

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: P331845-930

Luminaire Tested: **S122RDIW-S1005D435U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331845-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122RDIW-S1005D435U930-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 435 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

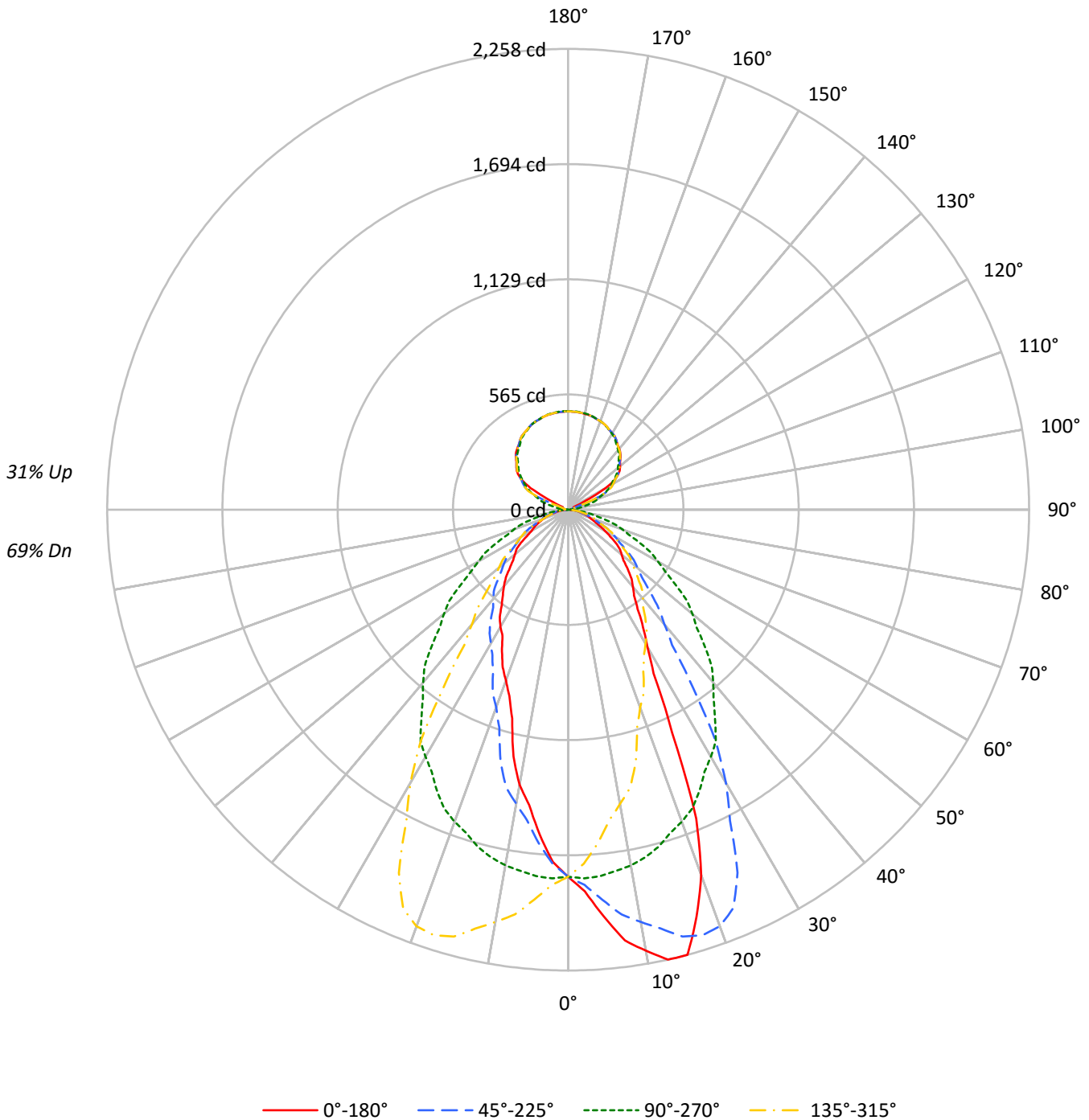
Lumens per Lamp: N/A  
Luminaire Lumens: 4520.0 lumens  
Efficiency: N/A  
Efficacy: 86.3 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct  
  
Input Watts (W): 52.4  
Input Voltage (V): 120  
Input Current (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	50	30	10	0	
RCR																						
0	112	112	112	112	105	105	105	105	94	94	94	83	83	83	73	73	73	69				
1	103	99	95	92	97	94	91	88	84	82	79	75	73	71	67	65	64	60				
2	95	88	82	77	89	83	78	74	75	71	68	67	64	61	60	58	56	52				
3	87	78	71	66	82	74	68	63	67	62	58	60	57	53	54	51	49	46				
4	81	70	63	57	76	67	60	55	61	55	51	55	50	47	49	46	43	40				
5	75	63	56	50	70	60	53	48	55	49	45	50	45	42	45	41	38	36				
6	69	58	50	44	65	55	48	43	50	44	40	46	41	37	41	38	35	32				
7	64	53	45	39	61	50	43	38	46	40	36	42	37	34	38	34	31	29				
8	60	48	41	35	57	46	39	34	42	37	32	39	34	31	36	32	29	26				
9	56	44	37	32	53	43	36	31	39	34	30	36	31	28	33	29	26	24				
10	53	41	34	29	50	40	33	29	37	31	27	34	29	26	31	27	24	22				

**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	3.8
10°-20°	474.9	10.5
20°-30°	612.0	13.5
30°-40°	581.6	12.9
40°-50°	498.2	11.0
50°-60°	379.4	8.4
60°-70°	239.9	5.3
70°-80°	119.8	2.6
80°-90°	32.4	0.7
90°-100°	16.1	0.4
100°-110°	58.9	1.3
110°-120°	157.5	3.5
120°-130°	259.9	5.8
130°-140°	276.4	6.1
140°-150°	256.9	5.7
150°-160°	206.6	4.6
160°-170°	133.1	2.9
170°-180°	45.8	1.0
0°-30°	1257.4	27.8
0°-40°	1839.0	40.7
0°-60°	2716.7	60.1
0°-90°	3108.7	68.8
90°-120°	232.4	5.1
90°-150°	1025.8	22.7
90°-180°	1411.0	31.2
0°-180°	4520.0	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°	9	0	9	0	9	5
95°	15	23	15	23	15	14
105°	26	106	26	106	26	28
115°	28	200	28	200	28	72
125°	298	283	298	283	298	258
135°	362	351	362	351	362	279
145°	413	407	413	407	413	258
155°	448	448	448	448	448	207
165°	471	472	471	472	471	133
175°	480	483	480	483	480	46
180°	482	482	482	482	482	



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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	10.3	10.3	10.2	10.1	10.5	9.9	10.4	9.8
90°	9.4	9.3	9.1	9.0	8.8	8.5	8.2	7.7	7.3	6.9	6.4
92.5°	9.4	9.3	9.2	9.1	9.0	8.9	8.7	8.5	8.3	8.1	7.7
95°	15.0	15.1	15.2	15.2	15.3	15.2	14.8	14.3	13.9	13.6	13.0
97.5°	20.0	19.9	19.8	19.7	19.6	19.4	19.2	18.8	18.5	18.2	17.0
100°	23.3	23.2	23.1	22.9	22.7	22.3	21.7	21.1	20.5	19.9	18.5
102.5°	25.0	24.8	24.6	24.4	24.1	23.6	22.8	22.0	21.2	20.4	31.5
105°	26.5	26.2	25.8	25.5	25.3	24.7	23.8	23.0	22.1	21.3	42.4
107.5°	27.2	26.9	26.7	26.3	26.0	26.3	27.1	28.0	28.9	29.8	55.1
110°	27.6	27.2	26.9	26.6	26.3	30.0	37.7	45.5	53.2	61.0	83.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	27.8	27.6	27.3	27.1	26.8	40.8	69.1	97.3	125.6	153.8	159.3
115°	28.5	34.2	39.7	45.3	50.9	71.6	107.5	143.3	179.1	215.0	213.0
117.5°	116.7	135.0	153.3	171.6	190.0	203.4	212.1	220.8	229.5	238.1	236.8
120°	212.5	223.0	233.5	243.9	254.4	259.2	258.2	257.3	256.3	255.4	254.0
122.5°	265.2	267.3	269.3	271.3	273.4	274.1	273.5	273.0	272.5	271.9	270.4
125°	297.9	297.7	297.5	297.3	297.0	296.6	296.1	295.5	295.0	294.5	293.0
127.5°	318.5	318.5	318.5	318.5	318.4	318.0	317.2	316.4	315.6	314.8	313.7
130°	331.4	331.5	331.6	331.7	331.7	331.3	330.4	329.6	328.7	327.9	327.1
132.5°	344.0	344.1	344.1	344.1	344.2	343.9	343.2	342.5	341.8	341.0	340.1
135°	362.1	362.2	362.4	362.6	362.6	362.4	361.6	360.9	360.0	359.3	358.6
137.5°	378.5	378.9	379.1	379.4	379.6	379.4	378.6	377.9	377.1	376.3	375.5
140°	388.9	389.3	389.6	390.0	390.4	390.3	389.6	388.9	388.2	387.5	386.6
142.5°	398.9	399.3	399.7	400.1	400.5	400.4	399.7	399.1	398.4	397.8	396.8
145°	412.9	413.4	413.7	414.1	414.5	414.4	413.8	413.4	412.8	412.2	410.9
147.5°	425.3	425.6	425.9	426.2	426.6	426.6	426.2	425.7	425.3	424.9	423.6
150°	432.8	433.2	433.6	434.0	434.4	434.3	433.8	433.4	432.9	432.4	431.2
152.5°	439.2	439.7	440.3	440.8	441.2	441.3	440.8	440.3	439.9	439.4	438.2
155°	448.2	448.7	449.4	450.0	450.6	450.7	450.2	449.8	449.3	448.8	447.9
157.5°	456.3	456.9	457.5	458.1	458.7	458.8	458.2	457.7	457.1	456.6	456.0
160°	461.1	461.5	462.1	462.7	463.2	463.3	462.8	462.3	461.9	461.4	460.9
162.5°	465.0	465.6	466.3	466.9	467.6	467.7	467.2	466.6	466.1	465.5	465.1
165°	470.8	471.3	471.9	472.4	473.0	473.0	472.4	471.9	471.3	470.8	470.6
167.5°	474.5	475.2	475.9	476.5	477.3	477.4	476.8	476.3	475.7	475.2	475.0
170°	476.7	477.4	478.1	478.8	479.5	479.6	479.1	478.5	477.9	477.4	477.3
172.5°	478.4	479.1	479.8	480.5	481.2	481.3	480.7	480.1	479.6	479.1	478.9
175°	479.9	480.6	481.4	482.2	483.0	483.1	482.5	482.0	481.4	480.9	480.7
177.5°	480.8	481.3	481.8	482.4	483.0	483.1	482.6	482.2	481.8	481.3	481.3
180°	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6



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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°	9.6	10.0	9.9	9.2	9.5	9.9	12.2	14.6	12.7	11.4	10.6
90°	5.7	5.1	4.5	3.8	2.9	2.0	1.2	0.3	1.2	2.0	2.9
92.5°	7.5	7.2	6.8	6.8	6.8	6.8	6.9	7.0	6.9	6.8	6.8
95°	12.5	12.0	11.4	12.4	15.0	17.5	20.1	22.7	20.1	17.5	15.0
97.5°	15.7	14.4	13.2	16.1	23.3	30.6	37.7	44.9	37.7	30.6	23.3
100°	17.2	15.9	14.6	19.2	29.8	40.4	51.0	61.7	51.0	40.4	29.8
102.5°	42.5	53.5	64.5	71.1	73.4	75.6	77.9	80.1	77.9	75.6	73.4
105°	63.5	84.7	105.8	115.2	112.9	110.6	108.3	105.9	108.3	110.6	112.9
107.5°	80.5	105.8	131.2	142.9	141.0	139.2	137.3	135.4	137.3	139.2	141.0
110°	105.7	128.1	150.5	160.9	159.2	157.6	156.0	154.3	156.0	157.6	159.2





TEST NUMBER: P331845-930

CATALOG NUMBER: S122RDIW-S1005D435U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	164.9	170.4	175.9	178.0	176.5	175.1	173.7	172.2	173.7	175.1	176.5
115°	211.2	209.2	207.2	205.6	204.3	203.0	201.7	200.4	201.7	203.0	204.3
117.5°	235.5	234.2	232.8	231.4	229.9	228.4	227.0	225.5	227.0	228.4	229.9
120°	252.7	251.3	249.9	248.6	247.4	246.2	245.1	243.9	245.1	246.2	247.4
122.5°	268.8	267.3	265.8	264.4	263.2	262.0	260.7	259.5	260.7	262.0	263.2
125°	291.6	290.1	288.5	287.3	286.3	285.4	284.3	283.3	284.3	285.4	286.3
127.5°	312.6	311.5	310.4	309.3	308.2	307.0	306.0	304.8	306.0	307.0	308.2
130°	326.2	325.4	324.5	323.4	322.2	321.0	319.8	318.5	319.8	321.0	322.2
132.5°	339.3	338.4	337.6	336.6	335.6	334.5	333.5	332.5	333.5	334.5	335.6
135°	357.9	357.2	356.4	355.6	354.2	353.0	351.8	350.6	351.8	353.0	354.2
137.5°	374.8	374.0	373.2	372.3	371.5	370.6	369.7	368.9	369.7	370.6	371.5
140°	385.8	385.0	384.1	383.4	382.7	382.1	381.5	380.9	381.5	382.1	382.7
142.5°	395.8	394.8	394.0	393.1	392.6	392.0	391.5	390.9	391.5	392.0	392.6
145°	409.6	408.3	407.0	406.3	406.4	406.5	406.6	406.7	406.6	406.5	406.4
147.5°	422.3	421.0	419.7	419.2	419.6	419.8	420.1	420.4	420.1	419.8	419.6
150°	430.0	428.8	427.5	427.1	427.7	428.2	428.8	429.3	428.8	428.2	427.7
152.5°	437.1	435.9	434.7	434.4	435.0	435.6	436.3	436.8	436.3	435.6	435.0
155°	446.9	446.1	445.2	445.0	445.7	446.4	447.1	447.8	447.1	446.4	445.7
157.5°	455.3	454.7	454.0	454.0	454.6	455.2	455.8	456.3	455.8	455.2	454.6
160°	460.5	460.0	459.5	459.5	460.0	460.5	460.9	461.4	460.9	460.5	460.0
162.5°	464.7	464.3	464.0	464.0	464.5	464.9	465.4	465.9	465.4	464.9	464.5
165°	470.3	470.1	469.9	469.9	470.4	470.9	471.4	471.8	471.4	470.9	470.4
167.5°	474.7	474.5	474.3	474.4	474.9	475.4	475.8	476.3	475.8	475.4	474.9
170°	477.1	477.0	476.8	477.0	477.4	477.8	478.3	478.8	478.3	477.8	477.4
172.5°	478.7	478.6	478.5	478.6	479.1	479.6	480.0	480.5	480.0	479.6	479.1
175°	480.6	480.5	480.3	480.5	481.0	481.5	482.1	482.7	482.1	481.5	481.0
177.5°	481.2	481.1	481.0	481.3	481.7	482.1	482.6	483.0	482.6	482.1	481.7
180°	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6



TEST NUMBER: P331845-930

CATALOG NUMBER: S122RDIW-S1005D435U930-4F0-1E-UDD-A

**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°	10.3	9.9	9.0	9.1	9.3	8.9	9.0	8.6	8.6	8.7	8.2
90°	3.8	4.5	5.1	5.7	6.4	6.9	7.3	7.7	8.2	8.5	8.8
92.5°	6.8	6.8	7.2	7.5	7.7	8.1	8.3	8.5	8.7	8.9	9.0
95°	12.4	11.4	12.0	12.5	13.0	13.6	13.9	14.3	14.8	15.2	15.3
97.5°	16.1	13.2	14.4	15.7	17.0	18.2	18.5	18.8	19.2	19.4	19.6
100°	19.2	14.6	15.9	17.2	18.5	19.9	20.5	21.1	21.7	22.3	22.7
102.5°	71.1	64.5	53.5	42.5	31.5	20.4	21.2	22.0	22.8	23.6	24.1
105°	115.2	105.8	84.7	63.5	42.4	21.3	22.1	23.0	23.8	24.7	25.3
107.5°	142.9	131.2	105.8	80.5	55.1	29.8	28.9	28.0	27.1	26.3	26.0
110°	160.9	150.5	128.1	105.7	83.3	61.0	53.2	45.5	37.7	30.0	26.3



TEST NUMBER: P331845-930

CATALOG NUMBER: S122RDIW-S1005D435U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	178.0	175.9	170.4	164.9	159.3	153.8	125.6	97.3	69.1	40.8	26.8
115°	205.6	207.2	209.2	211.2	213.0	215.0	179.1	143.3	107.5	71.6	50.9
117.5°	231.4	232.8	234.2	235.5	236.8	238.1	229.5	220.8	212.1	203.4	190.0
120°	248.6	249.9	251.3	252.7	254.0	255.4	256.3	257.3	258.2	259.2	254.4
122.5°	264.4	265.8	267.3	268.8	270.4	271.9	272.5	273.0	273.5	274.1	273.4
125°	287.3	288.5	290.1	291.6	293.0	294.5	295.0	295.5	296.1	296.6	297.0
127.5°	309.3	310.4	311.5	312.6	313.7	314.8	315.6	316.4	317.2	318.0	318.4
130°	323.4	324.5	325.4	326.2	327.1	327.9	328.7	329.6	330.4	331.3	331.7
132.5°	336.6	337.6	338.4	339.3	340.1	341.0	341.8	342.5	343.2	343.9	344.2
135°	355.6	356.4	357.2	357.9	358.6	359.3	360.0	360.9	361.6	362.4	362.6
137.5°	372.3	373.2	374.0	374.8	375.5	376.3	377.1	377.9	378.6	379.4	379.6
140°	383.4	384.1	385.0	385.8	386.6	387.5	388.2	388.9	389.6	390.3	390.4
142.5°	393.1	394.0	394.8	395.8	396.8	397.8	398.4	399.1	399.7	400.4	400.5
145°	406.3	407.0	408.3	409.6	410.9	412.2	412.8	413.4	413.8	414.4	414.5
147.5°	419.2	419.7	421.0	422.3	423.6	424.9	425.3	425.7	426.2	426.6	426.6
150°	427.1	427.5	428.8	430.0	431.2	432.4	432.9	433.4	433.8	434.3	434.4
152.5°	434.4	434.7	435.9	437.1	438.2	439.4	439.9	440.3	440.8	441.3	441.2
155°	445.0	445.2	446.1	446.9	447.9	448.8	449.3	449.8	450.2	450.7	450.6
157.5°	454.0	454.0	454.7	455.3	456.0	456.6	457.1	457.7	458.2	458.8	458.7
160°	459.5	459.5	460.0	460.5	460.9	461.4	461.9	462.3	462.8	463.3	463.2
162.5°	464.0	464.0	464.3	464.7	465.1	465.5	466.1	466.6	467.2	467.7	467.6
165°	469.9	469.9	470.1	470.3	470.6	470.8	471.3	471.9	472.4	473.0	473.0
167.5°	474.4	474.3	474.5	474.7	475.0	475.2	475.7	476.3	476.8	477.4	477.3
170°	477.0	476.8	477.0	477.1	477.3	477.4	477.9	478.5	479.1	479.6	479.5
172.5°	478.6	478.5	478.6	478.7	478.9	479.1	479.6	480.1	480.7	481.3	481.2
175°	480.5	480.3	480.5	480.6	480.7	480.9	481.4	482.0	482.5	483.1	483.0
177.5°	481.3	481.0	481.1	481.2	481.3	481.3	481.8	482.2	482.6	483.1	483.0
180°	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6



TEST NUMBER: P331845-930

CATALOG NUMBER: S122RDIW-S1005D435U930-4F0-1E-UDD-A

**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°	8.3	7.8	8.3	7.9	8.3	7.8	8.3	8.2	8.7	8.6	8.6
90°	9.0	9.1	9.3	9.4	9.3	9.1	9.0	8.8	8.5	8.2	7.7
92.5°	9.1	9.2	9.3	9.4	9.3	9.2	9.1	9.0	8.9	8.7	8.5
95°	15.2	15.2	15.1	15.0	15.1	15.2	15.2	15.3	15.2	14.8	14.3
97.5°	19.7	19.8	19.9	20.0	19.9	19.8	19.7	19.6	19.4	19.2	18.8
100°	22.9	23.1	23.2	23.3	23.2	23.1	22.9	22.7	22.3	21.7	21.1
102.5°	24.4	24.6	24.8	25.0	24.8	24.6	24.4	24.1	23.6	22.8	22.0
105°	25.5	25.8	26.2	26.5	26.2	25.8	25.5	25.3	24.7	23.8	23.0
107.5°	26.3	26.7	26.9	27.2	26.9	26.7	26.3	26.0	26.3	27.1	28.0
110°	26.6	26.9	27.2	27.6	27.2	26.9	26.6	26.3	30.0	37.7	45.5



TEST NUMBER: P331845-930

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	27.1	27.3	27.6	27.8	27.6	27.3	27.1	26.8	40.8	69.1	97.3
115°	45.3	39.7	34.2	28.5	34.2	39.7	45.3	50.9	71.6	107.5	143.3
117.5°	171.6	153.3	135.0	116.7	135.0	153.3	171.6	190.0	203.4	212.1	220.8
120°	243.9	233.5	223.0	212.5	223.0	233.5	243.9	254.4	259.2	258.2	257.3
122.5°	271.3	269.3	267.3	265.2	267.3	269.3	271.3	273.4	274.1	273.5	273.0
125°	297.3	297.5	297.7	297.9	297.7	297.5	297.3	297.0	296.6	296.1	295.5
127.5°	318.5	318.5	318.5	318.5	318.5	318.5	318.5	318.4	318.0	317.2	316.4
130°	331.7	331.6	331.5	331.4	331.5	331.6	331.7	331.7	331.3	330.4	329.6
132.5°	344.1	344.1	344.1	344.0	344.1	344.1	344.1	344.2	343.9	343.2	342.5
135°	362.6	362.4	362.2	362.1	362.2	362.4	362.6	362.6	362.4	361.6	360.9
137.5°	379.4	379.1	378.9	378.5	378.9	379.1	379.4	379.6	379.4	378.6	377.9
140°	390.0	389.6	389.3	388.9	389.3	389.6	390.0	390.4	390.3	389.6	388.9
142.5°	400.1	399.7	399.3	398.9	399.3	399.7	400.1	400.5	400.4	399.7	399.1
145°	414.1	413.7	413.4	412.9	413.4	413.7	414.1	414.5	414.4	413.8	413.4
147.5°	426.2	425.9	425.6	425.3	425.6	425.9	426.2	426.6	426.6	426.2	425.7
150°	434.0	433.6	433.2	432.8	433.2	433.6	434.0	434.4	434.3	433.8	433.4
152.5°	440.8	440.3	439.7	439.2	439.7	440.3	440.8	441.2	441.3	440.8	440.3
155°	450.0	449.4	448.7	448.2	448.7	449.4	450.0	450.6	450.7	450.2	449.8
157.5°	458.1	457.5	456.9	456.3	456.9	457.5	458.1	458.7	458.8	458.2	457.7
160°	462.7	462.1	461.5	461.1	461.5	462.1	462.7	463.2	463.3	462.8	462.3
162.5°	466.9	466.3	465.6	465.0	465.6	466.3	466.9	467.6	467.7	467.2	466.6
165°	472.4	471.9	471.3	470.8	471.3	471.9	472.4	473.0	473.0	472.4	471.9
167.5°	476.5	475.9	475.2	474.5	475.2	475.9	476.5	477.3	477.4	476.8	476.3
170°	478.8	478.1	477.4	476.7	477.4	478.1	478.8	479.5	479.6	479.1	478.5
172.5°	480.5	479.8	479.1	478.4	479.1	479.8	480.5	481.2	481.3	480.7	480.1
175°	482.2	481.4	480.6	479.9	480.6	481.4	482.2	483.0	483.1	482.5	482.0
177.5°	482.4	481.8	481.3	480.8	481.3	481.8	482.4	483.0	483.1	482.6	482.2
180°	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6



TEST NUMBER: P331845-930

CATALOG NUMBER: S122RDIW-S1005D435U930-4F0-1E-UDD-A

**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°	9.0	8.9	9.3	9.1	9.0	9.9	10.3	10.6	11.4	12.7	14.6
90°	7.3	6.9	6.4	5.7	5.1	4.5	3.8	2.9	2.0	1.2	0.3
92.5°	8.3	8.1	7.7	7.5	7.2	6.8	6.8	6.8	6.8	6.9	7.0
95°	13.9	13.6	13.0	12.5	12.0	11.4	12.4	15.0	17.5	20.1	22.7
97.5°	18.5	18.2	17.0	15.7	14.4	13.2	16.1	23.3	30.6	37.7	44.9
100°	20.5	19.9	18.5	17.2	15.9	14.6	19.2	29.8	40.4	51.0	61.7
102.5°	21.2	20.4	31.5	42.5	53.5	64.5	71.1	73.4	75.6	77.9	80.1
105°	22.1	21.3	42.4	63.5	84.7	105.8	115.2	112.9	110.6	108.3	105.9
107.5°	28.9	29.8	55.1	80.5	105.8	131.2	142.9	141.0	139.2	137.3	135.4
110°	53.2	61.0	83.3	105.7	128.1	150.5	160.9	159.2	157.6	156.0	154.3



TEST NUMBER: P331845-930

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	125.6	153.8	159.3	164.9	170.4	175.9	178.0	176.5	175.1	173.7	172.2
115°	179.1	215.0	213.0	211.2	209.2	207.2	205.6	204.3	203.0	201.7	200.4
117.5°	229.5	238.1	236.8	235.5	234.2	232.8	231.4	229.9	228.4	227.0	225.5
120°	256.3	255.4	254.0	252.7	251.3	249.9	248.6	247.4	246.2	245.1	243.9
122.5°	272.5	271.9	270.4	268.8	267.3	265.8	264.4	263.2	262.0	260.7	259.5
125°	295.0	294.5	293.0	291.6	290.1	288.5	287.3	286.3	285.4	284.3	283.3
127.5°	315.6	314.8	313.7	312.6	311.5	310.4	309.3	308.2	307.0	306.0	304.8
130°	328.7	327.9	327.1	326.2	325.4	324.5	323.4	322.2	321.0	319.8	318.5
132.5°	341.8	341.0	340.1	339.3	338.4	337.6	336.6	335.6	334.5	333.5	332.5
135°	360.0	359.3	358.6	357.9	357.2	356.4	355.6	354.2	353.0	351.8	350.6
137.5°	377.1	376.3	375.5	374.8	374.0	373.2	372.3	371.5	370.6	369.7	368.9
140°	388.2	387.5	386.6	385.8	385.0	384.1	383.4	382.7	382.1	381.5	380.9
142.5°	398.4	397.8	396.8	395.8	394.8	394.0	393.1	392.6	392.0	391.5	390.9
145°	412.8	412.2	410.9	409.6	408.3	407.0	406.3	406.4	406.5	406.6	406.7
147.5°	425.3	424.9	423.6	422.3	421.0	419.7	419.2	419.6	419.8	420.1	420.4
150°	432.9	432.4	431.2	430.0	428.8	427.5	427.1	427.7	428.2	428.8	429.3
152.5°	439.9	439.4	438.2	437.1	435.9	434.7	434.4	435.0	435.6	436.3	436.8
155°	449.3	448.8	447.9	446.9	446.1	445.2	445.0	445.7	446.4	447.1	447.8
157.5°	457.1	456.6	456.0	455.3	454.7	454.0	454.0	454.6	455.2	455.8	456.3
160°	461.9	461.4	460.9	460.5	460.0	459.5	459.5	460.0	460.5	460.9	461.4
162.5°	466.1	465.5	465.1	464.7	464.3	464.0	464.0	464.5	464.9	465.4	465.9
165°	471.3	470.8	470.6	470.3	470.1	469.9	469.9	470.4	470.9	471.4	471.8
167.5°	475.7	475.2	475.0	474.7	474.5	474.3	474.4	474.9	475.4	475.8	476.3
170°	477.9	477.4	477.3	477.1	477.0	476.8	477.0	477.4	477.8	478.3	478.8
172.5°	479.6	479.1	478.9	478.7	478.6	478.5	478.6	479.1	479.6	480.0	480.5
175°	481.4	480.9	480.7	480.6	480.5	480.3	480.5	481.0	481.5	482.1	482.7
177.5°	481.8	481.3	481.3	481.2	481.1	481.0	481.3	481.7	482.1	482.6	483.0
180°	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6



TEST NUMBER: P331845-930

CATALOG NUMBER: S122RDIW-S1005D435U930-4F0-1E-UDD-A

**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	10.0	9.6	9.8	10.4	9.9	10.5
90°	1.2	2.0	2.9	3.8	4.5	5.1	5.7	6.4	6.9	7.3	7.7
92.5°	6.9	6.8	6.8	6.8	6.8	7.2	7.5	7.7	8.1	8.3	8.5
95°	20.1	17.5	15.0	12.4	11.4	12.0	12.5	13.0	13.6	13.9	14.3
97.5°	37.7	30.6	23.3	16.1	13.2	14.4	15.7	17.0	18.2	18.5	18.8
100°	51.0	40.4	29.8	19.2	14.6	15.9	17.2	18.5	19.9	20.5	21.1
102.5°	77.9	75.6	73.4	71.1	64.5	53.5	42.5	31.5	20.4	21.2	22.0
105°	108.3	110.6	112.9	115.2	105.8	84.7	63.5	42.4	21.3	22.1	23.0
107.5°	137.3	139.2	141.0	142.9	131.2	105.8	80.5	55.1	29.8	28.9	28.0
110°	156.0	157.6	159.2	160.9	150.5	128.1	105.7	83.3	61.0	53.2	45.5





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	173.7	175.1	176.5	178.0	175.9	170.4	164.9	159.3	153.8	125.6	97.3
115°	201.7	203.0	204.3	205.6	207.2	209.2	211.2	213.0	215.0	179.1	143.3
117.5°	227.0	228.4	229.9	231.4	232.8	234.2	235.5	236.8	238.1	229.5	220.8
120°	245.1	246.2	247.4	248.6	249.9	251.3	252.7	254.0	255.4	256.3	257.3
122.5°	260.7	262.0	263.2	264.4	265.8	267.3	268.8	270.4	271.9	272.5	273.0
125°	284.3	285.4	286.3	287.3	288.5	290.1	291.6	293.0	294.5	295.0	295.5
127.5°	306.0	307.0	308.2	309.3	310.4	311.5	312.6	313.7	314.8	315.6	316.4
130°	319.8	321.0	322.2	323.4	324.5	325.4	326.2	327.1	327.9	328.7	329.6
132.5°	333.5	334.5	335.6	336.6	337.6	338.4	339.3	340.1	341.0	341.8	342.5
135°	351.8	353.0	354.2	355.6	356.4	357.2	357.9	358.6	359.3	360.0	360.9
137.5°	369.7	370.6	371.5	372.3	373.2	374.0	374.8	375.5	376.3	377.1	377.9
140°	381.5	382.1	382.7	383.4	384.1	385.0	385.8	386.6	387.5	388.2	388.9
142.5°	391.5	392.0	392.6	393.1	394.0	394.8	395.8	396.8	397.8	398.4	399.1
145°	406.6	406.5	406.4	406.3	407.0	408.3	409.6	410.9	412.2	412.8	413.4
147.5°	420.1	419.8	419.6	419.2	419.7	421.0	422.3	423.6	424.9	425.3	425.7
150°	428.8	428.2	427.7	427.1	427.5	428.8	430.0	431.2	432.4	432.9	433.4
152.5°	436.3	435.6	435.0	434.4	434.7	435.9	437.1	438.2	439.4	439.9	440.3
155°	447.1	446.4	445.7	445.0	445.2	446.1	446.9	447.9	448.8	449.3	449.8
157.5°	455.8	455.2	454.6	454.0	454.0	454.7	455.3	456.0	456.6	457.1	457.7
160°	460.9	460.5	460.0	459.5	459.5	460.0	460.5	460.9	461.4	461.9	462.3
162.5°	465.4	464.9	464.5	464.0	464.0	464.3	464.7	465.1	465.5	466.1	466.6
165°	471.4	470.9	470.4	469.9	469.9	470.1	470.3	470.6	470.8	471.3	471.9
167.5°	475.8	475.4	474.9	474.4	474.3	474.5	474.7	475.0	475.2	475.7	476.3
170°	478.3	477.8	477.4	477.0	476.8	477.0	477.1	477.3	477.4	477.9	478.5
172.5°	480.0	479.6	479.1	478.6	478.5	478.6	478.7	478.9	479.1	479.6	480.1
175°	482.1	481.5	481.0	480.5	480.3	480.5	480.6	480.7	480.9	481.4	482.0
177.5°	482.6	482.1	481.7	481.3	481.0	481.1	481.2	481.3	481.3	481.8	482.2
180°	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6



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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°	10.1	10.2	10.3	10.3	10.4	10.4	9.9
90°	8.2	8.5	8.8	9.0	9.1	9.3	9.4
92.5°	8.7	8.9	9.0	9.1	9.2	9.3	9.4
95°	14.8	15.2	15.3	15.2	15.2	15.1	15.0
97.5°	19.2	19.4	19.6	19.7	19.8	19.9	20.0
100°	21.7	22.3	22.7	22.9	23.1	23.2	23.3
102.5°	22.8	23.6	24.1	24.4	24.6	24.8	25.0
105°	23.8	24.7	25.3	25.5	25.8	26.2	26.5
107.5°	27.1	26.3	26.0	26.3	26.7	26.9	27.2
110°	37.7	30.0	26.3	26.6	26.9	27.2	27.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	69.1	40.8	26.8	27.1	27.3	27.6	27.8
115°	107.5	71.6	50.9	45.3	39.7	34.2	28.5
117.5°	212.1	203.4	190.0	171.6	153.3	135.0	116.7
120°	258.2	259.2	254.4	243.9	233.5	223.0	212.5
122.5°	273.5	274.1	273.4	271.3	269.3	267.3	265.2
125°	296.1	296.6	297.0	297.3	297.5	297.7	297.9
127.5°	317.2	318.0	318.4	318.5	318.5	318.5	318.5
130°	330.4	331.3	331.7	331.7	331.6	331.5	331.4
132.5°	343.2	343.9	344.2	344.1	344.1	344.1	344.0
135°	361.6	362.4	362.6	362.6	362.4	362.2	362.1
137.5°	378.6	379.4	379.6	379.4	379.1	378.9	378.5
140°	389.6	390.3	390.4	390.0	389.6	389.3	388.9
142.5°	399.7	400.4	400.5	400.1	399.7	399.3	398.9
145°	413.8	414.4	414.5	414.1	413.7	413.4	412.9
147.5°	426.2	426.6	426.6	426.2	425.9	425.6	425.3
150°	433.8	434.3	434.4	434.0	433.6	433.2	432.8
152.5°	440.8	441.3	441.2	440.8	440.3	439.7	439.2
155°	450.2	450.7	450.6	450.0	449.4	448.7	448.2
157.5°	458.2	458.8	458.7	458.1	457.5	456.9	456.3
160°	462.8	463.3	463.2	462.7	462.1	461.5	461.1
162.5°	467.2	467.7	467.6	466.9	466.3	465.6	465.0
165°	472.4	473.0	473.0	472.4	471.9	471.3	470.8
167.5°	476.8	477.4	477.3	476.5	475.9	475.2	474.5
170°	479.1	479.6	479.5	478.8	478.1	477.4	476.7
172.5°	480.7	481.3	481.2	480.5	479.8	479.1	478.4
175°	482.5	483.1	483.0	482.2	481.4	480.6	479.9
177.5°	482.6	483.1	483.0	482.4	481.8	481.3	480.8
180°	481.6	481.6	481.6	481.6	481.6	481.6	481.6

(END OF REPORT)