

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: P331711-830

Luminaire Tested: **SA2XXRDIP-C865D530U830-4F0-1E-UDD-A**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331711-830  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXRDIP-C865D530U830-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 530 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

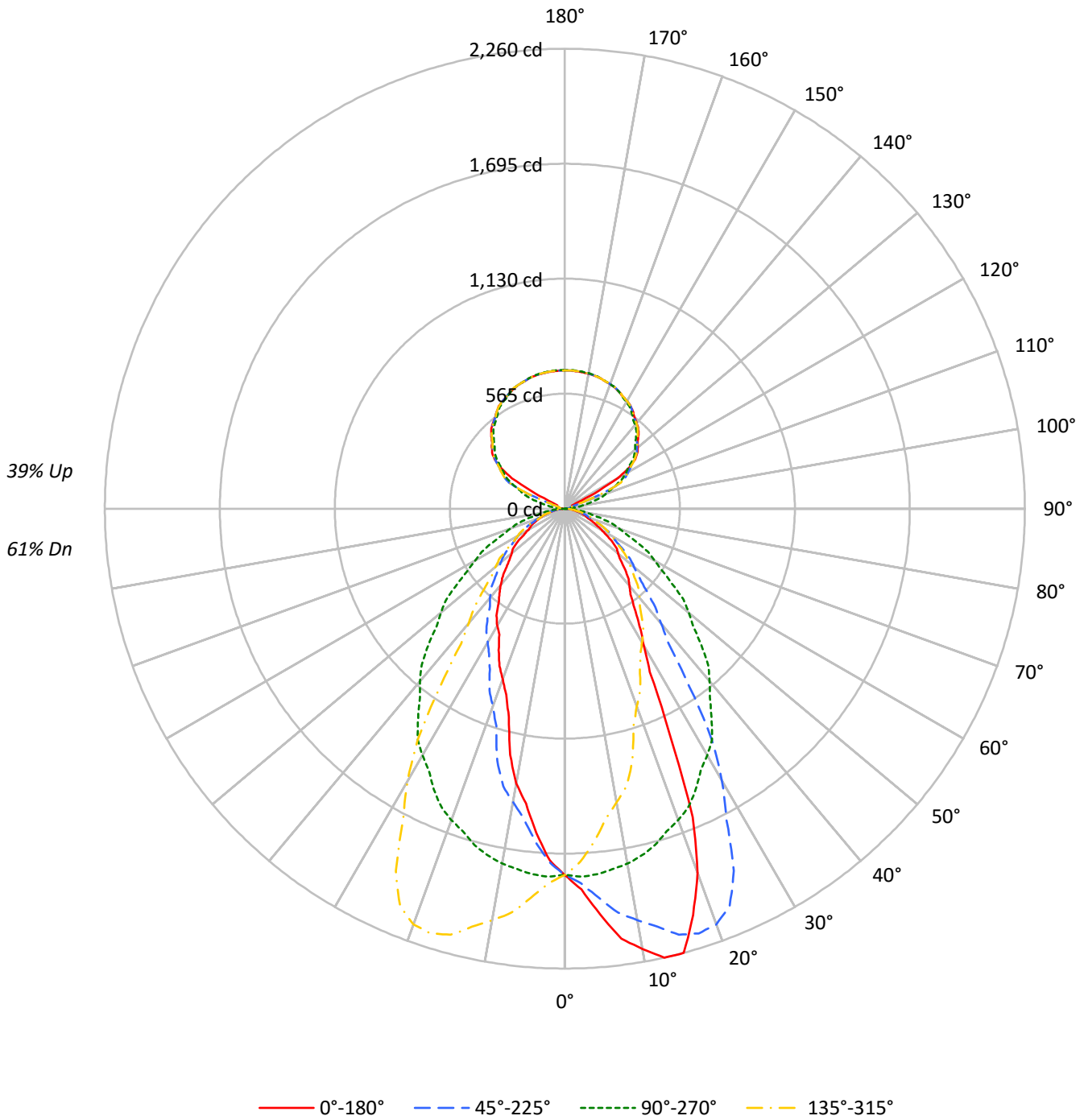
Lumens per Lamp: N/A  
Luminaire Lumens: 5104.4 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 48.8  
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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	101	97	94	90	95	91	88	85	80	78	75	70	68	66	60	59	58	53
2	93	86	80	75	87	81	76	72	71	67	64	62	59	57	54	52	50	46
3	86	77	70	64	80	72	66	61	64	59	55	56	52	49	49	46	44	40
4	79	69	61	55	74	65	58	53	57	52	48	51	47	43	44	41	39	36
5	73	62	54	48	68	58	51	46	52	47	42	46	42	38	41	37	35	32
6	68	56	48	43	63	53	46	41	47	42	38	42	38	34	37	34	31	28
7	63	51	43	38	59	48	41	37	43	38	34	39	34	31	34	31	28	26
8	59	47	39	34	55	44	38	33	40	34	30	36	31	28	32	28	26	23
9	55	43	36	31	52	41	34	30	37	31	28	33	29	26	30	26	23	21
10	51	40	33	28	48	38	31	27	34	29	25	31	27	23	28	24	22	20

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

	0°	90°	180°	270°
0°	29061	29061	29061	29061
5°	32456	29242	25929	29242
10°	36008	29037	22474	29037
15°	37778	28612	17708	28612
20°	32752	27981	15323	27981
25°	21480	27118	13682	27118
30°	14458	26071	12381	26071
35°	11710	24750	11168	24750
40°	10414	23317	10334	23317
45°	9423	21633	9225	21633
50°	8578	19964	8545	19964
55°	8062	18117	7958	18117
60°	6746	16417	6665	16417
65°	5685	14907	6449	14907
70°	5254	13312	6080	13312
75°	4916	11591	5614	11591
80°	4537	9530	5002	9530
85°	4168	7521	4409	7521



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.6	3.3
10°-20°	475.4	9.3
20°-30°	612.6	12.0
30°-40°	582.2	11.4
40°-50°	498.7	9.8
50°-60°	379.8	7.4
60°-70°	240.1	4.7
70°-80°	119.9	2.3
80°-90°	32.9	0.6
90°-100°	22.7	0.4
100°-110°	83.2	1.6
110°-120°	222.3	4.4
120°-130°	366.9	7.2
130°-140°	390.2	7.6
140°-150°	362.7	7.1
150°-160°	291.6	5.7
160°-170°	187.9	3.7
170°-180°	64.7	1.3
0°-30°	1258.6	24.7
0°-40°	1840.8	36.1
0°-60°	2719.4	53.3
0°-90°	3112.2	61.0
90°-120°	328.1	6.4
90°-150°	1447.9	28.4
90°-180°	1992.0	39.0
0°-180°	5104.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1800	1800	1800	1800	1800	
5°	2002	1804	1600	1804	2002	198
15°	2260	1712	1059	1712	2260	610
25°	1206	1522	768	1522	1206	572
35°	594	1256	567	1256	594	380
45°	413	947	404	947	413	319
55°	286	644	283	644	286	251
65°	149	390	169	390	149	152
75°	79	186	90	186	79	84
85°	22	41	24	41	22	24
90°	13	0	13	0	13	7
95°	21	32	21	32	21	20
105°	37	150	37	150	37	39
115°	40	283	40	283	40	101
125°	421	400	421	400	421	364
135°	511	495	511	495	511	394
145°	583	574	583	574	583	365
155°	632	632	632	632	632	292
165°	664	666	664	666	664	188
175°	677	681	677	681	677	65
180°	680	680	680	680	680	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1872.9	1874.4	1875.9	1872.4	1872.4	1869.4	1862.9	1857.9	1843.9	1841.9	1841.9
5°	2002.5	2001.2	2003.8	1995.6	1984.3	1981.9	1970.0	1954.4	1938.1	1920.0	1916.2
7.5°	2131.3	2129.4	2124.4	2123.1	2114.4	2095.6	2076.4	2056.1	2029.0	2002.6	1989.3
10°	2196.3	2217.0	2204.5	2182.6	2187.0	2157.6	2141.9	2115.1	2092.5	2053.1	2044.4
12.5°	2260.4	2268.5	2264.6	2252.1	2246.6	2226.1	2205.0	2181.6	2140.0	2104.7	2073.9
15°	2260.1	2272.0	2275.1	2271.4	2274.5	2273.3	2262.0	2242.6	2206.4	2167.6	2133.8
17.5°	2093.3	2101.6	2122.0	2135.9	2153.4	2190.5	2208.8	2215.8	2210.5	2188.3	2164.5
20°	1906.2	1892.4	1949.9	1979.3	2004.3	2066.9	2120.7	2141.4	2174.4	2173.9	2167.6
22.5°	1641.0	1644.3	1698.8	1733.7	1806.8	1869.3	1930.6	2008.3	2072.4	2114.8	2139.6
25°	1205.7	1229.5	1283.9	1331.4	1412.8	1529.1	1634.7	1757.4	1873.0	1964.4	2051.3
27.5°	905.6	907.3	950.5	994.4	1042.6	1137.9	1271.0	1417.4	1582.3	1718.4	1875.0
30°	775.5	771.8	789.9	816.7	858.0	931.8	1031.9	1175.7	1340.2	1545.3	1728.0
32.5°	683.4	683.6	697.3	717.2	751.5	801.3	869.8	986.7	1142.1	1343.7	1557.8
35°	594.1	593.5	603.5	617.8	632.3	664.1	711.1	772.3	879.3	1067.5	1286.4
37.5°	530.1	532.8	537.7	546.7	562.6	580.3	608.5	649.7	725.9	837.2	1021.2
40°	494.1	495.3	502.2	509.7	519.1	532.8	556.0	589.1	644.8	733.6	868.0
42.5°	461.0	462.3	467.1	474.2	481.5	495.3	514.4	543.1	588.2	657.5	768.5
45°	412.7	412.7	417.2	420.3	428.4	440.9	456.6	480.3	511.5	562.9	636.7
47.5°	367.5	367.6	370.5	375.9	381.0	390.8	406.1	425.6	448.3	488.0	551.0
50°	341.5	342.0	343.9	348.4	351.5	360.2	372.1	389.0	412.7	443.4	496.0
52.5°	320.5	320.1	322.4	324.3	326.5	332.7	341.6	356.5	377.8	404.4	447.9
55°	286.4	283.9	287.7	290.8	292.7	295.2	300.2	309.5	327.7	350.2	382.8
57.5°	243.9	242.9	245.5	248.4	254.3	261.0	265.3	271.3	280.7	296.8	329.0
60°	208.9	208.9	214.5	216.4	223.3	232.1	240.8	245.8	255.1	265.8	289.5
62.5°	177.9	178.3	181.0	182.9	186.7	197.5	209.7	220.7	229.6	239.8	255.5
65°	148.8	150.1	150.1	151.4	153.8	156.4	161.4	170.1	185.8	200.1	212.0
67.5°	126.3	126.7	127.1	128.4	128.9	131.7	133.7	137.6	141.2	154.9	169.6
70°	111.3	113.2	112.5	113.9	114.4	115.6	118.2	120.1	125.7	128.8	137.6
72.5°	97.3	98.7	98.6	99.3	100.9	101.2	103.2	105.1	108.7	111.3	116.0
75°	78.8	78.1	78.8	80.0	80.7	81.3	81.3	83.8	85.7	88.2	91.3
77.5°	60.8	61.5	61.3	61.5	61.5	62.7	62.6	63.6	65.5	66.8	68.3
80°	48.8	49.4	48.8	49.4	50.0	50.6	50.0	50.6	52.5	53.8	53.8
82.5°	37.8	37.9	38.3	38.4	38.5	38.6	39.5	39.7	41.0	40.8	41.3
85°	22.5	21.9	21.9	21.9	22.5	23.1	22.5	22.5	23.1	23.1	23.1
87.5°	10.7	11.1	11.0	11.0	11.0	10.9	10.8	11.2	10.6	10.9	10.3
90°	13.3	13.1	12.8	12.6	12.4	12.1	11.5	10.9	10.4	9.8	9.0
92.5°	13.3	13.2	13.0	12.9	12.7	12.5	12.3	12.0	11.7	11.4	10.9
95°	21.1	21.3	21.4	21.5	21.6	21.4	20.8	20.3	19.7	19.2	18.4
97.5°	28.3	28.1	28.0	27.8	27.7	27.4	27.0	26.6	26.1	25.6	23.9
100°	33.0	32.7	32.5	32.3	32.0	31.6	30.6	29.8	28.9	28.0	26.2
102.5°	35.3	35.0	34.7	34.4	34.1	33.4	32.2	31.1	30.0	28.8	44.4
105°	37.4	36.9	36.5	36.1	35.6	34.8	33.6	32.4	31.2	30.0	59.9
107.5°	38.5	38.0	37.6	37.1	36.8	37.1	38.4	39.6	40.8	42.0	77.8
110°	38.8	38.5	38.0	37.5	37.1	42.3	53.3	64.2	75.1	86.1	117.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	39.2	38.9	38.5	38.2	37.9	57.6	97.5	137.3	177.2	217.2	224.9
115°	40.3	48.2	56.1	63.9	71.8	101.0	151.7	202.3	252.9	303.5	300.8
117.5°	164.7	190.6	216.4	242.2	268.2	287.2	299.4	311.7	324.0	336.1	334.3
120°	300.0	314.8	329.6	344.3	359.1	365.8	364.5	363.2	361.8	360.5	358.5
122.5°	374.4	377.3	380.1	383.0	385.9	386.9	386.2	385.3	384.6	383.8	381.6
125°	420.6	420.3	419.9	419.6	419.2	418.7	417.9	417.2	416.4	415.7	413.6
127.5°	449.7	449.6	449.6	449.5	449.4	448.8	447.7	446.6	445.4	444.4	442.8
130°	467.8	467.9	468.0	468.1	468.3	467.7	466.5	465.2	464.1	462.9	461.7
132.5°	485.5	485.6	485.7	485.8	485.9	485.5	484.5	483.4	482.4	481.4	480.1
135°	511.0	511.3	511.5	511.7	512.0	511.5	510.4	509.3	508.2	507.1	506.1
137.5°	534.4	534.8	535.1	535.5	535.8	535.6	534.4	533.4	532.3	531.2	530.1
140°	548.9	549.5	550.1	550.5	551.1	550.9	549.9	548.9	548.0	547.0	545.7
142.5°	563.1	563.6	564.2	564.8	565.3	565.1	564.2	563.4	562.4	561.6	560.2
145°	582.9	583.4	584.0	584.6	585.0	584.9	584.2	583.4	582.7	581.9	580.0
147.5°	600.3	600.8	601.2	601.7	602.1	602.1	601.5	601.0	600.4	599.8	597.9
150°	611.0	611.4	612.0	612.6	613.1	613.0	612.4	611.7	611.1	610.4	608.7
152.5°	620.0	620.7	621.4	622.2	622.8	622.9	622.3	621.6	620.9	620.3	618.6
155°	632.5	633.5	634.3	635.2	636.0	636.2	635.6	634.9	634.2	633.6	632.3
157.5°	644.0	644.9	645.7	646.6	647.5	647.5	646.8	646.0	645.3	644.6	643.7
160°	650.7	651.5	652.3	653.1	653.8	653.8	653.2	652.5	652.0	651.3	650.6
162.5°	656.3	657.2	658.2	659.1	660.1	660.2	659.4	658.6	657.9	657.1	656.6
165°	664.5	665.3	666.1	666.8	667.6	667.6	666.8	666.1	665.3	664.5	664.2
167.5°	669.8	670.7	671.8	672.7	673.7	673.8	673.1	672.2	671.5	670.7	670.4
170°	672.9	673.9	674.9	675.8	676.8	676.9	676.2	675.4	674.7	673.9	673.6
172.5°	675.2	676.3	677.2	678.3	679.2	679.3	678.5	677.8	677.0	676.3	676.0
175°	677.3	678.4	679.5	680.6	681.7	681.8	681.1	680.3	679.6	678.8	678.5
177.5°	678.6	679.4	680.1	681.0	681.7	681.8	681.3	680.6	680.0	679.4	679.3
180°	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1842.9	1838.9	1835.4	1826.4	1821.8	1811.8	1810.3	1809.9	1796.9	1784.3	1780.8
5°	1906.2	1896.2	1881.1	1863.7	1845.5	1826.7	1814.2	1804.2	1779.2	1755.5	1741.7
7.5°	1970.0	1948.4	1922.6	1889.4	1861.8	1830.8	1807.7	1787.1	1751.6	1717.6	1694.7
10°	2017.5	1982.4	1948.0	1902.4	1866.8	1831.7	1799.2	1771.1	1731.1	1686.0	1654.2
12.5°	2047.0	2008.5	1961.1	1916.5	1870.3	1825.7	1782.3	1746.1	1699.0	1652.6	1614.6
15°	2086.9	2045.6	1988.1	1924.3	1864.9	1806.8	1756.7	1711.7	1650.4	1594.7	1548.4
17.5°	2119.6	2062.8	2001.0	1927.2	1858.4	1784.5	1720.0	1662.6	1594.3	1527.2	1472.6
20°	2130.1	2073.8	2002.5	1928.7	1847.4	1760.5	1691.0	1628.5	1555.3	1482.1	1419.7
22.5°	2123.5	2079.8	2000.5	1912.1	1828.9	1738.0	1659.5	1587.0	1505.8	1431.2	1358.6
25°	2079.4	2064.4	1989.3	1893.0	1798.0	1692.3	1601.6	1522.2	1429.6	1349.6	1270.7
27.5°	1976.5	2008.8	1962.4	1859.7	1754.1	1640.8	1538.8	1448.4	1352.4	1262.3	1183.7
30°	1877.5	1951.8	1931.8	1836.7	1718.5	1607.2	1492.8	1398.4	1295.8	1203.2	1125.7
32.5°	1741.8	1864.7	1884.3	1804.8	1682.5	1560.2	1440.3	1346.3	1239.3	1141.7	1066.1
35°	1526.0	1709.8	1794.2	1743.6	1621.0	1489.0	1365.2	1255.7	1148.2	1051.9	976.9
37.5°	1268.4	1518.8	1659.5	1663.1	1550.6	1413.3	1278.6	1169.9	1059.8	965.3	884.0
40°	1101.3	1372.7	1555.9	1596.6	1501.6	1353.3	1217.0	1106.3	998.7	906.2	813.0
42.5°	951.2	1221.6	1446.9	1517.6	1442.0	1294.8	1158.0	1042.3	937.7	850.2	755.0
45°	769.2	1005.6	1253.9	1380.3	1338.3	1202.0	1057.5	947.4	849.2	773.6	682.3
47.5°	648.9	815.5	1055.7	1226.6	1225.9	1101.5	959.3	853.9	762.8	691.9	618.0
50°	580.3	725.5	928.7	1122.6	1138.8	1034.3	899.3	794.8	709.8	635.4	576.0
52.5°	518.8	638.4	821.1	1007.0	1053.3	962.8	831.8	735.4	652.8	584.4	533.5
55°	438.4	530.9	669.8	843.7	913.7	849.9	733.6	643.6	576.6	519.1	475.3
57.5°	370.9	440.3	551.7	691.6	773.3	733.1	637.2	564.0	506.7	454.7	420.1
60°	328.3	385.2	479.7	596.6	686.6	658.6	576.6	508.4	459.7	414.6	382.1
62.5°	288.3	337.2	418.1	513.0	595.6	584.0	517.1	459.9	417.2	376.1	348.6
65°	232.1	267.7	330.8	405.3	471.6	477.2	429.0	390.2	352.1	319.6	295.2
67.5°	184.7	208.0	252.5	315.2	364.9	382.6	353.2	323.6	293.3	268.2	247.0
70°	155.7	174.5	207.0	257.7	303.3	322.1	305.2	282.0	255.8	235.2	217.0
72.5°	126.2	144.5	168.4	205.7	244.8	265.0	259.2	242.5	221.2	204.2	187.0
75°	95.1	100.7	117.0	141.9	172.6	190.1	194.5	185.8	168.8	155.7	145.7
77.5°	70.3	73.7	81.4	94.5	114.6	130.2	136.6	135.5	123.9	116.3	107.0
80°	56.3	58.2	61.9	67.6	82.6	98.2	102.5	102.5	94.4	91.3	81.9
82.5°	42.8	44.1	46.4	49.5	56.6	70.1	75.0	76.1	70.9	66.8	59.4
85°	24.4	23.8	25.0	26.9	28.2	31.9	39.4	40.6	39.4	34.4	32.5
87.5°	10.1	10.5	10.3	9.5	9.8	10.1	12.3	14.6	12.8	11.6	10.8
90°	8.1	7.3	6.3	5.3	4.1	2.9	1.7	0.5	1.7	2.9	4.1
92.5°	10.6	10.1	9.7	9.5	9.6	9.7	9.8	9.9	9.8	9.7	9.6
95°	17.6	16.9	16.1	17.5	21.1	24.8	28.4	32.0	28.4	24.8	21.1
97.5°	22.1	20.4	18.6	22.8	33.0	43.2	53.3	63.4	53.3	43.2	33.0
100°	24.3	22.4	20.6	27.1	42.1	57.1	72.1	87.1	72.1	57.1	42.1
102.5°	59.9	75.5	91.0	100.4	103.5	106.7	109.9	113.0	109.9	106.7	103.5
105°	89.7	119.5	149.4	162.7	159.4	156.1	152.8	149.5	152.8	156.1	159.4
107.5°	113.6	149.4	185.1	201.7	199.1	196.4	193.8	191.1	193.8	196.4	199.1
110°	149.3	180.9	212.4	227.1	224.8	222.5	220.2	217.9	220.2	222.5	224.8





TEST NUMBER: P331711-830

CATALOG NUMBER: SA2XXRDIP-C865D530U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	232.7	240.5	248.4	251.2	249.2	247.1	245.2	243.1	245.2	247.1	249.2
115°	298.0	295.3	292.6	290.3	288.4	286.5	284.6	282.9	284.6	286.5	288.4
117.5°	332.4	330.5	328.7	326.7	324.6	322.5	320.5	318.4	320.5	322.5	324.6
120°	356.7	354.7	352.7	350.9	349.2	347.6	345.9	344.3	345.9	347.6	349.2
122.5°	379.5	377.3	375.2	373.2	371.6	369.9	368.1	366.4	368.1	369.9	371.6
125°	411.5	409.4	407.4	405.6	404.2	402.7	401.3	399.9	401.3	402.7	404.2
127.5°	441.3	439.7	438.2	436.6	435.0	433.5	431.9	430.3	431.9	433.5	435.0
130°	460.4	459.3	458.1	456.6	454.9	453.1	451.3	449.6	451.3	453.1	454.9
132.5°	479.0	477.8	476.5	475.2	473.7	472.2	470.7	469.3	470.7	472.2	473.7
135°	505.2	504.2	503.2	501.8	500.1	498.3	496.6	494.8	496.6	498.3	500.1
137.5°	529.0	527.9	526.8	525.6	524.3	523.1	521.9	520.8	521.9	523.1	524.3
140°	544.6	543.4	542.2	541.1	540.3	539.4	538.5	537.6	538.5	539.4	540.3
142.5°	558.7	557.4	556.0	555.0	554.1	553.4	552.6	551.8	552.6	553.4	554.1
145°	578.2	576.4	574.5	573.6	573.7	573.8	573.9	574.0	573.9	573.8	573.7
147.5°	596.2	594.3	592.5	591.7	592.2	592.6	593.0	593.4	593.0	592.6	592.2
150°	606.9	605.2	603.4	602.9	603.7	604.5	605.2	606.0	605.2	604.5	603.7
152.5°	617.0	615.3	613.6	613.2	614.1	614.9	615.8	616.6	615.8	614.9	614.1
155°	630.9	629.6	628.3	628.1	629.1	630.1	631.1	632.1	631.1	630.1	629.1
157.5°	642.7	641.8	640.9	640.8	641.7	642.5	643.4	644.1	643.4	642.5	641.7
160°	650.0	649.3	648.7	648.7	649.3	650.0	650.6	651.3	650.6	650.0	649.3
162.5°	656.0	655.4	654.9	655.0	655.5	656.2	656.9	657.5	656.9	656.2	655.5
165°	663.8	663.5	663.3	663.4	664.0	664.7	665.3	666.0	665.3	664.7	664.0
167.5°	670.1	669.8	669.5	669.7	670.3	671.0	671.7	672.3	671.7	671.0	670.3
170°	673.4	673.3	673.0	673.3	673.9	674.6	675.2	675.8	675.2	674.6	673.9
172.5°	675.8	675.6	675.3	675.6	676.3	676.9	677.6	678.3	677.6	676.9	676.3
175°	678.3	678.2	678.0	678.2	679.0	679.8	680.5	681.3	680.5	679.8	679.0
177.5°	679.2	679.1	679.0	679.3	680.0	680.5	681.2	681.7	681.2	680.5	680.0
180°	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8



TEST NUMBER: P331711-830

CATALOG NUMBER: SA2XXRDIP-C865D530U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1774.3	1770.8	1764.3	1754.4	1748.3	1737.9	1730.8	1734.8	1735.8	1734.8	1733.8
5°	1726.6	1713.5	1695.4	1677.9	1661.6	1644.2	1634.1	1629.8	1621.0	1616.0	1613.5
7.5°	1669.1	1646.4	1620.7	1590.3	1564.3	1537.2	1523.3	1516.5	1498.5	1488.7	1480.3
10°	1626.0	1590.4	1564.7	1524.7	1500.3	1464.6	1440.3	1440.9	1416.5	1402.7	1392.7
12.5°	1578.5	1539.4	1496.7	1460.7	1426.7	1398.1	1368.8	1356.8	1331.0	1317.7	1290.6
15°	1499.7	1454.1	1409.0	1360.2	1325.8	1281.4	1238.9	1186.9	1145.1	1108.8	1098.8
17.5°	1413.6	1357.1	1311.9	1254.6	1195.7	1121.1	1071.8	1041.6	1016.3	997.2	983.0
20°	1354.6	1297.0	1248.9	1162.6	1083.2	1032.6	996.3	973.1	946.9	926.2	914.9
22.5°	1292.5	1232.5	1166.9	1070.5	1008.6	968.0	935.7	909.1	891.3	875.2	864.9
25°	1204.5	1138.8	1030.7	964.3	914.3	871.8	849.2	833.0	814.3	792.4	782.3
27.5°	1111.4	1007.0	929.3	880.1	832.3	804.6	784.4	760.1	743.3	733.5	723.0
30°	1041.9	937.5	876.8	823.0	789.2	758.6	734.8	721.0	704.8	688.0	681.1
32.5°	964.3	880.9	822.7	778.0	743.7	717.6	698.8	676.6	664.8	654.4	640.0
35°	868.0	804.8	751.7	715.5	683.0	661.7	639.8	626.6	605.4	596.6	591.0
37.5°	786.5	731.7	692.0	653.7	628.0	604.5	591.1	570.2	561.0	548.8	537.0
40°	740.5	686.6	648.6	617.3	588.5	571.0	554.1	537.2	523.5	517.8	503.4
42.5°	693.4	649.7	611.5	577.2	558.0	539.4	518.1	505.7	491.4	482.3	473.4
45°	628.5	589.7	557.2	529.0	507.8	488.4	474.7	454.0	445.9	427.7	420.3
47.5°	571.5	535.5	504.4	477.7	456.9	444.3	424.1	408.0	395.0	383.9	374.2
50°	530.9	501.0	470.9	447.1	428.4	410.3	389.6	381.4	361.5	355.8	350.2
52.5°	493.9	465.4	437.9	414.6	395.9	378.2	360.1	349.5	335.9	330.4	326.2
55°	442.1	414.6	388.3	367.7	348.9	330.8	319.6	306.4	300.2	295.8	290.8
57.5°	390.1	365.3	345.3	324.3	305.5	291.1	278.1	270.1	263.6	257.9	251.9
60°	357.1	333.3	315.2	295.8	276.4	264.6	254.5	245.2	237.6	228.8	226.4
62.5°	322.1	301.3	284.6	265.8	248.9	238.0	228.5	219.6	210.7	197.8	194.4
65°	273.9	257.7	240.2	224.5	209.5	198.9	185.1	175.1	171.4	170.1	169.5
67.5°	230.4	215.0	200.0	184.0	170.3	160.5	153.4	151.9	149.3	148.5	146.8
70°	201.3	187.0	172.0	156.9	143.8	141.9	139.5	137.0	133.8	132.6	131.3
72.5°	175.3	160.5	145.4	133.5	127.8	125.5	122.9	120.5	118.3	117.1	116.3
75°	134.5	120.7	110.7	106.3	103.2	101.3	97.6	95.7	94.4	92.6	91.9
77.5°	96.8	89.1	84.5	81.7	78.4	76.4	74.3	72.4	71.1	70.7	69.7
80°	73.8	70.0	66.9	63.2	61.9	59.4	58.8	56.9	57.5	55.7	55.7
82.5°	57.3	52.5	49.9	48.2	46.9	44.9	44.3	43.4	43.5	42.1	42.1
85°	29.4	28.2	26.9	25.6	25.6	23.8	24.4	23.8	23.8	22.5	21.9
87.5°	10.6	10.3	9.4	9.6	9.8	9.4	9.6	9.2	9.3	9.4	9.0
90°	5.3	6.3	7.3	8.1	9.0	9.8	10.4	10.9	11.5	12.1	12.4
92.5°	9.5	9.7	10.1	10.6	10.9	11.4	11.7	12.0	12.3	12.5	12.7
95°	17.5	16.1	16.9	17.6	18.4	19.2	19.7	20.3	20.8	21.4	21.6
97.5°	22.8	18.6	20.4	22.1	23.9	25.6	26.1	26.6	27.0	27.4	27.7
100°	27.1	20.6	22.4	24.3	26.2	28.0	28.9	29.8	30.6	31.6	32.0
102.5°	100.4	91.0	75.5	59.9	44.4	28.8	30.0	31.1	32.2	33.4	34.1
105°	162.7	149.4	119.5	89.7	59.9	30.0	31.2	32.4	33.6	34.8	35.6
107.5°	201.7	185.1	149.4	113.6	77.8	42.0	40.8	39.6	38.4	37.1	36.8
110°	227.1	212.4	180.9	149.3	117.6	86.1	75.1	64.2	53.3	42.3	37.1



TEST NUMBER: P331711-830

CATALOG NUMBER: SA2XXRDIP-C865D530U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	251.2	248.4	240.5	232.7	224.9	217.2	177.2	137.3	97.5	57.6	37.9
115°	290.3	292.6	295.3	298.0	300.8	303.5	252.9	202.3	151.7	101.0	71.8
117.5°	326.7	328.7	330.5	332.4	334.3	336.1	324.0	311.7	299.4	287.2	268.2
120°	350.9	352.7	354.7	356.7	358.5	360.5	361.8	363.2	364.5	365.8	359.1
122.5°	373.2	375.2	377.3	379.5	381.6	383.8	384.6	385.3	386.2	386.9	385.9
125°	405.6	407.4	409.4	411.5	413.6	415.7	416.4	417.2	417.9	418.7	419.2
127.5°	436.6	438.2	439.7	441.3	442.8	444.4	445.4	446.6	447.7	448.8	449.4
130°	456.6	458.1	459.3	460.4	461.7	462.9	464.1	465.2	466.5	467.7	468.3
132.5°	475.2	476.5	477.8	479.0	480.1	481.4	482.4	483.4	484.5	485.5	485.9
135°	501.8	503.2	504.2	505.2	506.1	507.1	508.2	509.3	510.4	511.5	512.0
137.5°	525.6	526.8	527.9	529.0	530.1	531.2	532.3	533.4	534.4	535.6	535.8
140°	541.1	542.2	543.4	544.6	545.7	547.0	548.0	548.9	549.9	550.9	551.1
142.5°	555.0	556.0	557.4	558.7	560.2	561.6	562.4	563.4	564.2	565.1	565.3
145°	573.6	574.5	576.4	578.2	580.0	581.9	582.7	583.4	584.2	584.9	585.0
147.5°	591.7	592.5	594.3	596.2	597.9	599.8	600.4	601.0	601.5	602.1	602.1
150°	602.9	603.4	605.2	606.9	608.7	610.4	611.1	611.7	612.4	613.0	613.1
152.5°	613.2	613.6	615.3	617.0	618.6	620.3	620.9	621.6	622.3	622.9	622.8
155°	628.1	628.3	629.6	630.9	632.3	633.6	634.2	634.9	635.6	636.2	636.0
157.5°	640.8	640.9	641.8	642.7	643.7	644.6	645.3	646.0	646.8	647.5	647.5
160°	648.7	648.7	649.3	650.0	650.6	651.3	652.0	652.5	653.2	653.8	653.8
162.5°	655.0	654.9	655.4	656.0	656.6	657.1	657.9	658.6	659.4	660.2	660.1
165°	663.4	663.3	663.5	663.8	664.2	664.5	665.3	666.1	666.8	667.6	667.6
167.5°	669.7	669.5	669.8	670.1	670.4	670.7	671.5	672.2	673.1	673.8	673.7
170°	673.3	673.0	673.3	673.4	673.6	673.9	674.7	675.4	676.2	676.9	676.8
172.5°	675.6	675.3	675.6	675.8	676.0	676.3	677.0	677.8	678.5	679.3	679.2
175°	678.2	678.0	678.2	678.3	678.5	678.8	679.6	680.3	681.1	681.8	681.7
177.5°	679.3	679.0	679.1	679.2	679.3	679.4	680.0	680.6	681.3	681.8	681.7
180°	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8



TEST NUMBER: P331711-830

CATALOG NUMBER: SA2XXRDIP-C865D530U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1728.3	1729.3	1727.8	1728.8	1727.8	1729.3	1728.3	1733.8	1734.8	1735.8	1734.8
5°	1610.3	1602.9	1601.6	1599.8	1601.6	1602.9	1610.3	1613.5	1616.0	1621.0	1629.8
7.5°	1469.5	1468.4	1465.3	1460.9	1465.3	1468.4	1469.5	1480.3	1488.7	1498.5	1516.5
10°	1378.9	1375.8	1375.3	1370.8	1375.3	1375.8	1378.9	1392.7	1402.7	1416.5	1440.9
12.5°	1272.9	1252.7	1250.7	1239.7	1250.7	1252.7	1272.9	1290.6	1317.7	1331.0	1356.8
15°	1083.8	1080.1	1067.5	1059.4	1067.5	1080.1	1083.8	1098.8	1108.8	1145.1	1186.9
17.5°	975.7	963.5	959.6	957.8	959.6	963.5	975.7	983.0	997.2	1016.3	1041.6
20°	906.2	894.9	893.1	891.8	893.1	894.9	906.2	914.9	926.2	946.9	973.1
22.5°	858.2	846.4	841.5	837.7	841.5	846.4	858.2	864.9	875.2	891.3	909.1
25°	776.1	771.8	769.2	768.0	769.2	771.8	776.1	782.3	792.4	814.3	833.0
27.5°	711.9	702.3	700.4	697.2	700.4	702.3	711.9	723.0	733.5	743.3	760.1
30°	675.4	672.3	667.9	664.1	667.9	672.3	675.4	681.1	688.0	704.8	721.0
32.5°	632.4	629.8	625.8	624.2	625.8	629.8	632.4	640.0	654.4	664.8	676.6
35°	584.8	576.0	572.2	566.6	572.2	576.0	584.8	591.0	596.6	605.4	626.6
37.5°	534.3	529.7	524.4	526.3	524.4	529.7	534.3	537.0	548.8	561.0	570.2
40°	495.3	492.2	491.0	490.3	491.0	492.2	495.3	503.4	517.8	523.5	537.2
42.5°	464.3	455.6	452.4	452.2	452.4	455.6	464.3	473.4	482.3	491.4	505.7
45°	417.2	409.0	403.4	404.0	403.4	409.0	417.2	420.3	427.7	445.9	454.0
47.5°	368.8	368.6	365.1	366.3	365.1	368.6	368.8	374.2	383.9	395.0	408.0
50°	345.8	342.0	339.6	340.2	339.6	342.0	345.8	350.2	355.8	361.5	381.4
52.5°	323.9	320.6	318.6	321.2	318.6	320.6	323.9	326.2	330.4	335.9	349.5
55°	287.7	283.9	283.3	282.7	283.3	283.9	287.7	290.8	295.8	300.2	306.4
57.5°	247.3	244.8	241.0	239.4	241.0	244.8	247.3	251.9	257.9	263.6	270.1
60°	218.3	213.3	207.0	206.4	207.0	213.3	218.3	226.4	228.8	237.6	245.2
62.5°	191.7	190.8	189.5	189.4	189.5	190.8	191.7	194.4	197.8	210.7	219.6
65°	168.2	167.6	168.2	168.8	168.2	167.6	168.2	169.5	170.1	171.4	175.1
67.5°	146.6	145.4	144.3	144.9	144.3	145.4	146.6	146.8	148.5	149.3	151.9
70°	130.1	129.4	128.8	128.8	128.8	129.4	130.1	131.3	132.6	133.8	137.0
72.5°	114.0	114.0	113.3	112.8	113.3	114.0	114.0	116.3	117.1	118.3	120.5
75°	91.3	90.0	90.0	90.0	90.0	90.0	91.3	91.9	92.6	94.4	95.7
77.5°	69.6	68.9	68.3	67.8	68.3	68.9	69.6	69.7	70.7	71.1	72.4
80°	55.0	54.4	53.8	53.8	53.8	54.4	55.0	55.7	55.7	57.5	56.9
82.5°	42.0	41.4	41.3	40.8	41.3	41.4	42.0	42.1	42.1	43.5	43.4
85°	22.5	23.1	22.5	23.8	22.5	23.1	22.5	21.9	22.5	23.8	23.8
87.5°	9.0	8.6	9.1	8.7	9.1	8.6	9.0	9.0	9.4	9.3	9.2
90°	12.6	12.8	13.1	13.3	13.1	12.8	12.6	12.4	12.1	11.5	10.9
92.5°	12.9	13.0	13.2	13.3	13.2	13.0	12.9	12.7	12.5	12.3	12.0
95°	21.5	21.4	21.3	21.1	21.3	21.4	21.5	21.6	21.4	20.8	20.3
97.5°	27.8	28.0	28.1	28.3	28.1	28.0	27.8	27.7	27.4	27.0	26.6
100°	32.3	32.5	32.7	33.0	32.7	32.5	32.3	32.0	31.6	30.6	29.8
102.5°	34.4	34.7	35.0	35.3	35.0	34.7	34.4	34.1	33.4	32.2	31.1
105°	36.1	36.5	36.9	37.4	36.9	36.5	36.1	35.6	34.8	33.6	32.4
107.5°	37.1	37.6	38.0	38.5	38.0	37.6	37.1	36.8	37.1	38.4	39.6
110°	37.5	38.0	38.5	38.8	38.5	38.0	37.5	37.1	42.3	53.3	64.2



TEST NUMBER: P331711-830  
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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	38.2	38.5	38.9	39.2	38.9	38.5	38.2	37.9	57.6	97.5	137.3
115°	63.9	56.1	48.2	40.3	48.2	56.1	63.9	71.8	101.0	151.7	202.3
117.5°	242.2	216.4	190.6	164.7	190.6	216.4	242.2	268.2	287.2	299.4	311.7
120°	344.3	329.6	314.8	300.0	314.8	329.6	344.3	359.1	365.8	364.5	363.2
122.5°	383.0	380.1	377.3	374.4	377.3	380.1	383.0	385.9	386.9	386.2	385.3
125°	419.6	419.9	420.3	420.6	420.3	419.9	419.6	419.2	418.7	417.9	417.2
127.5°	449.5	449.6	449.6	449.7	449.6	449.6	449.5	449.4	448.8	447.7	446.6
130°	468.1	468.0	467.9	467.8	467.9	468.0	468.1	468.3	467.7	466.5	465.2
132.5°	485.8	485.7	485.6	485.5	485.6	485.7	485.8	485.9	485.5	484.5	483.4
135°	511.7	511.5	511.3	511.0	511.3	511.5	511.7	512.0	511.5	510.4	509.3
137.5°	535.5	535.1	534.8	534.4	534.8	535.1	535.5	535.8	535.6	534.4	533.4
140°	550.5	550.1	549.5	548.9	549.5	550.1	550.5	551.1	550.9	549.9	548.9
142.5°	564.8	564.2	563.6	563.1	563.6	564.2	564.8	565.3	565.1	564.2	563.4
145°	584.6	584.0	583.4	582.9	583.4	584.0	584.6	585.0	584.9	584.2	583.4
147.5°	601.7	601.2	600.8	600.3	600.8	601.2	601.7	602.1	602.1	601.5	601.0
150°	612.6	612.0	611.4	611.0	611.4	612.0	612.6	613.1	613.0	612.4	611.7
152.5°	622.2	621.4	620.7	620.0	620.7	621.4	622.2	622.8	622.9	622.3	621.6
155°	635.2	634.3	633.5	632.5	633.5	634.3	635.2	636.0	636.2	635.6	634.9
157.5°	646.6	645.7	644.9	644.0	644.9	645.7	646.6	647.5	647.5	646.8	646.0
160°	653.1	652.3	651.5	650.7	651.5	652.3	653.1	653.8	653.8	653.2	652.5
162.5°	659.1	658.2	657.2	656.3	657.2	658.2	659.1	660.1	660.2	659.4	658.6
165°	666.8	666.1	665.3	664.5	665.3	666.1	666.8	667.6	667.6	666.8	666.1
167.5°	672.7	671.8	670.7	669.8	670.7	671.8	672.7	673.7	673.8	673.1	672.2
170°	675.8	674.9	673.9	672.9	673.9	674.9	675.8	676.8	676.9	676.2	675.4
172.5°	678.3	677.2	676.3	675.2	676.3	677.2	678.3	679.2	679.3	678.5	677.8
175°	680.6	679.5	678.4	677.3	678.4	679.5	680.6	681.7	681.8	681.1	680.3
177.5°	681.0	680.1	679.4	678.6	679.4	680.1	681.0	681.7	681.8	681.3	680.6
180°	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8



TEST NUMBER: P331711-830

CATALOG NUMBER: SA2XXRDIP-C865D530U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1730.8	1737.9	1748.3	1754.4	1764.3	1770.8	1774.3	1780.8	1784.3	1796.9	1809.9
5°	1634.1	1644.2	1661.6	1677.9	1695.4	1713.5	1726.6	1741.7	1755.5	1779.2	1804.2
7.5°	1523.3	1537.2	1564.3	1590.3	1620.7	1646.4	1669.1	1694.7	1717.6	1751.6	1787.1
10°	1440.3	1464.6	1500.3	1524.7	1564.7	1590.4	1626.0	1654.2	1686.0	1731.1	1771.1
12.5°	1368.8	1398.1	1426.7	1460.7	1496.7	1539.4	1578.5	1614.6	1652.6	1699.0	1746.1
15°	1238.9	1281.4	1325.8	1360.2	1409.0	1454.1	1499.7	1548.4	1594.7	1650.4	1711.7
17.5°	1071.8	1121.1	1195.7	1254.6	1311.9	1357.1	1413.6	1472.6	1527.2	1594.3	1662.6
20°	996.3	1032.6	1083.2	1162.6	1248.9	1297.0	1354.6	1419.7	1482.1	1555.3	1628.5
22.5°	935.7	968.0	1008.6	1070.5	1166.9	1232.5	1292.5	1358.6	1431.2	1505.8	1587.0
25°	849.2	871.8	914.3	964.3	1030.7	1138.8	1204.5	1270.7	1349.6	1429.6	1522.2
27.5°	784.4	804.6	832.3	880.1	929.3	1007.0	1111.4	1183.7	1262.3	1352.4	1448.4
30°	734.8	758.6	789.2	823.0	876.8	937.5	1041.9	1125.7	1203.2	1295.8	1398.4
32.5°	698.8	717.6	743.7	778.0	822.7	880.9	964.3	1066.1	1141.7	1239.3	1346.3
35°	639.8	661.7	683.0	715.5	751.7	804.8	868.0	976.9	1051.9	1148.2	1255.7
37.5°	591.1	604.5	628.0	653.7	692.0	731.7	786.5	884.0	965.3	1059.8	1169.9
40°	554.1	571.0	588.5	617.3	648.6	686.6	740.5	813.0	906.2	998.7	1106.3
42.5°	518.1	539.4	558.0	577.2	611.5	649.7	693.4	755.0	850.2	937.7	1042.3
45°	474.7	488.4	507.8	529.0	557.2	589.7	628.5	682.3	773.6	849.2	947.4
47.5°	424.1	444.3	456.9	477.7	504.4	535.5	571.5	618.0	691.9	762.8	853.9
50°	389.6	410.3	428.4	447.1	470.9	501.0	530.9	576.0	635.4	709.8	794.8
52.5°	360.1	378.2	395.9	414.6	437.9	465.4	493.9	533.5	584.4	652.8	735.4
55°	319.6	330.8	348.9	367.7	388.3	414.6	442.1	475.3	519.1	576.6	643.6
57.5°	278.1	291.1	305.5	324.3	345.3	365.3	390.1	420.1	454.7	506.7	564.0
60°	254.5	264.6	276.4	295.8	315.2	333.3	357.1	382.1	414.6	459.7	508.4
62.5°	228.5	238.0	248.9	265.8	284.6	301.3	322.1	348.6	376.1	417.2	459.9
65°	185.1	198.9	209.5	224.5	240.2	257.7	273.9	295.2	319.6	352.1	390.2
67.5°	153.4	160.5	170.3	184.0	200.0	215.0	230.4	247.0	268.2	293.3	323.6
70°	139.5	141.9	143.8	156.9	172.0	187.0	201.3	217.0	235.2	255.8	282.0
72.5°	122.9	125.5	127.8	133.5	145.4	160.5	175.3	187.0	204.2	221.2	242.5
75°	97.6	101.3	103.2	106.3	110.7	120.7	134.5	145.7	155.7	168.8	185.8
77.5°	74.3	76.4	78.4	81.7	84.5	89.1	96.8	107.0	116.3	123.9	135.5
80°	58.8	59.4	61.9	63.2	66.9	70.0	73.8	81.9	91.3	94.4	102.5
82.5°	44.3	44.9	46.9	48.2	49.9	52.5	57.3	59.4	66.8	70.9	76.1
85°	24.4	23.8	25.6	25.6	26.9	28.2	29.4	32.5	34.4	39.4	40.6
87.5°	9.6	9.4	9.8	9.6	9.4	10.3	10.6	10.8	11.6	12.8	14.6
90°	10.4	9.8	9.0	8.1	7.3	6.3	5.3	4.1	2.9	1.7	0.5
92.5°	11.7	11.4	10.9	10.6	10.1	9.7	9.5	9.6	9.7	9.8	9.9
95°	19.7	19.2	18.4	17.6	16.9	16.1	17.5	21.1	24.8	28.4	32.0
97.5°	26.1	25.6	23.9	22.1	20.4	18.6	22.8	33.0	43.2	53.3	63.4
100°	28.9	28.0	26.2	24.3	22.4	20.6	27.1	42.1	57.1	72.1	87.1
102.5°	30.0	28.8	44.4	59.9	75.5	91.0	100.4	103.5	106.7	109.9	113.0
105°	31.2	30.0	59.9	89.7	119.5	149.4	162.7	159.4	156.1	152.8	149.5
107.5°	40.8	42.0	77.8	113.6	149.4	185.1	201.7	199.1	196.4	193.8	191.1
110°	75.1	86.1	117.6	149.3	180.9	212.4	227.1	224.8	222.5	220.2	217.9



TEST NUMBER: P331711-830

CATALOG NUMBER: SA2XXRDIP-C865D530U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	177.2	217.2	224.9	232.7	240.5	248.4	251.2	249.2	247.1	245.2	243.1
115°	252.9	303.5	300.8	298.0	295.3	292.6	290.3	288.4	286.5	284.6	282.9
117.5°	324.0	336.1	334.3	332.4	330.5	328.7	326.7	324.6	322.5	320.5	318.4
120°	361.8	360.5	358.5	356.7	354.7	352.7	350.9	349.2	347.6	345.9	344.3
122.5°	384.6	383.8	381.6	379.5	377.3	375.2	373.2	371.6	369.9	368.1	366.4
125°	416.4	415.7	413.6	411.5	409.4	407.4	405.6	404.2	402.7	401.3	399.9
127.5°	445.4	444.4	442.8	441.3	439.7	438.2	436.6	435.0	433.5	431.9	430.3
130°	464.1	462.9	461.7	460.4	459.3	458.1	456.6	454.9	453.1	451.3	449.6
132.5°	482.4	481.4	480.1	479.0	477.8	476.5	475.2	473.7	472.2	470.7	469.3
135°	508.2	507.1	506.1	505.2	504.2	503.2	501.8	500.1	498.3	496.6	494.8
137.5°	532.3	531.2	530.1	529.0	527.9	526.8	525.6	524.3	523.1	521.9	520.8
140°	548.0	547.0	545.7	544.6	543.4	542.2	541.1	540.3	539.4	538.5	537.6
142.5°	562.4	561.6	560.2	558.7	557.4	556.0	555.0	554.1	553.4	552.6	551.8
145°	582.7	581.9	580.0	578.2	576.4	574.5	573.6	573.7	573.8	573.9	574.0
147.5°	600.4	599.8	597.9	596.2	594.3	592.5	591.7	592.2	592.6	593.0	593.4
150°	611.1	610.4	608.7	606.9	605.2	603.4	602.9	603.7	604.5	605.2	606.0
152.5°	620.9	620.3	618.6	617.0	615.3	613.6	613.2	614.1	614.9	615.8	616.6
155°	634.2	633.6	632.3	630.9	629.6	628.3	628.1	629.1	630.1	631.1	632.1
157.5°	645.3	644.6	643.7	642.7	641.8	640.9	640.8	641.7	642.5	643.4	644.1
160°	652.0	651.3	650.6	650.0	649.3	648.7	648.7	649.3	650.0	650.6	651.3
162.5°	657.9	657.1	656.6	656.0	655.4	654.9	655.0	655.5	656.2	656.9	657.5
165°	665.3	664.5	664.2	663.8	663.5	663.3	663.4	664.0	664.7	665.3	666.0
167.5°	671.5	670.7	670.4	670.1	669.8	669.5	669.7	670.3	671.0	671.7	672.3
170°	674.7	673.9	673.6	673.4	673.3	673.0	673.3	673.9	674.6	675.2	675.8
172.5°	677.0	676.3	676.0	675.8	675.6	675.3	675.6	676.3	676.9	677.6	678.3
175°	679.6	678.8	678.5	678.3	678.2	678.0	678.2	679.0	679.8	680.5	681.3
177.5°	680.0	679.4	679.3	679.2	679.1	679.0	679.3	680.0	680.5	681.2	681.7
180°	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8



TEST NUMBER: P331711-830

CATALOG NUMBER: SA2XXRDIP-C865D530U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1810.3	1811.8	1821.8	1826.4	1835.4	1838.9	1842.9	1841.9	1841.9	1843.9	1857.9
5°	1814.2	1826.7	1845.5	1863.7	1881.1	1896.2	1906.2	1916.2	1920.0	1938.1	1954.4
7.5°	1807.7	1830.8	1861.8	1889.4	1922.6	1948.4	1970.0	1989.3	2002.6	2029.0	2056.1
10°	1799.2	1831.7	1866.8	1902.4	1948.0	1982.4	2017.5	2044.4	2053.1	2092.5	2115.1
12.5°	1782.3	1825.7	1870.3	1916.5	1961.1	2008.5	2047.0	2073.9	2104.7	2140.0	2181.6
15°	1756.7	1806.8	1864.9	1924.3	1988.1	2045.6	2086.9	2133.8	2167.6	2206.4	2242.6
17.5°	1720.0	1784.5	1858.4	1927.2	2001.0	2062.8	2119.6	2164.5	2188.3	2210.5	2215.8
20°	1691.0	1760.5	1847.4	1928.7	2002.5	2073.8	2130.1	2167.6	2173.9	2174.4	2141.4
22.5°	1659.5	1738.0	1828.9	1912.1	2000.5	2079.8	2123.5	2139.6	2114.8	2072.4	2008.3
25°	1601.6	1692.3	1798.0	1893.0	1989.3	2064.4	2079.4	2051.3	1964.4	1873.0	1757.4
27.5°	1538.8	1640.8	1754.1	1859.7	1962.4	2008.8	1976.5	1875.0	1718.4	1582.3	1417.4
30°	1492.8	1607.2	1718.5	1836.7	1931.8	1951.8	1877.5	1728.0	1545.3	1340.2	1175.7
32.5°	1440.3	1560.2	1682.5	1804.8	1884.3	1864.7	1741.8	1557.8	1343.7	1142.1	986.7
35°	1365.2	1489.0	1621.0	1743.6	1794.2	1709.8	1526.0	1286.4	1067.5	879.3	772.3
37.5°	1278.6	1413.3	1550.6	1663.1	1659.5	1518.8	1268.4	1021.2	837.2	725.9	649.7
40°	1217.0	1353.3	1501.6	1596.6	1555.9	1372.7	1101.3	868.0	733.6	644.8	589.1
42.5°	1158.0	1294.8	1442.0	1517.6	1446.9	1221.6	951.2	768.5	657.5	588.2	543.1
45°	1057.5	1202.0	1338.3	1380.3	1253.9	1005.6	769.2	636.7	562.9	511.5	480.3
47.5°	959.3	1101.5	1225.9	1226.6	1055.7	815.5	648.9	551.0	488.0	448.3	425.6
50°	899.3	1034.3	1138.8	1122.6	928.7	725.5	580.3	496.0	443.4	412.7	389.0
52.5°	831.8	962.8	1053.3	1007.0	821.1	638.4	518.8	447.9	404.4	377.8	356.5
55°	733.6	849.9	913.7	843.7	669.8	530.9	438.4	382.8	350.2	327.7	309.5
57.5°	637.2	733.1	773.3	691.6	551.7	440.3	370.9	329.0	296.8	280.7	271.3
60°	576.6	658.6	686.6	596.6	479.7	385.2	328.3	289.5	265.8	255.1	245.8
62.5°	517.1	584.0	595.6	513.0	418.1	337.2	288.3	255.5	239.8	229.6	220.7
65°	429.0	477.2	471.6	405.3	330.8	267.7	232.1	212.0	200.1	185.8	170.1
67.5°	353.2	382.6	364.9	315.2	252.5	208.0	184.7	169.6	154.9	141.2	137.6
70°	305.2	322.1	303.3	257.7	207.0	174.5	155.7	137.6	128.8	125.7	120.1
72.5°	259.2	265.0	244.8	205.7	168.4	144.5	126.2	116.0	111.3	108.7	105.1
75°	194.5	190.1	172.6	141.9	117.0	100.7	95.1	91.3	88.2	85.7	83.8
77.5°	136.6	130.2	114.6	94.5	81.4	73.7	70.3	68.3	66.8	65.5	63.6
80°	102.5	98.2	82.6	67.6	61.9	58.2	56.3	53.8	53.8	52.5	50.6
82.5°	75.0	70.1	56.6	49.5	46.4	44.1	42.8	41.3	40.8	41.0	39.7
85°	39.4	31.9	28.2	26.9	25.0	23.8	24.4	23.1	23.1	23.1	22.5
87.5°	12.3	10.1	9.8	9.5	10.3	10.5	10.1	10.3	10.9	10.6	11.2
90°	1.7	2.9	4.1	5.3	6.3	7.3	8.1	9.0	9.8	10.4	10.9
92.5°	9.8	9.7	9.6	9.5	9.7	10.1	10.6	10.9	11.4	11.7	12.0
95°	28.4	24.8	21.1	17.5	16.1	16.9	17.6	18.4	19.2	19.7	20.3
97.5°	53.3	43.2	33.0	22.8	18.6	20.4	22.1	23.9	25.6	26.1	26.6
100°	72.1	57.1	42.1	27.1	20.6	22.4	24.3	26.2	28.0	28.9	29.8
102.5°	109.9	106.7	103.5	100.4	91.0	75.5	59.9	44.4	28.8	30.0	31.1
105°	152.8	156.1	159.4	162.7	149.4	119.5	89.7	59.9	30.0	31.2	32.4
107.5°	193.8	196.4	199.1	201.7	185.1	149.4	113.6	77.8	42.0	40.8	39.6
110°	220.2	222.5	224.8	227.1	212.4	180.9	149.3	117.6	86.1	75.1	64.2





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	245.2	247.1	249.2	251.2	248.4	240.5	232.7	224.9	217.2	177.2	137.3
115°	284.6	286.5	288.4	290.3	292.6	295.3	298.0	300.8	303.5	252.9	202.3
117.5°	320.5	322.5	324.6	326.7	328.7	330.5	332.4	334.3	336.1	324.0	311.7
120°	345.9	347.6	349.2	350.9	352.7	354.7	356.7	358.5	360.5	361.8	363.2
122.5°	368.1	369.9	371.6	373.2	375.2	377.3	379.5	381.6	383.8	384.6	385.3
125°	401.3	402.7	404.2	405.6	407.4	409.4	411.5	413.6	415.7	416.4	417.2
127.5°	431.9	433.5	435.0	436.6	438.2	439.7	441.3	442.8	444.4	445.4	446.6
130°	451.3	453.1	454.9	456.6	458.1	459.3	460.4	461.7	462.9	464.1	465.2
132.5°	470.7	472.2	473.7	475.2	476.5	477.8	479.0	480.1	481.4	482.4	483.4
135°	496.6	498.3	500.1	501.8	503.2	504.2	505.2	506.1	507.1	508.2	509.3
137.5°	521.9	523.1	524.3	525.6	526.8	527.9	529.0	530.1	531.2	532.3	533.4
140°	538.5	539.4	540.3	541.1	542.2	543.4	544.6	545.7	547.0	548.0	548.9
142.5°	552.6	553.4	554.1	555.0	556.0	557.4	558.7	560.2	561.6	562.4	563.4
145°	573.9	573.8	573.7	573.6	574.5	576.4	578.2	580.0	581.9	582.7	583.4
147.5°	593.0	592.6	592.2	591.7	592.5	594.3	596.2	597.9	599.8	600.4	601.0
150°	605.2	604.5	603.7	602.9	603.4	605.2	606.9	608.7	610.4	611.1	611.7
152.5°	615.8	614.9	614.1	613.2	613.6	615.3	617.0	618.6	620.3	620.9	621.6
155°	631.1	630.1	629.1	628.1	628.3	629.6	630.9	632.3	633.6	634.2	634.9
157.5°	643.4	642.5	641.7	640.8	640.9	641.8	642.7	643.7	644.6	645.3	646.0
160°	650.6	650.0	649.3	648.7	648.7	649.3	650.0	650.6	651.3	652.0	652.5
162.5°	656.9	656.2	655.5	655.0	654.9	655.4	656.0	656.6	657.1	657.9	658.6
165°	665.3	664.7	664.0	663.4	663.3	663.5	663.8	664.2	664.5	665.3	666.1
167.5°	671.7	671.0	670.3	669.7	669.5	669.8	670.1	670.4	670.7	671.5	672.2
170°	675.2	674.6	673.9	673.3	673.0	673.3	673.4	673.6	673.9	674.7	675.4
172.5°	677.6	676.9	676.3	675.6	675.3	675.6	675.8	676.0	676.3	677.0	677.8
175°	680.5	679.8	679.0	678.2	678.0	678.2	678.3	678.5	678.8	679.6	680.3
177.5°	681.2	680.5	680.0	679.3	679.0	679.1	679.2	679.3	679.4	680.0	680.6
180°	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1862.9	1869.4	1872.4	1872.4	1875.9	1874.4	1872.9
5°	1970.0	1981.9	1984.3	1995.6	2003.8	2001.2	2002.5
7.5°	2076.4	2095.6	2114.4	2123.1	2124.4	2129.4	2131.3
10°	2141.9	2157.6	2187.0	2182.6	2204.5	2217.0	2196.3
12.5°	2205.0	2226.1	2246.6	2252.1	2264.6	2268.5	2260.4
15°	2262.0	2273.3	2274.5	2271.4	2275.1	2272.0	2260.1
17.5°	2208.8	2190.5	2153.4	2135.9	2122.0	2101.6	2093.3
20°	2120.7	2066.9	2004.3	1979.3	1949.9	1892.4	1906.2
22.5°	1930.6	1869.3	1806.8	1733.7	1698.8	1644.3	1641.0
25°	1634.7	1529.1	1412.8	1331.4	1283.9	1229.5	1205.7
27.5°	1271.0	1137.9	1042.6	994.4	950.5	907.3	905.6
30°	1031.9	931.8	858.0	816.7	789.9	771.8	775.5
32.5°	869.8	801.3	751.5	717.2	697.3	683.6	683.4
35°	711.1	664.1	632.3	617.8	603.5	593.5	594.1
37.5°	608.5	580.3	562.6	546.7	537.7	532.8	530.1
40°	556.0	532.8	519.1	509.7	502.2	495.3	494.1
42.5°	514.4	495.3	481.5	474.2	467.1	462.3	461.0
45°	456.6	440.9	428.4	420.3	417.2	412.7	412.7
47.5°	406.1	390.8	381.0	375.9	370.5	367.6	367.5
50°	372.1	360.2	351.5	348.4	343.9	342.0	341.5
52.5°	341.6	332.7	326.5	324.3	322.4	320.1	320.5
55°	300.2	295.2	292.7	290.8	287.7	283.9	286.4
57.5°	265.3	261.0	254.3	248.4	245.5	242.9	243.9
60°	240.8	232.1	223.3	216.4	214.5	208.9	208.9
62.5°	209.7	197.5	186.7	182.9	181.0	178.3	177.9
65°	161.4	156.4	153.8	151.4	150.1	150.1	148.8
67.5°	133.7	131.7	128.9	128.4	127.1	126.7	126.3
70°	118.2	115.6	114.4	113.9	112.5	113.2	111.3
72.5°	103.2	101.2	100.9	99.3	98.6	98.7	97.3
75°	81.3	81.3	80.7	80.0	78.8	78.1	78.8
77.5°	62.6	62.7	61.5	61.5	61.3	61.5	60.8
80°	50.0	50.6	50.0	49.4	48.8	49.4	48.8
82.5°	39.5	38.6	38.5	38.4	38.3	37.9	37.8
85°	22.5	23.1	22.5	21.9	21.9	21.9	22.5
87.5°	10.8	10.9	11.0	11.0	11.0	11.1	10.7
90°	11.5	12.1	12.4	12.6	12.8	13.1	13.3
92.5°	12.3	12.5	12.7	12.9	13.0	13.2	13.3
95°	20.8	21.4	21.6	21.5	21.4	21.3	21.1
97.5°	27.0	27.4	27.7	27.8	28.0	28.1	28.3
100°	30.6	31.6	32.0	32.3	32.5	32.7	33.0
102.5°	32.2	33.4	34.1	34.4	34.7	35.0	35.3
105°	33.6	34.8	35.6	36.1	36.5	36.9	37.4
107.5°	38.4	37.1	36.8	37.1	37.6	38.0	38.5
110°	53.3	42.3	37.1	37.5	38.0	38.5	38.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	97.5	57.6	37.9	38.2	38.5	38.9	39.2
115°	151.7	101.0	71.8	63.9	56.1	48.2	40.3
117.5°	299.4	287.2	268.2	242.2	216.4	190.6	164.7
120°	364.5	365.8	359.1	344.3	329.6	314.8	300.0
122.5°	386.2	386.9	385.9	383.0	380.1	377.3	374.4
125°	417.9	418.7	419.2	419.6	419.9	420.3	420.6
127.5°	447.7	448.8	449.4	449.5	449.6	449.6	449.7
130°	466.5	467.7	468.3	468.1	468.0	467.9	467.8
132.5°	484.5	485.5	485.9	485.8	485.7	485.6	485.5
135°	510.4	511.5	512.0	511.7	511.5	511.3	511.0
137.5°	534.4	535.6	535.8	535.5	535.1	534.8	534.4
140°	549.9	550.9	551.1	550.5	550.1	549.5	548.9
142.5°	564.2	565.1	565.3	564.8	564.2	563.6	563.1
145°	584.2	584.9	585.0	584.6	584.0	583.4	582.9
147.5°	601.5	602.1	602.1	601.7	601.2	600.8	600.3
150°	612.4	613.0	613.1	612.6	612.0	611.4	611.0
152.5°	622.3	622.9	622.8	622.2	621.4	620.7	620.0
155°	635.6	636.2	636.0	635.2	634.3	633.5	632.5
157.5°	646.8	647.5	647.5	646.6	645.7	644.9	644.0
160°	653.2	653.8	653.8	653.1	652.3	651.5	650.7
162.5°	659.4	660.2	660.1	659.1	658.2	657.2	656.3
165°	666.8	667.6	667.6	666.8	666.1	665.3	664.5
167.5°	673.1	673.8	673.7	672.7	671.8	670.7	669.8
170°	676.2	676.9	676.8	675.8	674.9	673.9	672.9
172.5°	678.5	679.3	679.2	678.3	677.2	676.3	675.2
175°	681.1	681.8	681.7	680.6	679.5	678.4	677.3
177.5°	681.3	681.8	681.7	681.0	680.1	679.4	678.6
180°	679.8	679.8	679.8	679.8	679.8	679.8	679.8

(END OF REPORT)