

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: P332374-930

Luminaire Tested: **S123RDIP-S1165D805U930-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332374-930
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-S1165D805U930-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 805 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6098.5 lumens
Efficiency: N/A
Efficacy: 100.5 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-Direct

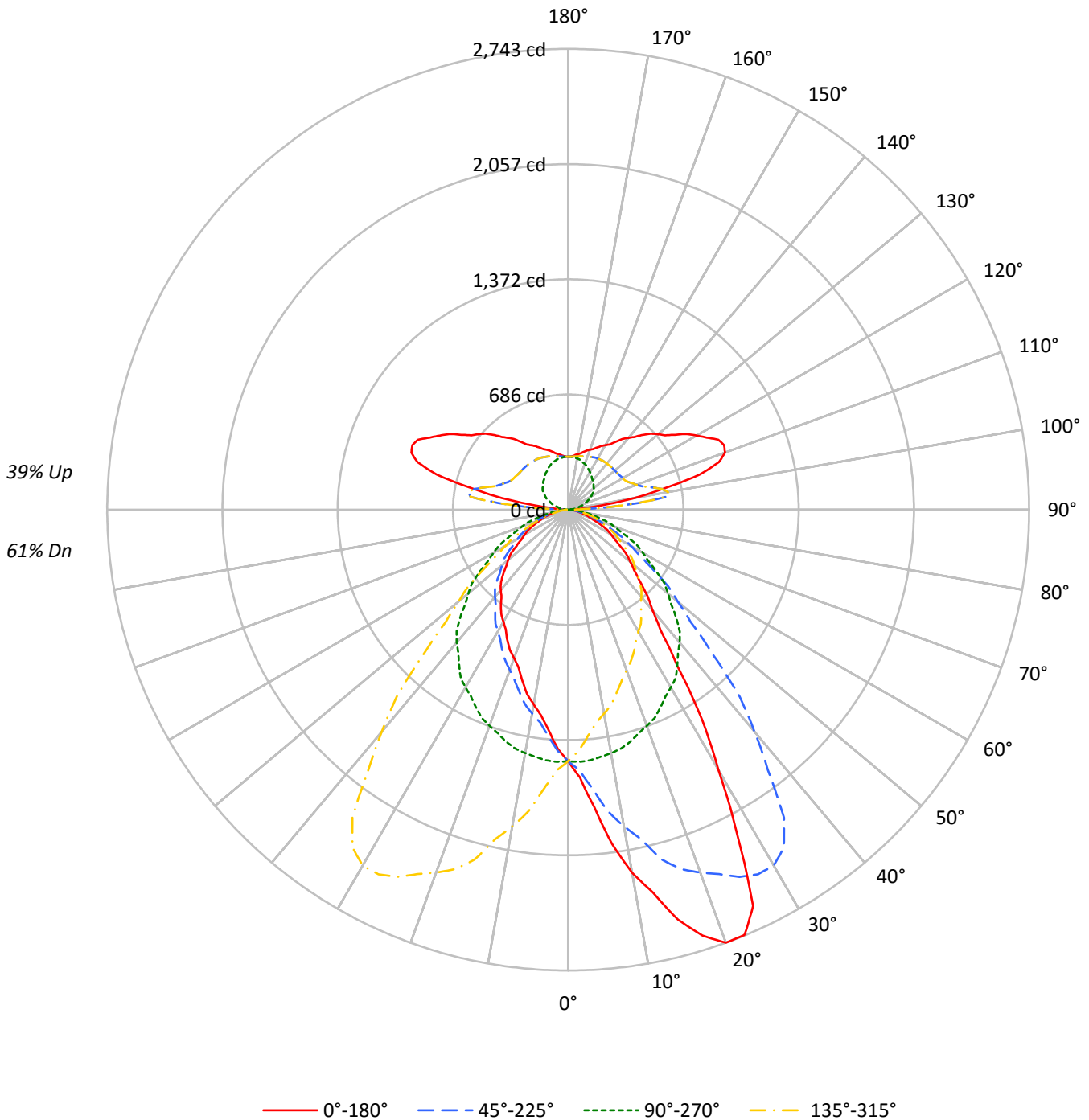
Input Watts (W): 60.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	110	110	110	103	103	103	103	90	90	90	77	77	77	66	66	66	61
1	101	97	93	90	94	91	88	85	80	77	75	69	68	66	60	59	57	53
2	93	85	80	75	86	80	75	71	71	67	63	62	59	56	53	51	50	46
3	85	76	69	63	79	71	65	60	63	58	54	55	52	48	48	45	43	39
4	78	68	60	54	73	64	57	52	56	51	47	50	45	42	43	40	38	34
5	72	61	53	47	67	57	50	45	51	45	41	45	40	37	39	36	33	30
6	67	55	47	41	62	52	45	39	46	40	36	41	36	33	36	32	30	27
7	62	50	42	36	58	47	40	35	42	36	32	37	33	29	33	29	27	24
8	57	45	38	32	54	43	36	31	39	33	29	34	30	26	30	27	24	22
9	54	41	34	29	50	39	33	28	35	30	26	32	27	24	28	24	22	20
10	50	38	31	26	47	36	30	25	33	27	23	29	25	22	26	23	20	18

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	2.4
10°-20°	459.9	7.5
20°-30°	722.5	11.8
30°-40°	753.8	12.4
40°-50°	645.1	10.6
50°-60°	491.7	8.1
60°-70°	315.1	5.2
70°-80°	151.6	2.5
80°-90°	42.6	0.7
90°-100°	175.2	2.9
100°-110°	496.2	8.1
110°-120°	488.1	8.0
120°-130°	389.3	6.4
130°-140°	307.0	5.0
140°-150°	229.1	3.8
150°-160°	159.7	2.6
160°-170°	93.8	1.5
170°-180°	30.5	0.5
0°-30°	1329.6	21.8
0°-40°	2083.4	34.2
0°-60°	3220.2	52.8
0°-90°	3729.5	61.2
90°-120°	1159.6	19.0
90°-150°	2085.0	34.2
90°-180°	2369.0	38.8
0°-180°	6098.5	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	25
90°	18	1	18	1	18	10
95°	74	22	74	22	74	133
105°	811	74	811	74	811	800
115°	986	131	986	131	986	958
125°	778	182	778	182	778	705
135°	630	213	630	213	630	489
145°	493	243	493	243	493	313
155°	408	276	408	276	408	191
165°	356	302	356	302	356	102
175°	321	314	321	314	321	31
180°	315	315	315	315	315	



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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°	8.8	9.9	8.8	9.2	9.4	9.6	9.5	9.4	10.3	9.9	9.9
90°	18.5	19.2	18.5	17.9	18.5	17.2	16.6	15.9	15.3	15.9	14.0
92.5°	30.7	31.9	31.2	33.2	34.3	37.6	42.6	53.6	73.9	98.0	107.9
95°	73.9	76.5	81.0	86.7	98.8	121.7	155.6	229.5	306.6	378.0	336.6
97.5°	201.3	206.8	224.0	252.7	299.7	375.9	458.2	572.0	626.7	585.8	428.8
100°	399.7	399.0	423.9	470.4	534.8	625.3	699.9	751.5	729.2	603.6	408.0
102.5°	586.3	601.0	621.7	658.6	708.7	766.1	809.5	811.1	734.3	570.5	377.3
105°	810.8	814.0	834.4	858.6	887.9	904.5	892.3	828.7	695.5	512.5	339.7
107.5°	940.0	945.9	952.8	961.0	960.4	937.8	881.9	778.4	627.4	461.2	315.8
110°	993.1	994.3	995.6	990.5	972.7	928.1	847.7	730.5	584.5	432.2	306.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1003.8	1003.6	998.7	982.9	950.2	892.9	802.9	683.1	547.3	412.8	301.5
115°	986.1	982.9	970.1	942.1	894.3	824.8	731.1	620.2	502.3	392.0	299.6
117.5°	929.8	925.4	907.0	874.9	825.1	754.6	670.4	574.7	475.2	379.8	300.8
120°	882.8	879.0	863.7	828.0	777.6	713.3	636.7	550.7	460.9	374.1	302.8
122.5°	838.9	834.1	817.3	785.1	740.5	680.6	609.8	531.9	449.1	370.6	306.3
125°	777.6	773.1	757.2	729.2	688.4	637.4	576.3	506.7	434.1	365.9	311.7
127.5°	727.2	723.1	708.7	684.7	648.4	602.0	546.7	484.9	420.9	363.6	317.8
130°	698.6	693.5	680.1	657.2	623.4	580.1	528.4	471.1	413.7	362.1	321.9
132.5°	670.6	667.0	655.2	632.2	600.5	559.1	511.1	458.3	407.1	361.5	325.0
135°	630.4	625.9	614.5	595.3	564.1	527.7	486.3	441.1	398.4	360.8	329.5
137.5°	588.0	585.1	575.4	556.0	529.7	498.2	462.5	425.4	390.9	359.4	332.6
140°	558.4	559.1	548.8	531.0	506.7	479.3	448.7	416.2	386.3	358.9	334.7
142.5°	530.8	531.5	522.3	506.5	485.8	462.0	435.5	407.6	382.2	357.8	336.1
145°	492.7	491.5	486.3	473.0	457.1	438.5	418.2	397.1	376.7	356.3	337.2
147.5°	461.4	460.9	456.0	446.9	434.9	421.8	405.3	388.6	371.4	353.9	337.2
150°	443.0	443.0	439.2	432.2	422.6	410.5	397.1	382.5	367.8	351.9	337.2
152.5°	427.7	427.7	425.4	418.9	411.4	401.3	389.5	376.8	363.7	349.3	335.7
155°	408.5	408.0	406.7	401.5	395.8	388.2	378.6	368.4	357.6	344.9	334.0
157.5°	391.1	391.3	390.2	386.4	381.4	375.4	368.0	359.5	350.7	340.9	331.8
160°	379.9	380.5	380.5	376.7	372.3	367.8	361.4	354.4	346.1	337.9	330.8
162.5°	369.7	370.3	370.3	367.0	364.1	360.1	354.2	348.3	341.5	334.8	328.8
165°	356.3	356.3	356.9	354.4	351.9	348.7	344.2	340.4	335.3	330.2	325.7
167.5°	343.6	343.6	344.2	342.4	341.3	339.0	336.4	333.5	329.3	325.6	322.7
170°	335.9	335.9	336.6	335.3	334.7	333.4	330.8	328.9	325.7	322.5	320.7
172.5°	328.8	329.3	330.4	329.1	329.1	328.2	326.2	324.8	322.1	320.0	319.1
175°	320.7	321.2	321.9	321.2	321.2	321.2	320.0	319.4	318.0	316.8	316.8
177.5°	315.9	315.9	316.9	316.4	316.9	316.9	316.4	315.9	315.4	314.9	315.4
180°	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9



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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°	10.6	9.7	10.4	10.1	11.4	11.5	14.3	16.6	17.4	15.7	16.0
90°	12.1	10.2	8.3	7.0	5.7	3.8	2.5	1.3	2.5	3.8	5.7
92.5°	81.0	53.6	36.9	27.4	22.1	17.1	11.7	7.9	11.7	17.1	22.1
95°	232.0	137.1	82.8	58.0	41.4	30.6	23.6	21.7	23.6	30.6	41.4
97.5°	254.6	147.5	95.7	68.8	52.5	43.1	37.6	36.9	37.6	43.1	52.5
100°	240.3	145.9	101.3	76.5	61.2	52.3	47.8	47.2	47.8	52.3	61.2
102.5°	228.0	148.0	107.9	85.2	71.4	62.9	59.0	57.9	59.0	62.9	71.4
105°	219.2	153.6	119.2	99.5	87.3	79.7	75.8	73.9	75.8	79.7	87.3
107.5°	218.7	164.0	133.9	115.5	104.1	96.6	92.9	91.0	92.9	96.6	104.1
110°	221.2	172.8	144.1	126.2	115.4	108.4	105.2	103.3	105.2	108.4	115.4



TEST NUMBER: P332374-930

CATALOG NUMBER: S123RDIP-S1165D805U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	226.2	181.4	154.7	137.5	126.6	119.6	116.4	114.5	116.4	119.6	126.6
115°	234.6	195.7	171.5	154.3	143.4	137.1	133.2	130.7	133.2	137.1	143.4
117.5°	245.6	210.8	186.9	171.0	158.8	153.0	149.8	146.8	149.8	153.0	158.8
120°	253.7	220.5	197.6	181.6	169.6	163.1	160.0	158.1	160.0	163.1	169.6
122.5°	261.3	230.7	208.3	191.4	179.8	172.8	169.7	167.8	169.7	172.8	179.8
125°	273.5	245.4	223.1	205.9	193.8	186.8	183.0	181.6	183.0	186.8	193.8
127.5°	283.4	258.1	236.6	219.4	206.0	198.9	194.1	192.2	194.1	198.9	206.0
130°	290.0	265.8	244.8	227.6	214.2	206.5	200.8	198.9	200.8	206.5	214.2
132.5°	296.1	272.4	251.9	235.2	221.8	212.6	206.4	204.0	206.4	212.6	221.8
135°	304.0	282.3	262.6	245.4	232.0	222.5	215.5	212.9	215.5	222.5	232.0
137.5°	309.9	289.3	270.3	254.3	241.1	230.9	224.0	221.3	224.0	230.9	241.1
140°	313.0	293.8	275.3	259.4	246.7	236.5	230.1	226.9	230.1	236.5	246.7
142.5°	316.0	297.4	279.4	264.6	251.8	242.6	235.7	233.0	235.7	242.6	251.8
145°	319.4	302.1	285.6	270.9	260.1	250.5	244.8	242.9	244.8	250.5	260.1
147.5°	321.4	306.0	290.8	278.3	267.8	259.6	254.0	252.8	254.0	259.6	267.8
150°	321.9	308.5	293.8	282.3	273.5	265.1	260.1	259.4	260.1	265.1	273.5
152.5°	322.9	310.1	297.4	286.4	278.6	271.3	266.2	266.0	266.2	271.3	278.6
155°	323.2	313.0	302.1	293.2	286.2	279.8	276.0	276.0	276.0	279.8	286.2
157.5°	323.8	314.6	306.0	299.1	293.1	287.5	284.4	283.9	284.4	287.5	293.1
160°	323.8	316.2	308.5	302.1	297.7	292.6	290.0	290.0	290.0	292.6	297.7
162.5°	323.3	316.7	310.1	304.7	300.8	296.7	294.6	294.6	294.6	296.7	300.8
165°	321.9	317.4	312.3	307.9	305.3	302.1	300.8	301.5	300.8	302.1	305.3
167.5°	320.9	317.3	313.6	310.8	309.0	306.6	306.0	306.7	306.0	306.6	309.0
170°	319.4	316.8	313.6	312.3	311.0	309.2	308.5	309.8	308.5	309.2	311.0
172.5°	318.9	316.8	314.1	313.3	312.6	311.2	311.0	311.9	311.0	311.2	312.6
175°	317.4	316.2	314.9	314.2	314.2	313.0	313.6	314.2	313.6	313.0	314.2
177.5°	316.4	315.4	314.9	314.9	314.9	314.4	314.9	315.4	314.9	314.4	314.9
180°	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9



TEST NUMBER: P332374-930

CATALOG NUMBER: S123RDIP-S1165D805U930-4F0-1E-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°	15.7	17.5	18.4	19.3	20.2	20.1	20.5	20.6	21.3	21.4	21.6
90°	7.0	8.3	10.2	12.1	14.0	15.9	15.3	15.9	16.6	17.2	18.5
92.5°	27.4	36.9	53.6	81.0	107.9	98.0	73.9	53.6	42.6	37.6	34.3
95°	58.0	82.8	137.1	232.0	336.6	378.0	306.6	229.5	155.6	121.7	98.8
97.5°	68.8	95.7	147.5	254.6	428.8	585.8	626.7	572.0	458.2	375.9	299.7
100°	76.5	101.3	145.9	240.3	408.0	603.6	729.2	751.5	699.9	625.3	534.8
102.5°	85.2	107.9	148.0	228.0	377.3	570.5	734.3	811.1	809.5	766.1	708.7
105°	99.5	119.2	153.6	219.2	339.7	512.5	695.5	828.7	892.3	904.5	887.9
107.5°	115.5	133.9	164.0	218.7	315.8	461.2	627.4	778.4	881.9	937.8	960.4
110°	126.2	144.1	172.8	221.2	306.6	432.2	584.5	730.5	847.7	928.1	972.7



TEST NUMBER: P332374-930

CATALOG NUMBER: S123RDIP-S1165D805U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	137.5	154.7	181.4	226.2	301.5	412.8	547.3	683.1	802.9	892.9	950.2
115°	154.3	171.5	195.7	234.6	299.6	392.0	502.3	620.2	731.1	824.8	894.3
117.5°	171.0	186.9	210.8	245.6	300.8	379.8	475.2	574.7	670.4	754.6	825.1
120°	181.6	197.6	220.5	253.7	302.8	374.1	460.9	550.7	636.7	713.3	777.6
122.5°	191.4	208.3	230.7	261.3	306.3	370.6	449.1	531.9	609.8	680.6	740.5
125°	205.9	223.1	245.4	273.5	311.7	365.9	434.1	506.7	576.3	637.4	688.4
127.5°	219.4	236.6	258.1	283.4	317.8	363.6	420.9	484.9	546.7	602.0	648.4
130°	227.6	244.8	265.8	290.0	321.9	362.1	413.7	471.1	528.4	580.1	623.4
132.5°	235.2	251.9	272.4	296.1	325.0	361.5	407.1	458.3	511.1	559.1	600.5
135°	245.4	262.6	282.3	304.0	329.5	360.8	398.4	441.1	486.3	527.7	564.1
137.5°	254.3	270.3	289.3	309.9	332.6	359.4	390.9	425.4	462.5	498.2	529.7
140°	259.4	275.3	293.8	313.0	334.7	358.9	386.3	416.2	448.7	479.3	506.7
142.5°	264.6	279.4	297.4	316.0	336.1	357.8	382.2	407.6	435.5	462.0	485.8
145°	270.9	285.6	302.1	319.4	337.2	356.3	376.7	397.1	418.2	438.5	457.1
147.5°	278.3	290.8	306.0	321.4	337.2	353.9	371.4	388.6	405.3	421.8	434.9
150°	282.3	293.8	308.5	321.9	337.2	351.9	367.8	382.5	397.1	410.5	422.6
152.5°	286.4	297.4	310.1	322.9	335.7	349.3	363.7	376.8	389.5	401.3	411.4
155°	293.2	302.1	313.0	323.2	334.0	344.9	357.6	368.4	378.6	388.2	395.8
157.5°	299.1	306.0	314.6	323.8	331.8	340.9	350.7	359.5	368.0	375.4	381.4
160°	302.1	308.5	316.2	323.8	330.8	337.9	346.1	354.4	361.4	367.8	372.3
162.5°	304.7	310.1	316.7	323.3	328.8	334.8	341.5	348.3	354.2	360.1	364.1
165°	307.9	312.3	317.4	321.9	325.7	330.2	335.3	340.4	344.2	348.7	351.9
167.5°	310.8	313.6	317.3	320.9	322.7	325.6	329.3	333.5	336.4	339.0	341.3
170°	312.3	313.6	316.8	319.4	320.7	322.5	325.7	328.9	330.8	333.4	334.7
172.5°	313.3	314.1	316.8	318.9	319.1	320.0	322.1	324.8	326.2	328.2	329.1
175°	314.2	314.9	316.2	317.4	316.8	316.8	318.0	319.4	320.0	321.2	321.2
177.5°	314.9	314.9	315.4	316.4	315.4	314.9	315.4	315.9	316.4	316.9	316.9
180°	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9



TEST NUMBER: P332374-930

CATALOG NUMBER: S123RDIP-S1165D805U930-4F0-1E-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°	22.5	21.6	21.8	22.2	21.8	21.6	22.5	21.6	21.4	21.3	20.6
90°	17.9	18.5	19.2	18.5	19.2	18.5	17.9	18.5	17.2	16.6	15.9
92.5°	33.2	31.2	31.9	30.7	31.9	31.2	33.2	34.3	37.6	42.6	53.6
95°	86.7	81.0	76.5	73.9	76.5	81.0	86.7	98.8	121.7	155.6	229.5
97.5°	252.7	224.0	206.8	201.3	206.8	224.0	252.7	299.7	375.9	458.2	572.0
100°	470.4	423.9	399.0	399.7	399.0	423.9	470.4	534.8	625.3	699.9	751.5
102.5°	658.6	621.7	601.0	586.3	601.0	621.7	658.6	708.7	766.1	809.5	811.1
105°	858.6	834.4	814.0	810.8	814.0	834.4	858.6	887.9	904.5	892.3	828.7
107.5°	961.0	952.8	945.9	940.0	945.9	952.8	961.0	960.4	937.8	881.9	778.4
110°	990.5	995.6	994.3	993.1	994.3	995.6	990.5	972.7	928.1	847.7	730.5



TEST NUMBER: P332374-930

CATALOG NUMBER: S123RDIP-S1165D805U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	982.9	998.7	1003.6	1003.8	1003.6	998.7	982.9	950.2	892.9	802.9	683.1
115°	942.1	970.1	982.9	986.1	982.9	970.1	942.1	894.3	824.8	731.1	620.2
117.5°	874.9	907.0	925.4	929.8	925.4	907.0	874.9	825.1	754.6	670.4	574.7
120°	828.0	863.7	879.0	882.8	879.0	863.7	828.0	777.6	713.3	636.7	550.7
122.5°	785.1	817.3	834.1	838.9	834.1	817.3	785.1	740.5	680.6	609.8	531.9
125°	729.2	757.2	773.1	777.6	773.1	757.2	729.2	688.4	637.4	576.3	506.7
127.5°	684.7	708.7	723.1	727.2	723.1	708.7	684.7	648.4	602.0	546.7	484.9
130°	657.2	680.1	693.5	698.6	693.5	680.1	657.2	623.4	580.1	528.4	471.1
132.5°	632.2	655.2	667.0	670.6	667.0	655.2	632.2	600.5	559.1	511.1	458.3
135°	595.3	614.5	625.9	630.4	625.9	614.5	595.3	564.1	527.7	486.3	441.1
137.5°	556.0	575.4	585.1	588.0	585.1	575.4	556.0	529.7	498.2	462.5	425.4
140°	531.0	548.8	559.1	558.4	559.1	548.8	531.0	506.7	479.3	448.7	416.2
142.5°	506.5	522.3	531.5	530.8	531.5	522.3	506.5	485.8	462.0	435.5	407.6
145°	473.0	486.3	491.5	492.7	491.5	486.3	473.0	457.1	438.5	418.2	397.1
147.5°	446.9	456.0	460.9	461.4	460.9	456.0	446.9	434.9	421.8	405.3	388.6
150°	432.2	439.2	443.0	443.0	443.0	439.2	432.2	422.6	410.5	397.1	382.5
152.5°	418.9	425.4	427.7	427.7	427.7	425.4	418.9	411.4	401.3	389.5	376.8
155°	401.5	406.7	408.0	408.5	408.0	406.7	401.5	395.8	388.2	378.6	368.4
157.5°	386.4	390.2	391.3	391.1	391.3	390.2	386.4	381.4	375.4	368.0	359.5
160°	376.7	380.5	380.5	379.9	380.5	380.5	376.7	372.3	367.8	361.4	354.4
162.5°	367.0	370.3	370.3	369.7	370.3	370.3	367.0	364.1	360.1	354.2	348.3
165°	354.4	356.9	356.3	356.3	356.3	356.9	354.4	351.9	348.7	344.2	340.4
167.5°	342.4	344.2	343.6	343.6	343.6	344.2	342.4	341.3	339.0	336.4	333.5
170°	335.3	336.6	335.9	335.9	335.9	336.6	335.3	334.7	333.4	330.8	328.9
172.5°	329.1	330.4	329.3	328.8	329.3	330.4	329.1	329.1	328.2	326.2	324.8
175°	321.2	321.9	321.2	320.7	321.2	321.9	321.2	321.2	321.2	320.0	319.4
177.5°	316.4	316.9	315.9	315.9	315.9	316.9	316.4	316.9	316.9	316.4	315.9
180°	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9



TEST NUMBER: P332374-930

CATALOG NUMBER: S123RDIP-S1165D805U930-4F0-1E-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°	20.5	20.1	20.2	19.3	18.4	17.5	15.7	16.0	15.7	17.4	16.6
90°	15.3	15.9	14.0	12.1	10.2	8.3	7.0	5.7	3.8	2.5	1.3
92.5°	73.9	98.0	107.9	81.0	53.6	36.9	27.4	22.1	17.1	11.7	7.9
95°	306.6	378.0	336.6	232.0	137.1	82.8	58.0	41.4	30.6	23.6	21.7
97.5°	626.7	585.8	428.8	254.6	147.5	95.7	68.8	52.5	43.1	37.6	36.9
100°	729.2	603.6	408.0	240.3	145.9	101.3	76.5	61.2	52.3	47.8	47.2
102.5°	734.3	570.5	377.3	228.0	148.0	107.9	85.2	71.4	62.9	59.0	57.9
105°	695.5	512.5	339.7	219.2	153.6	119.2	99.5	87.3	79.7	75.8	73.9
107.5°	627.4	461.2	315.8	218.7	164.0	133.9	115.5	104.1	96.6	92.9	91.0
110°	584.5	432.2	306.6	221.2	172.8	144.1	126.2	115.4	108.4	105.2	103.3



TEST NUMBER: P332374-930

CATALOG NUMBER: S123RDIP-S1165D805U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	547.3	412.8	301.5	226.2	181.4	154.7	137.5	126.6	119.6	116.4	114.5
115°	502.3	392.0	299.6	234.6	195.7	171.5	154.3	143.4	137.1	133.2	130.7
117.5°	475.2	379.8	300.8	245.6	210.8	186.9	171.0	158.8	153.0	149.8	146.8
120°	460.9	374.1	302.8	253.7	220.5	197.6	181.6	169.6	163.1	160.0	158.1
122.5°	449.1	370.6	306.3	261.3	230.7	208.3	191.4	179.8	172.8	169.7	167.8
125°	434.1	365.9	311.7	273.5	245.4	223.1	205.9	193.8	186.8	183.0	181.6
127.5°	420.9	363.6	317.8	283.4	258.1	236.6	219.4	206.0	198.9	194.1	192.2
130°	413.7	362.1	321.9	290.0	265.8	244.8	227.6	214.2	206.5	200.8	198.9
132.5°	407.1	361.5	325.0	296.1	272.4	251.9	235.2	221.8	212.6	206.4	204.0
135°	398.4	360.8	329.5	304.0	282.3	262.6	245.4	232.0	222.5	215.5	212.9
137.5°	390.9	359.4	332.6	309.9	289.3	270.3	254.3	241.1	230.9	224.0	221.3
140°	386.3	358.9	334.7	313.0	293.8	275.3	259.4	246.7	236.5	230.1	226.9
142.5°	382.2	357.8	336.1	316.0	297.4	279.4	264.6	251.8	242.6	235.7	233.0
145°	376.7	356.3	337.2	319.4	302.1	285.6	270.9	260.1	250.5	244.8	242.9
147.5°	371.4	353.9	337.2	321.4	306.0	290.8	278.3	267.8	259.6	254.0	252.8
150°	367.8	351.9	337.2	321.9	308.5	293.8	282.3	273.5	265.1	260.1	259.4
152.5°	363.7	349.3	335.7	322.9	310.1	297.4	286.4	278.6	271.3	266.2	266.0
155°	357.6	344.9	334.0	323.2	313.0	302.1	293.2	286.2	279.8	276.0	276.0
157.5°	350.7	340.9	331.8	323.8	314.6	306.0	299.1	293.1	287.5	284.4	283.9
160°	346.1	337.9	330.8	323.8	316.2	308.5	302.1	297.7	292.6	290.0	290.0
162.5°	341.5	334.8	328.8	323.3	316.7	310.1	304.7	300.8	296.7	294.6	294.6
165°	335.3	330.2	325.7	321.9	317.4	312.3	307.9	305.3	302.1	300.8	301.5
167.5°	329.3	325.6	322.7	320.9	317.3	313.6	310.8	309.0	306.6	306.0	306.7
170°	325.7	322.5	320.7	319.4	316.8	313.6	312.3	311.0	309.2	308.5	309.8
172.5°	322.1	320.0	319.1	318.9	316.8	314.1	313.3	312.6	311.2	311.0	311.9
175°	318.0	316.8	316.8	317.4	316.2	314.9	314.2	314.2	313.0	313.6	314.2
177.5°	315.4	314.9	315.4	316.4	315.4	314.9	314.9	314.9	314.4	314.9	315.4
180°	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9



TEST NUMBER: P332374-930

CATALOG NUMBER: S123RDIP-S1165D805U930-4F0-1E-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°	14.3	11.5	11.4	10.1	10.4	9.7	10.6	9.9	9.9	10.3	9.4
90°	2.5	3.8	5.7	7.0	8.3	10.2	12.1	14.0	15.9	15.3	15.9
92.5°	11.7	17.1	22.1	27.4	36.9	53.6	81.0	107.9	98.0	73.9	53.6
95°	23.6	30.6	41.4	58.0	82.8	137.1	232.0	336.6	378.0	306.6	229.5
97.5°	37.6	43.1	52.5	68.8	95.7	147.5	254.6	428.8	585.8	626.7	572.0
100°	47.8	52.3	61.2	76.5	101.3	145.9	240.3	408.0	603.6	729.2	751.5
102.5°	59.0	62.9	71.4	85.2	107.9	148.0	228.0	377.3	570.5	734.3	811.1
105°	75.8	79.7	87.3	99.5	119.2	153.6	219.2	339.7	512.5	695.5	828.7
107.5°	92.9	96.6	104.1	115.5	133.9	164.0	218.7	315.8	461.2	627.4	778.4
110°	105.2	108.4	115.4	126.2	144.1	172.8	221.2	306.6	432.2	584.5	730.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	116.4	119.6	126.6	137.5	154.7	181.4	226.2	301.5	412.8	547.3	683.1
115°	133.2	137.1	143.4	154.3	171.5	195.7	234.6	299.6	392.0	502.3	620.2
117.5°	149.8	153.0	158.8	171.0	186.9	210.8	245.6	300.8	379.8	475.2	574.7
120°	160.0	163.1	169.6	181.6	197.6	220.5	253.7	302.8	374.1	460.9	550.7
122.5°	169.7	172.8	179.8	191.4	208.3	230.7	261.3	306.3	370.6	449.1	531.9
125°	183.0	186.8	193.8	205.9	223.1	245.4	273.5	311.7	365.9	434.1	506.7
127.5°	194.1	198.9	206.0	219.4	236.6	258.1	283.4	317.8	363.6	420.9	484.9
130°	200.8	206.5	214.2	227.6	244.8	265.8	290.0	321.9	362.1	413.7	471.1
132.5°	206.4	212.6	221.8	235.2	251.9	272.4	296.1	325.0	361.5	407.1	458.3
135°	215.5	222.5	232.0	245.4	262.6	282.3	304.0	329.5	360.8	398.4	441.1
137.5°	224.0	230.9	241.1	254.3	270.3	289.3	309.9	332.6	359.4	390.9	425.4
140°	230.1	236.5	246.7	259.4	275.3	293.8	313.0	334.7	358.9	386.3	416.2
142.5°	235.7	242.6	251.8	264.6	279.4	297.4	316.0	336.1	357.8	382.2	407.6
145°	244.8	250.5	260.1	270.9	285.6	302.1	319.4	337.2	356.3	376.7	397.1
147.5°	254.0	259.6	267.8	278.3	290.8	306.0	321.4	337.2	353.9	371.4	388.6
150°	260.1	265.1	273.5	282.3	293.8	308.5	321.9	337.2	351.9	367.8	382.5
152.5°	266.2	271.3	278.6	286.4	297.4	310.1	322.9	335.7	349.3	363.7	376.8
155°	276.0	279.8	286.2	293.2	302.1	313.0	323.2	334.0	344.9	357.6	368.4
157.5°	284.4	287.5	293.1	299.1	306.0	314.6	323.8	331.8	340.9	350.7	359.5
160°	290.0	292.6	297.7	302.1	308.5	316.2	323.8	330.8	337.9	346.1	354.4
162.5°	294.6	296.7	300.8	304.7	310.1	316.7	323.3	328.8	334.8	341.5	348.3
165°	300.8	302.1	305.3	307.9	312.3	317.4	321.9	325.7	330.2	335.3	340.4
167.5°	306.0	306.6	309.0	310.8	313.6	317.3	320.9	322.7	325.6	329.3	333.5
170°	308.5	309.2	311.0	312.3	313.6	316.8	319.4	320.7	322.5	325.7	328.9
172.5°	311.0	311.2	312.6	313.3	314.1	316.8	318.9	319.1	320.0	322.1	324.8
175°	313.6	313.0	314.2	314.2	314.9	316.2	317.4	316.8	316.8	318.0	319.4
177.5°	314.9	314.4	314.9	314.9	314.9	315.4	316.4	315.4	314.9	315.4	315.9
180°	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9



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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°	9.5	9.6	9.4	9.2	8.8	9.9	8.8
90°	16.6	17.2	18.5	17.9	18.5	19.2	18.5
92.5°	42.6	37.6	34.3	33.2	31.2	31.9	30.7
95°	155.6	121.7	98.8	86.7	81.0	76.5	73.9
97.5°	458.2	375.9	299.7	252.7	224.0	206.8	201.3
100°	699.9	625.3	534.8	470.4	423.9	399.0	399.7
102.5°	809.5	766.1	708.7	658.6	621.7	601.0	586.3
105°	892.3	904.5	887.9	858.6	834.4	814.0	810.8
107.5°	881.9	937.8	960.4	961.0	952.8	945.9	940.0
110°	847.7	928.1	972.7	990.5	995.6	994.3	993.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	802.9	892.9	950.2	982.9	998.7	1003.6	1003.8
115°	731.1	824.8	894.3	942.1	970.1	982.9	986.1
117.5°	670.4	754.6	825.1	874.9	907.0	925.4	929.8
120°	636.7	713.3	777.6	828.0	863.7	879.0	882.8
122.5°	609.8	680.6	740.5	785.1	817.3	834.1	838.9
125°	576.3	637.4	688.4	729.2	757.2	773.1	777.6
127.5°	546.7	602.0	648.4	684.7	708.7	723.1	727.2
130°	528.4	580.1	623.4	657.2	680.1	693.5	698.6
132.5°	511.1	559.1	600.5	632.2	655.2	667.0	670.6
135°	486.3	527.7	564.1	595.3	614.5	625.9	630.4
137.5°	462.5	498.2	529.7	556.0	575.4	585.1	588.0
140°	448.7	479.3	506.7	531.0	548.8	559.1	558.4
142.5°	435.5	462.0	485.8	506.5	522.3	531.5	530.8
145°	418.2	438.5	457.1	473.0	486.3	491.5	492.7
147.5°	405.3	421.8	434.9	446.9	456.0	460.9	461.4
150°	397.1	410.5	422.6	432.2	439.2	443.0	443.0
152.5°	389.5	401.3	411.4	418.9	425.4	427.7	427.7
155°	378.6	388.2	395.8	401.5	406.7	408.0	408.5
157.5°	368.0	375.4	381.4	386.4	390.2	391.3	391.1
160°	361.4	367.8	372.3	376.7	380.5	380.5	379.9
162.5°	354.2	360.1	364.1	367.0	370.3	370.3	369.7
165°	344.2	348.7	351.9	354.4	356.9	356.3	356.3
167.5°	336.4	339.0	341.3	342.4	344.2	343.6	343.6
170°	330.8	333.4	334.7	335.3	336.6	335.9	335.9
172.5°	326.2	328.2	329.1	329.1	330.4	329.3	328.8
175°	320.0	321.2	321.2	321.2	321.9	321.2	320.7
177.5°	316.4	316.9	316.9	316.4	316.9	315.9	315.9
180°	314.9	314.9	314.9	314.9	314.9	314.9	314.9

(END OF REPORT)