

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: P331737-930

Luminaire Tested: **S122RDIP-S1005D330U930-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331737-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122RDIP-S1005D330U930-4F0-1E-UDD-A4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 330 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4151.2 lumens  
Efficiency: N/A  
Efficacy: 83.4 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

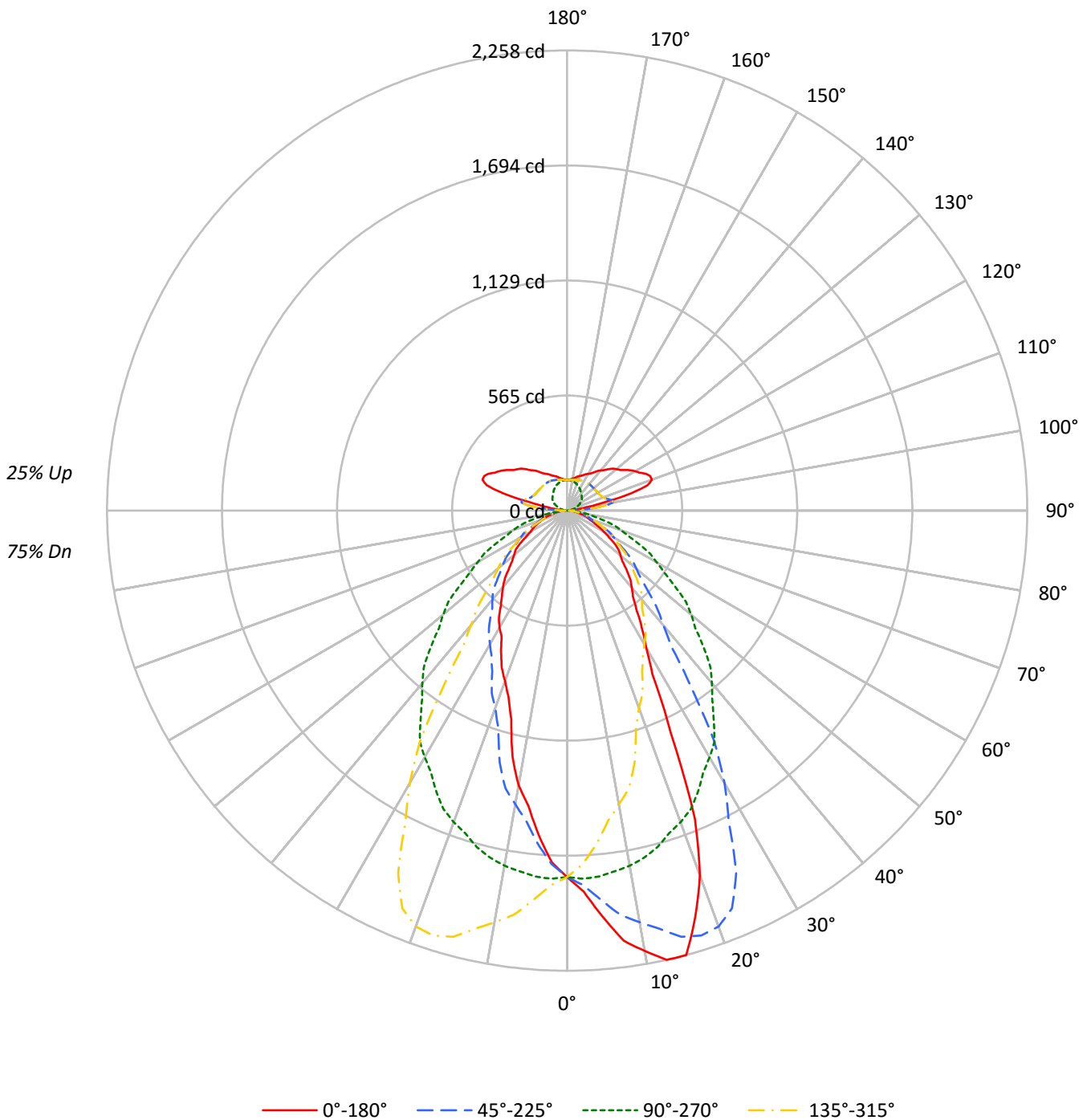
Input Watts (W): 49.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	104	100	97	94	99	96	93	90	87	85	82	79	77	75	72	70	69	65
2	96	89	83	79	91	85	80	76	78	74	70	71	68	65	65	62	60	57
3	89	80	73	67	84	76	70	65	70	65	61	64	60	57	58	55	53	50
4	82	72	64	58	78	69	62	56	63	57	53	58	53	50	53	50	47	44
5	76	65	57	51	72	62	55	50	57	51	47	53	48	44	49	45	42	39
6	70	59	51	45	67	57	49	44	52	46	42	48	43	40	45	41	37	35
7	66	54	46	41	63	52	45	40	48	42	38	45	39	36	41	37	34	32
8	61	49	42	37	59	48	41	36	44	38	34	41	36	32	38	34	31	29
9	58	46	38	33	55	44	37	33	41	35	31	38	33	30	36	31	28	26
10	54	42	35	30	52	41	34	30	38	32	29	36	31	27	33	29	26	24

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

	0°	90°	180°	270°
0°	29032	29032	29032	29032
5°	32423	29214	25901	29214
10°	35974	29009	22453	29009
15°	37742	28583	17690	28583
20°	32720	27953	15309	27953
25°	21458	27091	13668	27091
30°	14443	26045	12370	26045
35°	11698	24727	11158	24727
40°	10404	23294	10323	23294
45°	9417	21614	9216	21614
50°	8568	19947	8538	19947
55°	8056	18097	7949	18097
60°	6736	16401	6659	16401
65°	5681	14896	6445	14896
70°	5249	13303	6076	13303
75°	4916	11578	5608	11578
80°	4537	9530	4993	9530
85°	4168	7521	4390	7521



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.4	4.1
10°-20°	474.9	11.4
20°-30°	612.0	14.7
30°-40°	581.6	14.0
40°-50°	498.2	12.0
50°-60°	379.4	9.1
60°-70°	239.9	5.8
70°-80°	119.8	2.9
80°-90°	32.5	0.8
90°-100°	59.9	1.4
100°-110°	203.2	4.9
110°-120°	215.9	5.2
120°-130°	177.7	4.3
130°-140°	142.7	3.4
140°-150°	107.9	2.6
150°-160°	75.8	1.8
160°-170°	44.6	1.1
170°-180°	14.5	0.3
0°-30°	1257.4	30.3
0°-40°	1839.0	44.3
0°-60°	2716.7	65.4
0°-90°	3108.9	74.9
90°-120°	479.1	11.5
90°-150°	907.4	21.9
90°-180°	1042.0	25.1
0°-180°	4151.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1798	1798	1798	1798	1798	
5°	2000	1802	1598	1802	2000	197
15°	2258	1710	1058	1710	2258	609
25°	1204	1521	767	1521	1204	572
35°	594	1254	566	1254	594	380
45°	412	947	404	947	412	319
55°	286	643	282	643	286	251
65°	149	390	169	390	149	151
75°	79	186	90	186	79	84
85°	22	41	24	41	22	24
90°	10	0	10	0	10	6
95°	33	10	33	10	33	43
105°	325	35	325	35	325	314
115°	427	62	427	62	427	418
125°	347	86	347	86	347	313
135°	287	101	287	101	287	223
145°	229	116	229	116	229	146
155°	193	132	193	132	193	90
165°	169	144	169	144	169	48
175°	152	150	152	150	152	15
180°	150	150	150	150	150	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1
2.5°	1871.0	1872.6	1874.0	1870.5	1870.5	1867.5	1861.1	1856.0	1842.1	1840.0	1840.0
5°	2000.5	1999.3	2001.7	1993.7	1982.4	1979.9	1968.1	1952.4	1936.2	1918.1	1914.3
7.5°	2129.2	2127.4	2122.3	2121.0	2112.4	2093.4	2074.4	2054.0	2027.0	2000.7	1987.4
10°	2194.2	2214.8	2202.3	2180.4	2184.8	2155.5	2139.8	2113.0	2090.5	2051.1	2042.4
12.5°	2258.1	2266.3	2262.3	2249.9	2244.3	2223.9	2202.8	2179.5	2138.0	2102.6	2071.8
15°	2257.9	2269.8	2272.9	2269.1	2272.3	2271.0	2259.8	2240.4	2204.2	2165.4	2131.7
17.5°	2091.2	2099.5	2119.9	2133.8	2151.3	2188.3	2206.5	2213.7	2208.3	2186.2	2162.4
20°	1904.3	1890.5	1948.0	1977.4	2002.4	2064.8	2118.6	2139.2	2172.3	2171.7	2165.4
22.5°	1639.4	1642.7	1697.1	1732.0	1805.0	1867.4	1928.7	2006.3	2070.4	2112.7	2137.5
25°	1204.5	1228.3	1282.6	1330.2	1411.4	1527.5	1633.1	1755.6	1871.2	1962.4	2049.3
27.5°	904.7	906.4	949.5	993.4	1041.6	1136.9	1269.7	1416.0	1580.8	1716.8	1873.2
30°	774.7	770.9	789.0	816.0	857.2	930.9	1030.9	1174.6	1338.9	1543.8	1726.2
32.5°	682.7	683.0	696.6	716.5	750.7	800.5	868.9	985.6	1140.9	1342.4	1556.3
35°	593.5	592.9	602.9	617.3	631.6	663.5	710.4	771.6	878.4	1066.5	1285.2
37.5°	529.5	532.3	537.2	546.2	562.1	579.8	607.9	649.0	725.1	836.3	1020.1
40°	493.6	494.8	501.7	509.2	518.5	532.3	555.4	588.6	644.2	732.9	867.2
42.5°	460.6	461.9	466.7	473.7	481.1	494.8	514.0	542.6	587.7	656.9	767.7
45°	412.4	412.4	416.7	419.9	428.0	440.4	456.1	479.8	511.0	562.3	636.0
47.5°	367.1	367.2	370.1	375.5	380.6	390.4	405.7	425.1	447.8	487.5	550.4
50°	341.1	341.8	343.6	348.0	351.1	359.9	371.8	388.6	412.4	443.0	495.5
52.5°	320.2	319.8	322.1	324.0	326.1	332.4	341.3	356.1	377.3	404.0	447.4
55°	286.2	283.6	287.4	290.5	292.4	294.9	299.9	309.2	327.3	349.8	382.4
57.5°	243.7	242.6	245.3	248.2	254.0	260.8	265.1	271.0	280.4	296.5	328.7
60°	208.6	208.6	214.3	216.1	223.1	231.8	240.5	245.6	254.9	265.5	289.3
62.5°	177.7	178.2	180.8	182.7	186.5	197.3	209.5	220.5	229.4	239.5	255.3
65°	148.7	149.9	149.9	151.2	153.7	156.2	161.2	169.9	185.6	199.9	211.8
67.5°	126.2	126.6	126.9	128.2	128.8	131.6	133.5	137.5	141.0	154.7	169.4
70°	111.2	113.1	112.4	113.7	114.3	115.6	118.1	119.9	125.6	128.7	137.5
72.5°	97.2	98.6	98.5	99.2	100.9	101.1	103.1	104.9	108.6	111.2	115.9
75°	78.8	78.1	78.8	80.0	80.6	81.2	81.2	83.7	85.6	88.1	91.2
77.5°	60.7	61.4	61.2	61.4	61.5	62.6	62.5	63.6	65.5	66.7	68.2
80°	48.8	49.3	48.8	49.3	50.0	50.6	50.0	50.6	52.5	53.7	53.7
82.5°	37.7	37.8	38.2	38.4	38.5	38.6	39.5	39.6	41.0	40.8	41.3
85°	22.5	21.9	21.9	21.9	22.5	23.2	22.5	22.5	23.2	23.2	23.2
87.5°	9.9	10.4	10.4	10.4	10.4	10.4	10.2	10.8	10.4	10.9	10.4
90°	9.5	9.5	9.5	9.5	9.5	9.2	8.6	9.2	9.5	9.8	9.5
92.5°	16.0	16.4	16.2	17.1	17.4	19.2	21.5	25.1	31.6	37.4	36.9
95°	32.9	32.5	33.4	35.7	39.5	45.8	57.9	75.5	98.8	112.9	100.0
97.5°	64.7	67.1	71.3	78.4	92.1	112.9	144.1	176.1	202.2	192.7	145.2
100°	103.1	108.4	116.7	129.1	153.0	187.8	227.3	263.0	269.0	227.6	156.7
102.5°	181.5	188.5	198.9	220.0	246.1	283.0	311.9	319.9	293.9	228.7	152.3
105°	324.7	328.6	341.0	358.9	376.8	386.3	382.5	350.0	290.1	213.4	143.7
107.5°	414.7	420.0	422.6	423.5	421.3	407.3	377.4	328.3	264.8	197.1	139.5
110°	441.9	442.2	439.6	434.1	421.8	398.1	361.3	309.7	248.9	189.2	138.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	441.4	439.9	435.0	425.8	408.6	381.5	342.1	292.6	237.8	184.2	138.8
115°	427.2	424.6	417.1	403.9	383.4	353.8	316.0	271.7	224.1	178.6	140.0
117.5°	401.8	399.6	391.8	377.7	356.9	329.1	294.8	255.8	215.5	175.9	142.1
120°	385.5	382.5	374.2	360.7	340.5	314.3	283.7	248.0	210.8	174.3	143.5
122.5°	368.4	366.0	358.6	345.2	327.1	303.5	274.5	241.8	206.9	173.3	145.0
125°	346.6	344.2	337.0	326.1	309.4	287.8	262.4	232.8	201.4	171.7	147.5
127.5°	327.4	325.5	319.4	309.1	294.5	274.6	250.7	223.8	196.2	170.7	149.9
130°	316.6	314.3	308.5	298.7	284.6	265.6	242.9	218.1	192.7	170.2	151.8
132.5°	305.3	303.2	297.9	288.1	274.3	256.4	235.5	212.5	190.0	170.0	153.7
135°	287.2	286.1	280.9	271.3	258.9	242.9	223.8	204.8	186.1	169.7	155.9
137.5°	269.5	267.7	263.2	255.0	243.7	229.7	214.6	198.7	183.4	169.6	157.8
140°	257.2	255.5	251.2	243.7	234.5	221.8	208.6	194.7	181.7	169.4	158.7
142.5°	245.0	244.7	240.8	234.0	225.3	214.7	203.3	191.5	180.2	169.4	159.4
145°	229.3	228.4	225.6	220.6	213.8	205.4	196.5	186.9	178.1	168.8	160.1
147.5°	216.1	215.6	213.6	209.7	204.0	197.9	190.9	183.4	175.9	167.8	160.4
150°	208.3	208.0	206.3	202.8	198.4	193.3	187.3	180.9	174.0	167.1	160.1
152.5°	201.6	201.5	200.2	197.3	193.9	189.4	184.3	178.4	172.4	165.9	159.7
155°	192.7	193.3	192.2	190.1	186.9	183.8	179.4	174.9	169.4	163.9	159.0
157.5°	185.2	185.2	184.7	183.0	180.8	178.2	174.6	170.8	166.6	161.8	157.7
160°	180.3	180.3	180.0	178.6	176.6	174.6	171.4	168.2	164.4	160.5	157.0
162.5°	175.7	175.9	175.7	174.7	172.7	171.1	168.4	165.7	162.7	159.3	156.3
165°	169.1	169.4	169.4	168.2	167.1	165.9	163.9	161.9	159.6	157.0	155.0
167.5°	163.0	163.3	163.4	162.7	162.2	161.2	159.8	158.2	156.6	155.0	153.7
170°	159.3	159.9	160.1	159.3	159.0	158.4	157.3	156.5	155.0	153.8	153.0
172.5°	156.3	156.6	156.9	156.5	156.2	155.9	155.0	154.3	153.4	152.5	152.1
175°	152.4	153.0	153.3	153.0	153.0	152.7	152.4	152.1	151.2	150.9	150.7
177.5°	150.0	150.5	150.7	150.7	150.7	150.7	150.5	150.5	150.0	149.8	150.0
180°	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1
2.5°	1841.1	1837.0	1833.6	1824.6	1820.1	1810.0	1808.6	1808.1	1795.1	1782.6	1779.1
5°	1904.3	1894.3	1879.3	1861.8	1843.7	1825.0	1812.5	1802.5	1777.4	1753.7	1740.0
7.5°	1968.1	1946.5	1920.7	1887.6	1859.9	1829.0	1806.0	1785.3	1749.9	1715.9	1693.0
10°	2015.5	1980.5	1946.1	1900.5	1864.9	1829.9	1797.5	1769.4	1729.3	1684.4	1652.5
12.5°	2045.0	2006.5	1959.2	1914.6	1868.4	1824.0	1780.5	1744.3	1697.4	1650.9	1613.1
15°	2084.9	2043.6	1986.2	1922.4	1863.0	1805.0	1755.0	1710.0	1648.8	1593.2	1546.9
17.5°	2117.5	2060.8	1999.0	1925.3	1856.6	1782.7	1718.4	1660.9	1592.8	1525.7	1471.2
20°	2127.9	2071.8	2000.5	1926.8	1845.6	1758.8	1689.4	1626.9	1553.8	1480.7	1418.2
22.5°	2121.5	2077.7	1998.5	1910.3	1827.1	1736.3	1657.9	1585.4	1504.3	1429.7	1357.2
25°	2077.4	2062.4	1987.4	1891.2	1796.2	1690.6	1600.0	1520.7	1428.2	1348.3	1269.5
27.5°	1974.5	2006.9	1960.4	1857.9	1752.3	1639.2	1537.3	1447.0	1351.0	1261.0	1182.6
30°	1875.6	1949.9	1929.9	1834.9	1716.9	1605.7	1491.3	1397.0	1294.5	1202.1	1124.6
32.5°	1740.1	1863.0	1882.4	1803.0	1680.9	1558.7	1438.8	1345.0	1238.0	1140.6	1065.1
35°	1524.4	1708.1	1792.4	1741.9	1619.4	1487.6	1363.8	1254.5	1147.0	1050.8	975.9
37.5°	1267.1	1517.4	1657.9	1661.5	1549.1	1412.0	1277.2	1168.7	1058.7	964.3	883.2
40°	1100.2	1371.3	1554.4	1595.1	1500.1	1352.0	1215.8	1105.2	997.8	905.3	812.2
42.5°	950.3	1220.4	1445.4	1516.0	1440.6	1293.6	1156.8	1041.2	936.8	849.3	754.2
45°	768.5	1004.6	1252.6	1378.8	1337.0	1200.8	1056.5	946.6	848.4	772.8	681.6
47.5°	648.2	814.7	1054.8	1225.4	1224.7	1100.3	958.4	853.0	762.1	691.2	617.4
50°	579.8	724.7	927.8	1121.4	1137.7	1033.4	898.4	794.1	709.1	634.8	575.4
52.5°	518.3	637.7	820.4	1006.0	1052.2	961.9	831.0	734.6	652.2	583.8	533.0
55°	438.0	530.4	669.1	842.8	912.8	849.1	732.9	642.9	576.0	518.5	474.8
57.5°	370.5	439.9	551.1	691.0	772.5	732.4	636.5	563.5	506.2	454.2	419.7
60°	328.0	384.8	479.2	596.1	686.0	657.9	576.0	507.9	459.2	414.3	381.7
62.5°	288.0	336.9	417.8	512.6	595.0	583.4	516.6	459.4	416.7	375.8	348.2
65°	231.8	267.4	330.5	404.9	471.1	476.7	428.6	389.9	351.7	319.3	294.9
67.5°	184.6	207.8	252.3	314.9	364.5	382.2	352.9	323.3	293.0	267.9	246.8
70°	155.6	174.3	206.8	257.4	303.0	321.7	304.9	281.8	255.5	234.9	216.8
72.5°	126.0	144.3	168.3	205.5	244.5	264.8	258.9	242.3	221.0	203.9	186.8
75°	95.0	100.6	116.8	141.9	172.4	190.0	194.3	185.6	168.7	155.6	145.5
77.5°	70.2	73.6	81.4	94.5	114.5	130.0	136.5	135.4	123.8	116.2	106.8
80°	56.3	58.1	61.9	67.5	82.5	98.1	102.5	102.5	94.3	91.2	81.9
82.5°	42.7	44.1	46.4	49.5	56.5	70.1	75.0	76.0	70.8	66.7	59.4
85°	24.4	23.7	25.0	26.9	28.1	31.9	39.4	40.6	39.4	34.3	32.4
87.5°	10.0	10.1	9.9	9.2	9.5	9.9	12.2	14.5	12.7	11.5	10.6
90°	7.7	5.8	4.3	3.4	2.9	2.3	1.1	0.3	1.1	2.3	2.9
92.5°	28.8	19.6	13.0	10.4	8.4	7.2	5.1	3.5	5.1	7.2	8.4
95°	66.5	41.5	28.2	21.3	16.7	14.1	11.3	10.1	11.3	14.1	16.7
97.5°	89.7	54.7	38.1	30.2	24.9	21.0	17.9	16.4	17.9	21.0	24.9
100°	94.5	59.4	44.1	36.0	30.2	25.6	23.1	22.2	23.1	25.6	30.2
102.5°	94.7	63.5	49.4	41.3	35.3	30.7	28.1	27.5	28.1	30.7	35.3
105°	96.2	70.6	57.1	49.0	42.6	38.3	36.3	35.1	36.3	38.3	42.6
107.5°	100.2	77.9	64.7	56.6	50.3	46.3	44.4	43.5	44.4	46.3	50.3
110°	103.4	82.7	70.0	61.6	55.6	51.9	50.1	49.0	50.1	51.9	55.6





TEST NUMBER: P331737-930

CATALOG NUMBER: S122RDIP-S1005D330U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	106.9	87.3	75.1	66.4	60.7	57.2	55.2	54.1	55.2	57.2	60.7
115°	112.0	94.5	82.1	74.4	68.6	65.1	63.3	62.0	63.3	65.1	68.6
117.5°	117.6	101.1	89.7	81.6	76.1	73.0	71.3	70.1	71.3	73.0	76.1
120°	121.3	105.7	94.5	86.4	80.6	78.1	76.3	75.2	76.3	78.1	80.6
122.5°	124.5	110.1	99.5	91.2	85.5	82.7	81.0	80.1	81.0	82.7	85.5
125°	129.6	116.7	106.3	98.2	92.5	89.0	87.3	86.4	87.3	89.0	92.5
127.5°	134.4	122.8	112.7	104.4	98.9	95.1	92.6	91.5	92.6	95.1	98.9
130°	137.4	126.5	116.3	108.4	102.6	98.5	95.6	94.5	95.6	98.5	102.6
132.5°	140.4	129.7	120.1	112.0	106.0	101.7	98.7	97.3	98.7	101.7	106.0
135°	144.3	134.3	125.0	117.0	110.3	106.0	102.6	101.4	102.6	106.0	110.3
137.5°	147.3	137.9	128.8	121.3	114.8	110.1	106.7	105.3	106.7	110.1	114.8
140°	149.0	140.0	131.3	123.8	117.6	112.9	109.5	108.4	109.5	112.9	117.6
142.5°	150.3	141.6	133.2	126.2	120.1	115.4	112.3	111.3	112.3	115.4	120.1
145°	152.1	144.1	136.2	130.0	124.2	119.8	117.0	115.8	117.0	119.8	124.2
147.5°	153.1	146.0	138.7	133.1	128.2	124.3	121.5	120.7	121.5	124.3	128.2
150°	153.5	146.9	140.3	135.1	130.8	127.0	124.7	123.8	124.7	127.0	130.8
152.5°	153.8	147.8	141.9	137.2	133.1	129.8	127.5	127.1	127.5	129.8	133.1
155°	154.1	149.2	144.3	140.0	136.8	133.6	131.9	131.7	131.9	133.6	136.8
157.5°	154.1	150.2	146.0	142.4	139.9	137.1	135.7	135.4	135.7	137.1	139.9
160°	154.1	150.7	147.2	144.1	141.7	139.4	138.3	137.9	138.3	139.4	141.7
162.5°	153.8	150.9	147.9	145.4	143.3	141.5	140.3	140.6	140.3	141.5	143.3
165°	153.3	151.2	148.6	146.9	145.4	143.7	143.2	143.5	143.2	143.7	145.4
167.5°	152.9	151.2	149.3	148.2	147.2	146.0	145.5	145.9	145.5	146.0	147.2
170°	152.4	150.9	149.5	148.6	148.1	147.2	146.9	147.5	146.9	147.2	148.1
172.5°	151.7	150.7	149.8	149.1	148.8	147.9	148.1	148.4	148.1	147.9	148.8
175°	150.9	150.3	149.8	149.5	149.5	149.0	149.2	149.5	149.2	149.0	149.5
177.5°	150.5	150.0	149.8	149.8	149.8	149.4	149.5	150.0	149.5	149.4	149.8
180°	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8



TEST NUMBER: P331737-930

CATALOG NUMBER: S122RDIP-S1005D330U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1
2.5°	1772.6	1769.1	1762.6	1752.6	1746.6	1736.1	1729.1	1733.1	1734.1	1733.1	1732.1
5°	1725.0	1711.9	1693.8	1676.3	1660.0	1642.5	1632.6	1628.2	1619.4	1614.4	1611.9
7.5°	1667.4	1644.8	1619.2	1588.7	1562.8	1535.7	1521.8	1514.9	1497.1	1487.4	1478.8
10°	1624.4	1588.8	1563.2	1523.2	1498.8	1463.2	1438.8	1439.5	1415.1	1401.3	1391.4
12.5°	1577.0	1537.8	1495.2	1459.2	1425.4	1396.8	1367.3	1355.5	1329.7	1316.4	1289.4
15°	1498.2	1452.6	1407.6	1358.9	1324.5	1280.2	1237.7	1185.9	1143.9	1107.7	1097.7
17.5°	1412.3	1355.8	1310.7	1253.4	1194.6	1120.0	1070.7	1040.6	1015.4	996.3	982.0
20°	1353.2	1295.8	1247.7	1161.5	1082.1	1031.5	995.2	972.2	945.9	925.3	914.0
22.5°	1291.3	1231.3	1165.7	1069.5	1007.6	967.0	934.7	908.2	890.4	874.3	864.1
25°	1203.3	1137.7	1029.6	963.4	913.4	870.9	848.4	832.2	813.4	791.6	781.6
27.5°	1110.4	1006.0	928.4	879.1	831.4	803.8	783.6	759.4	742.6	732.7	722.4
30°	1040.9	936.5	876.0	822.2	788.5	757.8	734.1	720.4	704.1	687.2	680.4
32.5°	963.4	880.0	822.0	777.2	743.0	716.9	698.1	675.9	664.1	653.8	639.4
35°	867.2	804.0	751.0	714.8	682.2	661.0	639.1	626.0	604.8	596.1	590.4
37.5°	785.7	731.0	691.4	653.1	627.4	603.9	590.5	569.6	560.4	548.3	536.5
40°	739.7	686.0	647.9	616.6	587.9	570.4	553.5	536.7	522.9	517.3	503.0
42.5°	692.8	649.0	610.9	576.7	557.4	538.9	517.6	505.2	491.0	481.8	473.0
45°	627.9	589.1	556.7	528.6	507.3	488.0	474.2	453.6	445.5	427.4	419.9
47.5°	571.0	534.9	503.9	477.2	456.5	443.8	423.7	407.6	394.6	383.5	373.9
50°	530.4	500.4	470.4	446.7	428.0	409.9	389.2	381.1	361.1	355.5	349.8
52.5°	493.4	465.0	437.5	414.3	395.5	377.9	359.7	349.1	335.7	330.0	325.9
55°	441.7	414.3	388.0	367.4	348.6	330.5	319.3	306.1	299.9	295.5	290.5
57.5°	389.7	365.0	344.9	324.0	305.2	290.7	277.8	269.9	263.4	257.6	251.7
60°	356.8	333.0	314.9	295.5	276.1	264.2	254.3	244.9	237.4	228.7	226.2
62.5°	321.7	301.0	284.4	265.5	248.7	237.8	228.3	219.4	210.4	197.7	194.2
65°	273.6	257.4	239.9	224.3	209.3	198.7	184.9	175.0	171.2	169.9	169.3
67.5°	230.2	214.8	199.8	183.8	170.2	160.3	153.4	151.8	149.2	148.5	146.7
70°	201.2	186.8	171.8	156.8	143.7	141.9	139.3	136.8	133.7	132.5	131.2
72.5°	175.2	160.3	145.3	133.3	127.7	125.3	122.9	120.3	118.2	117.0	116.2
75°	134.4	120.6	110.6	106.2	103.1	101.2	97.4	95.6	94.3	92.5	91.8
77.5°	96.7	88.9	84.4	81.6	78.4	76.3	74.2	72.3	71.0	70.6	69.6
80°	73.7	70.0	66.9	63.1	61.9	59.4	58.7	56.8	57.5	55.6	55.6
82.5°	57.2	52.5	49.9	48.1	46.9	44.8	44.3	43.4	43.5	42.1	42.1
85°	29.4	28.1	26.9	25.6	25.6	23.7	24.4	23.7	23.7	22.5	21.9
87.5°	10.2	9.9	9.1	9.5	9.9	9.5	9.4	8.8	8.7	8.8	8.4
90°	3.4	4.3	5.8	7.7	9.5	9.8	9.5	9.2	8.6	9.2	9.5
92.5°	10.4	13.0	19.6	28.8	36.9	37.4	31.6	25.1	21.5	19.2	17.4
95°	21.3	28.2	41.5	66.5	100.0	112.9	98.8	75.5	57.9	45.8	39.5
97.5°	30.2	38.1	54.7	89.7	145.2	192.7	202.2	176.1	144.1	112.9	92.1
100°	36.0	44.1	59.4	94.5	156.7	227.6	269.0	263.0	227.3	187.8	153.0
102.5°	41.3	49.4	63.5	94.7	152.3	228.7	293.9	319.9	311.9	283.0	246.1
105°	49.0	57.1	70.6	96.2	143.7	213.4	290.1	350.0	382.5	386.3	376.8
107.5°	56.6	64.7	77.9	100.2	139.5	197.1	264.8	328.3	377.4	407.3	421.3
110°	61.6	70.0	82.7	103.4	138.6	189.2	248.9	309.7	361.3	398.1	421.8



TEST NUMBER: P331737-930

CATALOG NUMBER: S122RDIP-S1005D330U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	66.4	75.1	87.3	106.9	138.8	184.2	237.8	292.6	342.1	381.5	408.6
115°	74.4	82.1	94.5	112.0	140.0	178.6	224.1	271.7	316.0	353.8	383.4
117.5°	81.6	89.7	101.1	117.6	142.1	175.9	215.5	255.8	294.8	329.1	356.9
120°	86.4	94.5	105.7	121.3	143.5	174.3	210.8	248.0	283.7	314.3	340.5
122.5°	91.2	99.5	110.1	124.5	145.0	173.3	206.9	241.8	274.5	303.5	327.1
125°	98.2	106.3	116.7	129.6	147.5	171.7	201.4	232.8	262.4	287.8	309.4
127.5°	104.4	112.7	122.8	134.4	149.9	170.7	196.2	223.8	250.7	274.6	294.5
130°	108.4	116.3	126.5	137.4	151.8	170.2	192.7	218.1	242.9	265.6	284.6
132.5°	112.0	120.1	129.7	140.4	153.7	170.0	190.0	212.5	235.5	256.4	274.3
135°	117.0	125.0	134.3	144.3	155.9	169.7	186.1	204.8	223.8	242.9	258.9
137.5°	121.3	128.8	137.9	147.3	157.8	169.6	183.4	198.7	214.6	229.7	243.7
140°	123.8	131.3	140.0	149.0	158.7	169.4	181.7	194.7	208.6	221.8	234.5
142.5°	126.2	133.2	141.6	150.3	159.4	169.4	180.2	191.5	203.3	214.7	225.3
145°	130.0	136.2	144.1	152.1	160.1	168.8	178.1	186.9	196.5	205.4	213.8
147.5°	133.1	138.7	146.0	153.1	160.4	167.8	175.9	183.4	190.9	197.9	204.0
150°	135.1	140.3	146.9	153.5	160.1	167.1	174.0	180.9	187.3	193.3	198.4
152.5°	137.2	141.9	147.8	153.8	159.7	165.9	172.4	178.4	184.3	189.4	193.9
155°	140.0	144.3	149.2	154.1	159.0	163.9	169.4	174.9	179.4	183.8	186.9
157.5°	142.4	146.0	150.2	154.1	157.7	161.8	166.6	170.8	174.6	178.2	180.8
160°	144.1	147.2	150.7	154.1	157.0	160.5	164.4	168.2	171.4	174.6	176.6
162.5°	145.4	147.9	150.9	153.8	156.3	159.3	162.7	165.7	168.4	171.1	172.7
165°	146.9	148.6	151.2	153.3	155.0	157.0	159.6	161.9	163.9	165.9	167.1
167.5°	148.2	149.3	151.2	152.9	153.7	155.0	156.6	158.2	159.8	161.2	162.2
170°	148.6	149.5	150.9	152.4	153.0	153.8	155.0	156.5	157.3	158.4	159.0
172.5°	149.1	149.8	150.7	151.7	152.1	152.5	153.4	154.3	155.0	155.9	156.2
175°	149.5	149.8	150.3	150.9	150.7	150.9	151.2	152.1	152.4	152.7	153.0
177.5°	149.8	149.8	150.0	150.5	150.0	149.8	150.0	150.5	150.5	150.7	150.7
180°	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8



TEST NUMBER: P331737-930

CATALOG NUMBER: S122RDIP-S1005D330U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1
2.5°	1726.6	1727.6	1726.2	1727.1	1726.2	1727.6	1726.6	1732.1	1733.1	1734.1	1733.1
5°	1608.7	1601.2	1600.0	1598.1	1600.0	1601.2	1608.7	1611.9	1614.4	1619.4	1628.2
7.5°	1468.1	1467.0	1463.9	1459.5	1463.9	1467.0	1468.1	1478.8	1487.4	1497.1	1514.9
10°	1377.6	1374.5	1373.9	1369.5	1373.9	1374.5	1377.6	1391.4	1401.3	1415.1	1439.5
12.5°	1271.6	1251.6	1249.4	1238.5	1249.4	1251.6	1271.6	1289.4	1316.4	1329.7	1355.5
15°	1082.7	1079.0	1066.5	1058.3	1066.5	1079.0	1082.7	1097.7	1107.7	1143.9	1185.9
17.5°	974.8	962.5	958.6	956.9	958.6	962.5	974.8	982.0	996.3	1015.4	1040.6
20°	905.3	894.1	892.2	891.0	892.2	894.1	905.3	914.0	925.3	945.9	972.2
22.5°	857.3	845.5	840.7	836.9	840.7	845.5	857.3	864.1	874.3	890.4	908.2
25°	775.3	770.9	768.5	767.2	768.5	770.9	775.3	781.6	791.6	813.4	832.2
27.5°	711.3	701.6	699.8	696.5	699.8	701.6	711.3	722.4	732.7	742.6	759.4
30°	674.7	671.6	667.2	663.5	667.2	671.6	674.7	680.4	687.2	704.1	720.4
32.5°	631.8	629.2	625.3	623.5	625.3	629.2	631.8	639.4	653.8	664.1	675.9
35°	584.2	575.4	571.7	566.1	571.7	575.4	584.2	590.4	596.1	604.8	626.0
37.5°	533.8	529.2	523.9	525.8	523.9	529.2	533.8	536.5	548.3	560.4	569.6
40°	494.8	491.7	490.5	489.8	490.5	491.7	494.8	503.0	517.3	522.9	536.7
42.5°	463.8	455.2	451.9	451.8	451.9	455.2	463.8	473.0	481.8	491.0	505.2
45°	416.7	408.6	403.0	403.6	403.0	408.6	416.7	419.9	427.4	445.5	453.6
47.5°	368.5	368.3	364.8	365.8	364.8	368.3	368.5	373.9	383.5	394.6	407.6
50°	345.5	341.8	339.2	339.9	339.2	341.8	345.5	349.8	355.5	361.1	381.1
52.5°	323.5	320.2	318.3	320.9	318.3	320.2	323.5	325.9	330.0	335.7	349.1
55°	287.4	283.6	283.0	282.4	283.0	283.6	287.4	290.5	295.5	299.9	306.1
57.5°	247.0	244.5	240.8	239.1	240.8	244.5	247.0	251.7	257.6	263.4	269.9
60°	218.0	213.0	206.8	206.2	206.8	213.0	218.0	226.2	228.7	237.4	244.9
62.5°	191.5	190.5	189.3	189.1	189.3	190.5	191.5	194.2	197.7	210.4	219.4
65°	168.0	167.5	168.0	168.7	168.0	167.5	168.0	169.3	169.9	171.2	175.0
67.5°	146.4	145.3	144.2	144.7	144.2	145.3	146.4	146.7	148.5	149.2	151.8
70°	130.0	129.3	128.7	128.7	128.7	129.3	130.0	131.2	132.5	133.7	136.8
72.5°	114.0	113.8	113.2	112.7	113.2	113.8	114.0	116.2	117.0	118.2	120.3
75°	91.2	89.9	89.9	89.9	89.9	89.9	91.2	91.8	92.5	94.3	95.6
77.5°	69.5	68.8	68.2	67.8	68.2	68.8	69.5	69.6	70.6	71.0	72.3
80°	55.0	54.4	53.7	53.7	53.7	54.4	55.0	55.6	55.6	57.5	56.8
82.5°	42.0	41.3	41.3	40.8	41.3	41.3	42.0	42.1	42.1	43.5	43.4
85°	22.5	23.2	22.5	23.7	22.5	23.2	22.5	21.9	22.5	23.7	23.7
87.5°	8.4	7.9	8.4	7.9	8.4	7.9	8.4	8.4	8.8	8.7	8.8
90°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.2	8.6	9.2
92.5°	17.1	16.2	16.4	16.0	16.4	16.2	17.1	17.4	19.2	21.5	25.1
95°	35.7	33.4	32.5	32.9	32.5	33.4	35.7	39.5	45.8	57.9	75.5
97.5°	78.4	71.3	67.1	64.7	67.1	71.3	78.4	92.1	112.9	144.1	176.1
100°	129.1	116.7	108.4	103.1	108.4	116.7	129.1	153.0	187.8	227.3	263.0
102.5°	220.0	198.9	188.5	181.5	188.5	198.9	220.0	246.1	283.0	311.9	319.9
105°	358.9	341.0	328.6	324.7	328.6	341.0	358.9	376.8	386.3	382.5	350.0
107.5°	423.5	422.6	420.0	414.7	420.0	422.6	423.5	421.3	407.3	377.4	328.3
110°	434.1	439.6	442.2	441.9	442.2	439.6	434.1	421.8	398.1	361.3	309.7



TEST NUMBER: P331737-930

CATALOG NUMBER: S122RDIP-S1005D330U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	425.8	435.0	439.9	441.4	439.9	435.0	425.8	408.6	381.5	342.1	292.6
115°	403.9	417.1	424.6	427.2	424.6	417.1	403.9	383.4	353.8	316.0	271.7
117.5°	377.7	391.8	399.6	401.8	399.6	391.8	377.7	356.9	329.1	294.8	255.8
120°	360.7	374.2	382.5	385.5	382.5	374.2	360.7	340.5	314.3	283.7	248.0
122.5°	345.2	358.6	366.0	368.4	366.0	358.6	345.2	327.1	303.5	274.5	241.8
125°	326.1	337.0	344.2	346.6	344.2	337.0	326.1	309.4	287.8	262.4	232.8
127.5°	309.1	319.4	325.5	327.4	325.5	319.4	309.1	294.5	274.6	250.7	223.8
130°	298.7	308.5	314.3	316.6	314.3	308.5	298.7	284.6	265.6	242.9	218.1
132.5°	288.1	297.9	303.2	305.3	303.2	297.9	288.1	274.3	256.4	235.5	212.5
135°	271.3	280.9	286.1	287.2	286.1	280.9	271.3	258.9	242.9	223.8	204.8
137.5°	255.0	263.2	267.7	269.5	267.7	263.2	255.0	243.7	229.7	214.6	198.7
140°	243.7	251.2	255.5	257.2	255.5	251.2	243.7	234.5	221.8	208.6	194.7
142.5°	234.0	240.8	244.7	245.0	244.7	240.8	234.0	225.3	214.7	203.3	191.5
145°	220.6	225.6	228.4	229.3	228.4	225.6	220.6	213.8	205.4	196.5	186.9
147.5°	209.7	213.6	215.6	216.1	215.6	213.6	209.7	204.0	197.9	190.9	183.4
150°	202.8	206.3	208.0	208.3	208.0	206.3	202.8	198.4	193.3	187.3	180.9
152.5°	197.3	200.2	201.5	201.6	201.5	200.2	197.3	193.9	189.4	184.3	178.4
155°	190.1	192.2	193.3	192.7	193.3	192.2	190.1	186.9	183.8	179.4	174.9
157.5°	183.0	184.7	185.2	185.2	185.2	184.7	183.0	180.8	178.2	174.6	170.8
160°	178.6	180.0	180.3	180.3	180.3	180.0	178.6	176.6	174.6	171.4	168.2
162.5°	174.7	175.7	175.9	175.7	175.9	175.7	174.7	172.7	171.1	168.4	165.7
165°	168.2	169.4	169.4	169.1	169.4	169.4	168.2	167.1	165.9	163.9	161.9
167.5°	162.7	163.4	163.3	163.0	163.3	163.4	162.7	162.2	161.2	159.8	158.2
170°	159.3	160.1	159.9	159.3	159.9	160.1	159.3	159.0	158.4	157.3	156.5
172.5°	156.5	156.9	156.6	156.3	156.6	156.9	156.5	156.2	155.9	155.0	154.3
175°	153.0	153.3	153.0	152.4	153.0	153.3	153.0	153.0	152.7	152.4	152.1
177.5°	150.7	150.7	150.5	150.0	150.5	150.7	150.7	150.7	150.7	150.5	150.5
180°	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8



TEST NUMBER: P331737-930

CATALOG NUMBER: S122RDIP-S1005D330U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1
2.5°	1729.1	1736.1	1746.6	1752.6	1762.6	1769.1	1772.6	1779.1	1782.6	1795.1	1808.1
5°	1632.6	1642.5	1660.0	1676.3	1693.8	1711.9	1725.0	1740.0	1753.7	1777.4	1802.5
7.5°	1521.8	1535.7	1562.8	1588.7	1619.2	1644.8	1667.4	1693.0	1715.9	1749.9	1785.3
10°	1438.8	1463.2	1498.8	1523.2	1563.2	1588.8	1624.4	1652.5	1684.4	1729.3	1769.4
12.5°	1367.3	1396.8	1425.4	1459.2	1495.2	1537.8	1577.0	1613.1	1650.9	1697.4	1744.3
15°	1237.7	1280.2	1324.5	1358.9	1407.6	1452.6	1498.2	1546.9	1593.2	1648.8	1710.0
17.5°	1070.7	1120.0	1194.6	1253.4	1310.7	1355.8	1412.3	1471.2	1525.7	1592.8	1660.9
20°	995.2	1031.5	1082.1	1161.5	1247.7	1295.8	1353.2	1418.2	1480.7	1553.8	1626.9
22.5°	934.7	967.0	1007.6	1069.5	1165.7	1231.3	1291.3	1357.2	1429.7	1504.3	1585.4
25°	848.4	870.9	913.4	963.4	1029.6	1137.7	1203.3	1269.5	1348.3	1428.2	1520.7
27.5°	783.6	803.8	831.4	879.1	928.4	1006.0	1110.4	1182.6	1261.0	1351.0	1447.0
30°	734.1	757.8	788.5	822.2	876.0	936.5	1040.9	1124.6	1202.1	1294.5	1397.0
32.5°	698.1	716.9	743.0	777.2	822.0	880.0	963.4	1065.1	1140.6	1238.0	1345.0
35°	639.1	661.0	682.2	714.8	751.0	804.0	867.2	975.9	1050.8	1147.0	1254.5
37.5°	590.5	603.9	627.4	653.1	691.4	731.0	785.7	883.2	964.3	1058.7	1168.7
40°	553.5	570.4	587.9	616.6	647.9	686.0	739.7	812.2	905.3	997.8	1105.2
42.5°	517.6	538.9	557.4	576.7	610.9	649.0	692.8	754.2	849.3	936.8	1041.2
45°	474.2	488.0	507.3	528.6	556.7	589.1	627.9	681.6	772.8	848.4	946.6
47.5°	423.7	443.8	456.5	477.2	503.9	534.9	571.0	617.4	691.2	762.1	853.0
50°	389.2	409.9	428.0	446.7	470.4	500.4	530.4	575.4	634.8	709.1	794.1
52.5°	359.7	377.9	395.5	414.3	437.5	465.0	493.4	533.0	583.8	652.2	734.6
55°	319.3	330.5	348.6	367.4	388.0	414.3	441.7	474.8	518.5	576.0	642.9
57.5°	277.8	290.7	305.2	324.0	344.9	365.0	389.7	419.7	454.2	506.2	563.5
60°	254.3	264.2	276.1	295.5	314.9	333.0	356.8	381.7	414.3	459.2	507.9
62.5°	228.3	237.8	248.7	265.5	284.4	301.0	321.7	348.2	375.8	416.7	459.4
65°	184.9	198.7	209.3	224.3	239.9	257.4	273.6	294.9	319.3	351.7	389.9
67.5°	153.4	160.3	170.2	183.8	199.8	214.8	230.2	246.8	267.9	293.0	323.3
70°	139.3	141.9	143.7	156.8	171.8	186.8	201.2	216.8	234.9	255.5	281.8
72.5°	122.9	125.3	127.7	133.3	145.3	160.3	175.2	186.8	203.9	221.0	242.3
75°	97.4	101.2	103.1	106.2	110.6	120.6	134.4	145.5	155.6	168.7	185.6
77.5°	74.2	76.3	78.4	81.6	84.4	88.9	96.7	106.8	116.2	123.8	135.4
80°	58.7	59.4	61.9	63.1	66.9	70.0	73.7	81.9	91.2	94.3	102.5
82.5°	44.3	44.8	46.9	48.1	49.9	52.5	57.2	59.4	66.7	70.8	76.0
85°	24.4	23.7	25.6	25.6	26.9	28.1	29.4	32.4	34.3	39.4	40.6
87.5°	9.4	9.5	9.9	9.5	9.1	9.9	10.2	10.6	11.5	12.7	14.5
90°	9.5	9.8	9.5	7.7	5.8	4.3	3.4	2.9	2.3	1.1	0.3
92.5°	31.6	37.4	36.9	28.8	19.6	13.0	10.4	8.4	7.2	5.1	3.5
95°	98.8	112.9	100.0	66.5	41.5	28.2	21.3	16.7	14.1	11.3	10.1
97.5°	202.2	192.7	145.2	89.7	54.7	38.1	30.2	24.9	21.0	17.9	16.4
100°	269.0	227.6	156.7	94.5	59.4	44.1	36.0	30.2	25.6	23.1	22.2
102.5°	293.9	228.7	152.3	94.7	63.5	49.4	41.3	35.3	30.7	28.1	27.5
105°	290.1	213.4	143.7	96.2	70.6	57.1	49.0	42.6	38.3	36.3	35.1
107.5°	264.8	197.1	139.5	100.2	77.9	64.7	56.6	50.3	46.3	44.4	43.5
110°	248.9	189.2	138.6	103.4	82.7	70.0	61.6	55.6	51.9	50.1	49.0



TEST NUMBER: P331737-930

CATALOG NUMBER: S122RDIP-S1005D330U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	237.8	184.2	138.8	106.9	87.3	75.1	66.4	60.7	57.2	55.2	54.1
115°	224.1	178.6	140.0	112.0	94.5	82.1	74.4	68.6	65.1	63.3	62.0
117.5°	215.5	175.9	142.1	117.6	101.1	89.7	81.6	76.1	73.0	71.3	70.1
120°	210.8	174.3	143.5	121.3	105.7	94.5	86.4	80.6	78.1	76.3	75.2
122.5°	206.9	173.3	145.0	124.5	110.1	99.5	91.2	85.5	82.7	81.0	80.1
125°	201.4	171.7	147.5	129.6	116.7	106.3	98.2	92.5	89.0	87.3	86.4
127.5°	196.2	170.7	149.9	134.4	122.8	112.7	104.4	98.9	95.1	92.6	91.5
130°	192.7	170.2	151.8	137.4	126.5	116.3	108.4	102.6	98.5	95.6	94.5
132.5°	190.0	170.0	153.7	140.4	129.7	120.1	112.0	106.0	101.7	98.7	97.3
135°	186.1	169.7	155.9	144.3	134.3	125.0	117.0	110.3	106.0	102.6	101.4
137.5°	183.4	169.6	157.8	147.3	137.9	128.8	121.3	114.8	110.1	106.7	105.3
140°	181.7	169.4	158.7	149.0	140.0	131.3	123.8	117.6	112.9	109.5	108.4
142.5°	180.2	169.4	159.4	150.3	141.6	133.2	126.2	120.1	115.4	112.3	111.3
145°	178.1	168.8	160.1	152.1	144.1	136.2	130.0	124.2	119.8	117.0	115.8
147.5°	175.9	167.8	160.4	153.1	146.0	138.7	133.1	128.2	124.3	121.5	120.7
150°	174.0	167.1	160.1	153.5	146.9	140.3	135.1	130.8	127.0	124.7	123.8
152.5°	172.4	165.9	159.7	153.8	147.8	141.9	137.2	133.1	129.8	127.5	127.1
155°	169.4	163.9	159.0	154.1	149.2	144.3	140.0	136.8	133.6	131.9	131.7
157.5°	166.6	161.8	157.7	154.1	150.2	146.0	142.4	139.9	137.1	135.7	135.4
160°	164.4	160.5	157.0	154.1	150.7	147.2	144.1	141.7	139.4	138.3	137.9
162.5°	162.7	159.3	156.3	153.8	150.9	147.9	145.4	143.3	141.5	140.3	140.6
165°	159.6	157.0	155.0	153.3	151.2	148.6	146.9	145.4	143.7	143.2	143.5
167.5°	156.6	155.0	153.7	152.9	151.2	149.3	148.2	147.2	146.0	145.5	145.9
170°	155.0	153.8	153.0	152.4	150.9	149.5	148.6	148.1	147.2	146.9	147.5
172.5°	153.4	152.5	152.1	151.7	150.7	149.8	149.1	148.8	147.9	148.1	148.4
175°	151.2	150.9	150.7	150.9	150.3	149.8	149.5	149.5	149.0	149.2	149.5
177.5°	150.0	149.8	150.0	150.5	150.0	149.8	149.8	149.8	149.4	149.5	150.0
180°	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8



TEST NUMBER: P331737-930

CATALOG NUMBER: S122RDIP-S1005D330U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1
2.5°	1808.6	1810.0	1820.1	1824.6	1833.6	1837.0	1841.1	1840.0	1840.0	1842.1	1856.0
5°	1812.5	1825.0	1843.7	1861.8	1879.3	1894.3	1904.3	1914.3	1918.1	1936.2	1952.4
7.5°	1806.0	1829.0	1859.9	1887.6	1920.7	1946.5	1968.1	1987.4	2000.7	2027.0	2054.0
10°	1797.5	1829.9	1864.9	1900.5	1946.1	1980.5	2015.5	2042.4	2051.1	2090.5	2113.0
12.5°	1780.5	1824.0	1868.4	1914.6	1959.2	2006.5	2045.0	2071.8	2102.6	2138.0	2179.5
15°	1755.0	1805.0	1863.0	1922.4	1986.2	2043.6	2084.9	2131.7	2165.4	2204.2	2240.4
17.5°	1718.4	1782.7	1856.6	1925.3	1999.0	2060.8	2117.5	2162.4	2186.2	2208.3	2213.7
20°	1689.4	1758.8	1845.6	1926.8	2000.5	2071.8	2127.9	2165.4	2171.7	2172.3	2139.2
22.5°	1657.9	1736.3	1827.1	1910.3	1998.5	2077.7	2121.5	2137.5	2112.7	2070.4	2006.3
25°	1600.0	1690.6	1796.2	1891.2	1987.4	2062.4	2077.4	2049.3	1962.4	1871.2	1755.6
27.5°	1537.3	1639.2	1752.3	1857.9	1960.4	2006.9	1974.5	1873.2	1716.8	1580.8	1416.0
30°	1491.3	1605.7	1716.9	1834.9	1929.9	1949.9	1875.6	1726.2	1543.8	1338.9	1174.6
32.5°	1438.8	1558.7	1680.9	1803.0	1882.4	1863.0	1740.1	1556.3	1342.4	1140.9	985.6
35°	1363.8	1487.6	1619.4	1741.9	1792.4	1708.1	1524.4	1285.2	1066.5	878.4	771.6
37.5°	1277.2	1412.0	1549.1	1661.5	1657.9	1517.4	1267.1	1020.1	836.3	725.1	649.0
40°	1215.8	1352.0	1500.1	1595.1	1554.4	1371.3	1100.2	867.2	732.9	644.2	588.6
42.5°	1156.8	1293.6	1440.6	1516.0	1445.4	1220.4	950.3	767.7	656.9	587.7	542.6
45°	1056.5	1200.8	1337.0	1378.8	1252.6	1004.6	768.5	636.0	562.3	511.0	479.8
47.5°	958.4	1100.3	1224.7	1225.4	1054.8	814.7	648.2	550.4	487.5	447.8	425.1
50°	898.4	1033.4	1137.7	1121.4	927.8	724.7	579.8	495.5	443.0	412.4	388.6
52.5°	831.0	961.9	1052.2	1006.0	820.4	637.7	518.3	447.4	404.0	377.3	356.1
55°	732.9	849.1	912.8	842.8	669.1	530.4	438.0	382.4	349.8	327.3	309.2
57.5°	636.5	732.4	772.5	691.0	551.1	439.9	370.5	328.7	296.5	280.4	271.0
60°	576.0	657.9	686.0	596.1	479.2	384.8	328.0	289.3	265.5	254.9	245.6
62.5°	516.6	583.4	595.0	512.6	417.8	336.9	288.0	255.3	239.5	229.4	220.5
65°	428.6	476.7	471.1	404.9	330.5	267.4	231.8	211.8	199.9	185.6	169.9
67.5°	352.9	382.2	364.5	314.9	252.3	207.8	184.6	169.4	154.7	141.0	137.5
70°	304.9	321.7	303.0	257.4	206.8	174.3	155.6	137.5	128.7	125.6	119.9
72.5°	258.9	264.8	244.5	205.5	168.3	144.3	126.0	115.9	111.2	108.6	104.9
75°	194.3	190.0	172.4	141.9	116.8	100.6	95.0	91.2	88.1	85.6	83.7
77.5°	136.5	130.0	114.5	94.5	81.4	73.6	70.2	68.2	66.7	65.5	63.6
80°	102.5	98.1	82.5	67.5	61.9	58.1	56.3	53.7	53.7	52.5	50.6
82.5°	75.0	70.1	56.5	49.5	46.4	44.1	42.7	41.3	40.8	41.0	39.6
85°	39.4	31.9	28.1	26.9	25.0	23.7	24.4	23.2	23.2	23.2	22.5
87.5°	12.2	9.9	9.5	9.2	9.9	10.1	10.0	10.4	10.9	10.4	10.8
90°	1.1	2.3	2.9	3.4	4.3	5.8	7.7	9.5	9.8	9.5	9.2
92.5°	5.1	7.2	8.4	10.4	13.0	19.6	28.8	36.9	37.4	31.6	25.1
95°	11.3	14.1	16.7	21.3	28.2	41.5	66.5	100.0	112.9	98.8	75.5
97.5°	17.9	21.0	24.9	30.2	38.1	54.7	89.7	145.2	192.7	202.2	176.1
100°	23.1	25.6	30.2	36.0	44.1	59.4	94.5	156.7	227.6	269.0	263.0
102.5°	28.1	30.7	35.3	41.3	49.4	63.5	94.7	152.3	228.7	293.9	319.9
105°	36.3	38.3	42.6	49.0	57.1	70.6	96.2	143.7	213.4	290.1	350.0
107.5°	44.4	46.3	50.3	56.6	64.7	77.9	100.2	139.5	197.1	264.8	328.3
110°	50.1	51.9	55.6	61.6	70.0	82.7	103.4	138.6	189.2	248.9	309.7





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	55.2	57.2	60.7	66.4	75.1	87.3	106.9	138.8	184.2	237.8	292.6
115°	63.3	65.1	68.6	74.4	82.1	94.5	112.0	140.0	178.6	224.1	271.7
117.5°	71.3	73.0	76.1	81.6	89.7	101.1	117.6	142.1	175.9	215.5	255.8
120°	76.3	78.1	80.6	86.4	94.5	105.7	121.3	143.5	174.3	210.8	248.0
122.5°	81.0	82.7	85.5	91.2	99.5	110.1	124.5	145.0	173.3	206.9	241.8
125°	87.3	89.0	92.5	98.2	106.3	116.7	129.6	147.5	171.7	201.4	232.8
127.5°	92.6	95.1	98.9	104.4	112.7	122.8	134.4	149.9	170.7	196.2	223.8
130°	95.6	98.5	102.6	108.4	116.3	126.5	137.4	151.8	170.2	192.7	218.1
132.5°	98.7	101.7	106.0	112.0	120.1	129.7	140.4	153.7	170.0	190.0	212.5
135°	102.6	106.0	110.3	117.0	125.0	134.3	144.3	155.9	169.7	186.1	204.8
137.5°	106.7	110.1	114.8	121.3	128.8	137.9	147.3	157.8	169.6	183.4	198.7
140°	109.5	112.9	117.6	123.8	131.3	140.0	149.0	158.7	169.4	181.7	194.7
142.5°	112.3	115.4	120.1	126.2	133.2	141.6	150.3	159.4	169.4	180.2	191.5
145°	117.0	119.8	124.2	130.0	136.2	144.1	152.1	160.1	168.8	178.1	186.9
147.5°	121.5	124.3	128.2	133.1	138.7	146.0	153.1	160.4	167.8	175.9	183.4
150°	124.7	127.0	130.8	135.1	140.3	146.9	153.5	160.1	167.1	174.0	180.9
152.5°	127.5	129.8	133.1	137.2	141.9	147.8	153.8	159.7	165.9	172.4	178.4
155°	131.9	133.6	136.8	140.0	144.3	149.2	154.1	159.0	163.9	169.4	174.9
157.5°	135.7	137.1	139.9	142.4	146.0	150.2	154.1	157.7	161.8	166.6	170.8
160°	138.3	139.4	141.7	144.1	147.2	150.7	154.1	157.0	160.5	164.4	168.2
162.5°	140.3	141.5	143.3	145.4	147.9	150.9	153.8	156.3	159.3	162.7	165.7
165°	143.2	143.7	145.4	146.9	148.6	151.2	153.3	155.0	157.0	159.6	161.9
167.5°	145.5	146.0	147.2	148.2	149.3	151.2	152.9	153.7	155.0	156.6	158.2
170°	146.9	147.2	148.1	148.6	149.5	150.9	152.4	153.0	153.8	155.0	156.5
172.5°	148.1	147.9	148.8	149.1	149.8	150.7	151.7	152.1	152.5	153.4	154.3
175°	149.2	149.0	149.5	149.5	149.8	150.3	150.9	150.7	150.9	151.2	152.1
177.5°	149.5	149.4	149.8	149.8	149.8	150.0	150.5	150.0	149.8	150.0	150.5
180°	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1
2.5°	1861.1	1867.5	1870.5	1870.5	1874.0	1872.6	1871.0
5°	1968.1	1979.9	1982.4	1993.7	2001.7	1999.3	2000.5
7.5°	2074.4	2093.4	2112.4	2121.0	2122.3	2127.4	2129.2
10°	2139.8	2155.5	2184.8	2180.4	2202.3	2214.8	2194.2
12.5°	2202.8	2223.9	2244.3	2249.9	2262.3	2266.3	2258.1
15°	2259.8	2271.0	2272.3	2269.1	2272.9	2269.8	2257.9
17.5°	2206.5	2188.3	2151.3	2133.8	2119.9	2099.5	2091.2
20°	2118.6	2064.8	2002.4	1977.4	1948.0	1890.5	1904.3
22.5°	1928.7	1867.4	1805.0	1732.0	1697.1	1642.7	1639.4
25°	1633.1	1527.5	1411.4	1330.2	1282.6	1228.3	1204.5
27.5°	1269.7	1136.9	1041.6	993.4	949.5	906.4	904.7
30°	1030.9	930.9	857.2	816.0	789.0	770.9	774.7
32.5°	868.9	800.5	750.7	716.5	696.6	683.0	682.7
35°	710.4	663.5	631.6	617.3	602.9	592.9	593.5
37.5°	607.9	579.8	562.1	546.2	537.2	532.3	529.5
40°	555.4	532.3	518.5	509.2	501.7	494.8	493.6
42.5°	514.0	494.8	481.1	473.7	466.7	461.9	460.6
45°	456.1	440.4	428.0	419.9	416.7	412.4	412.4
47.5°	405.7	390.4	380.6	375.5	370.1	367.2	367.1
50°	371.8	359.9	351.1	348.0	343.6	341.8	341.1
52.5°	341.3	332.4	326.1	324.0	322.1	319.8	320.2
55°	299.9	294.9	292.4	290.5	287.4	283.6	286.2
57.5°	265.1	260.8	254.0	248.2	245.3	242.6	243.7
60°	240.5	231.8	223.1	216.1	214.3	208.6	208.6
62.5°	209.5	197.3	186.5	182.7	180.8	178.2	177.7
65°	161.2	156.2	153.7	151.2	149.9	149.9	148.7
67.5°	133.5	131.6	128.8	128.2	126.9	126.6	126.2
70°	118.1	115.6	114.3	113.7	112.4	113.1	111.2
72.5°	103.1	101.1	100.9	99.2	98.5	98.6	97.2
75°	81.2	81.2	80.6	80.0	78.8	78.1	78.8
77.5°	62.5	62.6	61.5	61.4	61.2	61.4	60.7
80°	50.0	50.6	50.0	49.3	48.8	49.3	48.8
82.5°	39.5	38.6	38.5	38.4	38.2	37.8	37.7
85°	22.5	23.2	22.5	21.9	21.9	21.9	22.5
87.5°	10.2	10.4	10.4	10.4	10.4	10.4	9.9
90°	8.6	9.2	9.5	9.5	9.5	9.5	9.5
92.5°	21.5	19.2	17.4	17.1	16.2	16.4	16.0
95°	57.9	45.8	39.5	35.7	33.4	32.5	32.9
97.5°	144.1	112.9	92.1	78.4	71.3	67.1	64.7
100°	227.3	187.8	153.0	129.1	116.7	108.4	103.1
102.5°	311.9	283.0	246.1	220.0	198.9	188.5	181.5
105°	382.5	386.3	376.8	358.9	341.0	328.6	324.7
107.5°	377.4	407.3	421.3	423.5	422.6	420.0	414.7
110°	361.3	398.1	421.8	434.1	439.6	442.2	441.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	342.1	381.5	408.6	425.8	435.0	439.9	441.4
115°	316.0	353.8	383.4	403.9	417.1	424.6	427.2
117.5°	294.8	329.1	356.9	377.7	391.8	399.6	401.8
120°	283.7	314.3	340.5	360.7	374.2	382.5	385.5
122.5°	274.5	303.5	327.1	345.2	358.6	366.0	368.4
125°	262.4	287.8	309.4	326.1	337.0	344.2	346.6
127.5°	250.7	274.6	294.5	309.1	319.4	325.5	327.4
130°	242.9	265.6	284.6	298.7	308.5	314.3	316.6
132.5°	235.5	256.4	274.3	288.1	297.9	303.2	305.3
135°	223.8	242.9	258.9	271.3	280.9	286.1	287.2
137.5°	214.6	229.7	243.7	255.0	263.2	267.7	269.5
140°	208.6	221.8	234.5	243.7	251.2	255.5	257.2
142.5°	203.3	214.7	225.3	234.0	240.8	244.7	245.0
145°	196.5	205.4	213.8	220.6	225.6	228.4	229.3
147.5°	190.9	197.9	204.0	209.7	213.6	215.6	216.1
150°	187.3	193.3	198.4	202.8	206.3	208.0	208.3
152.5°	184.3	189.4	193.9	197.3	200.2	201.5	201.6
155°	179.4	183.8	186.9	190.1	192.2	193.3	192.7
157.5°	174.6	178.2	180.8	183.0	184.7	185.2	185.2
160°	171.4	174.6	176.6	178.6	180.0	180.3	180.3
162.5°	168.4	171.1	172.7	174.7	175.7	175.9	175.7
165°	163.9	165.9	167.1	168.2	169.4	169.4	169.1
167.5°	159.8	161.2	162.2	162.7	163.4	163.3	163.0
170°	157.3	158.4	159.0	159.3	160.1	159.9	159.3
172.5°	155.0	155.9	156.2	156.5	156.9	156.6	156.3
175°	152.4	152.7	153.0	153.0	153.3	153.0	152.4
177.5°	150.5	150.7	150.7	150.7	150.7	150.5	150.0
180°	149.8	149.8	149.8	149.8	149.8	149.8	149.8

(END OF REPORT)