

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: P331586-930

Luminaire Tested: **S122DIW-S1005D435U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331586-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIW-S1005D435U930-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 435 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4812.4 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

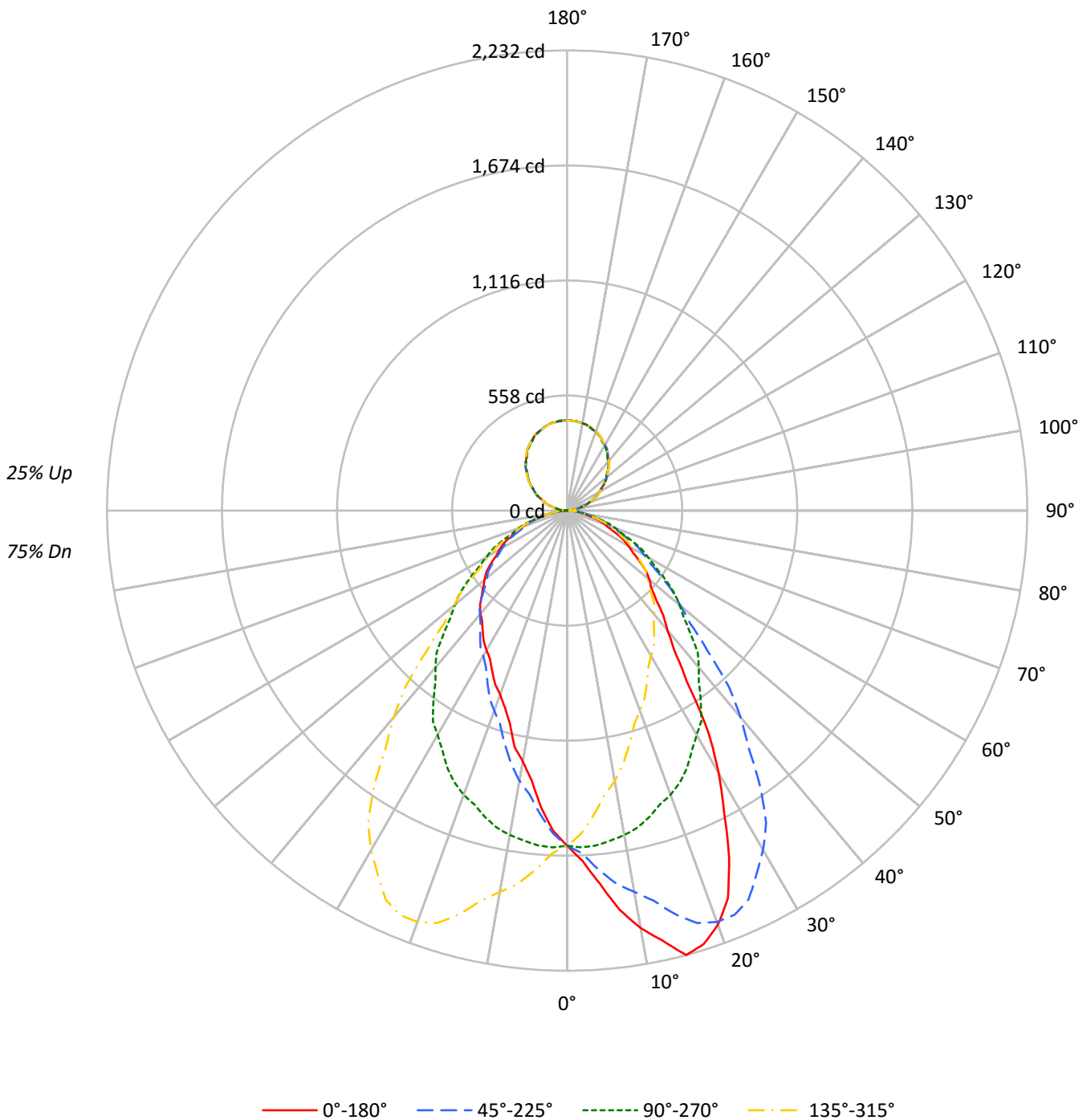
Input Watts (W): 52.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79	75
1	104	100	96	93	99	95	92	89	86	84	81	78	76	74	71	69	68	64
2	95	88	82	77	90	84	79	74	76	72	69	70	66	63	63	61	58	55
3	87	78	71	65	83	75	68	63	68	63	59	62	58	54	57	53	50	47
4	80	70	62	56	76	67	60	54	61	55	51	56	51	47	51	47	44	41
5	74	63	55	49	70	60	53	47	55	49	44	51	46	42	46	42	39	36
6	69	57	49	43	65	54	47	42	50	44	39	46	41	37	42	38	35	32
7	64	52	44	38	61	50	42	37	46	40	35	42	37	33	39	35	31	29
8	60	47	39	34	57	45	38	33	42	36	31	39	34	30	36	32	28	26
9	56	43	36	31	53	42	35	30	39	33	29	36	31	27	33	29	26	24
10	52	40	33	28	50	39	32	27	36	30	26	33	28	25	31	27	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	26248	26248	26248	26248
5°	29428	26420	23412	26420
10°	33721	26202	20261	26202
15°	37305	25723	17901	25723
20°	36737	25206	16318	25206
25°	33127	24522	15316	24522
30°	27374	23426	14585	23426
35°	19951	22277	14063	22277
40°	15934	20925	13774	20925
45°	13924	19358	13381	19358
50°	13089	17844	13122	17844
55°	12065	16304	12769	16304
60°	11057	14667	12226	14667
65°	10074	13200	11694	13200
70°	9144	11769	10914	11769
75°	8110	10175	9669	10175
80°	6974	8424	7782	8424
85°	6262	6262	4631	6262



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.8	3.2
10°-20°	450.1	9.4
20°-30°	653.3	13.6
30°-40°	689.3	14.3
40°-50°	610.4	12.7
50°-60°	487.1	10.1
60°-70°	331.1	6.9
70°-80°	169.7	3.5
80°-90°	42.7	0.9
90°-100°	27.7	0.6
100°-110°	86.1	1.8
110°-120°	147.2	3.1
120°-130°	193.6	4.0
130°-140°	217.3	4.5
140°-150°	213.1	4.4
150°-160°	178.7	3.7
160°-170°	118.6	2.5
170°-180°	41.4	0.9
0°-30°	1258.2	26.1
0°-40°	1947.5	40.5
0°-60°	3045.0	63.3
0°-90°	3588.5	74.6
90°-120°	261.1	5.4
90°-150°	885.2	18.4
90°-180°	1224.0	25.4
0°-180°	4812.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1626	1626	1626	1626	1626	
5°	1816	1630	1444	1630	1816	181
15°	2232	1539	1071	1539	2232	616
25°	1860	1376	860	1376	1860	840
35°	1012	1130	714	1130	1012	658
45°	610	848	586	848	610	480
55°	429	579	454	579	429	384
65°	264	346	306	346	264	262
75°	130	163	155	163	130	139
85°	34	34	25	34	34	37
90°	13	0	13	0	13	7
95°	23	19	23	19	23	26
105°	82	79	82	79	82	86
115°	148	148	148	148	148	146
125°	216	215	216	215	216	192
135°	281	278	281	278	281	217
145°	341	338	341	338	341	213
155°	389	386	389	386	389	179
165°	420	420	420	420	420	119
175°	436	437	436	437	436	41
180°	438	438	438	438	438	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1700.7	1701.2	1702.2	1694.2	1693.2	1693.2	1686.2	1680.3	1673.2	1663.7	1664.8
5°	1815.7	1822.5	1825.0	1817.5	1806.3	1805.1	1794.5	1776.9	1760.7	1747.6	1738.2
7.5°	1952.9	1955.7	1949.5	1939.7	1931.3	1916.3	1896.5	1877.1	1850.1	1825.2	1806.7
10°	2056.8	2060.6	2050.0	2035.6	2023.7	2006.3	1977.5	1948.2	1912.5	1878.2	1850.6
12.5°	2135.8	2145.1	2131.4	2129.6	2109.3	2085.2	2051.0	2036.1	1986.0	1938.1	1908.7
15°	2231.8	2231.1	2232.5	2220.5	2205.5	2201.8	2165.6	2126.2	2055.6	2027.5	1978.7
17.5°	2204.1	2213.5	2217.9	2217.8	2217.5	2215.1	2203.4	2178.6	2143.2	2097.6	2041.3
20°	2138.1	2150.6	2152.5	2166.8	2175.0	2185.6	2190.0	2183.0	2161.2	2123.1	2074.4
22.5°	2036.1	2039.6	2045.5	2067.8	2085.5	2112.1	2126.0	2149.0	2140.7	2122.1	2081.4
25°	1859.5	1853.2	1875.0	1886.3	1926.9	1969.4	2000.0	2033.8	2063.8	2081.9	2070.0
27.5°	1647.2	1637.9	1670.6	1700.5	1733.5	1779.5	1827.2	1883.5	1930.4	1989.0	2009.1
30°	1468.3	1473.9	1505.1	1537.0	1587.0	1652.0	1705.7	1767.6	1834.4	1900.1	1945.6
32.5°	1275.4	1297.0	1316.7	1365.5	1409.6	1482.1	1560.7	1638.1	1721.5	1796.1	1866.7
35°	1012.2	1037.1	1064.7	1100.2	1162.1	1234.0	1310.8	1415.2	1528.9	1630.8	1714.5
37.5°	852.0	848.0	863.7	889.5	939.6	997.6	1086.1	1189.1	1323.0	1442.7	1560.7
40°	756.0	753.5	764.8	788.5	826.6	869.1	946.6	1037.1	1161.5	1307.7	1448.3
42.5°	690.1	691.5	697.8	714.5	740.6	775.6	833.6	910.7	1024.6	1162.3	1313.4
45°	609.8	614.2	621.1	629.2	644.2	672.9	705.4	760.4	850.4	965.3	1114.0
47.5°	552.0	552.2	559.2	566.3	575.2	591.4	617.9	652.4	715.9	809.5	937.3
50°	521.1	516.7	521.7	527.3	536.7	548.0	565.4	597.9	640.4	716.0	822.9
52.5°	483.1	483.2	487.7	489.8	498.2	509.5	525.5	548.0	586.4	645.6	733.4
55°	428.6	431.7	434.2	438.0	445.5	453.6	466.1	481.1	511.1	555.5	620.4
57.5°	377.4	378.4	380.9	388.0	392.7	400.2	412.1	425.7	445.2	478.1	526.9
60°	342.4	342.4	347.4	350.5	356.8	364.3	373.7	386.8	404.2	431.1	470.5
62.5°	310.4	309.9	311.9	317.0	321.8	328.8	338.1	349.3	365.7	389.6	422.0
65°	263.7	262.4	266.2	267.4	272.4	279.3	286.8	298.6	311.8	329.3	358.0
67.5°	218.7	220.2	222.2	224.5	227.3	234.6	239.5	247.9	259.0	273.5	293.0
70°	193.7	193.7	193.7	195.6	199.3	203.1	208.1	214.9	225.6	238.1	255.5
72.5°	165.7	167.7	169.7	168.6	173.3	175.5	181.6	185.5	195.6	203.6	219.1
75°	130.0	130.0	130.0	133.1	134.9	136.8	140.6	144.3	149.4	159.3	167.5
77.5°	96.9	96.7	97.3	98.1	100.1	102.3	103.5	106.8	111.5	116.1	122.9
80°	75.0	76.2	76.9	78.1	78.1	79.3	80.0	84.4	87.5	90.6	95.0
82.5°	58.0	58.2	58.4	58.6	59.1	59.8	61.5	62.9	64.0	66.6	70.0
85°	33.8	33.1	33.1	34.3	33.8	33.8	35.0	36.2	36.2	36.9	38.7
87.5°	15.5	15.5	16.0	15.5	15.4	16.0	16.0	15.5	16.1	16.6	16.7
90°	12.6	12.5	12.4	12.3	12.2	12.3	12.5	12.6	12.8	13.0	11.1
92.5°	12.0	12.0	11.9	11.9	11.9	11.9	11.8	11.8	11.7	11.7	11.3
95°	22.9	23.1	23.2	23.4	23.6	23.6	23.6	23.6	23.6	23.6	23.5
97.5°	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.5
100°	50.6	50.7	50.8	50.9	51.0	51.0	51.0	51.0	51.0	51.0	50.7
102.5°	63.0	63.1	63.2	63.3	63.3	63.3	63.3	63.2	63.2	63.1	62.8
105°	82.0	82.0	82.0	82.0	82.0	81.9	81.8	81.6	81.4	81.3	81.1
107.5°	99.9	100.3	100.6	101.0	101.4	101.6	101.5	101.4	101.3	101.3	101.3
110°	113.7	114.0	114.2	114.5	114.7	114.9	114.9	114.9	114.9	114.9	114.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	127.1	127.3	127.4	127.6	127.8	128.0	128.2	128.4	128.6	128.7	128.8
115°	147.7	148.0	148.2	148.5	148.7	148.9	149.0	149.0	149.1	149.2	149.4
117.5°	167.5	167.7	168.0	168.2	168.4	168.7	168.8	169.1	169.3	169.5	169.9
120°	181.4	181.6	181.9	182.1	182.4	182.5	182.5	182.5	182.5	182.5	183.1
122.5°	194.9	195.1	195.3	195.5	195.7	195.8	196.1	196.2	196.5	196.7	197.1
125°	215.7	215.8	215.9	216.0	216.1	216.2	216.5	216.7	217.0	217.2	217.4
127.5°	234.6	234.9	235.1	235.4	235.7	235.9	236.3	236.5	236.8	237.2	237.4
130°	248.3	248.6	248.9	249.2	249.6	249.8	250.0	250.1	250.3	250.5	250.6
132.5°	261.2	261.5	261.7	262.0	262.3	262.6	262.9	263.3	263.7	264.0	264.0
135°	281.4	281.7	281.9	282.2	282.4	282.6	282.7	282.7	282.8	282.9	282.7
137.5°	299.8	300.1	300.4	300.8	301.1	301.3	301.3	301.4	301.5	301.6	301.3
140°	312.5	312.8	313.2	313.5	313.8	314.0	314.0	314.0	314.0	314.0	313.6
142.5°	324.0	324.3	324.7	325.0	325.3	325.5	325.4	325.3	325.3	325.2	324.9
145°	341.3	341.6	341.9	342.3	342.6	342.8	342.7	342.6	342.5	342.4	341.9
147.5°	356.8	357.0	357.3	357.7	358.0	358.1	357.9	357.7	357.5	357.3	357.0
150°	366.8	367.0	367.3	367.5	367.8	367.8	367.5	367.3	367.0	366.8	366.5
152.5°	376.3	376.6	376.8	377.2	377.5	377.5	377.2	376.8	376.6	376.3	375.9
155°	389.0	389.2	389.5	389.7	390.0	389.9	389.5	389.1	388.7	388.2	388.0
157.5°	399.9	400.3	400.6	401.0	401.5	401.4	400.8	400.2	399.7	399.2	399.0
160°	406.7	407.0	407.3	407.6	408.0	407.9	407.4	406.9	406.4	405.9	405.9
162.5°	412.6	412.9	413.4	413.8	414.2	414.1	413.5	412.9	412.4	411.9	411.8
165°	420.4	420.8	421.2	421.6	422.0	421.9	421.3	420.8	420.2	419.6	419.6
167.5°	426.7	427.1	427.5	428.0	428.4	428.4	427.8	427.2	426.6	426.1	426.1
170°	430.0	430.5	431.0	431.5	431.9	431.9	431.3	430.7	430.2	429.6	429.7
172.5°	432.6	433.1	433.6	434.1	434.6	434.6	434.0	433.4	432.8	432.3	432.4
175°	435.5	436.0	436.5	437.0	437.5	437.4	436.8	436.3	435.7	435.1	435.3
177.5°	436.8	437.2	437.7	438.0	438.4	438.4	438.0	437.7	437.2	436.8	436.9
180°	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1668.3	1664.3	1661.7	1652.8	1644.7	1636.7	1634.3	1635.2	1624.2	1613.7	1609.2
5°	1733.2	1720.7	1708.9	1692.0	1672.0	1650.1	1638.8	1630.1	1608.3	1584.5	1570.8
7.5°	1791.5	1773.6	1750.7	1719.0	1689.9	1655.5	1633.6	1614.2	1582.3	1548.7	1528.3
10°	1826.9	1802.5	1773.2	1734.5	1698.8	1657.0	1627.6	1598.2	1560.7	1520.8	1495.7
12.5°	1857.4	1824.6	1795.7	1746.0	1703.8	1651.5	1616.7	1575.2	1535.8	1488.2	1463.8
15°	1930.1	1869.4	1814.4	1758.2	1706.3	1633.2	1594.5	1538.9	1487.0	1428.3	1400.2
17.5°	1986.2	1918.0	1831.4	1760.0	1699.5	1618.5	1561.6	1495.0	1433.7	1366.6	1328.4
20°	2018.1	1940.0	1846.9	1761.9	1689.5	1597.0	1535.1	1467.0	1395.2	1319.6	1278.4
22.5°	2037.1	1955.0	1863.0	1754.4	1669.5	1579.5	1501.6	1427.0	1354.2	1272.6	1229.4
25°	2043.1	1968.1	1870.7	1748.2	1644.5	1542.6	1448.9	1376.5	1288.3	1212.1	1149.0
27.5°	2013.4	1959.7	1865.9	1736.4	1615.6	1496.6	1392.0	1309.9	1217.0	1134.2	1070.8
30°	1976.9	1945.6	1854.4	1724.4	1592.6	1464.5	1349.6	1256.5	1164.0	1080.3	1015.3
32.5°	1920.4	1913.7	1833.4	1707.5	1568.1	1424.1	1305.1	1211.0	1108.6	1026.3	964.3
35°	1809.5	1839.4	1788.8	1669.5	1522.0	1366.4	1237.7	1130.2	1024.1	945.3	887.2
37.5°	1660.8	1735.2	1722.0	1613.9	1459.8	1303.7	1161.6	1049.3	948.1	868.6	811.6
40°	1558.3	1653.3	1667.0	1571.4	1415.8	1255.2	1104.6	992.8	894.1	821.7	764.1
42.5°	1448.3	1559.3	1597.0	1520.4	1367.8	1204.3	1053.7	937.8	840.1	769.6	718.7
45°	1264.0	1410.8	1479.0	1435.2	1287.8	1120.3	965.3	847.8	759.1	692.9	653.5
47.5°	1091.7	1252.1	1343.7	1328.2	1198.7	1032.8	879.6	766.9	680.5	627.7	592.5
50°	969.7	1134.7	1245.2	1250.3	1134.7	970.3	816.6	710.4	631.0	581.7	552.9
52.5°	863.7	1021.2	1141.7	1168.2	1063.2	905.3	760.1	654.4	584.6	539.2	513.5
55°	725.4	858.5	992.2	1040.9	956.6	806.7	672.3	579.2	513.6	482.3	459.8
57.5°	603.1	714.0	837.5	891.4	839.4	711.0	585.1	504.2	451.0	423.6	406.3
60°	538.6	626.1	736.1	800.4	755.4	641.1	531.1	454.2	410.5	386.1	369.9
62.5°	478.6	556.1	649.1	707.9	683.4	575.6	477.1	409.3	371.5	348.6	336.9
65°	394.8	456.1	528.0	582.3	566.1	484.2	403.7	345.5	315.5	297.4	288.0
67.5°	325.1	369.4	419.2	466.8	453.7	395.7	331.0	285.8	263.4	247.8	242.1
70°	281.2	314.9	359.3	397.4	386.8	339.2	288.0	249.3	229.9	216.8	211.2
72.5°	239.2	266.9	300.8	331.9	324.7	285.3	242.6	213.3	198.4	186.3	181.7
75°	180.6	201.8	222.4	243.0	241.2	210.6	185.6	163.1	151.2	141.9	140.0
77.5°	133.3	145.2	159.2	171.5	168.0	150.6	130.9	118.1	109.3	103.1	102.1
80°	101.8	108.7	118.7	127.4	123.1	115.6	100.0	90.6	84.4	78.1	75.6
82.5°	73.9	80.7	86.7	91.5	88.1	81.1	71.5	65.1	61.4	57.1	56.1
85°	38.7	42.5	45.0	46.2	45.0	40.6	36.2	33.8	30.7	28.8	28.1
87.5°	16.9	16.5	16.1	16.9	15.2	15.0	12.8	11.1	10.8	10.4	9.7
90°	9.3	7.5	5.7	4.3	3.3	2.4	1.4	0.4	1.4	2.4	3.3
92.5°	10.9	10.4	10.0	9.5	8.7	8.0	7.3	6.6	7.3	8.0	8.7
95°	23.3	23.2	23.0	22.5	21.7	20.9	20.1	19.2	20.1	20.9	21.7
97.5°	39.1	38.8	38.5	38.0	37.3	36.5	35.8	35.1	35.8	36.5	37.3
100°	50.5	50.2	50.0	49.6	48.9	48.2	47.5	46.9	47.5	48.2	48.9
102.5°	62.5	62.1	61.9	61.4	60.9	60.3	59.8	59.4	59.8	60.3	60.9
105°	81.0	80.8	80.6	80.4	80.1	79.9	79.7	79.4	79.7	79.9	80.1
107.5°	101.3	101.3	101.3	101.1	100.8	100.4	100.0	99.6	100.0	100.4	100.8
110°	114.9	114.9	114.9	114.6	114.1	113.7	113.2	112.7	113.2	113.7	114.1



TEST NUMBER: P331586-930

CATALOG NUMBER: S122DIW-S1005D435U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	128.9	129.0	129.1	128.8	128.3	127.8	127.3	126.9	127.3	127.8	128.3
115°	149.5	149.7	149.9	149.7	149.2	148.7	148.2	147.7	148.2	148.7	149.2
117.5°	170.4	170.9	171.3	171.2	170.6	169.9	169.3	168.6	169.3	169.9	170.6
120°	183.8	184.4	185.1	185.1	184.4	183.8	183.1	182.5	183.1	183.8	184.4
122.5°	197.5	198.0	198.5	198.4	197.5	196.7	196.0	195.2	196.0	196.7	197.5
125°	217.7	217.9	218.2	217.9	217.2	216.5	215.7	215.0	215.7	216.5	217.2
127.5°	237.7	238.1	238.3	238.0	237.1	236.1	235.2	234.2	235.2	236.1	237.1
130°	250.8	250.9	251.1	250.6	249.6	248.5	247.4	246.4	247.4	248.5	249.6
132.5°	264.0	263.9	263.9	263.4	262.6	261.7	260.8	260.0	260.8	261.7	262.6
135°	282.6	282.4	282.3	281.8	280.9	280.0	279.1	278.2	279.1	280.0	280.9
137.5°	301.2	300.9	300.7	300.2	299.5	298.7	298.0	297.3	298.0	298.7	299.5
140°	313.2	312.7	312.3	311.8	311.0	310.3	309.6	308.8	309.6	310.3	311.0
142.5°	324.7	324.3	324.1	323.6	322.9	322.1	321.4	320.7	321.4	322.1	322.9
145°	341.4	341.0	340.5	339.9	339.3	338.8	338.2	337.6	338.2	338.8	339.3
147.5°	356.7	356.4	356.0	355.6	354.8	354.2	353.4	352.8	353.4	354.2	354.8
150°	366.2	365.8	365.5	365.1	364.6	364.1	363.6	363.1	363.6	364.1	364.6
152.5°	375.4	375.0	374.7	374.2	373.7	373.2	372.8	372.3	372.8	373.2	373.7
155°	387.8	387.5	387.3	387.0	386.8	386.5	386.2	386.0	386.2	386.5	386.8
157.5°	398.8	398.7	398.5	398.4	398.3	398.1	397.9	397.8	397.9	398.1	398.3
160°	405.8	405.7	405.6	405.5	405.4	405.2	405.0	404.9	405.0	405.2	405.4
162.5°	411.7	411.6	411.6	411.5	411.4	411.4	411.4	411.3	411.4	411.4	411.4
165°	419.6	419.6	419.6	419.6	419.7	419.8	419.9	420.0	419.9	419.8	419.7
167.5°	426.1	426.1	426.1	426.2	426.5	426.7	427.0	427.2	427.0	426.7	426.5
170°	429.7	429.8	429.9	430.1	430.3	430.6	430.8	431.0	430.8	430.6	430.3
172.5°	432.4	432.5	432.6	432.8	433.0	433.3	433.5	433.7	433.5	433.3	433.0
175°	435.5	435.6	435.8	436.0	436.3	436.5	436.8	437.0	436.8	436.5	436.3
177.5°	437.1	437.2	437.3	437.5	437.7	437.9	438.1	438.3	438.1	437.9	437.7
180°	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7



TEST NUMBER: P331586-930

CATALOG NUMBER: S122DIW-S1005D435U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1604.3	1601.2	1590.7	1585.3	1576.3	1567.7	1562.3	1564.8	1566.8	1565.8	1564.2
5°	1558.3	1546.4	1528.3	1512.6	1501.4	1480.8	1472.0	1467.7	1464.0	1459.5	1455.1
7.5°	1503.5	1484.8	1458.8	1436.6	1415.5	1389.9	1375.3	1366.6	1357.6	1347.7	1339.0
10°	1464.5	1438.3	1410.8	1379.6	1354.6	1331.5	1310.8	1297.1	1284.6	1272.8	1264.0
12.5°	1423.6	1393.3	1359.3	1316.6	1289.1	1256.0	1252.9	1228.7	1209.1	1201.8	1191.5
15°	1358.3	1315.8	1272.8	1222.1	1200.3	1170.3	1151.5	1132.8	1115.9	1104.0	1100.9
17.5°	1284.3	1229.2	1186.3	1150.0	1114.2	1083.5	1066.2	1051.2	1037.3	1021.4	1019.3
20°	1227.8	1180.2	1133.4	1101.6	1064.7	1033.4	1012.2	997.2	985.3	975.9	967.8
22.5°	1174.3	1122.3	1079.4	1044.6	1008.2	982.9	966.2	951.7	941.8	931.5	923.8
25°	1088.4	1047.8	1000.9	961.6	931.6	915.3	901.6	889.1	882.9	876.0	867.2
27.5°	1013.3	968.2	924.3	893.8	867.5	853.1	843.3	834.9	829.0	825.0	820.0
30°	960.3	914.7	880.4	850.4	828.5	814.2	807.9	802.9	796.0	793.5	791.0
32.5°	909.3	868.2	838.9	812.9	792.0	782.6	776.9	772.4	767.0	764.5	759.5
35°	837.2	802.9	774.1	759.8	742.9	734.7	730.4	724.1	719.2	716.6	716.0
37.5°	769.4	739.6	720.6	702.1	695.0	690.1	684.0	679.8	678.3	677.9	677.3
40°	725.4	701.0	684.2	669.2	666.0	658.5	653.5	649.8	649.8	650.4	649.8
42.5°	685.4	663.6	648.7	635.7	632.0	627.5	622.6	622.3	623.3	625.4	623.3
45°	624.8	609.2	598.6	592.3	585.5	581.1	580.4	582.3	582.9	583.6	585.5
47.5°	569.1	558.7	549.1	542.2	539.2	538.4	537.7	541.0	544.0	545.1	548.0
50°	536.1	524.2	516.1	511.7	509.2	507.9	509.2	513.0	515.4	518.6	520.5
52.5°	499.1	490.7	485.1	481.8	480.7	481.5	481.8	486.0	490.0	491.1	492.0
55°	448.0	441.7	440.5	434.9	437.3	436.8	439.9	442.4	446.1	449.9	450.5
57.5°	397.0	392.0	388.7	389.1	389.9	392.6	395.3	399.7	403.7	407.6	408.0
60°	363.1	360.5	358.7	358.7	359.9	363.6	366.7	371.1	373.7	376.1	378.0
62.5°	332.0	329.5	327.7	328.6	331.9	334.1	337.8	340.1	342.7	345.1	346.0
65°	283.1	281.8	283.6	284.9	285.5	288.7	293.0	294.9	297.4	298.6	303.0
67.5°	237.9	238.1	237.9	239.7	243.3	244.0	248.2	252.6	253.1	255.4	258.3
70°	207.4	208.7	209.9	211.2	214.3	215.6	218.7	220.5	223.1	224.9	226.8
72.5°	179.4	179.7	180.9	180.7	183.3	186.1	188.7	190.5	193.1	195.4	197.3
75°	138.1	138.1	139.3	140.0	143.1	146.2	145.6	146.8	149.4	151.8	153.1
77.5°	100.9	99.5	100.9	101.5	102.5	105.1	105.6	107.4	110.2	109.3	110.7
80°	76.9	75.0	76.9	77.5	77.5	80.6	80.6	81.9	83.7	81.9	83.7
82.5°	54.9	54.0	55.4	55.5	56.5	56.6	57.6	57.9	59.8	58.9	59.8
85°	27.5	26.9	27.5	26.9	27.5	28.1	28.1	27.5	27.5	28.8	26.9
87.5°	9.4	9.1	9.0	9.4	9.2	9.0	8.6	8.5	8.5	7.4	7.4
90°	4.3	5.7	7.5	9.3	11.1	13.0	12.8	12.6	12.5	12.3	12.2
92.5°	9.5	10.0	10.4	10.9	11.3	11.7	11.7	11.8	11.8	11.9	11.9
95°	22.5	23.0	23.2	23.3	23.5	23.6	23.6	23.6	23.6	23.6	23.6
97.5°	38.0	38.5	38.8	39.1	39.5	39.7	39.7	39.7	39.7	39.7	39.7
100°	49.6	50.0	50.2	50.5	50.7	51.0	51.0	51.0	51.0	51.0	51.0
102.5°	61.4	61.9	62.1	62.5	62.8	63.1	63.2	63.2	63.3	63.3	63.3
105°	80.4	80.6	80.8	81.0	81.1	81.3	81.4	81.6	81.8	81.9	82.0
107.5°	101.1	101.3	101.3	101.3	101.3	101.3	101.3	101.4	101.5	101.6	101.4
110°	114.6	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.7



TEST NUMBER: P331586-930

CATALOG NUMBER: S122DIW-S1005D435U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	128.8	129.1	129.0	128.9	128.8	128.7	128.6	128.4	128.2	128.0	127.8
115°	149.7	149.9	149.7	149.5	149.4	149.2	149.1	149.0	149.0	148.9	148.7
117.5°	171.2	171.3	170.9	170.4	169.9	169.5	169.3	169.1	168.8	168.7	168.4
120°	185.1	185.1	184.4	183.8	183.1	182.5	182.5	182.5	182.5	182.5	182.4
122.5°	198.4	198.5	198.0	197.5	197.1	196.7	196.5	196.2	196.1	195.8	195.7
125°	217.9	218.2	217.9	217.7	217.4	217.2	217.0	216.7	216.5	216.2	216.1
127.5°	238.0	238.3	238.1	237.7	237.4	237.2	236.8	236.5	236.3	235.9	235.7
130°	250.6	251.1	250.9	250.8	250.6	250.5	250.3	250.1	250.0	249.8	249.6
132.5°	263.4	263.9	263.9	264.0	264.0	264.0	263.7	263.3	262.9	262.6	262.3
135°	281.8	282.3	282.4	282.6	282.7	282.9	282.8	282.7	282.7	282.6	282.4
137.5°	300.2	300.7	300.9	301.2	301.3	301.6	301.5	301.4	301.3	301.3	301.1
140°	311.8	312.3	312.7	313.2	313.6	314.0	314.0	314.0	314.0	314.0	313.8
142.5°	323.6	324.1	324.3	324.7	324.9	325.2	325.3	325.3	325.4	325.5	325.3
145°	339.9	340.5	341.0	341.4	341.9	342.4	342.5	342.6	342.7	342.8	342.6
147.5°	355.6	356.0	356.4	356.7	357.0	357.3	357.5	357.7	357.9	358.1	358.0
150°	365.1	365.5	365.8	366.2	366.5	366.8	367.0	367.3	367.5	367.8	367.8
152.5°	374.2	374.7	375.0	375.4	375.9	376.3	376.6	376.8	377.2	377.5	377.5
155°	387.0	387.3	387.5	387.8	388.0	388.2	388.7	389.1	389.5	389.9	390.0
157.5°	398.4	398.5	398.7	398.8	399.0	399.2	399.7	400.2	400.8	401.4	401.5
160°	405.5	405.6	405.7	405.8	405.9	405.9	406.4	406.9	407.4	407.9	408.0
162.5°	411.5	411.6	411.6	411.7	411.8	411.9	412.4	412.9	413.5	414.1	414.2
165°	419.6	419.6	419.6	419.6	419.6	419.6	420.2	420.8	421.3	421.9	422.0
167.5°	426.2	426.1	426.1	426.1	426.1	426.1	426.6	427.2	427.8	428.4	428.4
170°	430.1	429.9	429.8	429.7	429.7	429.6	430.2	430.7	431.3	431.9	431.9
172.5°	432.8	432.6	432.5	432.4	432.4	432.3	432.8	433.4	434.0	434.6	434.6
175°	436.0	435.8	435.6	435.5	435.3	435.1	435.7	436.3	436.8	437.4	437.5
177.5°	437.5	437.3	437.2	437.1	436.9	436.8	437.2	437.7	438.0	438.4	438.4
180°	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7



TEST NUMBER: P331586-930

CATALOG NUMBER: S122DIW-S1005D435U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1559.3	1558.3	1558.3	1553.8	1558.3	1558.3	1559.3	1564.2	1565.8	1566.8	1564.8
5°	1446.4	1444.5	1441.4	1444.5	1441.4	1444.5	1446.4	1455.1	1459.5	1464.0	1467.7
7.5°	1334.8	1327.3	1326.2	1318.8	1326.2	1327.3	1334.8	1339.0	1347.7	1357.6	1366.6
10°	1253.4	1248.4	1247.7	1235.8	1247.7	1248.4	1253.4	1264.0	1272.8	1284.6	1297.1
12.5°	1191.4	1179.4	1181.8	1174.8	1181.8	1179.4	1191.4	1191.5	1201.8	1209.1	1228.7
15°	1084.0	1084.0	1081.6	1070.9	1081.6	1084.0	1084.0	1100.9	1104.0	1115.9	1132.8
17.5°	1007.0	1005.7	999.7	1002.7	999.7	1005.7	1007.0	1019.3	1021.4	1037.3	1051.2
20°	960.9	957.2	949.7	949.7	949.7	957.2	960.9	967.8	975.9	985.3	997.2
22.5°	917.5	917.2	909.2	911.7	909.2	917.2	917.5	923.8	931.5	941.8	951.7
25°	866.6	861.6	857.9	859.7	857.9	861.6	866.6	867.2	876.0	882.9	889.1
27.5°	818.4	815.6	815.4	810.2	815.4	815.6	818.4	820.0	825.0	829.0	834.9
30°	790.4	784.2	785.4	782.3	785.4	784.2	790.4	791.0	793.5	796.0	802.9
32.5°	758.4	756.1	754.9	752.3	754.9	756.1	758.4	759.5	764.5	767.0	772.4
35°	714.8	715.4	712.2	713.5	712.2	715.4	714.8	716.0	716.6	719.2	724.1
37.5°	676.7	678.7	677.2	677.5	677.2	678.7	676.7	677.3	677.9	678.3	679.8
40°	651.7	651.7	651.7	653.5	651.7	651.7	651.7	649.8	650.4	649.8	649.8
42.5°	627.7	626.7	625.7	625.6	625.7	626.7	627.7	623.3	625.4	623.3	622.3
45°	586.7	588.6	589.2	586.0	589.2	588.6	586.7	585.5	583.6	582.9	582.3
47.5°	549.6	549.8	549.6	552.4	549.6	549.8	549.6	548.0	545.1	544.0	541.0
50°	523.6	522.4	523.6	522.4	523.6	522.4	523.6	520.5	518.6	515.4	513.0
52.5°	496.1	496.4	495.6	495.4	495.6	496.4	496.1	492.0	491.1	490.0	486.0
55°	453.0	454.2	453.6	453.6	453.6	454.2	453.0	450.5	449.9	446.1	442.4
57.5°	408.4	409.5	410.3	407.6	410.3	409.5	408.4	408.0	407.6	403.7	399.7
60°	377.4	380.5	379.8	378.6	379.8	380.5	377.4	378.0	376.1	373.7	371.1
62.5°	348.9	350.0	349.9	349.7	349.9	350.0	348.9	346.0	345.1	342.7	340.1
65°	304.9	306.1	304.3	306.1	304.3	306.1	304.9	303.0	298.6	297.4	294.9
67.5°	257.6	258.0	259.3	260.2	259.3	258.0	257.6	258.3	255.4	253.1	252.6
70°	228.0	227.5	229.3	231.2	229.3	227.5	228.0	226.8	224.9	223.1	220.5
72.5°	197.1	198.4	197.8	199.2	197.8	198.4	197.1	197.3	195.4	193.1	190.5
75°	151.8	153.7	153.1	155.0	153.1	153.7	151.8	153.1	151.8	149.4	146.8
77.5°	109.7	110.0	109.7	110.7	109.7	110.0	109.7	110.7	109.3	110.2	107.4
80°	83.7	82.5	81.2	83.7	81.2	82.5	83.7	83.7	81.9	83.7	81.9
82.5°	58.2	58.9	57.7	57.7	57.7	58.9	58.2	59.8	58.9	59.8	57.9
85°	26.9	26.3	25.0	25.0	25.0	26.3	26.9	26.9	28.8	27.5	27.5
87.5°	7.5	7.0	7.0	6.5	7.0	7.0	7.5	7.4	7.4	8.5	8.5
90°	12.3	12.4	12.5	12.6	12.5	12.4	12.3	12.2	12.3	12.5	12.6
92.5°	11.9	11.9	12.0	12.0	12.0	11.9	11.9	11.9	11.9	11.8	11.8
95°	23.4	23.2	23.1	22.9	23.1	23.2	23.4	23.6	23.6	23.6	23.6
97.5°	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
100°	50.9	50.8	50.7	50.6	50.7	50.8	50.9	51.0	51.0	51.0	51.0
102.5°	63.3	63.2	63.1	63.0	63.1	63.2	63.3	63.3	63.3	63.3	63.2
105°	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	81.9	81.8	81.6
107.5°	101.0	100.6	100.3	99.9	100.3	100.6	101.0	101.4	101.6	101.5	101.4
110°	114.5	114.2	114.0	113.7	114.0	114.2	114.5	114.7	114.9	114.9	114.9



TEST NUMBER: P331586-930

CATALOG NUMBER: S122DIW-S1005D435U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	127.6	127.4	127.3	127.1	127.3	127.4	127.6	127.8	128.0	128.2	128.4
115°	148.5	148.2	148.0	147.7	148.0	148.2	148.5	148.7	148.9	149.0	149.0
117.5°	168.2	168.0	167.7	167.5	167.7	168.0	168.2	168.4	168.7	168.8	169.1
120°	182.1	181.9	181.6	181.4	181.6	181.9	182.1	182.4	182.5	182.5	182.5
122.5°	195.5	195.3	195.1	194.9	195.1	195.3	195.5	195.7	195.8	196.1	196.2
125°	216.0	215.9	215.8	215.7	215.8	215.9	216.0	216.1	216.2	216.5	216.7
127.5°	235.4	235.1	234.9	234.6	234.9	235.1	235.4	235.7	235.9	236.3	236.5
130°	249.2	248.9	248.6	248.3	248.6	248.9	249.2	249.6	249.8	250.0	250.1
132.5°	262.0	261.7	261.5	261.2	261.5	261.7	262.0	262.3	262.6	262.9	263.3
135°	282.2	281.9	281.7	281.4	281.7	281.9	282.2	282.4	282.6	282.7	282.7
137.5°	300.8	300.4	300.1	299.8	300.1	300.4	300.8	301.1	301.3	301.3	301.4
140°	313.5	313.2	312.8	312.5	312.8	313.2	313.5	313.8	314.0	314.0	314.0
142.5°	325.0	324.7	324.3	324.0	324.3	324.7	325.0	325.3	325.5	325.4	325.3
145°	342.3	341.9	341.6	341.3	341.6	341.9	342.3	342.6	342.8	342.7	342.6
147.5°	357.7	357.3	357.0	356.8	357.0	357.3	357.7	358.0	358.1	357.9	357.7
150°	367.5	367.3	367.0	366.8	367.0	367.3	367.5	367.8	367.8	367.5	367.3
152.5°	377.2	376.8	376.6	376.3	376.6	376.8	377.2	377.5	377.5	377.2	376.8
155°	389.7	389.5	389.2	389.0	389.2	389.5	389.7	390.0	389.9	389.5	389.1
157.5°	401.0	400.6	400.3	399.9	400.3	400.6	401.0	401.5	401.4	400.8	400.2
160°	407.6	407.3	407.0	406.7	407.0	407.3	407.6	408.0	407.9	407.4	406.9
162.5°	413.8	413.4	412.9	412.6	412.9	413.4	413.8	414.2	414.1	413.5	412.9
165°	421.6	421.2	420.8	420.4	420.8	421.2	421.6	422.0	421.9	421.3	420.8
167.5°	428.0	427.5	427.1	426.7	427.1	427.5	428.0	428.4	428.4	427.8	427.2
170°	431.5	431.0	430.5	430.0	430.5	431.0	431.5	431.9	431.9	431.3	430.7
172.5°	434.1	433.6	433.1	432.6	433.1	433.6	434.1	434.6	434.6	434.0	433.4
175°	437.0	436.5	436.0	435.5	436.0	436.5	437.0	437.5	437.4	436.8	436.3
177.5°	438.0	437.7	437.2	436.8	437.2	437.7	438.0	438.4	438.4	438.0	437.7
180°	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7



TEST NUMBER: P331586-930

CATALOG NUMBER: S122DIW-S1005D435U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1562.3	1567.7	1576.3	1585.3	1590.7	1601.2	1604.3	1609.2	1613.7	1624.2	1635.2
5°	1472.0	1480.8	1501.4	1512.6	1528.3	1546.4	1558.3	1570.8	1584.5	1608.3	1630.1
7.5°	1375.3	1389.9	1415.5	1436.6	1458.8	1484.8	1503.5	1528.3	1548.7	1582.3	1614.2
10°	1310.8	1331.5	1354.6	1379.6	1410.8	1438.3	1464.5	1495.7	1520.8	1560.7	1598.2
12.5°	1252.9	1256.0	1289.1	1316.6	1359.3	1393.3	1423.6	1463.8	1488.2	1535.8	1575.2
15°	1151.5	1170.3	1200.3	1222.1	1272.8	1315.8	1358.3	1400.2	1428.3	1487.0	1538.9
17.5°	1066.2	1083.5	1114.2	1150.0	1186.3	1229.2	1284.3	1328.4	1366.6	1433.7	1495.0
20°	1012.2	1033.4	1064.7	1101.6	1133.4	1180.2	1227.8	1278.4	1319.6	1395.2	1467.0
22.5°	966.2	982.9	1008.2	1044.6	1079.4	1122.3	1174.3	1229.4	1272.6	1354.2	1427.0
25°	901.6	915.3	931.6	961.6	1000.9	1047.8	1088.4	1149.0	1212.1	1288.3	1376.5
27.5°	843.3	853.1	867.5	893.8	924.3	968.2	1013.3	1070.8	1134.2	1217.0	1309.9
30°	807.9	814.2	828.5	850.4	880.4	914.7	960.3	1015.3	1080.3	1164.0	1256.5
32.5°	776.9	782.6	792.0	812.9	838.9	868.2	909.3	964.3	1026.3	1108.6	1211.0
35°	730.4	734.7	742.9	759.8	774.1	802.9	837.2	887.2	945.3	1024.1	1130.2
37.5°	684.0	690.1	695.0	702.1	720.6	739.6	769.4	811.6	868.6	948.1	1049.3
40°	653.5	658.5	666.0	669.2	684.2	701.0	725.4	764.1	821.7	894.1	992.8
42.5°	622.6	627.5	632.0	635.7	648.7	663.6	685.4	718.7	769.6	840.1	937.8
45°	580.4	581.1	585.5	592.3	598.6	609.2	624.8	653.5	692.9	759.1	847.8
47.5°	537.7	538.4	539.2	542.2	549.1	558.7	569.1	592.5	627.7	680.5	766.9
50°	509.2	507.9	509.2	511.7	516.1	524.2	536.1	552.9	581.7	631.0	710.4
52.5°	481.8	481.5	480.7	481.8	485.1	490.7	499.1	513.5	539.2	584.6	654.4
55°	439.9	436.8	437.3	434.9	440.5	441.7	448.0	459.8	482.3	513.6	579.2
57.5°	395.3	392.6	389.9	389.1	388.7	392.0	397.0	406.3	423.6	451.0	504.2
60°	366.7	363.6	359.9	358.7	358.7	360.5	363.1	369.9	386.1	410.5	454.2
62.5°	337.8	334.1	331.9	328.6	327.7	329.5	332.0	336.9	348.6	371.5	409.3
65°	293.0	288.7	285.5	284.9	283.6	281.8	283.1	288.0	297.4	315.5	345.5
67.5°	248.2	244.0	243.3	239.7	237.9	238.1	237.9	242.1	247.8	263.4	285.8
70°	218.7	215.6	214.3	211.2	209.9	208.7	207.4	211.2	216.8	229.9	249.3
72.5°	188.7	186.1	183.3	180.7	180.9	179.7	179.4	181.7	186.3	198.4	213.3
75°	145.6	146.2	143.1	140.0	139.3	138.1	138.1	140.0	141.9	151.2	163.1
77.5°	105.6	105.1	102.5	101.5	100.9	99.5	100.9	102.1	103.1	109.3	118.1
80°	80.6	80.6	77.5	77.5	76.9	75.0	76.9	75.6	78.1	84.4	90.6
82.5°	57.6	56.6	56.5	55.5	55.4	54.0	54.9	56.1	57.1	61.4	65.1
85°	28.1	28.1	27.5	26.9	27.5	26.9	27.5	28.1	28.8	30.7	33.8
87.5°	8.6	9.0	9.2	9.4	9.0	9.1	9.4	9.7	10.4	10.8	11.1
90°	12.8	13.0	11.1	9.3	7.5	5.7	4.3	3.3	2.4	1.4	0.4
92.5°	11.7	11.7	11.3	10.9	10.4	10.0	9.5	8.7	8.0	7.3	6.6
95°	23.6	23.6	23.5	23.3	23.2	23.0	22.5	21.7	20.9	20.1	19.2
97.5°	39.7	39.7	39.5	39.1	38.8	38.5	38.0	37.3	36.5	35.8	35.1
100°	51.0	51.0	50.7	50.5	50.2	50.0	49.6	48.9	48.2	47.5	46.9
102.5°	63.2	63.1	62.8	62.5	62.1	61.9	61.4	60.9	60.3	59.8	59.4
105°	81.4	81.3	81.1	81.0	80.8	80.6	80.4	80.1	79.9	79.7	79.4
107.5°	101.3	101.3	101.3	101.3	101.3	101.3	101.1	100.8	100.4	100.0	99.6
110°	114.9	114.9	114.9	114.9	114.9	114.9	114.6	114.1	113.7	113.2	112.7



TEST NUMBER: P331586-930

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	128.6	128.7	128.8	128.9	129.0	129.1	128.8	128.3	127.8	127.3	126.9
115°	149.1	149.2	149.4	149.5	149.7	149.9	149.7	149.2	148.7	148.2	147.7
117.5°	169.3	169.5	169.9	170.4	170.9	171.3	171.2	170.6	169.9	169.3	168.6
120°	182.5	182.5	183.1	183.8	184.4	185.1	185.1	184.4	183.8	183.1	182.5
122.5°	196.5	196.7	197.1	197.5	198.0	198.5	198.4	197.5	196.7	196.0	195.2
125°	217.0	217.2	217.4	217.7	217.9	218.2	217.9	217.2	216.5	215.7	215.0
127.5°	236.8	237.2	237.4	237.7	238.1	238.3	238.0	237.1	236.1	235.2	234.2
130°	250.3	250.5	250.6	250.8	250.9	251.1	250.6	249.6	248.5	247.4	246.4
132.5°	263.7	264.0	264.0	264.0	263.9	263.9	263.4	262.6	261.7	260.8	260.0
135°	282.8	282.9	282.7	282.6	282.4	282.3	281.8	280.9	280.0	279.1	278.2
137.5°	301.5	301.6	301.3	301.2	300.9	300.7	300.2	299.5	298.7	298.0	297.3
140°	314.0	314.0	313.6	313.2	312.7	312.3	311.8	311.0	310.3	309.6	308.8
142.5°	325.3	325.2	324.9	324.7	324.3	324.1	323.6	322.9	322.1	321.4	320.7
145°	342.5	342.4	341.9	341.4	341.0	340.5	339.9	339.3	338.8	338.2	337.6
147.5°	357.5	357.3	357.0	356.7	356.4	356.0	355.6	354.8	354.2	353.4	352.8
150°	367.0	366.8	366.5	366.2	365.8	365.5	365.1	364.6	364.1	363.6	363.1
152.5°	376.6	376.3	375.9	375.4	375.0	374.7	374.2	373.7	373.2	372.8	372.3
155°	388.7	388.2	388.0	387.8	387.5	387.3	387.0	386.8	386.5	386.2	386.0
157.5°	399.7	399.2	399.0	398.8	398.7	398.5	398.4	398.3	398.1	397.9	397.8
160°	406.4	405.9	405.9	405.8	405.7	405.6	405.5	405.4	405.2	405.0	404.9
162.5°	412.4	411.9	411.8	411.7	411.6	411.6	411.5	411.4	411.4	411.4	411.3
165°	420.2	419.6	419.6	419.6	419.6	419.6	419.6	419.7	419.8	419.9	420.0
167.5°	426.6	426.1	426.1	426.1	426.1	426.1	426.2	426.5	426.7	427.0	427.2
170°	430.2	429.6	429.7	429.7	429.8	429.9	430.1	430.3	430.6	430.8	431.0
172.5°	432.8	432.3	432.4	432.4	432.5	432.6	432.8	433.0	433.3	433.5	433.7
175°	435.7	435.1	435.3	435.5	435.6	435.8	436.0	436.3	436.5	436.8	437.0
177.5°	437.2	436.8	436.9	437.1	437.2	437.3	437.5	437.7	437.9	438.1	438.3
180°	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7



TEST NUMBER: P331586-930

CATALOG NUMBER: S122DIW-S1005D435U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1634.3	1636.7	1644.7	1652.8	1661.7	1664.3	1668.3	1664.8	1663.7	1673.2	1680.3
5°	1638.8	1650.1	1672.0	1692.0	1708.9	1720.7	1733.2	1738.2	1747.6	1760.7	1776.9
7.5°	1633.6	1655.5	1689.9	1719.0	1750.7	1773.6	1791.5	1806.7	1825.2	1850.1	1877.1
10°	1627.6	1657.0	1698.8	1734.5	1773.2	1802.5	1826.9	1850.6	1878.2	1912.5	1948.2
12.5°	1616.7	1651.5	1703.8	1746.0	1795.7	1824.6	1857.4	1908.7	1938.1	1986.0	2036.1
15°	1594.5	1633.2	1706.3	1758.2	1814.4	1869.4	1930.1	1978.7	2027.5	2055.6	2126.2
17.5°	1561.6	1618.5	1699.5	1760.0	1831.4	1918.0	1986.2	2041.3	2097.6	2143.2	2178.6
20°	1535.1	1597.0	1689.5	1761.9	1846.9	1940.0	2018.1	2074.4	2123.1	2161.2	2183.0
22.5°	1501.6	1579.5	1669.5	1754.4	1863.0	1955.0	2037.1	2081.4	2122.1	2140.7	2149.0
25°	1448.9	1542.6	1644.5	1748.2	1870.7	1968.1	2043.1	2070.0	2081.9	2063.8	2033.8
27.5°	1392.0	1496.6	1615.6	1736.4	1865.9	1959.7	2013.4	2009.1	1989.0	1930.4	1883.5
30°	1349.6	1464.5	1592.6	1724.4	1854.4	1945.6	1976.9	1945.6	1900.1	1834.4	1767.6
32.5°	1305.1	1424.1	1568.1	1707.5	1833.4	1913.7	1920.4	1866.7	1796.1	1721.5	1638.1
35°	1237.7	1366.4	1522.0	1669.5	1788.8	1839.4	1809.5	1714.5	1630.8	1528.9	1415.2
37.5°	1161.6	1303.7	1459.8	1613.9	1722.0	1735.2	1660.8	1560.7	1442.7	1323.0	1189.1
40°	1104.6	1255.2	1415.8	1571.4	1667.0	1653.3	1558.3	1448.3	1307.7	1161.5	1037.1
42.5°	1053.7	1204.3	1367.8	1520.4	1597.0	1559.3	1448.3	1313.4	1162.3	1024.6	910.7
45°	965.3	1120.3	1287.8	1435.2	1479.0	1410.8	1264.0	1114.0	965.3	850.4	760.4
47.5°	879.6	1032.8	1198.7	1328.2	1343.7	1252.1	1091.7	937.3	809.5	715.9	652.4
50°	816.6	970.3	1134.7	1250.3	1245.2	1134.7	969.7	822.9	716.0	640.4	597.9
52.5°	760.1	905.3	1063.2	1168.2	1141.7	1021.2	863.7	733.4	645.6	586.4	548.0
55°	672.3	806.7	956.6	1040.9	992.2	858.5	725.4	620.4	555.5	511.1	481.1
57.5°	585.1	711.0	839.4	891.4	837.5	714.0	603.1	526.9	478.1	445.2	425.7
60°	531.1	641.1	755.4	800.4	736.1	626.1	538.6	470.5	431.1	404.2	386.8
62.5°	477.1	575.6	683.4	707.9	649.1	556.1	478.6	422.0	389.6	365.7	349.3
65°	403.7	484.2	566.1	582.3	528.0	456.1	394.8	358.0	329.3	311.8	298.6
67.5°	331.0	395.7	453.7	466.8	419.2	369.4	325.1	293.0	273.5	259.0	247.9
70°	288.0	339.2	386.8	397.4	359.3	314.9	281.2	255.5	238.1	225.6	214.9
72.5°	242.6	285.3	324.7	331.9	300.8	266.9	239.2	219.1	203.6	195.6	185.5
75°	185.6	210.6	241.2	243.0	222.4	201.8	180.6	167.5	159.3	149.4	144.3
77.5°	130.9	150.6	168.0	171.5	159.2	145.2	133.3	122.9	116.1	111.5	106.8
80°	100.0	115.6	123.1	127.4	118.7	108.7	101.8	95.0	90.6	87.5	84.4
82.5°	71.5	81.1	88.1	91.5	86.7	80.7	73.9	70.0	66.6	64.0	62.9
85°	36.2	40.6	45.0	46.2	45.0	42.5	38.7	38.7	36.9	36.2	36.2
87.5°	12.8	15.0	15.2	16.9	16.1	16.5	16.9	16.7	16.6	16.1	15.5
90°	1.4	2.4	3.3	4.3	5.7	7.5	9.3	11.1	13.0	12.8	12.6
92.5°	7.3	8.0	8.7	9.5	10.0	10.4	10.9	11.3	11.7	11.7	11.8
95°	20.1	20.9	21.7	22.5	23.0	23.2	23.3	23.5	23.6	23.6	23.6
97.5°	35.8	36.5	37.3	38.0	38.5	38.8	39.1	39.5	39.7	39.7	39.7
100°	47.5	48.2	48.9	49.6	50.0	50.2	50.5	50.7	51.0	51.0	51.0
102.5°	59.8	60.3	60.9	61.4	61.9	62.1	62.5	62.8	63.1	63.2	63.2
105°	79.7	79.9	80.1	80.4	80.6	80.8	81.0	81.1	81.3	81.4	81.6
107.5°	100.0	100.4	100.8	101.1	101.3	101.3	101.3	101.3	101.3	101.3	101.4
110°	113.2	113.7	114.1	114.6	114.9	114.9	114.9	114.9	114.9	114.9	114.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	127.3	127.8	128.3	128.8	129.1	129.0	128.9	128.8	128.7	128.6	128.4
115°	148.2	148.7	149.2	149.7	149.9	149.7	149.5	149.4	149.2	149.1	149.0
117.5°	169.3	169.9	170.6	171.2	171.3	170.9	170.4	169.9	169.5	169.3	169.1
120°	183.1	183.8	184.4	185.1	185.1	184.4	183.8	183.1	182.5	182.5	182.5
122.5°	196.0	196.7	197.5	198.4	198.5	198.0	197.5	197.1	196.7	196.5	196.2
125°	215.7	216.5	217.2	217.9	218.2	217.9	217.7	217.4	217.2	217.0	216.7
127.5°	235.2	236.1	237.1	238.0	238.3	238.1	237.7	237.4	237.2	236.8	236.5
130°	247.4	248.5	249.6	250.6	251.1	250.9	250.8	250.6	250.5	250.3	250.1
132.5°	260.8	261.7	262.6	263.4	263.9	263.9	264.0	264.0	264.0	263.7	263.3
135°	279.1	280.0	280.9	281.8	282.3	282.4	282.6	282.7	282.9	282.8	282.7
137.5°	298.0	298.7	299.5	300.2	300.7	300.9	301.2	301.3	301.6	301.5	301.4
140°	309.6	310.3	311.0	311.8	312.3	312.7	313.2	313.6	314.0	314.0	314.0
142.5°	321.4	322.1	322.9	323.6	324.1	324.3	324.7	324.9	325.2	325.3	325.3
145°	338.2	338.8	339.3	339.9	340.5	341.0	341.4	341.9	342.4	342.5	342.6
147.5°	353.4	354.2	354.8	355.6	356.0	356.4	356.7	357.0	357.3	357.5	357.7
150°	363.6	364.1	364.6	365.1	365.5	365.8	366.2	366.5	366.8	367.0	367.3
152.5°	372.8	373.2	373.7	374.2	374.7	375.0	375.4	375.9	376.3	376.6	376.8
155°	386.2	386.5	386.8	387.0	387.3	387.5	387.8	388.0	388.2	388.7	389.1
157.5°	397.9	398.1	398.3	398.4	398.5	398.7	398.8	399.0	399.2	399.7	400.2
160°	405.0	405.2	405.4	405.5	405.6	405.7	405.8	405.9	405.9	406.4	406.9
162.5°	411.4	411.4	411.4	411.5	411.6	411.6	411.7	411.8	411.9	412.4	412.9
165°	419.9	419.8	419.7	419.6	419.6	419.6	419.6	419.6	419.6	420.2	420.8
167.5°	427.0	426.7	426.5	426.2	426.1	426.1	426.1	426.1	426.1	426.6	427.2
170°	430.8	430.6	430.3	430.1	429.9	429.8	429.7	429.7	429.6	430.2	430.7
172.5°	433.5	433.3	433.0	432.8	432.6	432.5	432.4	432.4	432.3	432.8	433.4
175°	436.8	436.5	436.3	436.0	435.8	435.6	435.5	435.3	435.1	435.7	436.3
177.5°	438.1	437.9	437.7	437.5	437.3	437.2	437.1	436.9	436.8	437.2	437.7
180°	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1686.2	1693.2	1693.2	1694.2	1702.2	1701.2	1700.7
5°	1794.5	1805.1	1806.3	1817.5	1825.0	1822.5	1815.7
7.5°	1896.5	1916.3	1931.3	1939.7	1949.5	1955.7	1952.9
10°	1977.5	2006.3	2023.7	2035.6	2050.0	2060.6	2056.8
12.5°	2051.0	2085.2	2109.3	2129.6	2131.4	2145.1	2135.8
15°	2165.6	2201.8	2205.5	2220.5	2232.5	2231.1	2231.8
17.5°	2203.4	2215.1	2217.5	2217.8	2217.9	2213.5	2204.1
20°	2190.0	2185.6	2175.0	2166.8	2152.5	2150.6	2138.1
22.5°	2126.0	2112.1	2085.5	2067.8	2045.5	2039.6	2036.1
25°	2000.0	1969.4	1926.9	1886.3	1875.0	1853.2	1859.5
27.5°	1827.2	1779.5	1733.5	1700.5	1670.6	1637.9	1647.2
30°	1705.7	1652.0	1587.0	1537.0	1505.1	1473.9	1468.3
32.5°	1560.7	1482.1	1409.6	1365.5	1316.7	1297.0	1275.4
35°	1310.8	1234.0	1162.1	1100.2	1064.7	1037.1	1012.2
37.5°	1086.1	997.6	939.6	889.5	863.7	848.0	852.0
40°	946.6	869.1	826.6	788.5	764.8	753.5	756.0
42.5°	833.6	775.6	740.6	714.5	697.8	691.5	690.1
45°	705.4	672.9	644.2	629.2	621.1	614.2	609.8
47.5°	617.9	591.4	575.2	566.3	559.2	552.2	552.0
50°	565.4	548.0	536.7	527.3	521.7	516.7	521.1
52.5°	525.5	509.5	498.2	489.8	487.7	483.2	483.1
55°	466.1	453.6	445.5	438.0	434.2	431.7	428.6
57.5°	412.1	400.2	392.7	388.0	380.9	378.4	377.4
60°	373.7	364.3	356.8	350.5	347.4	342.4	342.4
62.5°	338.1	328.8	321.8	317.0	311.9	309.9	310.4
65°	286.8	279.3	272.4	267.4	266.2	262.4	263.7
67.5°	239.5	234.6	227.3	224.5	222.2	220.2	218.7
70°	208.1	203.1	199.3	195.6	193.7	193.7	193.7
72.5°	181.6	175.5	173.3	168.6	169.7	167.7	165.7
75°	140.6	136.8	134.9	133.1	130.0	130.0	130.0
77.5°	103.5	102.3	100.1	98.1	97.3	96.7	96.9
80°	80.0	79.3	78.1	78.1	76.9	76.2	75.0
82.5°	61.5	59.8	59.1	58.6	58.4	58.2	58.0
85°	35.0	33.8	33.8	34.3	33.1	33.1	33.8
87.5°	16.0	16.0	15.4	15.5	16.0	15.5	15.5
90°	12.5	12.3	12.2	12.3	12.4	12.5	12.6
92.5°	11.8	11.9	11.9	11.9	11.9	12.0	12.0
95°	23.6	23.6	23.6	23.4	23.2	23.1	22.9
97.5°	39.7	39.7	39.7	39.7	39.7	39.7	39.7
100°	51.0	51.0	51.0	50.9	50.8	50.7	50.6
102.5°	63.3	63.3	63.3	63.3	63.2	63.1	63.0
105°	81.8	81.9	82.0	82.0	82.0	82.0	82.0
107.5°	101.5	101.6	101.4	101.0	100.6	100.3	99.9
110°	114.9	114.9	114.7	114.5	114.2	114.0	113.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	128.2	128.0	127.8	127.6	127.4	127.3	127.1
115°	149.0	148.9	148.7	148.5	148.2	148.0	147.7
117.5°	168.8	168.7	168.4	168.2	168.0	167.7	167.5
120°	182.5	182.5	182.4	182.1	181.9	181.6	181.4
122.5°	196.1	195.8	195.7	195.5	195.3	195.1	194.9
125°	216.5	216.2	216.1	216.0	215.9	215.8	215.7
127.5°	236.3	235.9	235.7	235.4	235.1	234.9	234.6
130°	250.0	249.8	249.6	249.2	248.9	248.6	248.3
132.5°	262.9	262.6	262.3	262.0	261.7	261.5	261.2
135°	282.7	282.6	282.4	282.2	281.9	281.7	281.4
137.5°	301.3	301.3	301.1	300.8	300.4	300.1	299.8
140°	314.0	314.0	313.8	313.5	313.2	312.8	312.5
142.5°	325.4	325.5	325.3	325.0	324.7	324.3	324.0
145°	342.7	342.8	342.6	342.3	341.9	341.6	341.3
147.5°	357.9	358.1	358.0	357.7	357.3	357.0	356.8
150°	367.5	367.8	367.8	367.5	367.3	367.0	366.8
152.5°	377.2	377.5	377.5	377.2	376.8	376.6	376.3
155°	389.5	389.9	390.0	389.7	389.5	389.2	389.0
157.5°	400.8	401.4	401.5	401.0	400.6	400.3	399.9
160°	407.4	407.9	408.0	407.6	407.3	407.0	406.7
162.5°	413.5	414.1	414.2	413.8	413.4	412.9	412.6
165°	421.3	421.9	422.0	421.6	421.2	420.8	420.4
167.5°	427.8	428.4	428.4	428.0	427.5	427.1	426.7
170°	431.3	431.9	431.9	431.5	431.0	430.5	430.0
172.5°	434.0	434.6	434.6	434.1	433.6	433.1	432.6
175°	436.8	437.4	437.5	437.0	436.5	436.0	435.5
177.5°	438.0	438.4	438.4	438.0	437.7	437.2	436.8
180°	437.7	437.7	437.7	437.7	437.7	437.7	437.7

(END OF REPORT)