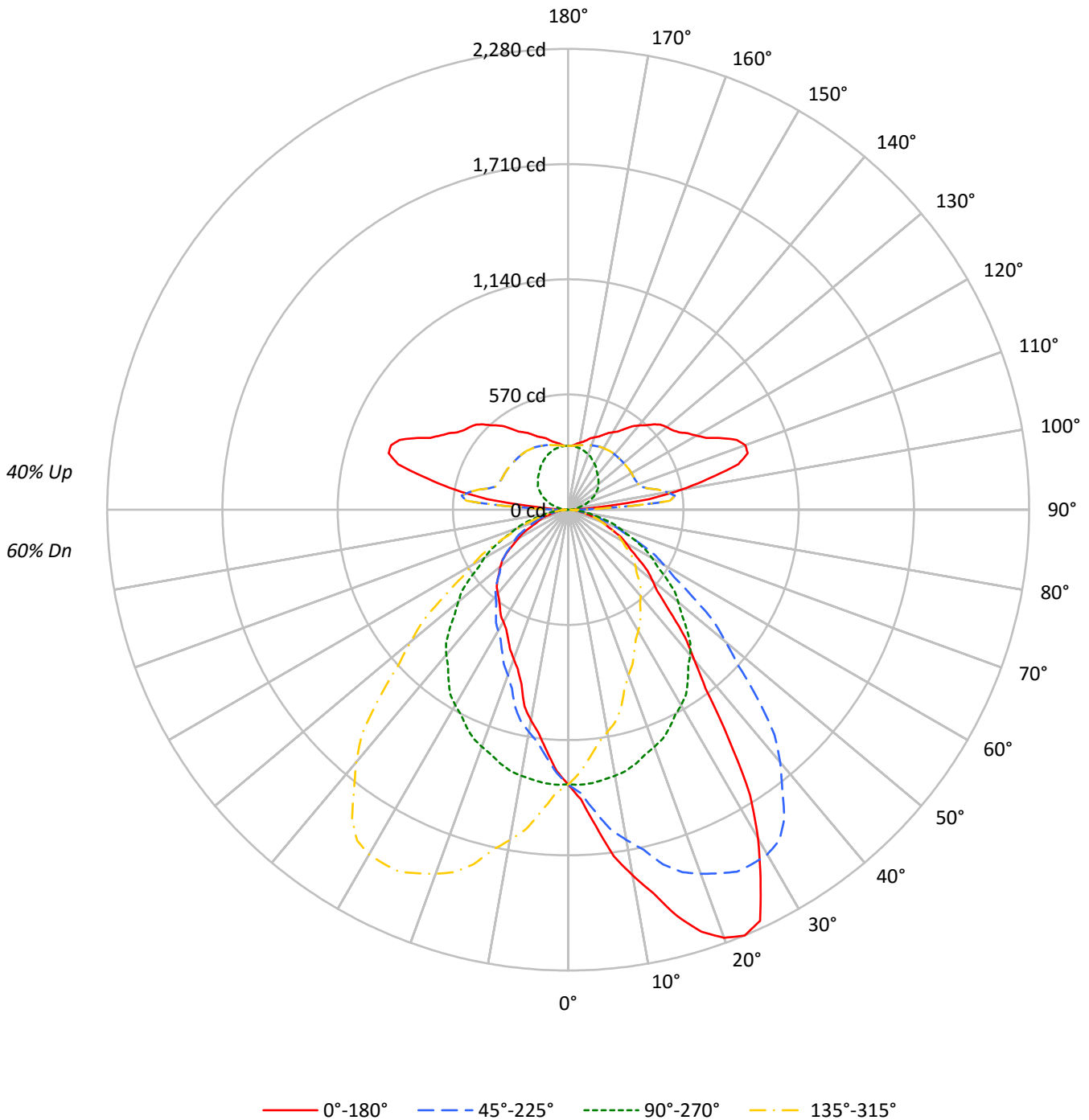
Input Watts (W): 54.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	110	110	110	102	102	102	102	89	89	89	77	77	77	65	65	65	60
1	101	96	93	89	94	90	87	84	79	76	74	68	67	65	59	57	56	52
2	92	85	79	74	86	80	74	70	70	66	62	61	58	55	52	50	48	44
3	84	75	68	62	79	71	64	59	62	57	53	54	50	47	47	44	42	38
4	77	67	59	53	72	63	56	51	55	50	46	49	44	41	42	39	36	33
5	71	60	52	46	66	56	49	44	50	44	40	44	39	36	38	35	32	29
6	66	54	46	40	61	51	44	38	45	39	35	40	35	32	35	31	28	26
7	61	49	41	35	57	46	39	34	41	35	31	36	32	28	32	28	25	23
8	57	44	37	31	53	42	35	30	38	32	28	33	29	25	29	26	23	21
9	53	41	33	28	49	39	32	27	35	29	25	31	26	23	27	23	21	19
10	49	37	30	25	46	36	29	24	32	26	23	28	24	21	25	22	19	17

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

	0°	90°	180°	270°
0°	10973	10973	10973	10973
5°	12729	11006	9728	11006
10°	15057	10958	8682	10958
15°	17393	10857	7460	10857
20°	19365	10717	6747	10717
25°	19991	10580	6263	10580
30°	17500	10414	5972	10414
35°	13623	10168	5797	10168
40°	10215	9886	5702	9886
45°	8066	9435	5651	9435
50°	6810	8913	5488	8913
55°	5935	8341	5195	8341
60°	5339	7745	4598	7745
65°	4707	7104	3954	7104
70°	4239	6437	3567	6437
75°	3553	5705	3041	5705
80°	3003	4863	2850	4863
85°	2538	3798	2538	3798



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.7	2.3
10°-20°	397.3	6.9
20°-30°	621.4	10.8
30°-40°	690.7	12.1
40°-50°	612.9	10.7
50°-60°	477.6	8.3
60°-70°	312.7	5.5
70°-80°	153.8	2.7
80°-90°	39.7	0.7
90°-100°	227.7	4.0
100°-110°	474.0	8.3
110°-120°	424.5	7.4
120°-130°	357.1	6.2
130°-140°	297.7	5.2
140°-150°	227.5	4.0
150°-160°	159.9	2.8
160°-170°	94.0	1.6
170°-180°	30.6	0.5
0°-30°	1150.3	20.1
0°-40°	1841.1	32.1
0°-60°	2931.5	51.2
0°-90°	3437.6	60.0
90°-120°	1126.2	19.7
90°-150°	2008.5	35.0
90°-180°	2293.0	40.0
0°-180°	5730.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1359	1359	1359	1359	1359	
5°	1571	1358	1200	1358	1571	159
15°	2081	1299	893	1299	2081	592
25°	2244	1188	703	1188	2244	996
35°	1382	1032	588	1032	1382	866
45°	706	826	495	826	706	560
55°	422	593	369	593	422	384
65°	246	372	207	372	246	248
75°	114	183	98	183	114	125
85°	27	41	27	41	27	31
90°	13	1	13	1	13	12
95°	151	20	151	20	151	235
105°	872	72	872	72	872	862
115°	837	128	837	128	837	831
125°	668	178	668	178	668	607
135°	597	211	597	211	597	461
145°	488	243	488	243	488	309
155°	408	277	408	277	408	190
165°	356	302	356	302	356	102
175°	321	315	321	315	321	31
180°	315	315	315	315	315	



TEST NUMBER: P332969-927

CATALOG NUMBER: S124RDIP-S1020D810U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1433.7	1437.7	1433.7	1433.3	1428.9	1427.6	1425.8	1420.1	1409.6	1403.5	1404.8
5°	1570.7	1584.3	1576.7	1575.6	1563.5	1551.5	1543.8	1526.3	1507.7	1495.1	1484.6
7.5°	1729.0	1736.9	1732.1	1724.4	1704.9	1693.8	1676.1	1653.0	1619.6	1594.0	1570.7
10°	1836.8	1843.3	1841.2	1826.9	1812.7	1783.7	1767.2	1735.0	1692.7	1659.4	1628.1
12.5°	1942.8	1949.8	1930.5	1931.2	1904.2	1881.4	1855.3	1814.7	1765.9	1722.8	1683.8
15°	2081.1	2072.3	2072.3	2061.3	2031.2	1999.5	1972.6	1929.9	1868.5	1817.0	1762.8
17.5°	2189.3	2192.3	2187.8	2161.9	2138.3	2105.5	2056.3	2006.4	1949.5	1880.4	1825.0
20°	2254.1	2254.1	2249.2	2231.7	2201.0	2165.9	2112.8	2058.6	1986.3	1916.8	1854.3
22.5°	2280.4	2282.1	2276.3	2261.8	2234.3	2200.0	2154.8	2099.8	2025.3	1946.9	1869.6
25°	2244.3	2254.6	2255.7	2251.9	2243.7	2222.9	2184.0	2127.6	2060.8	1975.9	1892.6
27.5°	2060.5	2073.6	2085.1	2104.0	2129.2	2142.4	2144.1	2115.4	2057.1	1975.5	1891.7
30°	1877.3	1888.2	1923.9	1970.4	2006.5	2039.4	2067.9	2075.5	2042.7	1969.3	1881.1
32.5°	1674.0	1688.9	1724.5	1774.6	1834.8	1890.5	1954.4	1987.0	1986.2	1942.1	1860.5
35°	1382.3	1393.2	1426.1	1478.6	1550.9	1633.6	1735.0	1813.8	1867.4	1863.6	1813.8
37.5°	1114.8	1127.1	1160.3	1204.0	1274.1	1376.4	1474.5	1583.1	1682.4	1738.1	1721.4
40°	969.3	969.9	1002.2	1047.1	1112.8	1202.1	1308.8	1429.3	1539.9	1630.3	1647.8
42.5°	854.5	854.6	876.0	924.4	971.8	1055.7	1157.7	1277.3	1406.8	1511.2	1557.6
45°	706.5	711.4	728.9	758.0	795.2	866.3	947.9	1059.1	1204.3	1328.0	1405.3
47.5°	598.3	605.5	616.6	640.3	669.9	717.4	784.9	884.8	1002.8	1139.0	1248.9
50°	542.2	543.3	557.5	570.6	596.4	634.1	693.3	776.6	884.9	1015.9	1138.0
52.5°	494.0	493.8	502.3	519.0	539.9	569.3	617.1	692.8	789.0	906.3	1032.4
55°	421.7	424.5	431.0	444.1	460.0	480.9	518.6	575.6	651.2	751.4	865.9
57.5°	366.7	368.1	373.3	378.8	393.4	408.5	436.9	476.4	540.2	622.3	728.9
60°	330.7	331.3	333.0	341.2	352.7	366.9	386.1	419.5	473.2	548.2	632.6
62.5°	295.7	296.7	299.2	305.2	314.1	324.0	344.0	370.9	415.3	479.4	555.4
65°	246.4	247.0	250.8	253.0	260.2	268.9	283.7	301.7	332.4	386.1	443.6
67.5°	205.9	205.9	206.1	209.1	214.0	219.8	228.7	243.1	266.3	299.2	349.9
70°	179.6	179.6	180.7	182.4	185.1	190.0	195.0	205.9	222.9	249.7	288.6
72.5°	155.1	155.5	156.6	156.9	158.4	162.4	166.0	173.1	185.7	205.9	237.3
75°	113.9	115.6	118.3	120.5	123.2	122.7	126.5	130.9	134.8	146.8	164.9
77.5°	84.8	83.9	84.2	86.1	86.4	87.0	89.7	93.1	95.9	101.6	108.1
80°	64.6	64.6	66.2	66.8	66.2	66.8	69.6	71.2	72.3	74.5	80.5
82.5°	48.9	49.7	49.2	49.7	50.1	50.6	52.9	53.2	54.3	55.2	57.8
85°	27.4	28.0	28.4	27.4	27.4	27.4	28.4	29.0	30.1	29.5	30.7
87.5°	12.3	11.8	12.4	12.3	12.5	12.1	12.4	13.2	12.2	12.8	12.5
90°	13.0	13.0	13.6	13.0	12.4	12.4	11.8	11.2	10.5	11.2	9.9
92.5°	47.7	47.7	49.8	53.2	60.4	72.9	91.6	121.7	163.7	196.5	172.0
95°	151.1	159.2	170.3	189.6	219.9	280.0	363.0	459.0	519.1	504.9	381.0
97.5°	404.0	416.8	435.5	472.8	517.2	581.9	642.5	678.1	652.1	531.7	356.6
100°	568.0	573.0	591.5	629.3	683.3	729.0	759.4	747.0	656.6	498.0	323.4
102.5°	710.7	714.7	734.3	761.7	794.7	813.8	805.0	743.5	619.4	455.9	301.0
105°	871.6	875.3	883.9	888.9	887.6	862.2	800.9	693.8	551.9	406.3	281.9
107.5°	931.2	929.6	923.4	909.3	878.7	823.5	737.1	623.1	497.4	378.6	278.4
110°	932.2	926.7	915.5	889.5	845.5	777.4	687.5	580.4	470.2	369.2	279.3



TEST NUMBER: P332969-927

CATALOG NUMBER: S124RDIP-S1020D810U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	903.0	894.0	878.4	846.8	796.9	728.8	644.0	549.2	454.8	364.7	282.3
115°	836.9	831.9	812.1	774.9	726.0	666.5	594.1	517.8	440.4	362.3	288.0
117.5°	769.8	766.0	745.9	714.7	673.0	622.5	565.5	502.5	434.0	361.7	294.1
120°	732.1	725.3	709.2	682.0	646.7	602.7	553.2	495.5	430.5	361.7	298.6
122.5°	702.4	695.6	682.0	658.7	628.8	590.3	545.2	489.6	426.5	361.2	303.0
125°	667.7	664.0	652.3	634.3	609.5	575.4	532.7	479.4	419.9	360.5	309.7
127.5°	647.5	643.7	633.8	617.8	592.9	560.5	517.9	467.1	411.1	359.2	315.1
130°	635.6	631.8	621.9	606.4	581.0	548.2	506.0	457.2	405.8	358.6	319.0
132.5°	622.2	618.5	609.0	591.5	566.6	533.9	492.7	446.7	400.8	358.1	322.5
135°	597.1	593.4	583.5	566.2	541.4	510.4	472.6	432.4	393.3	357.4	327.6
137.5°	566.2	561.7	553.5	536.4	513.3	485.3	453.4	419.4	386.9	357.3	330.7
140°	543.8	538.9	530.2	516.6	495.0	468.9	441.0	411.9	383.4	356.8	333.3
142.5°	520.1	516.6	508.9	496.3	477.1	454.6	430.6	405.0	380.5	356.8	335.3
145°	487.5	484.4	478.2	467.7	452.2	434.8	416.3	395.2	375.3	355.5	336.4
147.5°	458.6	457.5	452.8	443.8	432.4	418.7	403.9	387.1	370.8	353.3	337.0
150°	442.3	441.6	437.9	429.9	419.9	408.8	396.4	382.1	367.3	351.8	337.0
152.5°	427.4	426.7	424.5	418.0	409.6	400.4	389.0	376.8	363.4	349.4	336.0
155°	408.2	408.2	406.3	401.4	395.2	387.8	378.5	368.5	357.4	345.6	334.5
157.5°	391.3	391.3	390.2	386.5	381.8	375.9	368.0	359.7	351.3	341.8	332.9
160°	381.0	381.0	380.3	376.6	372.9	368.0	361.2	354.3	346.9	338.8	331.4
162.5°	371.1	371.5	370.9	367.2	364.5	360.0	354.7	348.9	342.9	335.9	329.9
165°	356.2	356.8	357.4	354.9	352.4	349.4	345.0	341.3	336.4	331.4	327.1
167.5°	344.4	344.9	345.0	343.4	342.1	340.3	336.8	334.0	330.4	326.9	324.1
170°	337.0	337.0	337.5	337.0	335.7	333.9	331.4	329.5	326.5	323.9	322.1
172.5°	329.5	330.5	331.1	330.5	329.8	328.4	326.9	325.6	323.0	321.0	320.1
175°	320.8	322.1	323.4	322.1	322.1	322.1	320.8	320.3	319.0	317.7	317.7
177.5°	315.8	316.8	317.7	317.3	317.7	317.3	317.3	316.8	316.2	315.8	315.8
180°	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3



TEST NUMBER: P332969-927

CATALOG NUMBER: S124RDIP-S1020D810U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1400.4	1394.3	1391.2	1384.2	1375.9	1371.5	1367.5	1361.8	1354.4	1346.6	1340.8
5°	1471.5	1458.3	1441.9	1422.2	1404.7	1387.7	1372.9	1358.1	1341.2	1323.7	1306.2
7.5°	1544.4	1518.6	1490.6	1458.3	1427.0	1398.4	1372.1	1346.9	1318.3	1292.8	1269.6
10°	1595.3	1560.2	1521.3	1480.3	1439.2	1403.6	1368.6	1336.8	1301.7	1270.5	1244.2
12.5°	1636.5	1595.3	1548.5	1497.4	1448.0	1404.9	1364.6	1323.2	1283.3	1249.5	1214.4
15°	1704.8	1648.4	1585.4	1524.1	1460.0	1401.4	1347.2	1299.0	1253.5	1205.9	1172.5
17.5°	1751.8	1684.9	1608.3	1534.6	1458.9	1389.8	1327.2	1269.9	1217.4	1168.8	1129.0
20°	1779.8	1705.9	1621.0	1537.2	1452.3	1378.4	1311.1	1247.5	1193.3	1140.7	1099.6
22.5°	1795.6	1713.8	1621.0	1533.3	1445.3	1365.2	1291.3	1225.2	1166.2	1113.6	1068.1
25°	1800.6	1713.0	1618.3	1517.5	1421.1	1336.3	1259.6	1187.8	1122.1	1069.5	1021.4
27.5°	1793.7	1690.4	1593.4	1490.0	1390.6	1301.1	1220.6	1145.3	1079.4	1023.0	973.6
30°	1783.1	1672.5	1568.4	1461.1	1360.3	1274.4	1189.5	1117.2	1048.7	990.1	940.3
32.5°	1760.3	1650.6	1538.7	1428.7	1326.6	1238.0	1157.5	1084.7	1017.6	957.7	904.8
35°	1715.2	1604.0	1482.5	1369.7	1269.4	1177.4	1101.8	1031.7	967.7	903.6	847.7
37.5°	1655.7	1542.1	1421.3	1297.7	1197.4	1110.5	1041.2	975.3	912.8	854.3	792.4
40°	1599.7	1496.1	1371.3	1248.6	1145.7	1061.8	997.8	938.1	875.1	817.1	755.2
42.5°	1531.8	1443.6	1317.4	1194.3	1092.7	1011.9	952.2	893.8	836.5	780.3	715.7
45°	1418.4	1351.5	1233.3	1115.0	1012.6	932.6	877.9	826.4	776.0	722.3	661.6
47.5°	1288.5	1243.3	1141.1	1020.0	925.3	853.3	800.4	758.4	715.7	662.1	608.8
50°	1198.3	1169.2	1070.6	960.0	869.7	803.4	749.2	709.7	674.1	622.7	575.0
52.5°	1101.8	1086.4	1003.1	897.4	810.1	745.1	698.8	663.3	627.2	584.6	540.0
55°	955.1	963.3	892.6	801.2	719.1	664.3	622.1	592.6	561.9	525.8	491.2
57.5°	805.0	835.0	787.6	707.3	630.3	579.7	548.0	523.1	497.3	467.4	437.9
60°	715.2	740.4	713.6	642.9	575.6	528.5	498.9	479.7	454.0	426.6	404.2
62.5°	627.6	654.5	638.7	581.6	519.0	478.6	452.5	434.6	415.4	391.6	368.2
65°	517.5	535.0	527.4	488.0	443.6	409.1	385.0	371.9	354.3	336.8	316.0
67.5°	396.4	430.2	425.7	404.8	366.5	339.5	323.8	312.1	296.2	283.1	269.0
70°	325.8	357.0	356.5	339.5	318.7	293.5	282.6	272.7	258.5	245.9	234.4
72.5°	266.7	295.3	299.5	286.5	272.3	253.3	242.7	235.9	222.1	213.5	204.1
75°	186.7	207.6	213.0	213.0	206.4	196.6	187.3	182.9	173.1	165.4	159.9
77.5°	122.5	135.6	144.2	146.1	147.1	143.8	136.2	133.1	125.5	122.8	117.6
80°	86.5	95.3	105.1	108.4	111.1	110.1	106.8	104.6	97.5	94.7	92.5
82.5°	59.8	64.6	72.7	79.9	79.2	82.1	79.2	77.5	72.1	71.1	68.9
85°	31.2	31.8	32.9	37.8	40.6	41.6	42.1	41.0	39.5	39.5	35.6
87.5°	12.3	11.8	12.0	12.0	12.3	13.9	14.8	15.1	13.9	13.0	11.8
90°	8.6	8.6	5.0	5.0	4.4	3.7	1.8	0.6	1.8	3.7	4.4
92.5°	125.1	77.1	45.6	32.7	23.7	16.1	10.3	7.1	10.3	16.1	23.7
95°	232.9	131.3	77.4	51.4	36.5	28.5	22.3	20.4	22.3	28.5	36.5
97.5°	209.4	125.5	84.0	62.2	49.4	42.0	36.7	36.7	36.7	42.0	49.4
100°	197.0	127.0	90.5	70.6	58.9	51.4	47.1	47.1	47.1	51.4	58.9
102.5°	193.5	131.9	98.9	80.0	68.8	61.8	58.0	57.0	58.0	61.8	68.8
105°	195.1	143.7	114.0	96.0	84.8	77.4	74.3	72.5	74.3	77.4	84.8
107.5°	204.3	157.5	130.2	112.5	101.8	93.9	90.8	89.6	90.8	93.9	101.8
110°	211.2	167.9	140.6	123.9	112.7	105.3	102.2	101.0	102.2	105.3	112.7





TEST NUMBER: P332969-927

CATALOG NUMBER: S124RDIP-S1020D810U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	218.6	177.8	151.5	134.8	123.7	116.7	113.1	111.9	113.1	116.7	123.7
115°	230.4	193.3	168.5	151.8	140.0	133.8	129.4	127.6	129.4	133.8	140.0
117.5°	242.4	208.3	184.7	167.4	156.4	149.6	145.7	143.9	145.7	149.6	156.4
120°	250.9	218.6	195.1	177.8	167.2	160.4	156.1	154.9	156.1	160.4	167.2
122.5°	258.8	228.5	205.0	188.1	176.7	170.3	166.0	164.8	166.0	170.3	176.7
125°	270.7	242.2	219.9	202.6	190.8	183.9	180.2	177.8	180.2	183.9	190.8
127.5°	281.0	254.8	233.3	215.8	203.5	195.7	191.3	189.3	191.3	195.7	203.5
130°	287.4	263.2	242.2	224.3	212.5	203.2	198.2	195.7	198.2	203.2	212.5
132.5°	293.8	270.2	249.1	232.2	219.4	210.6	204.1	202.2	204.1	210.6	219.4
135°	302.3	280.0	259.5	243.4	230.4	219.9	213.7	211.2	213.7	219.9	230.4
137.5°	308.2	287.4	268.3	252.9	239.5	229.4	222.6	220.3	222.6	229.4	239.5
140°	312.2	292.4	273.8	258.9	245.9	235.4	228.5	226.7	228.5	235.4	245.9
142.5°	315.1	296.8	278.8	264.4	251.8	241.9	235.5	233.6	235.5	241.9	251.8
145°	318.4	301.7	285.6	272.0	260.2	251.5	245.3	243.4	245.3	251.5	260.2
147.5°	321.2	306.7	291.5	279.2	269.4	260.5	255.1	254.4	255.1	260.5	269.4
150°	322.7	309.1	295.5	283.7	274.4	267.0	262.1	261.4	262.1	267.0	274.4
152.5°	323.7	311.1	299.0	288.2	279.9	272.9	268.0	267.8	268.0	272.9	279.9
155°	324.6	314.0	303.5	294.2	287.4	281.2	277.5	276.9	277.5	281.2	287.4
157.5°	324.6	316.2	307.2	299.9	294.0	289.1	285.7	285.7	285.7	289.1	294.0
160°	324.6	317.1	309.7	302.9	297.9	293.6	291.1	291.1	291.1	293.6	297.9
162.5°	324.6	318.1	311.2	305.9	301.4	297.5	295.6	296.1	295.6	297.5	301.4
165°	323.4	318.4	312.8	309.1	306.0	302.9	301.7	301.7	301.7	302.9	306.0
167.5°	321.9	318.3	314.2	311.3	309.6	307.2	306.7	307.2	306.7	307.2	309.6
170°	320.8	317.7	314.7	312.8	311.6	309.7	309.1	309.7	309.1	309.7	311.6
172.5°	319.9	317.3	315.1	313.8	313.1	311.7	311.6	312.2	311.6	311.7	313.1
175°	318.4	316.6	315.3	315.3	314.7	314.0	314.0	314.7	314.0	314.0	314.7
177.5°	316.8	315.8	315.3	315.3	315.3	314.8	315.3	315.8	315.3	314.8	315.3
180°	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3



TEST NUMBER: P332969-927

CATALOG NUMBER: S124RDIP-S1020D810U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1334.7	1330.3	1324.6	1318.0	1310.2	1303.1	1300.1	1302.7	1304.0	1300.5	1300.1
5°	1294.1	1280.4	1269.4	1253.0	1239.8	1228.9	1221.2	1218.0	1219.0	1210.3	1208.1
7.5°	1248.4	1232.2	1214.3	1194.7	1176.5	1160.5	1152.0	1147.4	1138.1	1134.2	1127.5
10°	1219.0	1197.1	1179.6	1156.6	1135.8	1116.7	1107.3	1099.6	1090.4	1086.0	1076.7
12.5°	1188.8	1163.4	1144.1	1120.2	1099.0	1075.9	1067.0	1052.8	1038.2	1029.0	1017.1
15°	1146.2	1115.6	1092.0	1063.5	1038.3	1012.0	988.5	962.2	952.4	931.5	919.5
17.5°	1096.4	1065.2	1036.1	997.9	959.0	926.4	901.3	876.1	861.0	847.7	841.6
20°	1063.5	1035.1	994.5	950.1	906.9	870.8	850.5	834.1	817.6	808.3	801.8
22.5°	1032.4	996.0	949.0	901.1	857.9	829.6	812.4	795.5	782.1	773.2	764.5
25°	980.2	932.6	882.8	828.1	798.4	773.8	755.2	741.5	733.3	721.8	717.4
27.5°	926.7	869.0	814.0	777.2	746.4	723.9	707.7	697.4	687.0	679.6	673.9
30°	885.5	827.0	777.7	742.6	711.4	692.8	679.6	667.6	659.3	653.3	649.0
32.5°	844.8	786.2	744.8	707.1	682.5	664.3	650.3	641.3	634.9	627.0	624.4
35°	785.8	733.8	697.7	663.8	638.6	622.1	611.2	601.8	596.4	594.2	592.6
37.5°	729.2	686.7	647.8	620.0	597.5	584.6	571.6	567.0	563.3	559.4	561.1
40°	693.3	653.3	618.9	589.2	571.2	557.0	549.3	543.8	540.5	540.5	540.5
42.5°	662.2	623.1	589.5	563.0	544.9	532.8	524.3	519.7	518.6	518.2	520.8
45°	613.9	577.7	543.8	521.9	506.6	494.5	489.6	485.8	485.8	488.0	488.5
47.5°	566.0	532.2	504.9	480.4	466.4	458.8	454.6	452.6	452.8	455.0	457.5
50°	536.7	503.3	476.4	454.6	441.4	434.3	430.5	429.4	430.5	430.5	434.3
52.5°	504.7	474.8	448.4	430.0	415.1	408.4	406.3	404.8	405.4	407.3	408.8
55°	457.8	431.0	405.8	388.2	377.3	373.0	368.0	368.5	367.5	368.5	368.5
57.5°	410.8	386.7	363.3	349.4	339.8	333.4	328.0	329.5	328.0	327.7	326.9
60°	380.6	354.3	335.7	323.1	312.1	306.7	301.7	302.9	301.2	300.1	297.9
62.5°	347.8	325.8	308.1	296.0	287.2	280.8	275.9	274.8	271.0	267.3	262.4
65°	300.1	282.0	266.2	254.7	246.4	241.5	237.7	234.4	226.2	217.4	213.0
67.5°	253.8	240.7	225.9	216.2	209.5	203.0	195.7	190.1	182.4	177.7	174.9
70°	223.9	211.4	198.8	189.5	182.4	176.3	168.1	164.3	158.8	156.6	153.9
72.5°	195.5	183.8	172.1	163.7	156.1	151.4	144.9	141.1	138.6	137.8	135.1
75°	152.3	142.9	134.2	126.5	120.5	117.2	114.5	111.7	110.6	105.7	103.0
77.5°	111.1	105.0	99.4	94.0	89.7	87.5	82.2	79.1	77.2	74.9	74.4
80°	86.5	82.1	76.7	73.4	67.3	65.2	63.0	62.4	61.9	61.3	60.8
82.5°	65.0	60.7	55.2	53.2	51.6	50.3	49.0	48.4	47.8	48.2	48.1
85°	32.9	30.7	30.7	30.1	29.5	29.0	28.4	28.4	28.0	28.4	28.0
87.5°	12.0	11.5	12.3	11.4	12.0	12.3	11.7	11.9	12.4	11.6	11.6
90°	5.0	5.0	8.6	8.6	9.9	11.2	10.5	11.2	11.8	12.4	12.4
92.5°	32.7	45.6	77.1	125.1	172.0	196.5	163.7	121.7	91.6	72.9	60.4
95°	51.4	77.4	131.3	232.9	381.0	504.9	519.1	459.0	363.0	280.0	219.9
97.5°	62.2	84.0	125.5	209.4	356.6	531.7	652.1	678.1	642.5	581.9	517.2
100°	70.6	90.5	127.0	197.0	323.4	498.0	656.6	747.0	759.4	729.0	683.3
102.5°	80.0	98.9	131.9	193.5	301.0	455.9	619.4	743.5	805.0	813.8	794.7
105°	96.0	114.0	143.7	195.1	281.9	406.3	551.9	693.8	800.9	862.2	887.6
107.5°	112.5	130.2	157.5	204.3	278.4	378.6	497.4	623.1	737.1	823.5	878.7
110°	123.9	140.6	167.9	211.2	279.3	369.2	470.2	580.4	687.5	777.4	845.5



TEST NUMBER: P332969-927

CATALOG NUMBER: S124RDIP-S1020D810U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	134.8	151.5	177.8	218.6	282.3	364.7	454.8	549.2	644.0	728.8	796.9
115°	151.8	168.5	193.3	230.4	288.0	362.3	440.4	517.8	594.1	666.5	726.0
117.5°	167.4	184.7	208.3	242.4	294.1	361.7	434.0	502.5	565.5	622.5	673.0
120°	177.8	195.1	218.6	250.9	298.6	361.7	430.5	495.5	553.2	602.7	646.7
122.5°	188.1	205.0	228.5	258.8	303.0	361.2	426.5	489.6	545.2	590.3	628.8
125°	202.6	219.9	242.2	270.7	309.7	360.5	419.9	479.4	532.7	575.4	609.5
127.5°	215.8	233.3	254.8	281.0	315.1	359.2	411.1	467.1	517.9	560.5	592.9
130°	224.3	242.2	263.2	287.4	319.0	358.6	405.8	457.2	506.0	548.2	581.0
132.5°	232.2	249.1	270.2	293.8	322.5	358.1	400.8	446.7	492.7	533.9	566.6
135°	243.4	259.5	280.0	302.3	327.6	357.4	393.3	432.4	472.6	510.4	541.4
137.5°	252.9	268.3	287.4	308.2	330.7	357.3	386.9	419.4	453.4	485.3	513.3
140°	258.9	273.8	292.4	312.2	333.3	356.8	383.4	411.9	441.0	468.9	495.0
142.5°	264.4	278.8	296.8	315.1	335.3	356.8	380.5	405.0	430.6	454.6	477.1
145°	272.0	285.6	301.7	318.4	336.4	355.5	375.3	395.2	416.3	434.8	452.2
147.5°	279.2	291.5	306.7	321.2	337.0	353.3	370.8	387.1	403.9	418.7	432.4
150°	283.7	295.5	309.1	322.7	337.0	351.8	367.3	382.1	396.4	408.8	419.9
152.5°	288.2	299.0	311.1	323.7	336.0	349.4	363.4	376.8	389.0	400.4	409.6
155°	294.2	303.5	314.0	324.6	334.5	345.6	357.4	368.5	378.5	387.8	395.2
157.5°	299.9	307.2	316.2	324.6	332.9	341.8	351.3	359.7	368.0	375.9	381.8
160°	302.9	309.7	317.1	324.6	331.4	338.8	346.9	354.3	361.2	368.0	372.9
162.5°	305.9	311.2	318.1	324.6	329.9	335.9	342.9	348.9	354.7	360.0	364.5
165°	309.1	312.8	318.4	323.4	327.1	331.4	336.4	341.3	345.0	349.4	352.4
167.5°	311.3	314.2	318.3	321.9	324.1	326.9	330.4	334.0	336.8	340.3	342.1
170°	312.8	314.7	317.7	320.8	322.1	323.9	326.5	329.5	331.4	333.9	335.7
172.5°	313.8	315.1	317.3	319.9	320.1	321.0	323.0	325.6	326.9	328.4	329.8
175°	315.3	315.3	316.6	318.4	317.7	317.7	319.0	320.3	320.8	322.1	322.1
177.5°	315.3	315.3	315.8	316.8	315.8	315.8	316.2	316.8	317.3	317.3	317.7
180°	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3



TEST NUMBER: P332969-927

CATALOG NUMBER: S124RDIP-S1020D810U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1297.4	1298.3	1295.3	1294.4	1295.3	1298.3	1297.4	1300.1	1300.5	1304.0	1302.7
5°	1203.7	1202.6	1199.8	1200.4	1199.8	1202.6	1203.7	1208.1	1210.3	1219.0	1218.0
7.5°	1123.6	1119.3	1120.5	1116.1	1120.5	1119.3	1123.6	1127.5	1134.2	1138.1	1147.4
10°	1074.4	1068.4	1063.5	1059.1	1063.5	1068.4	1074.4	1076.7	1086.0	1090.4	1099.6
12.5°	1007.4	1002.3	995.6	997.0	995.6	1002.3	1007.4	1017.1	1029.0	1038.2	1052.8
15°	912.4	904.1	891.0	892.6	891.0	904.1	912.4	919.5	931.5	952.4	962.2
17.5°	831.9	831.9	825.9	827.4	825.9	831.9	831.9	841.6	847.7	861.0	876.1
20°	790.3	786.4	787.0	785.3	787.0	786.4	790.3	801.8	808.3	817.6	834.1
22.5°	761.4	756.6	752.8	749.4	752.8	756.6	761.4	764.5	773.2	782.1	795.5
25°	712.5	709.2	704.3	703.1	704.3	709.2	712.5	717.4	721.8	733.3	741.5
27.5°	669.6	668.9	666.9	664.4	666.9	668.9	669.6	673.9	679.6	687.0	697.4
30°	644.6	643.5	642.4	640.7	642.4	643.5	644.6	649.0	653.3	659.3	667.6
32.5°	622.3	621.5	620.4	620.6	620.4	621.5	622.3	624.4	627.0	634.9	641.3
35°	590.3	589.8	588.7	588.2	588.7	589.8	590.3	592.6	594.2	596.4	601.8
37.5°	560.5	562.0	561.3	561.2	561.3	562.0	560.5	561.1	559.4	563.3	567.0
40°	540.0	540.5	541.6	541.1	541.6	540.5	540.0	540.5	540.5	540.5	543.8
42.5°	522.9	523.0	524.5	522.7	524.5	523.0	522.9	520.8	518.2	518.6	519.7
45°	492.3	495.6	495.0	495.0	495.0	495.6	492.3	488.5	488.0	485.8	485.8
47.5°	458.9	461.8	462.6	462.4	462.6	461.8	458.9	457.5	455.0	452.8	452.6
50°	437.0	435.9	437.6	437.0	437.6	435.9	437.0	434.3	430.5	430.5	429.4
52.5°	410.3	410.5	410.4	409.9	410.4	410.5	410.3	408.8	407.3	405.4	404.8
55°	369.1	369.6	368.5	369.1	368.5	369.6	369.1	368.5	368.5	367.5	368.5
57.5°	324.4	321.8	322.9	321.5	322.9	321.8	324.4	326.9	327.7	328.0	329.5
60°	292.5	288.0	286.9	284.8	286.9	288.0	292.5	297.9	300.1	301.2	302.9
62.5°	256.5	253.4	249.7	251.4	249.7	253.4	256.5	262.4	267.3	271.0	274.8
65°	208.7	206.4	204.8	207.0	204.8	206.4	208.7	213.0	217.4	226.2	234.4
67.5°	172.7	171.5	171.5	170.4	171.5	171.5	172.7	174.9	177.7	182.4	190.1
70°	153.9	152.3	152.3	151.1	152.3	152.3	153.9	153.9	156.6	158.8	164.3
72.5°	134.6	132.9	133.4	132.8	133.4	132.9	134.6	135.1	137.8	138.6	141.1
75°	99.7	97.0	97.0	97.5	97.0	97.0	99.7	103.0	105.7	110.6	111.7
77.5°	74.4	73.8	74.6	73.6	74.6	73.8	74.4	74.4	74.9	77.2	79.1
80°	60.8	60.2	59.7	61.3	59.7	60.2	60.8	60.8	61.3	61.9	62.4
82.5°	47.2	47.1	47.0	49.0	47.0	47.1	47.2	48.1	48.2	47.8	48.4
85°	28.4	27.4	28.4	27.4	28.4	27.4	28.4	28.0	28.4	28.0	28.4
87.5°	12.7	12.4	11.8	12.3	11.8	12.4	12.7	11.6	11.6	12.4	11.9
90°	13.0	13.6	13.0	13.0	13.0	13.6	13.0	12.4	12.4	11.8	11.2
92.5°	53.2	49.8	47.7	47.7	47.7	49.8	53.2	60.4	72.9	91.6	121.7
95°	189.6	170.3	159.2	151.1	159.2	170.3	189.6	219.9	280.0	363.0	459.0
97.5°	472.8	435.5	416.8	404.0	416.8	435.5	472.8	517.2	581.9	642.5	678.1
100°	629.3	591.5	573.0	568.0	573.0	591.5	629.3	683.3	729.0	759.4	747.0
102.5°	761.7	734.3	714.7	710.7	714.7	734.3	761.7	794.7	813.8	805.0	743.5
105°	888.9	883.9	875.3	871.6	875.3	883.9	888.9	887.6	862.2	800.9	693.8
107.5°	909.3	923.4	929.6	931.2	929.6	923.4	909.3	878.7	823.5	737.1	623.1
110°	889.5	915.5	926.7	932.2	926.7	915.5	889.5	845.5	777.4	687.5	580.4



TEST NUMBER: P332969-927

CATALOG NUMBER: S124RDIP-S1020D810U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	846.8	878.4	894.0	903.0	894.0	878.4	846.8	796.9	728.8	644.0	549.2
115°	774.9	812.1	831.9	836.9	831.9	812.1	774.9	726.0	666.5	594.1	517.8
117.5°	714.7	745.9	766.0	769.8	766.0	745.9	714.7	673.0	622.5	565.5	502.5
120°	682.0	709.2	725.3	732.1	725.3	709.2	682.0	646.7	602.7	553.2	495.5
122.5°	658.7	682.0	695.6	702.4	695.6	682.0	658.7	628.8	590.3	545.2	489.6
125°	634.3	652.3	664.0	667.7	664.0	652.3	634.3	609.5	575.4	532.7	479.4
127.5°	617.8	633.8	643.7	647.5	643.7	633.8	617.8	592.9	560.5	517.9	467.1
130°	606.4	621.9	631.8	635.6	631.8	621.9	606.4	581.0	548.2	506.0	457.2
132.5°	591.5	609.0	618.5	622.2	618.5	609.0	591.5	566.6	533.9	492.7	446.7
135°	566.2	583.5	593.4	597.1	593.4	583.5	566.2	541.4	510.4	472.6	432.4
137.5°	536.4	553.5	561.7	566.2	561.7	553.5	536.4	513.3	485.3	453.4	419.4
140°	516.6	530.2	538.9	543.8	538.9	530.2	516.6	495.0	468.9	441.0	411.9
142.5°	496.3	508.9	516.6	520.1	516.6	508.9	496.3	477.1	454.6	430.6	405.0
145°	467.7	478.2	484.4	487.5	484.4	478.2	467.7	452.2	434.8	416.3	395.2
147.5°	443.8	452.8	457.5	458.6	457.5	452.8	443.8	432.4	418.7	403.9	387.1
150°	429.9	437.9	441.6	442.3	441.6	437.9	429.9	419.9	408.8	396.4	382.1
152.5°	418.0	424.5	426.7	427.4	426.7	424.5	418.0	409.6	400.4	389.0	376.8
155°	401.4	406.3	408.2	408.2	408.2	406.3	401.4	395.2	387.8	378.5	368.5
157.5°	386.5	390.2	391.3	391.3	391.3	390.2	386.5	381.8	375.9	368.0	359.7
160°	376.6	380.3	381.0	381.0	381.0	380.3	376.6	372.9	368.0	361.2	354.3
162.5°	367.2	370.9	371.5	371.1	371.5	370.9	367.2	364.5	360.0	354.7	348.9
165°	354.9	357.4	356.8	356.2	356.8	357.4	354.9	352.4	349.4	345.0	341.3
167.5°	343.4	345.0	344.9	344.4	344.9	345.0	343.4	342.1	340.3	336.8	334.0
170°	337.0	337.5	337.0	337.0	337.0	337.5	337.0	335.7	333.9	331.4	329.5
172.5°	330.5	331.1	330.5	329.5	330.5	331.1	330.5	329.8	328.4	326.9	325.6
175°	322.1	323.4	322.1	320.8	322.1	323.4	322.1	322.1	322.1	320.8	320.3
177.5°	317.3	317.7	316.8	315.8	316.8	317.7	317.3	317.7	317.3	317.3	316.8
180°	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3



TEST NUMBER: P332969-927

CATALOG NUMBER: S124RDIP-S1020D810U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1300.1	1303.1	1310.2	1318.0	1324.6	1330.3	1334.7	1340.8	1346.6	1354.4	1361.8
5°	1221.2	1228.9	1239.8	1253.0	1269.4	1280.4	1294.1	1306.2	1323.7	1341.2	1358.1
7.5°	1152.0	1160.5	1176.5	1194.7	1214.3	1232.2	1248.4	1269.6	1292.8	1318.3	1346.9
10°	1107.3	1116.7	1135.8	1156.6	1179.6	1197.1	1219.0	1244.2	1270.5	1301.7	1336.8
12.5°	1067.0	1075.9	1099.0	1120.2	1144.1	1163.4	1188.8	1214.4	1249.5	1283.3	1323.2
15°	988.5	1012.0	1038.3	1063.5	1092.0	1115.6	1146.2	1172.5	1205.9	1253.5	1299.0
17.5°	901.3	926.4	959.0	997.9	1036.1	1065.2	1096.4	1129.0	1168.8	1217.4	1269.9
20°	850.5	870.8	906.9	950.1	994.5	1035.1	1063.5	1099.6	1140.7	1193.3	1247.5
22.5°	812.4	829.6	857.9	901.1	949.0	996.0	1032.4	1068.1	1113.6	1166.2	1225.2
25°	755.2	773.8	798.4	828.1	882.8	932.6	980.2	1021.4	1069.5	1122.1	1187.8
27.5°	707.7	723.9	746.4	777.2	814.0	869.0	926.7	973.6	1023.0	1079.4	1145.3
30°	679.6	692.8	711.4	742.6	777.7	827.0	885.5	940.3	990.1	1048.7	1117.2
32.5°	650.3	664.3	682.5	707.1	744.8	786.2	844.8	904.8	957.7	1017.6	1084.7
35°	611.2	622.1	638.6	663.8	697.7	733.8	785.8	847.7	903.6	967.7	1031.7
37.5°	571.6	584.6	597.5	620.0	647.8	686.7	729.2	792.4	854.3	912.8	975.3
40°	549.3	557.0	571.2	589.2	618.9	653.3	693.3	755.2	817.1	875.1	938.1
42.5°	524.3	532.8	544.9	563.0	589.5	623.1	662.2	715.7	780.3	836.5	893.8
45°	489.6	494.5	506.6	521.9	543.8	577.7	613.9	661.6	722.3	776.0	826.4
47.5°	454.6	458.8	466.4	480.4	504.9	532.2	566.0	608.8	662.1	715.7	758.4
50°	430.5	434.3	441.4	454.6	476.4	503.3	536.7	575.0	622.7	674.1	709.7
52.5°	406.3	408.4	415.1	430.0	448.4	474.8	504.7	540.0	584.6	627.2	663.3
55°	368.0	373.0	377.3	388.2	405.8	431.0	457.8	491.2	525.8	561.9	592.6
57.5°	328.0	333.4	339.8	349.4	363.3	386.7	410.8	437.9	467.4	497.3	523.1
60°	301.7	306.7	312.1	323.1	335.7	354.3	380.6	404.2	426.6	454.0	479.7
62.5°	275.9	280.8	287.2	296.0	308.1	325.8	347.8	368.2	391.6	415.4	434.6
65°	237.7	241.5	246.4	254.7	266.2	282.0	300.1	316.0	336.8	354.3	371.9
67.5°	195.7	203.0	209.5	216.2	225.9	240.7	253.8	269.0	283.1	296.2	312.1
70°	168.1	176.3	182.4	189.5	198.8	211.4	223.9	234.4	245.9	258.5	272.7
72.5°	144.9	151.4	156.1	163.7	172.1	183.8	195.5	204.1	213.5	222.1	235.9
75°	114.5	117.2	120.5	126.5	134.2	142.9	152.3	159.9	165.4	173.1	182.9
77.5°	82.2	87.5	89.7	94.0	99.4	105.0	111.1	117.6	122.8	125.5	133.1
80°	63.0	65.2	67.3	73.4	76.7	82.1	86.5	92.5	94.7	97.5	104.6
82.5°	49.0	50.3	51.6	53.2	55.2	60.7	65.0	68.9	71.1	72.1	77.5
85°	28.4	29.0	29.5	30.1	30.7	30.7	32.9	35.6	39.5	39.5	41.0
87.5°	11.7	12.3	12.0	11.4	12.3	11.5	12.0	11.8	13.0	13.9	15.1
90°	10.5	11.2	9.9	8.6	8.6	5.0	5.0	4.4	3.7	1.8	0.6
92.5°	163.7	196.5	172.0	125.1	77.1	45.6	32.7	23.7	16.1	10.3	7.1
95°	519.1	504.9	381.0	232.9	131.3	77.4	51.4	36.5	28.5	22.3	20.4
97.5°	652.1	531.7	356.6	209.4	125.5	84.0	62.2	49.4	42.0	36.7	36.7
100°	656.6	498.0	323.4	197.0	127.0	90.5	70.6	58.9	51.4	47.1	47.1
102.5°	619.4	455.9	301.0	193.5	131.9	98.9	80.0	68.8	61.8	58.0	57.0
105°	551.9	406.3	281.9	195.1	143.7	114.0	96.0	84.8	77.4	74.3	72.5
107.5°	497.4	378.6	278.4	204.3	157.5	130.2	112.5	101.8	93.9	90.8	89.6
110°	470.2	369.2	279.3	211.2	167.9	140.6	123.9	112.7	105.3	102.2	101.0



TEST NUMBER: P332969-927

CATALOG NUMBER: S124RDIP-S1020D810U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	454.8	364.7	282.3	218.6	177.8	151.5	134.8	123.7	116.7	113.1	111.9
115°	440.4	362.3	288.0	230.4	193.3	168.5	151.8	140.0	133.8	129.4	127.6
117.5°	434.0	361.7	294.1	242.4	208.3	184.7	167.4	156.4	149.6	145.7	143.9
120°	430.5	361.7	298.6	250.9	218.6	195.1	177.8	167.2	160.4	156.1	154.9
122.5°	426.5	361.2	303.0	258.8	228.5	205.0	188.1	176.7	170.3	166.0	164.8
125°	419.9	360.5	309.7	270.7	242.2	219.9	202.6	190.8	183.9	180.2	177.8
127.5°	411.1	359.2	315.1	281.0	254.8	233.3	215.8	203.5	195.7	191.3	189.3
130°	405.8	358.6	319.0	287.4	263.2	242.2	224.3	212.5	203.2	198.2	195.7
132.5°	400.8	358.1	322.5	293.8	270.2	249.1	232.2	219.4	210.6	204.1	202.2
135°	393.3	357.4	327.6	302.3	280.0	259.5	243.4	230.4	219.9	213.7	211.2
137.5°	386.9	357.3	330.7	308.2	287.4	268.3	252.9	239.5	229.4	222.6	220.3
140°	383.4	356.8	333.3	312.2	292.4	273.8	258.9	245.9	235.4	228.5	226.7
142.5°	380.5	356.8	335.3	315.1	296.8	278.8	264.4	251.8	241.9	235.5	233.6
145°	375.3	355.5	336.4	318.4	301.7	285.6	272.0	260.2	251.5	245.3	243.4
147.5°	370.8	353.3	337.0	321.2	306.7	291.5	279.2	269.4	260.5	255.1	254.4
150°	367.3	351.8	337.0	322.7	309.1	295.5	283.7	274.4	267.0	262.1	261.4
152.5°	363.4	349.4	336.0	323.7	311.1	299.0	288.2	279.9	272.9	268.0	267.8
155°	357.4	345.6	334.5	324.6	314.0	303.5	294.2	287.4	281.2	277.5	276.9
157.5°	351.3	341.8	332.9	324.6	316.2	307.2	299.9	294.0	289.1	285.7	285.7
160°	346.9	338.8	331.4	324.6	317.1	309.7	302.9	297.9	293.6	291.1	291.1
162.5°	342.9	335.9	329.9	324.6	318.1	311.2	305.9	301.4	297.5	295.6	296.1
165°	336.4	331.4	327.1	323.4	318.4	312.8	309.1	306.0	302.9	301.7	301.7
167.5°	330.4	326.9	324.1	321.9	318.3	314.2	311.3	309.6	307.2	306.7	307.2
170°	326.5	323.9	322.1	320.8	317.7	314.7	312.8	311.6	309.7	309.1	309.7
172.5°	323.0	321.0	320.1	319.9	317.3	315.1	313.8	313.1	311.7	311.6	312.2
175°	319.0	317.7	317.7	318.4	316.6	315.3	315.3	314.7	314.0	314.0	314.7
177.5°	316.2	315.8	315.8	316.8	315.8	315.3	315.3	315.3	314.8	315.3	315.8
180°	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3



TEST NUMBER: P332969-927

CATALOG NUMBER: S124RDIP-S1020D810U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1367.5	1371.5	1375.9	1384.2	1391.2	1394.3	1400.4	1404.8	1403.5	1409.6	1420.1
5°	1372.9	1387.7	1404.7	1422.2	1441.9	1458.3	1471.5	1484.6	1495.1	1507.7	1526.3
7.5°	1372.1	1398.4	1427.0	1458.3	1490.6	1518.6	1544.4	1570.7	1594.0	1619.6	1653.0
10°	1368.6	1403.6	1439.2	1480.3	1521.3	1560.2	1595.3	1628.1	1659.4	1692.7	1735.0
12.5°	1364.6	1404.9	1448.0	1497.4	1548.5	1595.3	1636.5	1683.8	1722.8	1765.9	1814.7
15°	1347.2	1401.4	1460.0	1524.1	1585.4	1648.4	1704.8	1762.8	1817.0	1868.5	1929.9
17.5°	1327.2	1389.8	1458.9	1534.6	1608.3	1684.9	1751.8	1825.0	1880.4	1949.5	2006.4
20°	1311.1	1378.4	1452.3	1537.2	1621.0	1705.9	1779.8	1854.3	1916.8	1986.3	2058.6
22.5°	1291.3	1365.2	1445.3	1533.3	1621.0	1713.8	1795.6	1869.6	1946.9	2025.3	2099.8
25°	1259.6	1336.3	1421.1	1517.5	1618.3	1713.0	1800.6	1892.6	1975.9	2060.8	2127.6
27.5°	1220.6	1301.1	1390.6	1490.0	1593.4	1690.4	1793.7	1891.7	1975.5	2057.1	2115.4
30°	1189.5	1274.4	1360.3	1461.1	1568.4	1672.5	1783.1	1881.1	1969.3	2042.7	2075.5
32.5°	1157.5	1238.0	1326.6	1428.7	1538.7	1650.6	1760.3	1860.5	1942.1	1986.2	1987.0
35°	1101.8	1177.4	1269.4	1369.7	1482.5	1604.0	1715.2	1813.8	1863.6	1867.4	1813.8
37.5°	1041.2	1110.5	1197.4	1297.7	1421.3	1542.1	1655.7	1721.4	1738.1	1682.4	1583.1
40°	997.8	1061.8	1145.7	1248.6	1371.3	1496.1	1599.7	1647.8	1630.3	1539.9	1429.3
42.5°	952.2	1011.9	1092.7	1194.3	1317.4	1443.6	1531.8	1557.6	1511.2	1406.8	1277.3
45°	877.9	932.6	1012.6	1115.0	1233.3	1351.5	1418.4	1405.3	1328.0	1204.3	1059.1
47.5°	800.4	853.3	925.3	1020.0	1141.1	1243.3	1288.5	1248.9	1139.0	1002.8	884.8
50°	749.2	803.4	869.7	960.0	1070.6	1169.2	1198.3	1138.0	1015.9	884.9	776.6
52.5°	698.8	745.1	810.1	897.4	1003.1	1086.4	1101.8	1032.4	906.3	789.0	692.8
55°	622.1	664.3	719.1	801.2	892.6	963.3	955.1	865.9	751.4	651.2	575.6
57.5°	548.0	579.7	630.3	707.3	787.6	835.0	805.0	728.9	622.3	540.2	476.4
60°	498.9	528.5	575.6	642.9	713.6	740.4	715.2	632.6	548.2	473.2	419.5
62.5°	452.5	478.6	519.0	581.6	638.7	654.5	627.6	555.4	479.4	415.3	370.9
65°	385.0	409.1	443.6	488.0	527.4	535.0	517.5	443.6	386.1	332.4	301.7
67.5°	323.8	339.5	366.5	404.8	425.7	430.2	396.4	349.9	299.2	266.3	243.1
70°	282.6	293.5	318.7	339.5	356.5	357.0	325.8	288.6	249.7	222.9	205.9
72.5°	242.7	253.3	272.3	286.5	299.5	295.3	266.7	237.3	205.9	185.7	173.1
75°	187.3	196.6	206.4	213.0	213.0	207.6	186.7	164.9	146.8	134.8	130.9
77.5°	136.2	143.8	147.1	146.1	144.2	135.6	122.5	108.1	101.6	95.9	93.1
80°	106.8	110.1	111.1	108.4	105.1	95.3	86.5	80.5	74.5	72.3	71.2
82.5°	79.2	82.1	79.2	79.9	72.7	64.6	59.8	57.8	55.2	54.3	53.2
85°	42.1	41.6	40.6	37.8	32.9	31.8	31.2	30.7	29.5	30.1	29.0
87.5°	14.8	13.9	12.3	12.0	12.0	11.8	12.3	12.5	12.8	12.2	13.2
90°	1.8	3.7	4.4	5.0	5.0	8.6	8.6	9.9	11.2	10.5	11.2
92.5°	10.3	16.1	23.7	32.7	45.6	77.1	125.1	172.0	196.5	163.7	121.7
95°	22.3	28.5	36.5	51.4	77.4	131.3	232.9	381.0	504.9	519.1	459.0
97.5°	36.7	42.0	49.4	62.2	84.0	125.5	209.4	356.6	531.7	652.1	678.1
100°	47.1	51.4	58.9	70.6	90.5	127.0	197.0	323.4	498.0	656.6	747.0
102.5°	58.0	61.8	68.8	80.0	98.9	131.9	193.5	301.0	455.9	619.4	743.5
105°	74.3	77.4	84.8	96.0	114.0	143.7	195.1	281.9	406.3	551.9	693.8
107.5°	90.8	93.9	101.8	112.5	130.2	157.5	204.3	278.4	378.6	497.4	623.1
110°	102.2	105.3	112.7	123.9	140.6	167.9	211.2	279.3	369.2	470.2	580.4





TEST NUMBER: P332969-927

CATALOG NUMBER: S124RDIP-S1020D810U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	113.1	116.7	123.7	134.8	151.5	177.8	218.6	282.3	364.7	454.8	549.2
115°	129.4	133.8	140.0	151.8	168.5	193.3	230.4	288.0	362.3	440.4	517.8
117.5°	145.7	149.6	156.4	167.4	184.7	208.3	242.4	294.1	361.7	434.0	502.5
120°	156.1	160.4	167.2	177.8	195.1	218.6	250.9	298.6	361.7	430.5	495.5
122.5°	166.0	170.3	176.7	188.1	205.0	228.5	258.8	303.0	361.2	426.5	489.6
125°	180.2	183.9	190.8	202.6	219.9	242.2	270.7	309.7	360.5	419.9	479.4
127.5°	191.3	195.7	203.5	215.8	233.3	254.8	281.0	315.1	359.2	411.1	467.1
130°	198.2	203.2	212.5	224.3	242.2	263.2	287.4	319.0	358.6	405.8	457.2
132.5°	204.1	210.6	219.4	232.2	249.1	270.2	293.8	322.5	358.1	400.8	446.7
135°	213.7	219.9	230.4	243.4	259.5	280.0	302.3	327.6	357.4	393.3	432.4
137.5°	222.6	229.4	239.5	252.9	268.3	287.4	308.2	330.7	357.3	386.9	419.4
140°	228.5	235.4	245.9	258.9	273.8	292.4	312.2	333.3	356.8	383.4	411.9
142.5°	235.5	241.9	251.8	264.4	278.8	296.8	315.1	335.3	356.8	380.5	405.0
145°	245.3	251.5	260.2	272.0	285.6	301.7	318.4	336.4	355.5	375.3	395.2
147.5°	255.1	260.5	269.4	279.2	291.5	306.7	321.2	337.0	353.3	370.8	387.1
150°	262.1	267.0	274.4	283.7	295.5	309.1	322.7	337.0	351.8	367.3	382.1
152.5°	268.0	272.9	279.9	288.2	299.0	311.1	323.7	336.0	349.4	363.4	376.8
155°	277.5	281.2	287.4	294.2	303.5	314.0	324.6	334.5	345.6	357.4	368.5
157.5°	285.7	289.1	294.0	299.9	307.2	316.2	324.6	332.9	341.8	351.3	359.7
160°	291.1	293.6	297.9	302.9	309.7	317.1	324.6	331.4	338.8	346.9	354.3
162.5°	295.6	297.5	301.4	305.9	311.2	318.1	324.6	329.9	335.9	342.9	348.9
165°	301.7	302.9	306.0	309.1	312.8	318.4	323.4	327.1	331.4	336.4	341.3
167.5°	306.7	307.2	309.6	311.3	314.2	318.3	321.9	324.1	326.9	330.4	334.0
170°	309.1	309.7	311.6	312.8	314.7	317.7	320.8	322.1	323.9	326.5	329.5
172.5°	311.6	311.7	313.1	313.8	315.1	317.3	319.9	320.1	321.0	323.0	325.6
175°	314.0	314.0	314.7	315.3	315.3	316.6	318.4	317.7	317.7	319.0	320.3
177.5°	315.3	314.8	315.3	315.3	315.3	315.8	316.8	315.8	315.8	316.2	316.8
180°	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3



TEST NUMBER: P332969-927

CATALOG NUMBER: S124RDIP-S1020D810U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1425.8	1427.6	1428.9	1433.3	1433.7	1437.7	1433.7
5°	1543.8	1551.5	1563.5	1575.6	1576.7	1584.3	1570.7
7.5°	1676.1	1693.8	1704.9	1724.4	1732.1	1736.9	1729.0
10°	1767.2	1783.7	1812.7	1826.9	1841.2	1843.3	1836.8
12.5°	1855.3	1881.4	1904.2	1931.2	1930.5	1949.8	1942.8
15°	1972.6	1999.5	2031.2	2061.3	2072.3	2072.3	2081.1
17.5°	2056.3	2105.5	2138.3	2161.9	2187.8	2192.3	2189.3
20°	2112.8	2165.9	2201.0	2231.7	2249.2	2254.1	2254.1
22.5°	2154.8	2200.0	2234.3	2261.8	2276.3	2282.1	2280.4
25°	2184.0	2222.9	2243.7	2251.9	2255.7	2254.6	2244.3
27.5°	2144.1	2142.4	2129.2	2104.0	2085.1	2073.6	2060.5
30°	2067.9	2039.4	2006.5	1970.4	1923.9	1888.2	1877.3
32.5°	1954.4	1890.5	1834.8	1774.6	1724.5	1688.9	1674.0
35°	1735.0	1633.6	1550.9	1478.6	1426.1	1393.2	1382.3
37.5°	1474.5	1376.4	1274.1	1204.0	1160.3	1127.1	1114.8
40°	1308.8	1202.1	1112.8	1047.1	1002.2	969.9	969.3
42.5°	1157.7	1055.7	971.8	924.4	876.0	854.6	854.5
45°	947.9	866.3	795.2	758.0	728.9	711.4	706.5
47.5°	784.9	717.4	669.9	640.3	616.6	605.5	598.3
50°	693.3	634.1	596.4	570.6	557.5	543.3	542.2
52.5°	617.1	569.3	539.9	519.0	502.3	493.8	494.0
55°	518.6	480.9	460.0	444.1	431.0	424.5	421.7
57.5°	436.9	408.5	393.4	378.8	373.3	368.1	366.7
60°	386.1	366.9	352.7	341.2	333.0	331.3	330.7
62.5°	344.0	324.0	314.1	305.2	299.2	296.7	295.7
65°	283.7	268.9	260.2	253.0	250.8	247.0	246.4
67.5°	228.7	219.8	214.0	209.1	206.1	205.9	205.9
70°	195.0	190.0	185.1	182.4	180.7	179.6	179.6
72.5°	166.0	162.4	158.4	156.9	156.6	155.5	155.1
75°	126.5	122.7	123.2	120.5	118.3	115.6	113.9
77.5°	89.7	87.0	86.4	86.1	84.2	83.9	84.8
80°	69.6	66.8	66.2	66.8	66.2	64.6	64.6
82.5°	52.9	50.6	50.1	49.7	49.2	49.7	48.9
85°	28.4	27.4	27.4	27.4	28.4	28.0	27.4
87.5°	12.4	12.1	12.5	12.3	12.4	11.8	12.3
90°	11.8	12.4	12.4	13.0	13.6	13.0	13.0
92.5°	91.6	72.9	60.4	53.2	49.8	47.7	47.7
95°	363.0	280.0	219.9	189.6	170.3	159.2	151.1
97.5°	642.5	581.9	517.2	472.8	435.5	416.8	404.0
100°	759.4	729.0	683.3	629.3	591.5	573.0	568.0
102.5°	805.0	813.8	794.7	761.7	734.3	714.7	710.7
105°	800.9	862.2	887.6	888.9	883.9	875.3	871.6
107.5°	737.1	823.5	878.7	909.3	923.4	929.6	931.2
110°	687.5	777.4	845.5	889.5	915.5	926.7	932.2



TEST NUMBER: P332969-927

CATALOG NUMBER: S124RDIP-S1020D810U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	644.0	728.8	796.9	846.8	878.4	894.0	903.0
115°	594.1	666.5	726.0	774.9	812.1	831.9	836.9
117.5°	565.5	622.5	673.0	714.7	745.9	766.0	769.8
120°	553.2	602.7	646.7	682.0	709.2	725.3	732.1
122.5°	545.2	590.3	628.8	658.7	682.0	695.6	702.4
125°	532.7	575.4	609.5	634.3	652.3	664.0	667.7
127.5°	517.9	560.5	592.9	617.8	633.8	643.7	647.5
130°	506.0	548.2	581.0	606.4	621.9	631.8	635.6
132.5°	492.7	533.9	566.6	591.5	609.0	618.5	622.2
135°	472.6	510.4	541.4	566.2	583.5	593.4	597.1
137.5°	453.4	485.3	513.3	536.4	553.5	561.7	566.2
140°	441.0	468.9	495.0	516.6	530.2	538.9	543.8
142.5°	430.6	454.6	477.1	496.3	508.9	516.6	520.1
145°	416.3	434.8	452.2	467.7	478.2	484.4	487.5
147.5°	403.9	418.7	432.4	443.8	452.8	457.5	458.6
150°	396.4	408.8	419.9	429.9	437.9	441.6	442.3
152.5°	389.0	400.4	409.6	418.0	424.5	426.7	427.4
155°	378.5	387.8	395.2	401.4	406.3	408.2	408.2
157.5°	368.0	375.9	381.8	386.5	390.2	391.3	391.3
160°	361.2	368.0	372.9	376.6	380.3	381.0	381.0
162.5°	354.7	360.0	364.5	367.2	370.9	371.5	371.1
165°	345.0	349.4	352.4	354.9	357.4	356.8	356.2
167.5°	336.8	340.3	342.1	343.4	345.0	344.9	344.4
170°	331.4	333.9	335.7	337.0	337.5	337.0	337.0
172.5°	326.9	328.4	329.8	330.5	331.1	330.5	329.5
175°	320.8	322.1	322.1	322.1	323.4	322.1	320.8
177.5°	317.3	317.3	317.7	317.3	317.7	316.8	315.8
180°	315.3	315.3	315.3	315.3	315.3	315.3	315.3

(END OF REPORT)