

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: P331561-940

Luminaire Tested: **S122DIW-S865D710U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331561-940  
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: S122DIW-S865D710U940-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 710 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

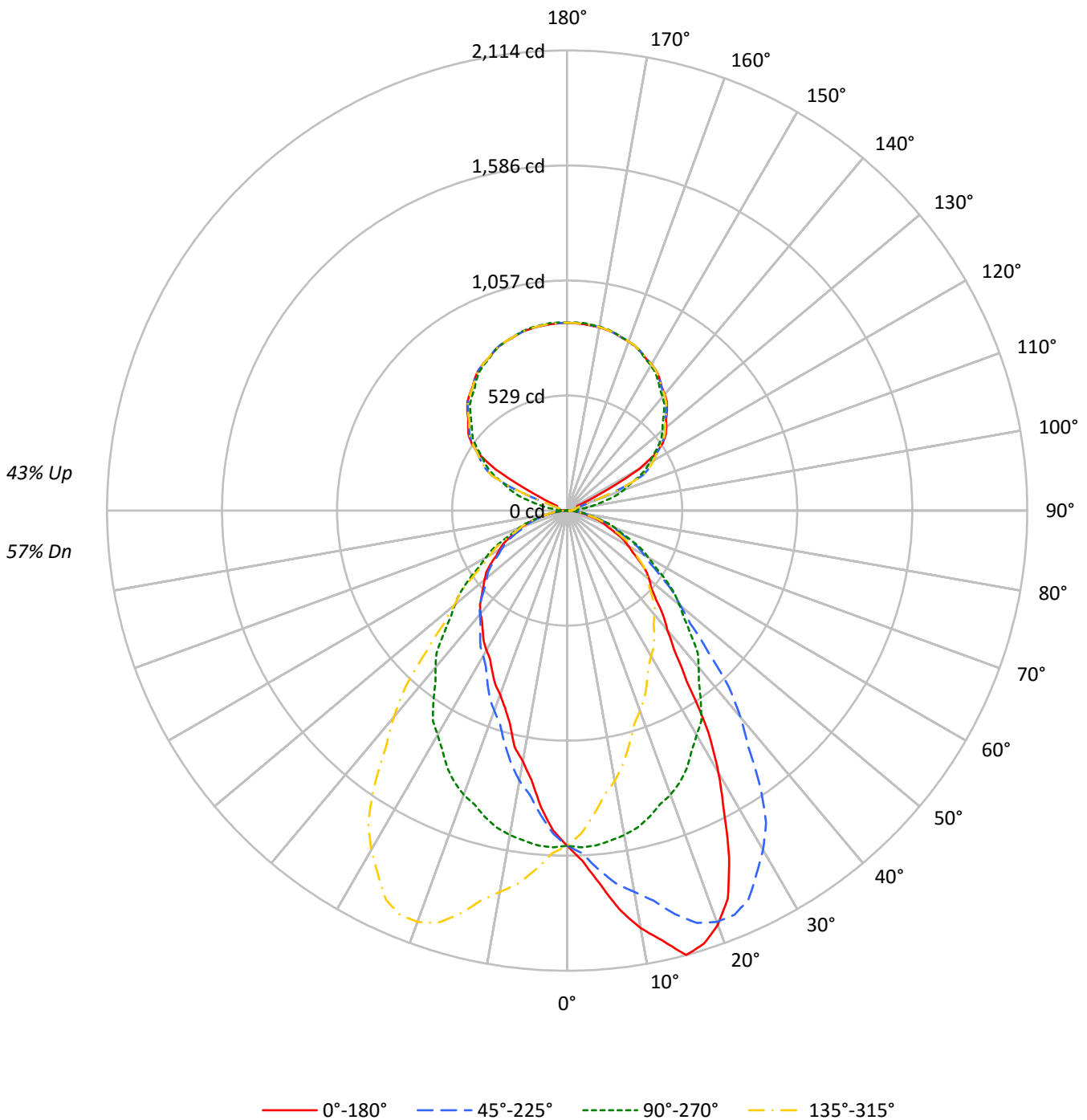
Lumens per Lamp: N/A  
Luminaire Lumens: 5926.9 lumens  
Efficiency: N/A  
Efficacy: 110.6 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 53.6  
Input Voltage (V): 120  
Input Current (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	109	109	109	109	101	101	101	101	87	87	87	75	75	75	63	63	63	57
1	100	96	92	89	93	89	86	83	77	75	73	67	65	63	56	55	54	49
2	91	84	78	73	85	79	74	69	69	65	61	59	56	54	50	48	46	42
3	84	75	67	62	78	70	64	59	61	56	52	53	49	46	45	42	40	36
4	77	66	59	53	72	62	55	50	55	49	45	47	43	40	41	38	35	32
5	71	60	52	46	66	56	49	44	49	44	39	43	38	35	37	34	31	28
6	66	54	46	40	61	51	43	38	45	39	35	39	34	31	34	30	28	25
7	61	49	41	35	57	46	39	34	41	35	31	36	31	28	31	27	25	22
8	57	44	37	32	53	42	35	30	37	32	28	33	28	25	29	25	22	20
9	53	41	33	28	49	38	32	27	34	29	25	30	26	23	26	23	20	18
10	49	37	30	26	46	35	29	25	32	26	23	28	24	21	25	21	19	17

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

	0°	90°	180°	270°
0°	24857	24857	24857	24857
5°	27869	25020	22172	25020
10°	31936	24815	19189	24815
15°	35328	24359	16951	24359
20°	34790	23871	15454	23871
25°	31370	23222	14503	23222
30°	25922	22184	13811	22184
35°	18892	21098	13318	21098
40°	15091	19816	13044	19816
45°	13186	18333	12673	18333
50°	12396	16900	12424	16900
55°	11426	15440	12090	15440
60°	10469	13892	11580	13892
65°	9540	12500	11075	12500
70°	8658	11146	10334	11146
75°	7679	9632	9158	9632
80°	6602	7978	7373	7978
85°	5910	5910	4372	5910



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.6	2.5
10°-20°	426.3	7.2
20°-30°	618.6	10.4
30°-40°	652.8	11.0
40°-50°	578.0	9.8
50°-60°	461.3	7.8
60°-70°	313.5	5.3
70°-80°	160.7	2.7
80°-90°	40.9	0.7
90°-100°	28.8	0.5
100°-110°	105.5	1.8
110°-120°	282.1	4.8
120°-130°	465.6	7.9
130°-140°	495.2	8.4
140°-150°	460.3	7.8
150°-160°	370.1	6.2
160°-170°	238.5	4.0
170°-180°	82.1	1.4
0°-30°	1191.5	20.1
0°-40°	1844.3	31.1
0°-60°	2883.6	48.7
0°-90°	3398.7	57.3
90°-120°	416.4	7.0
90°-150°	1837.6	31.0
90°-180°	2528.0	42.7
0°-180°	5926.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1540	1540	1540	1540	1540	
5°	1720	1544	1368	1544	1720	172
15°	2114	1457	1014	1457	2114	583
25°	1761	1304	814	1304	1761	796
35°	958	1070	676	1070	958	623
45°	578	803	555	803	578	454
55°	406	548	430	548	406	364
65°	250	327	290	327	250	248
75°	123	154	147	154	123	132
85°	32	32	24	32	32	35
90°	17	1	17	1	17	9
95°	27	41	27	41	27	25
105°	47	190	47	190	47	49
115°	51	359	51	359	51	128
125°	534	508	534	508	534	462
135°	649	628	649	628	649	500
145°	740	728	740	728	740	463
155°	803	802	803	802	803	370
165°	843	845	843	845	843	238
175°	860	865	860	865	860	82
180°	863	863	863	863	863	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1610.6	1611.1	1612.0	1604.5	1603.5	1603.5	1596.9	1591.2	1584.6	1575.6	1576.5
5°	1719.5	1726.0	1728.3	1721.3	1710.6	1709.4	1699.3	1682.7	1667.4	1654.9	1646.1
7.5°	1849.4	1852.0	1846.2	1836.8	1828.9	1814.7	1796.0	1777.7	1752.0	1728.5	1710.9
10°	1947.9	1951.4	1941.3	1927.7	1916.5	1899.9	1872.7	1844.9	1811.2	1778.6	1752.6
12.5°	2022.7	2031.4	2018.5	2016.7	1997.4	1974.7	1942.3	1928.2	1880.8	1835.4	1807.5
15°	2113.5	2112.9	2114.2	2102.8	2088.7	2085.1	2050.8	2013.6	1946.7	1920.0	1873.9
17.5°	2087.2	2096.2	2100.4	2100.2	2099.9	2097.7	2086.7	2063.2	2029.6	1986.5	1933.1
20°	2024.8	2036.6	2038.4	2052.0	2059.7	2069.7	2073.9	2067.3	2046.7	2010.5	1964.4
22.5°	1928.2	1931.5	1937.1	1958.3	1975.0	2000.2	2013.3	2035.2	2027.2	2009.6	1971.0
25°	1760.9	1755.0	1775.7	1786.3	1824.8	1865.0	1894.0	1925.9	1954.4	1971.5	1960.2
27.5°	1560.0	1551.0	1582.1	1610.3	1641.6	1685.2	1730.4	1783.7	1828.1	1883.6	1902.6
30°	1390.4	1395.8	1425.4	1455.5	1502.9	1564.4	1615.3	1673.9	1737.2	1799.3	1842.5
32.5°	1207.7	1228.2	1247.0	1293.2	1334.9	1403.5	1478.0	1551.3	1630.2	1700.8	1767.7
35°	958.5	982.2	1008.3	1042.0	1100.5	1168.6	1241.4	1340.2	1447.9	1544.4	1623.6
37.5°	806.8	803.1	818.0	842.3	889.7	944.7	1028.5	1126.1	1252.9	1366.2	1478.0
40°	716.0	713.5	724.2	746.7	782.8	823.0	896.4	982.2	1099.9	1238.4	1371.5
42.5°	653.4	654.9	660.8	676.6	701.4	734.5	789.4	862.5	970.3	1100.6	1243.8
45°	577.5	581.7	588.2	595.8	610.0	637.2	668.0	720.1	805.3	914.2	1055.0
47.5°	522.8	522.9	529.6	536.3	544.7	560.1	585.1	617.9	678.0	766.6	887.7
50°	493.5	489.4	494.1	499.4	508.3	518.9	535.5	566.2	606.5	678.1	779.3
52.5°	457.5	457.6	461.9	463.9	471.8	482.5	497.6	518.9	555.4	611.4	694.6
55°	405.9	408.8	411.3	414.7	421.9	429.5	441.4	455.6	484.0	526.0	587.5
57.5°	357.4	358.3	360.7	367.5	371.9	379.1	390.3	403.1	421.6	452.7	499.0
60°	324.2	324.2	329.0	331.9	337.9	344.9	353.8	366.2	382.8	408.2	445.6
62.5°	294.0	293.5	295.3	300.2	304.7	311.4	320.2	330.7	346.3	369.0	399.7
65°	249.7	248.5	252.1	253.2	258.0	264.5	271.6	282.9	295.2	311.8	339.0
67.5°	207.1	208.5	210.4	212.7	215.3	222.1	226.9	234.8	245.3	259.0	277.5
70°	183.4	183.4	183.4	185.2	188.8	192.3	197.1	203.6	213.6	225.4	242.0
72.5°	156.9	158.8	160.7	159.6	164.2	166.3	171.9	175.6	185.2	192.8	207.4
75°	123.1	123.1	123.1	126.0	127.8	129.6	133.1	136.7	141.4	150.9	158.5
77.5°	91.8	91.6	92.2	92.9	94.8	96.9	98.0	101.2	105.6	109.9	116.5
80°	71.0	72.2	72.8	73.9	73.9	75.2	75.7	79.9	82.8	85.8	90.0
82.5°	54.9	55.1	55.3	55.5	56.0	56.7	58.2	59.6	60.5	63.0	66.3
85°	31.9	31.4	31.4	32.5	31.9	31.9	33.2	34.3	34.3	34.9	36.6
87.5°	15.7	15.6	16.1	15.5	15.4	15.9	15.7	15.1	15.4	15.8	16.0
90°	16.9	16.6	16.3	16.1	15.8	15.2	14.5	13.9	13.2	12.5	11.4
92.5°	16.9	16.7	16.5	16.3	16.2	16.0	15.6	15.2	14.8	14.4	13.9
95°	26.8	27.0	27.1	27.3	27.4	27.1	26.4	25.8	25.1	24.3	23.4
97.5°	35.8	35.7	35.5	35.3	35.1	34.8	34.2	33.7	33.2	32.5	30.3
100°	41.8	41.6	41.3	41.0	40.8	40.0	38.9	37.8	36.6	35.6	33.3
102.5°	44.9	44.4	44.1	43.7	43.2	42.4	40.9	39.5	38.0	36.6	56.3
105°	47.4	46.9	46.4	45.7	45.2	44.1	42.6	41.1	39.6	38.1	76.0
107.5°	48.8	48.2	47.7	47.2	46.6	47.1	48.7	50.2	51.7	53.3	98.7
110°	49.3	48.8	48.2	47.6	47.1	53.8	67.6	81.5	95.4	109.2	149.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	49.8	49.4	49.0	48.5	48.1	73.1	123.8	174.3	225.0	275.5	285.4
115°	51.2	61.2	71.2	81.1	91.1	128.2	192.4	256.7	320.9	385.1	381.7
117.5°	209.0	241.8	274.6	307.5	340.3	364.4	380.0	395.6	411.1	426.6	424.2
120°	380.8	399.5	418.2	436.9	455.7	464.2	462.5	460.9	459.2	457.5	455.0
122.5°	475.2	478.8	482.4	486.1	489.7	491.1	490.0	489.0	488.0	487.1	484.3
125°	533.7	533.3	532.9	532.4	532.1	531.4	530.4	529.4	528.4	527.4	524.9
127.5°	570.7	570.6	570.5	570.4	570.3	569.6	568.2	566.8	565.3	563.9	562.0
130°	593.7	593.8	594.0	594.1	594.2	593.5	592.0	590.5	589.0	587.5	585.9
132.5°	616.2	616.3	616.4	616.5	616.7	616.1	614.8	613.5	612.2	610.9	609.4
135°	648.6	648.9	649.2	649.4	649.7	649.2	647.7	646.4	645.0	643.6	642.4
137.5°	678.1	678.7	679.1	679.6	680.1	679.7	678.2	676.9	675.6	674.2	672.8
140°	696.7	697.3	698.0	698.7	699.5	699.2	697.9	696.7	695.4	694.2	692.6
142.5°	714.6	715.3	716.0	716.8	717.4	717.2	716.0	714.9	713.8	712.7	710.9
145°	739.8	740.4	741.1	741.8	742.5	742.3	741.4	740.4	739.5	738.5	736.1
147.5°	761.8	762.4	763.0	763.6	764.2	764.1	763.4	762.7	762.0	761.2	758.8
150°	775.3	776.0	776.7	777.4	778.1	778.0	777.2	776.3	775.5	774.7	772.5
152.5°	786.8	787.7	788.6	789.5	790.5	790.5	789.7	788.8	788.0	787.2	785.1
155°	802.8	803.9	805.0	806.1	807.2	807.4	806.6	805.7	804.9	804.1	802.4
157.5°	817.3	818.5	819.6	820.6	821.7	821.8	820.8	819.9	818.9	818.0	816.8
160°	825.9	826.9	827.8	828.8	829.7	829.8	829.0	828.1	827.3	826.5	825.6
162.5°	832.9	834.0	835.3	836.4	837.7	837.8	836.8	835.9	834.9	834.0	833.3
165°	843.4	844.4	845.3	846.2	847.2	847.2	846.2	845.3	844.4	843.4	842.9
167.5°	850.0	851.2	852.5	853.7	855.0	855.1	854.2	853.2	852.2	851.2	850.9
170°	854.0	855.2	856.5	857.7	859.0	859.1	858.1	857.2	856.2	855.2	855.0
172.5°	856.9	858.2	859.4	860.7	861.9	862.1	861.1	860.1	859.2	858.2	857.9
175°	859.6	860.9	862.4	863.7	865.1	865.3	864.3	863.4	862.5	861.5	861.2
177.5°	861.2	862.2	863.2	864.2	865.2	865.3	864.5	863.8	863.0	862.2	862.1
180°	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1579.8	1576.0	1573.7	1565.1	1557.6	1550.0	1547.7	1548.5	1538.2	1528.2	1523.9
5°	1641.4	1629.5	1618.3	1602.3	1583.4	1562.6	1552.0	1543.7	1523.0	1500.6	1487.6
7.5°	1696.5	1679.5	1658.0	1627.9	1600.3	1567.7	1547.0	1528.7	1498.4	1466.7	1447.2
10°	1730.1	1707.0	1679.2	1642.5	1608.8	1569.1	1541.3	1513.6	1478.0	1440.2	1416.5
12.5°	1759.0	1727.9	1700.5	1653.4	1613.6	1564.0	1531.0	1491.7	1454.4	1409.4	1386.3
15°	1827.7	1770.3	1718.2	1665.0	1615.9	1546.7	1510.0	1457.3	1408.2	1352.6	1326.0
17.5°	1880.9	1816.4	1734.4	1666.7	1609.4	1532.8	1478.9	1415.8	1357.7	1294.1	1257.9
20°	1911.2	1837.2	1749.0	1668.6	1599.9	1512.3	1453.8	1389.3	1321.2	1249.6	1210.6
22.5°	1929.1	1851.4	1764.2	1661.4	1581.0	1495.8	1422.1	1351.4	1282.5	1205.1	1164.2
25°	1934.8	1863.9	1771.6	1655.6	1557.4	1460.9	1372.2	1303.5	1220.0	1147.9	1088.2
27.5°	1906.7	1855.7	1767.0	1644.4	1530.0	1417.2	1318.3	1240.5	1152.5	1074.2	1014.1
30°	1872.1	1842.5	1756.1	1633.1	1508.2	1387.0	1278.1	1189.9	1102.3	1023.1	961.5
32.5°	1818.6	1812.2	1736.3	1616.9	1485.1	1348.6	1235.9	1146.8	1049.8	971.9	913.2
35°	1713.5	1742.0	1694.0	1581.0	1441.4	1294.1	1172.2	1070.4	969.8	895.2	840.2
37.5°	1572.7	1643.2	1630.7	1528.3	1382.4	1234.7	1100.1	993.7	897.9	822.6	768.6
40°	1475.7	1565.6	1578.6	1488.1	1340.8	1188.7	1046.2	940.2	846.7	778.1	723.6
42.5°	1371.5	1476.6	1512.3	1439.8	1295.3	1140.4	997.8	888.1	795.6	728.9	680.6
45°	1197.0	1336.1	1400.5	1359.1	1219.5	1060.9	914.2	802.9	718.9	656.2	618.9
47.5°	1033.8	1185.7	1272.5	1257.8	1135.1	978.0	832.9	726.2	644.4	594.4	561.1
50°	918.3	1074.5	1179.2	1184.0	1074.5	918.9	773.4	672.8	597.6	550.9	523.6
52.5°	818.0	967.1	1081.3	1106.3	1006.8	857.4	719.9	619.7	553.6	510.6	486.2
55°	687.0	813.0	939.6	985.8	905.9	763.8	636.7	548.5	486.3	456.8	435.5
57.5°	571.1	676.2	793.1	844.1	794.9	673.3	554.0	477.5	427.0	401.2	384.9
60°	510.1	592.9	697.1	758.0	715.3	607.1	502.9	430.2	388.8	365.7	350.3
62.5°	453.3	526.6	614.7	670.4	647.2	545.1	451.8	387.5	351.8	330.2	319.1
65°	374.0	431.9	500.0	551.4	536.1	458.5	382.3	327.2	298.8	281.6	272.8
67.5°	307.9	349.8	397.0	442.1	429.7	374.8	313.4	270.6	249.5	234.7	229.3
70°	266.3	298.2	340.2	376.3	366.2	321.3	272.8	236.1	217.8	205.4	200.0
72.5°	226.5	252.8	284.8	314.3	307.6	270.2	229.7	202.0	187.9	176.5	172.1
75°	171.0	191.1	210.6	230.2	228.4	199.4	175.8	154.4	143.2	134.3	132.5
77.5°	126.3	137.5	150.8	162.4	159.2	142.6	124.0	111.8	103.5	97.6	96.7
80°	96.5	103.0	112.4	120.7	116.5	109.5	94.7	85.8	79.9	73.9	71.6
82.5°	69.9	76.4	82.1	86.6	83.5	76.8	67.7	61.6	58.1	54.0	53.1
85°	36.6	40.2	42.6	43.8	42.6	38.4	34.3	31.9	29.0	27.2	26.7
87.5°	16.2	16.1	15.8	16.5	14.8	14.4	12.3	10.5	10.3	10.2	9.5
90°	10.3	9.2	8.0	6.7	5.2	3.7	2.1	0.6	2.1	3.7	5.2
92.5°	13.4	12.8	12.3	12.0	12.2	12.3	12.5	12.6	12.5	12.3	12.2
95°	22.4	21.4	20.4	22.3	26.8	31.4	36.0	40.6	36.0	31.4	26.8
97.5°	28.1	25.9	23.6	28.9	41.8	54.8	67.6	80.5	67.6	54.8	41.8
100°	30.9	28.5	26.1	34.5	53.5	72.5	91.5	110.5	91.5	72.5	53.5
102.5°	76.1	95.8	115.5	127.3	131.3	135.4	139.5	143.5	139.5	135.4	131.3
105°	113.8	151.7	189.6	206.4	202.2	198.1	193.9	189.8	193.9	198.1	202.2
107.5°	144.2	189.6	235.0	256.0	252.6	249.3	245.9	242.5	245.9	249.3	252.6
110°	189.4	229.5	269.6	288.2	285.3	282.4	279.5	276.5	279.5	282.4	285.3





TEST NUMBER: P331561-940

CATALOG NUMBER: S122DIW-S865D710U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	295.3	305.2	315.1	318.8	316.2	313.7	311.1	308.5	311.1	313.7	316.2
115°	378.3	374.8	371.3	368.4	366.0	363.6	361.3	358.9	361.3	363.6	366.0
117.5°	421.9	419.5	417.1	414.6	411.9	409.3	406.6	404.0	406.6	409.3	411.9
120°	452.5	450.0	447.5	445.3	443.2	441.1	439.1	436.9	439.1	441.1	443.2
122.5°	481.6	478.8	476.2	473.7	471.5	469.3	467.2	464.9	467.2	469.3	471.5
125°	522.2	519.6	516.9	514.7	512.9	511.1	509.3	507.5	509.3	511.1	512.9
127.5°	560.0	558.0	556.1	554.1	552.1	550.1	548.0	546.1	548.0	550.1	552.1
130°	584.3	582.8	581.3	579.4	577.2	575.0	572.7	570.5	572.7	575.0	577.2
132.5°	607.8	606.3	604.8	603.1	601.2	599.3	597.4	595.6	597.4	599.3	601.2
135°	641.1	639.9	638.6	636.9	634.6	632.4	630.2	628.0	630.2	632.4	634.6
137.5°	671.4	669.9	668.5	667.0	665.5	664.0	662.4	660.8	662.4	664.0	665.5
140°	691.1	689.6	688.0	686.7	685.6	684.5	683.4	682.3	683.4	684.5	685.6
142.5°	709.2	707.4	705.6	704.3	703.3	702.3	701.2	700.3	701.2	702.3	703.3
145°	733.8	731.4	729.1	727.9	728.1	728.3	728.3	728.5	728.3	728.3	728.1
147.5°	756.5	754.2	751.9	751.0	751.5	752.1	752.6	753.0	752.6	752.1	751.5
150°	770.3	768.0	765.8	765.2	766.2	767.1	768.1	769.1	768.1	767.1	766.2
152.5°	782.9	780.9	778.7	778.2	779.3	780.4	781.5	782.6	781.5	780.4	779.3
155°	800.7	799.1	797.4	797.2	798.4	799.7	800.9	802.2	800.9	799.7	798.4
157.5°	815.6	814.5	813.3	813.3	814.3	815.4	816.5	817.5	816.5	815.4	814.3
160°	824.8	824.0	823.1	823.1	824.0	824.8	825.6	826.5	825.6	824.8	824.0
162.5°	832.6	831.8	831.1	831.2	832.0	832.9	833.7	834.5	833.7	832.9	832.0
165°	842.5	842.1	841.7	841.9	842.8	843.6	844.4	845.3	844.4	843.6	842.8
167.5°	850.4	850.1	849.7	849.9	850.7	851.6	852.4	853.2	852.4	851.6	850.7
170°	854.7	854.3	854.1	854.3	855.2	856.0	856.8	857.7	856.8	856.0	855.2
172.5°	857.6	857.4	857.1	857.4	858.2	859.1	859.9	860.7	859.9	859.1	858.2
175°	860.9	860.6	860.3	860.7	861.7	862.6	863.6	864.6	863.6	862.6	861.7
177.5°	862.0	861.8	861.7	862.1	862.9	863.6	864.4	865.2	864.4	863.6	862.9
180°	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7



TEST NUMBER: P331561-940

CATALOG NUMBER: S122DIW-S865D710U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1519.2	1516.4	1506.5	1501.3	1492.7	1484.7	1479.4	1481.8	1483.7	1482.7	1481.4
5°	1475.7	1464.5	1447.2	1432.4	1421.8	1402.3	1394.0	1389.9	1386.3	1382.2	1378.0
7.5°	1423.9	1406.1	1381.4	1360.4	1340.5	1316.3	1302.4	1294.1	1285.7	1276.3	1268.0
10°	1387.0	1362.1	1336.1	1306.4	1282.8	1260.9	1241.4	1228.3	1216.6	1205.2	1197.0
12.5°	1348.1	1319.5	1287.3	1246.8	1220.8	1189.5	1186.4	1163.5	1145.0	1138.1	1128.4
15°	1286.4	1246.1	1205.2	1157.4	1136.7	1108.2	1090.5	1072.7	1056.8	1045.5	1042.6
17.5°	1216.2	1164.1	1123.5	1089.0	1055.1	1026.0	1009.7	995.5	982.3	967.3	965.3
20°	1162.7	1117.7	1073.4	1043.1	1008.3	978.7	958.5	944.3	933.1	924.3	916.5
22.5°	1112.1	1062.8	1022.2	989.2	954.8	930.9	915.0	901.3	891.9	882.1	874.9
25°	1030.7	992.3	947.9	910.6	882.2	866.8	853.8	842.0	836.1	829.6	821.3
27.5°	959.6	916.9	875.4	846.5	821.5	807.9	798.7	790.6	785.1	781.2	776.5
30°	909.5	866.2	833.7	805.3	784.6	771.0	765.1	760.4	753.9	751.4	749.1
32.5°	861.1	822.2	794.4	769.8	750.0	741.2	735.8	731.5	726.4	724.0	719.3
35°	792.9	760.4	733.1	719.5	703.6	695.8	691.7	685.8	681.0	678.7	678.1
37.5°	728.6	700.3	682.4	664.9	658.2	653.4	647.8	643.7	642.3	641.9	641.4
40°	687.0	663.9	647.9	633.7	630.7	623.7	618.9	615.4	615.4	616.0	615.4
42.5°	649.1	628.4	614.3	602.0	598.5	594.3	589.6	589.3	590.3	592.3	590.3
45°	591.7	576.9	566.9	560.9	554.4	550.3	549.7	551.4	552.1	552.7	554.4
47.5°	539.0	529.1	520.0	513.4	510.6	509.9	509.2	512.3	515.1	516.2	518.9
50°	507.7	496.4	488.7	484.6	482.2	481.1	482.2	485.8	488.1	491.1	492.8
52.5°	472.6	464.7	459.4	456.2	455.2	455.9	456.2	460.2	464.0	465.0	465.9
55°	424.3	418.3	417.1	411.8	414.2	413.6	416.5	418.9	422.5	426.1	426.6
57.5°	375.9	371.2	368.0	368.5	369.3	371.8	374.3	378.4	382.3	386.0	386.4
60°	343.8	341.4	339.7	339.7	340.8	344.4	347.3	351.4	353.8	356.2	357.9
62.5°	314.4	312.1	310.3	311.2	314.3	316.5	319.9	322.1	324.5	326.8	327.7
65°	268.0	266.9	268.7	269.8	270.4	273.4	277.5	279.3	281.6	282.9	287.0
67.5°	225.3	225.5	225.3	226.9	230.4	231.1	235.1	239.2	239.6	241.9	244.6
70°	196.4	197.6	198.9	200.0	203.0	204.1	207.1	208.8	211.2	213.0	214.8
72.5°	170.0	170.1	171.4	171.1	173.6	176.2	178.7	180.5	182.8	185.1	186.8
75°	130.7	130.7	132.0	132.5	135.5	138.5	137.9	139.0	141.4	143.7	145.0
77.5°	95.5	94.2	95.5	96.1	97.0	99.5	100.0	101.7	104.3	103.5	104.9
80°	72.8	71.0	72.8	73.4	73.4	76.3	76.3	77.5	79.3	77.5	79.3
82.5°	52.0	51.1	52.4	52.5	53.5	53.6	54.6	54.8	56.5	55.7	56.5
85°	26.0	25.4	26.0	25.4	26.0	26.7	26.7	26.0	26.0	27.2	25.4
87.5°	9.4	9.2	8.9	9.2	8.9	8.6	8.3	8.5	8.6	7.8	7.8
90°	6.7	8.0	9.2	10.3	11.4	12.5	13.2	13.9	14.5	15.2	15.8
92.5°	12.0	12.3	12.8	13.4	13.9	14.4	14.8	15.2	15.6	16.0	16.2
95°	22.3	20.4	21.4	22.4	23.4	24.3	25.1	25.8	26.4	27.1	27.4
97.5°	28.9	23.6	25.9	28.1	30.3	32.5	33.2	33.7	34.2	34.8	35.1
100°	34.5	26.1	28.5	30.9	33.3	35.6	36.6	37.8	38.9	40.0	40.8
102.5°	127.3	115.5	95.8	76.1	56.3	36.6	38.0	39.5	40.9	42.4	43.2
105°	206.4	189.6	151.7	113.8	76.0	38.1	39.6	41.1	42.6	44.1	45.2
107.5°	256.0	235.0	189.6	144.2	98.7	53.3	51.7	50.2	48.7	47.1	46.6
110°	288.2	269.6	229.5	189.4	149.4	109.2	95.4	81.5	67.6	53.8	47.1



TEST NUMBER: P331561-940

CATALOG NUMBER: S122DIW-S865D710U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	318.8	315.1	305.2	295.3	285.4	275.5	225.0	174.3	123.8	73.1	48.1
115°	368.4	371.3	374.8	378.3	381.7	385.1	320.9	256.7	192.4	128.2	91.1
117.5°	414.6	417.1	419.5	421.9	424.2	426.6	411.1	395.6	380.0	364.4	340.3
120°	445.3	447.5	450.0	452.5	455.0	457.5	459.2	460.9	462.5	464.2	455.7
122.5°	473.7	476.2	478.8	481.6	484.3	487.1	488.0	489.0	490.0	491.1	489.7
125°	514.7	516.9	519.6	522.2	524.9	527.4	528.4	529.4	530.4	531.4	532.1
127.5°	554.1	556.1	558.0	560.0	562.0	563.9	565.3	566.8	568.2	569.6	570.3
130°	579.4	581.3	582.8	584.3	585.9	587.5	589.0	590.5	592.0	593.5	594.2
132.5°	603.1	604.8	606.3	607.8	609.4	610.9	612.2	613.5	614.8	616.1	616.7
135°	636.9	638.6	639.9	641.1	642.4	643.6	645.0	646.4	647.7	649.2	649.7
137.5°	667.0	668.5	669.9	671.4	672.8	674.2	675.6	676.9	678.2	679.7	680.1
140°	686.7	688.0	689.6	691.1	692.6	694.2	695.4	696.7	697.9	699.2	699.5
142.5°	704.3	705.6	707.4	709.2	710.9	712.7	713.8	714.9	716.0	717.2	717.4
145°	727.9	729.1	731.4	733.8	736.1	738.5	739.5	740.4	741.4	742.3	742.5
147.5°	751.0	751.9	754.2	756.5	758.8	761.2	762.0	762.7	763.4	764.1	764.2
150°	765.2	765.8	768.0	770.3	772.5	774.7	775.5	776.3	777.2	778.0	778.1
152.5°	778.2	778.7	780.9	782.9	785.1	787.2	788.0	788.8	789.7	790.5	790.5
155°	797.2	797.4	799.1	800.7	802.4	804.1	804.9	805.7	806.6	807.4	807.2
157.5°	813.3	813.3	814.5	815.6	816.8	818.0	818.9	819.9	820.8	821.8	821.7
160°	823.1	823.1	824.0	824.8	825.6	826.5	827.3	828.1	829.0	829.8	829.7
162.5°	831.2	831.1	831.8	832.6	833.3	834.0	834.9	835.9	836.8	837.8	837.7
165°	841.9	841.7	842.1	842.5	842.9	843.4	844.4	845.3	846.2	847.2	847.2
167.5°	849.9	849.7	850.1	850.4	850.9	851.2	852.2	853.2	854.2	855.1	855.0
170°	854.3	854.1	854.3	854.7	855.0	855.2	856.2	857.2	858.1	859.1	859.0
172.5°	857.4	857.1	857.4	857.6	857.9	858.2	859.2	860.1	861.1	862.1	861.9
175°	860.7	860.3	860.6	860.9	861.2	861.5	862.5	863.4	864.3	865.3	865.1
177.5°	862.1	861.7	861.8	862.0	862.1	862.2	863.0	863.8	864.5	865.3	865.2
180°	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7



TEST NUMBER: P331561-940

CATALOG NUMBER: S122DIW-S865D710U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1476.6	1475.7	1475.7	1471.4	1475.7	1475.7	1476.6	1481.4	1482.7	1483.7	1481.8
5°	1369.8	1368.0	1365.0	1368.0	1365.0	1368.0	1369.8	1378.0	1382.2	1386.3	1389.9
7.5°	1264.1	1257.0	1255.9	1248.9	1255.9	1257.0	1264.1	1268.0	1276.3	1285.7	1294.1
10°	1187.0	1182.2	1181.6	1170.4	1181.6	1182.2	1187.0	1197.0	1205.2	1216.6	1228.3
12.5°	1128.3	1116.9	1119.1	1112.6	1119.1	1116.9	1128.3	1128.4	1138.1	1145.0	1163.5
15°	1026.6	1026.6	1024.2	1014.1	1024.2	1026.6	1026.6	1042.6	1045.5	1056.8	1072.7
17.5°	953.6	952.3	946.7	949.6	946.7	952.3	953.6	965.3	967.3	982.3	995.5
20°	910.0	906.5	899.4	899.4	899.4	906.5	910.0	916.5	924.3	933.1	944.3
22.5°	868.9	868.6	861.0	863.4	861.0	868.6	868.9	874.9	882.1	891.9	901.3
25°	820.6	815.9	812.4	814.1	812.4	815.9	820.6	821.3	829.6	836.1	842.0
27.5°	775.0	772.4	772.1	767.3	772.1	772.4	775.0	776.5	781.2	785.1	790.6
30°	748.5	742.6	743.8	740.8	743.8	742.6	748.5	749.1	751.4	753.9	760.4
32.5°	718.2	716.0	714.9	712.4	714.9	716.0	718.2	719.3	724.0	726.4	731.5
35°	676.9	677.5	674.5	675.7	674.5	677.5	676.9	678.1	678.7	681.0	685.8
37.5°	640.8	642.7	641.3	641.7	641.3	642.7	640.8	641.4	641.9	642.3	643.7
40°	617.2	617.2	617.2	618.9	617.2	617.2	617.2	615.4	616.0	615.4	615.4
42.5°	594.4	593.4	592.5	592.4	592.5	593.4	594.4	590.3	592.3	590.3	589.3
45°	555.6	557.4	557.9	555.0	557.9	557.4	555.6	554.4	552.7	552.1	551.4
47.5°	520.5	520.7	520.5	523.1	520.5	520.7	520.5	518.9	516.2	515.1	512.3
50°	495.9	494.6	495.9	494.6	495.9	494.6	495.9	492.8	491.1	488.1	485.8
52.5°	469.8	470.0	469.3	469.1	469.3	470.0	469.8	465.9	465.0	464.0	460.2
55°	429.0	430.2	429.5	429.5	429.5	430.2	429.0	426.6	426.1	422.5	418.9
57.5°	386.7	387.8	388.6	386.0	388.6	387.8	386.7	386.4	386.0	382.3	378.4
60°	357.4	360.3	359.7	358.6	359.7	360.3	357.4	357.9	356.2	353.8	351.4
62.5°	330.4	331.4	331.4	331.1	331.4	331.4	330.4	327.7	326.8	324.5	322.1
65°	288.7	289.9	288.1	289.9	288.1	289.9	288.7	287.0	282.9	281.6	279.3
67.5°	243.9	244.2	245.6	246.4	245.6	244.2	243.9	244.6	241.9	239.6	239.2
70°	216.0	215.3	217.1	218.9	217.1	215.3	216.0	214.8	213.0	211.2	208.8
72.5°	186.6	187.9	187.3	188.6	187.3	187.9	186.6	186.8	185.1	182.8	180.5
75°	143.7	145.5	145.0	146.8	145.0	145.5	143.7	145.0	143.7	141.4	139.0
77.5°	103.9	104.2	103.9	104.9	103.9	104.2	103.9	104.9	103.5	104.3	101.7
80°	79.3	78.1	77.0	79.3	77.0	78.1	79.3	79.3	77.5	79.3	77.5
82.5°	55.1	55.8	54.7	54.7	54.7	55.8	55.1	56.5	55.7	56.5	54.8
85°	25.4	24.9	23.6	23.6	23.6	24.9	25.4	25.4	27.2	26.0	26.0
87.5°	7.9	7.5	7.6	7.1	7.6	7.5	7.9	7.8	7.8	8.6	8.5
90°	16.1	16.3	16.6	16.9	16.6	16.3	16.1	15.8	15.2	14.5	13.9
92.5°	16.3	16.5	16.7	16.9	16.7	16.5	16.3	16.2	16.0	15.6	15.2
95°	27.3	27.1	27.0	26.8	27.0	27.1	27.3	27.4	27.1	26.4	25.8
97.5°	35.3	35.5	35.7	35.8	35.7	35.5	35.3	35.1	34.8	34.2	33.7
100°	41.0	41.3	41.6	41.8	41.6	41.3	41.0	40.8	40.0	38.9	37.8
102.5°	43.7	44.1	44.4	44.9	44.4	44.1	43.7	43.2	42.4	40.9	39.5
105°	45.7	46.4	46.9	47.4	46.9	46.4	45.7	45.2	44.1	42.6	41.1
107.5°	47.2	47.7	48.2	48.8	48.2	47.7	47.2	46.6	47.1	48.7	50.2
110°	47.6	48.2	48.8	49.3	48.8	48.2	47.6	47.1	53.8	67.6	81.5



TEST NUMBER: P331561-940

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	48.5	49.0	49.4	49.8	49.4	49.0	48.5	48.1	73.1	123.8	174.3
115°	81.1	71.2	61.2	51.2	61.2	71.2	81.1	91.1	128.2	192.4	256.7
117.5°	307.5	274.6	241.8	209.0	241.8	274.6	307.5	340.3	364.4	380.0	395.6
120°	436.9	418.2	399.5	380.8	399.5	418.2	436.9	455.7	464.2	462.5	460.9
122.5°	486.1	482.4	478.8	475.2	478.8	482.4	486.1	489.7	491.1	490.0	489.0
125°	532.4	532.9	533.3	533.7	533.3	532.9	532.4	532.1	531.4	530.4	529.4
127.5°	570.4	570.5	570.6	570.7	570.6	570.5	570.4	570.3	569.6	568.2	566.8
130°	594.1	594.0	593.8	593.7	593.8	594.0	594.1	594.2	593.5	592.0	590.5
132.5°	616.5	616.4	616.3	616.2	616.3	616.4	616.5	616.7	616.1	614.8	613.5
135°	649.4	649.2	648.9	648.6	648.9	649.2	649.4	649.7	649.2	647.7	646.4
137.5°	679.6	679.1	678.7	678.1	678.7	679.1	679.6	680.1	679.7	678.2	676.9
140°	698.7	698.0	697.3	696.7	697.3	698.0	698.7	699.5	699.2	697.9	696.7
142.5°	716.8	716.0	715.3	714.6	715.3	716.0	716.8	717.4	717.2	716.0	714.9
145°	741.8	741.1	740.4	739.8	740.4	741.1	741.8	742.5	742.3	741.4	740.4
147.5°	763.6	763.0	762.4	761.8	762.4	763.0	763.6	764.2	764.1	763.4	762.7
150°	777.4	776.7	776.0	775.3	776.0	776.7	777.4	778.1	778.0	777.2	776.3
152.5°	789.5	788.6	787.7	786.8	787.7	788.6	789.5	790.5	790.5	789.7	788.8
155°	806.1	805.0	803.9	802.8	803.9	805.0	806.1	807.2	807.4	806.6	805.7
157.5°	820.6	819.6	818.5	817.3	818.5	819.6	820.6	821.7	821.8	820.8	819.9
160°	828.8	827.8	826.9	825.9	826.9	827.8	828.8	829.7	829.8	829.0	828.1
162.5°	836.4	835.3	834.0	832.9	834.0	835.3	836.4	837.7	837.8	836.8	835.9
165°	846.2	845.3	844.4	843.4	844.4	845.3	846.2	847.2	847.2	846.2	845.3
167.5°	853.7	852.5	851.2	850.0	851.2	852.5	853.7	855.0	855.1	854.2	853.2
170°	857.7	856.5	855.2	854.0	855.2	856.5	857.7	859.0	859.1	858.1	857.2
172.5°	860.7	859.4	858.2	856.9	858.2	859.4	860.7	861.9	862.1	861.1	860.1
175°	863.7	862.4	860.9	859.6	860.9	862.4	863.7	865.1	865.3	864.3	863.4
177.5°	864.2	863.2	862.2	861.2	862.2	863.2	864.2	865.2	865.3	864.5	863.8
180°	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7



TEST NUMBER: P331561-940

CATALOG NUMBER: S122DIW-S865D710U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1479.4	1484.7	1492.7	1501.3	1506.5	1516.4	1519.2	1523.9	1528.2	1538.2	1548.5
5°	1394.0	1402.3	1421.8	1432.4	1447.2	1464.5	1475.7	1487.6	1500.6	1523.0	1543.7
7.5°	1302.4	1316.3	1340.5	1360.4	1381.4	1406.1	1423.9	1447.2	1466.7	1498.4	1528.7
10°	1241.4	1260.9	1282.8	1306.4	1336.1	1362.1	1387.0	1416.5	1440.2	1478.0	1513.6
12.5°	1186.4	1189.5	1220.8	1246.8	1287.3	1319.5	1348.1	1386.3	1409.4	1454.4	1491.7
15°	1090.5	1108.2	1136.7	1157.4	1205.2	1246.1	1286.4	1326.0	1352.6	1408.2	1457.3
17.5°	1009.7	1026.0	1055.1	1089.0	1123.5	1164.1	1216.2	1257.9	1294.1	1357.7	1415.8
20°	958.5	978.7	1008.3	1043.1	1073.4	1117.7	1162.7	1210.6	1249.6	1321.2	1389.3
22.5°	915.0	930.9	954.8	989.2	1022.2	1062.8	1112.1	1164.2	1205.1	1282.5	1351.4
25°	853.8	866.8	882.2	910.6	947.9	992.3	1030.7	1088.2	1147.9	1220.0	1303.5
27.5°	798.7	807.9	821.5	846.5	875.4	916.9	959.6	1014.1	1074.2	1152.5	1240.5
30°	765.1	771.0	784.6	805.3	833.7	866.2	909.5	961.5	1023.1	1102.3	1189.9
32.5°	735.8	741.2	750.0	769.8	794.4	822.2	861.1	913.2	971.9	1049.8	1146.8
35°	691.7	695.8	703.6	719.5	733.1	760.4	792.9	840.2	895.2	969.8	1070.4
37.5°	647.8	653.4	658.2	664.9	682.4	700.3	728.6	768.6	822.6	897.9	993.7
40°	618.9	623.7	630.7	633.7	647.9	663.9	687.0	723.6	778.1	846.7	940.2
42.5°	589.6	594.3	598.5	602.0	614.3	628.4	649.1	680.6	728.9	795.6	888.1
45°	549.7	550.3	554.4	560.9	566.9	576.9	591.7	618.9	656.2	718.9	802.9
47.5°	509.2	509.9	510.6	513.4	520.0	529.1	539.0	561.1	594.4	644.4	726.2
50°	482.2	481.1	482.2	484.6	488.7	496.4	507.7	523.6	550.9	597.6	672.8
52.5°	456.2	455.9	455.2	456.2	459.4	464.7	472.6	486.2	510.6	553.6	619.7
55°	416.5	413.6	414.2	411.8	417.1	418.3	424.3	435.5	456.8	486.3	548.5
57.5°	374.3	371.8	369.3	368.5	368.0	371.2	375.9	384.9	401.2	427.0	477.5
60°	347.3	344.4	340.8	339.7	339.7	341.4	343.8	350.3	365.7	388.8	430.2
62.5°	319.9	316.5	314.3	311.2	310.3	312.1	314.4	319.1	330.2	351.8	387.5
65°	277.5	273.4	270.4	269.8	268.7	266.9	268.0	272.8	281.6	298.8	327.2
67.5°	235.1	231.1	230.4	226.9	225.3	225.5	225.3	229.3	234.7	249.5	270.6
70°	207.1	204.1	203.0	200.0	198.9	197.6	196.4	200.0	205.4	217.8	236.1
72.5°	178.7	176.2	173.6	171.1	171.4	170.1	170.0	172.1	176.5	187.9	202.0
75°	137.9	138.5	135.5	132.5	132.0	130.7	130.7	132.5	134.3	143.2	154.4
77.5°	100.0	99.5	97.0	96.1	95.5	94.2	95.5	96.7	97.6	103.5	111.8
80°	76.3	76.3	73.4	73.4	72.8	71.0	72.8	71.6	73.9	79.9	85.8
82.5°	54.6	53.6	53.5	52.5	52.4	51.1	52.0	53.1	54.0	58.1	61.6
85°	26.7	26.7	26.0	25.4	26.0	25.4	26.0	26.7	27.2	29.0	31.9
87.5°	8.3	8.6	8.9	9.2	8.9	9.2	9.4	9.5	10.2	10.3	10.5
90°	13.2	12.5	11.4	10.3	9.2	8.0	6.7	5.2	3.7	2.1	0.6
92.5°	14.8	14.4	13.9	13.4	12.8	12.3	12.0	12.2	12.3	12.5	12.6
95°	25.1	24.3	23.4	22.4	21.4	20.4	22.3	26.8	31.4	36.0	40.6
97.5°	33.2	32.5	30.3	28.1	25.9	23.6	28.9	41.8	54.8	67.6	80.5
100°	36.6	35.6	33.3	30.9	28.5	26.1	34.5	53.5	72.5	91.5	110.5
102.5°	38.0	36.6	56.3	76.1	95.8	115.5	127.3	131.3	135.4	139.5	143.5
105°	39.6	38.1	76.0	113.8	151.7	189.6	206.4	202.2	198.1	193.9	189.8
107.5°	51.7	53.3	98.7	144.2	189.6	235.0	256.0	252.6	249.3	245.9	242.5
110°	95.4	109.2	149.4	189.4	229.5	269.6	288.2	285.3	282.4	279.5	276.5



TEST NUMBER: P331561-940

CATALOG NUMBER: S122DIW-S865D710U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	225.0	275.5	285.4	295.3	305.2	315.1	318.8	316.2	313.7	311.1	308.5
115°	320.9	385.1	381.7	378.3	374.8	371.3	368.4	366.0	363.6	361.3	358.9
117.5°	411.1	426.6	424.2	421.9	419.5	417.1	414.6	411.9	409.3	406.6	404.0
120°	459.2	457.5	455.0	452.5	450.0	447.5	445.3	443.2	441.1	439.1	436.9
122.5°	488.0	487.1	484.3	481.6	478.8	476.2	473.7	471.5	469.3	467.2	464.9
125°	528.4	527.4	524.9	522.2	519.6	516.9	514.7	512.9	511.1	509.3	507.5
127.5°	565.3	563.9	562.0	560.0	558.0	556.1	554.1	552.1	550.1	548.0	546.1
130°	589.0	587.5	585.9	584.3	582.8	581.3	579.4	577.2	575.0	572.7	570.5
132.5°	612.2	610.9	609.4	607.8	606.3	604.8	603.1	601.2	599.3	597.4	595.6
135°	645.0	643.6	642.4	641.1	639.9	638.6	636.9	634.6	632.4	630.2	628.0
137.5°	675.6	674.2	672.8	671.4	669.9	668.5	667.0	665.5	664.0	662.4	660.8
140°	695.4	694.2	692.6	691.1	689.6	688.0	686.7	685.6	684.5	683.4	682.3
142.5°	713.8	712.7	710.9	709.2	707.4	705.6	704.3	703.3	702.3	701.2	700.3
145°	739.5	738.5	736.1	733.8	731.4	729.1	727.9	728.1	728.3	728.3	728.5
147.5°	762.0	761.2	758.8	756.5	754.2	751.9	751.0	751.5	752.1	752.6	753.0
150°	775.5	774.7	772.5	770.3	768.0	765.8	765.2	766.2	767.1	768.1	769.1
152.5°	788.0	787.2	785.1	782.9	780.9	778.7	778.2	779.3	780.4	781.5	782.6
155°	804.9	804.1	802.4	800.7	799.1	797.4	797.2	798.4	799.7	800.9	802.2
157.5°	818.9	818.0	816.8	815.6	814.5	813.3	813.3	814.3	815.4	816.5	817.5
160°	827.3	826.5	825.6	824.8	824.0	823.1	823.1	824.0	824.8	825.6	826.5
162.5°	834.9	834.0	833.3	832.6	831.8	831.1	831.2	832.0	832.9	833.7	834.5
165°	844.4	843.4	842.9	842.5	842.1	841.7	841.9	842.8	843.6	844.4	845.3
167.5°	852.2	851.2	850.9	850.4	850.1	849.7	849.9	850.7	851.6	852.4	853.2
170°	856.2	855.2	855.0	854.7	854.3	854.1	854.3	855.2	856.0	856.8	857.7
172.5°	859.2	858.2	857.9	857.6	857.4	857.1	857.4	858.2	859.1	859.9	860.7
175°	862.5	861.5	861.2	860.9	860.6	860.3	860.7	861.7	862.6	863.6	864.6
177.5°	863.0	862.2	862.1	862.0	861.8	861.7	862.1	862.9	863.6	864.4	865.2
180°	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7



TEST NUMBER: P331561-940

CATALOG NUMBER: S122DIW-S865D710U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1547.7	1550.0	1557.6	1565.1	1573.7	1576.0	1579.8	1576.5	1575.6	1584.6	1591.2
5°	1552.0	1562.6	1583.4	1602.3	1618.3	1629.5	1641.4	1646.1	1654.9	1667.4	1682.7
7.5°	1547.0	1567.7	1600.3	1627.9	1658.0	1679.5	1696.5	1710.9	1728.5	1752.0	1777.7
10°	1541.3	1569.1	1608.8	1642.5	1679.2	1707.0	1730.1	1752.6	1778.6	1811.2	1844.9
12.5°	1531.0	1564.0	1613.6	1653.4	1700.5	1727.9	1759.0	1807.5	1835.4	1880.8	1928.2
15°	1510.0	1546.7	1615.9	1665.0	1718.2	1770.3	1827.7	1873.9	1920.0	1946.7	2013.6
17.5°	1478.9	1532.8	1609.4	1666.7	1734.4	1816.4	1880.9	1933.1	1986.5	2029.6	2063.2
20°	1453.8	1512.3	1599.9	1668.6	1749.0	1837.2	1911.2	1964.4	2010.5	2046.7	2067.3
22.5°	1422.1	1495.8	1581.0	1661.4	1764.2	1851.4	1929.1	1971.0	2009.6	2027.2	2035.2
25°	1372.2	1460.9	1557.4	1655.6	1771.6	1863.9	1934.8	1960.2	1971.5	1954.4	1925.9
27.5°	1318.3	1417.2	1530.0	1644.4	1767.0	1855.7	1906.7	1902.6	1883.6	1828.1	1783.7
30°	1278.1	1387.0	1508.2	1633.1	1756.1	1842.5	1872.1	1842.5	1799.3	1737.2	1673.9
32.5°	1235.9	1348.6	1485.1	1616.9	1736.3	1812.2	1818.6	1767.7	1700.8	1630.2	1551.3
35°	1172.2	1294.1	1441.4	1581.0	1694.0	1742.0	1713.5	1623.6	1544.4	1447.9	1340.2
37.5°	1100.1	1234.7	1382.4	1528.3	1630.7	1643.2	1572.7	1478.0	1366.2	1252.9	1126.1
40°	1046.2	1188.7	1340.8	1488.1	1578.6	1565.6	1475.7	1371.5	1238.4	1099.9	982.2
42.5°	997.8	1140.4	1295.3	1439.8	1512.3	1476.6	1371.5	1243.8	1100.6	970.3	862.5
45°	914.2	1060.9	1219.5	1359.1	1400.5	1336.1	1197.0	1055.0	914.2	805.3	720.1
47.5°	832.9	978.0	1135.1	1257.8	1272.5	1185.7	1033.8	887.7	766.6	678.0	617.9
50°	773.4	918.9	1074.5	1184.0	1179.2	1074.5	918.3	779.3	678.1	606.5	566.2
52.5°	719.9	857.4	1006.8	1106.3	1081.3	967.1	818.0	694.6	611.4	555.4	518.9
55°	636.7	763.8	905.9	985.8	939.6	813.0	687.0	587.5	526.0	484.0	455.6
57.5°	554.0	673.3	794.9	844.1	793.1	676.2	571.1	499.0	452.7	421.6	403.1
60°	502.9	607.1	715.3	758.0	697.1	592.9	510.1	445.6	408.2	382.8	366.2
62.5°	451.8	545.1	647.2	670.4	614.7	526.6	453.3	399.7	369.0	346.3	330.7
65°	382.3	458.5	536.1	551.4	500.0	431.9	374.0	339.0	311.8	295.2	282.9
67.5°	313.4	374.8	429.7	442.1	397.0	349.8	307.9	277.5	259.0	245.3	234.8
70°	272.8	321.3	366.2	376.3	340.2	298.2	266.3	242.0	225.4	213.6	203.6
72.5°	229.7	270.2	307.6	314.3	284.8	252.8	226.5	207.4	192.8	185.2	175.6
75°	175.8	199.4	228.4	230.2	210.6	191.1	171.0	158.5	150.9	141.4	136.7
77.5°	124.0	142.6	159.2	162.4	150.8	137.5	126.3	116.5	109.9	105.6	101.2
80°	94.7	109.5	116.5	120.7	112.4	103.0	96.5	90.0	85.8	82.8	79.9
82.5°	67.7	76.8	83.5	86.6	82.1	76.4	69.9	66.3	63.0	60.5	59.6
85°	34.3	38.4	42.6	43.8	42.6	40.2	36.6	36.6	34.9	34.3	34.3
87.5°	12.3	14.4	14.8	16.5	15.8	16.1	16.2	16.0	15.8	15.4	15.1
90°	2.1	3.7	5.2	6.7	8.0	9.2	10.3	11.4	12.5	13.2	13.9
92.5°	12.5	12.3	12.2	12.0	12.3	12.8	13.4	13.9	14.4	14.8	15.2
95°	36.0	31.4	26.8	22.3	20.4	21.4	22.4	23.4	24.3	25.1	25.8
97.5°	67.6	54.8	41.8	28.9	23.6	25.9	28.1	30.3	32.5	33.2	33.7
100°	91.5	72.5	53.5	34.5	26.1	28.5	30.9	33.3	35.6	36.6	37.8
102.5°	139.5	135.4	131.3	127.3	115.5	95.8	76.1	56.3	36.6	38.0	39.5
105°	193.9	198.1	202.2	206.4	189.6	151.7	113.8	76.0	38.1	39.6	41.1
107.5°	245.9	249.3	252.6	256.0	235.0	189.6	144.2	98.7	53.3	51.7	50.2
110°	279.5	282.4	285.3	288.2	269.6	229.5	189.4	149.4	109.2	95.4	81.5





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	311.1	313.7	316.2	318.8	315.1	305.2	295.3	285.4	275.5	225.0	174.3
115°	361.3	363.6	366.0	368.4	371.3	374.8	378.3	381.7	385.1	320.9	256.7
117.5°	406.6	409.3	411.9	414.6	417.1	419.5	421.9	424.2	426.6	411.1	395.6
120°	439.1	441.1	443.2	445.3	447.5	450.0	452.5	455.0	457.5	459.2	460.9
122.5°	467.2	469.3	471.5	473.7	476.2	478.8	481.6	484.3	487.1	488.0	489.0
125°	509.3	511.1	512.9	514.7	516.9	519.6	522.2	524.9	527.4	528.4	529.4
127.5°	548.0	550.1	552.1	554.1	556.1	558.0	560.0	562.0	563.9	565.3	566.8
130°	572.7	575.0	577.2	579.4	581.3	582.8	584.3	585.9	587.5	589.0	590.5
132.5°	597.4	599.3	601.2	603.1	604.8	606.3	607.8	609.4	610.9	612.2	613.5
135°	630.2	632.4	634.6	636.9	638.6	639.9	641.1	642.4	643.6	645.0	646.4
137.5°	662.4	664.0	665.5	667.0	668.5	669.9	671.4	672.8	674.2	675.6	676.9
140°	683.4	684.5	685.6	686.7	688.0	689.6	691.1	692.6	694.2	695.4	696.7
142.5°	701.2	702.3	703.3	704.3	705.6	707.4	709.2	710.9	712.7	713.8	714.9
145°	728.3	728.3	728.1	727.9	729.1	731.4	733.8	736.1	738.5	739.5	740.4
147.5°	752.6	752.1	751.5	751.0	751.9	754.2	756.5	758.8	761.2	762.0	762.7
150°	768.1	767.1	766.2	765.2	765.8	768.0	770.3	772.5	774.7	775.5	776.3
152.5°	781.5	780.4	779.3	778.2	778.7	780.9	782.9	785.1	787.2	788.0	788.8
155°	800.9	799.7	798.4	797.2	797.4	799.1	800.7	802.4	804.1	804.9	805.7
157.5°	816.5	815.4	814.3	813.3	813.3	814.5	815.6	816.8	818.0	818.9	819.9
160°	825.6	824.8	824.0	823.1	823.1	824.0	824.8	825.6	826.5	827.3	828.1
162.5°	833.7	832.9	832.0	831.2	831.1	831.8	832.6	833.3	834.0	834.9	835.9
165°	844.4	843.6	842.8	841.9	841.7	842.1	842.5	842.9	843.4	844.4	845.3
167.5°	852.4	851.6	850.7	849.9	849.7	850.1	850.4	850.9	851.2	852.2	853.2
170°	856.8	856.0	855.2	854.3	854.1	854.3	854.7	855.0	855.2	856.2	857.2
172.5°	859.9	859.1	858.2	857.4	857.1	857.4	857.6	857.9	858.2	859.2	860.1
175°	863.6	862.6	861.7	860.7	860.3	860.6	860.9	861.2	861.5	862.5	863.4
177.5°	864.4	863.6	862.9	862.1	861.7	861.8	862.0	862.1	862.2	863.0	863.8
180°	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1596.9	1603.5	1603.5	1604.5	1612.0	1611.1	1610.6
5°	1699.3	1709.4	1710.6	1721.3	1728.3	1726.0	1719.5
7.5°	1796.0	1814.7	1828.9	1836.8	1846.2	1852.0	1849.4
10°	1872.7	1899.9	1916.5	1927.7	1941.3	1951.4	1947.9
12.5°	1942.3	1974.7	1997.4	2016.7	2018.5	2031.4	2022.7
15°	2050.8	2085.1	2088.7	2102.8	2114.2	2112.9	2113.5
17.5°	2086.7	2097.7	2099.9	2100.2	2100.4	2096.2	2087.2
20°	2073.9	2069.7	2059.7	2052.0	2038.4	2036.6	2024.8
22.5°	2013.3	2000.2	1975.0	1958.3	1937.1	1931.5	1928.2
25°	1894.0	1865.0	1824.8	1786.3	1775.7	1755.0	1760.9
27.5°	1730.4	1685.2	1641.6	1610.3	1582.1	1551.0	1560.0
30°	1615.3	1564.4	1502.9	1455.5	1425.4	1395.8	1390.4
32.5°	1478.0	1403.5	1334.9	1293.2	1247.0	1228.2	1207.7
35°	1241.4	1168.6	1100.5	1042.0	1008.3	982.2	958.5
37.5°	1028.5	944.7	889.7	842.3	818.0	803.1	806.8
40°	896.4	823.0	782.8	746.7	724.2	713.5	716.0
42.5°	789.4	734.5	701.4	676.6	660.8	654.9	653.4
45°	668.0	637.2	610.0	595.8	588.2	581.7	577.5
47.5°	585.1	560.1	544.7	536.3	529.6	522.9	522.8
50°	535.5	518.9	508.3	499.4	494.1	489.4	493.5
52.5°	497.6	482.5	471.8	463.9	461.9	457.6	457.5
55°	441.4	429.5	421.9	414.7	411.3	408.8	405.9
57.5°	390.3	379.1	371.9	367.5	360.7	358.3	357.4
60°	353.8	344.9	337.9	331.9	329.0	324.2	324.2
62.5°	320.2	311.4	304.7	300.2	295.3	293.5	294.0
65°	271.6	264.5	258.0	253.2	252.1	248.5	249.7
67.5°	226.9	222.1	215.3	212.7	210.4	208.5	207.1
70°	197.1	192.3	188.8	185.2	183.4	183.4	183.4
72.5°	171.9	166.3	164.2	159.6	160.7	158.8	156.9
75°	133.1	129.6	127.8	126.0	123.1	123.1	123.1
77.5°	98.0	96.9	94.8	92.9	92.2	91.6	91.8
80°	75.7	75.2	73.9	73.9	72.8	72.2	71.0
82.5°	58.2	56.7	56.0	55.5	55.3	55.1	54.9
85°	33.2	31.9	31.9	32.5	31.4	31.4	31.9
87.5°	15.7	15.9	15.4	15.5	16.1	15.6	15.7
90°	14.5	15.2	15.8	16.1	16.3	16.6	16.9
92.5°	15.6	16.0	16.2	16.3	16.5	16.7	16.9
95°	26.4	27.1	27.4	27.3	27.1	27.0	26.8
97.5°	34.2	34.8	35.1	35.3	35.5	35.7	35.8
100°	38.9	40.0	40.8	41.0	41.3	41.6	41.8
102.5°	40.9	42.4	43.2	43.7	44.1	44.4	44.9
105°	42.6	44.1	45.2	45.7	46.4	46.9	47.4
107.5°	48.7	47.1	46.6	47.2	47.7	48.2	48.8
110°	67.6	53.8	47.1	47.6	48.2	48.8	49.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	123.8	73.1	48.1	48.5	49.0	49.4	49.8
115°	192.4	128.2	91.1	81.1	71.2	61.2	51.2
117.5°	380.0	364.4	340.3	307.5	274.6	241.8	209.0
120°	462.5	464.2	455.7	436.9	418.2	399.5	380.8
122.5°	490.0	491.1	489.7	486.1	482.4	478.8	475.2
125°	530.4	531.4	532.1	532.4	532.9	533.3	533.7
127.5°	568.2	569.6	570.3	570.4	570.5	570.6	570.7
130°	592.0	593.5	594.2	594.1	594.0	593.8	593.7
132.5°	614.8	616.1	616.7	616.5	616.4	616.3	616.2
135°	647.7	649.2	649.7	649.4	649.2	648.9	648.6
137.5°	678.2	679.7	680.1	679.6	679.1	678.7	678.1
140°	697.9	699.2	699.5	698.7	698.0	697.3	696.7
142.5°	716.0	717.2	717.4	716.8	716.0	715.3	714.6
145°	741.4	742.3	742.5	741.8	741.1	740.4	739.8
147.5°	763.4	764.1	764.2	763.6	763.0	762.4	761.8
150°	777.2	778.0	778.1	777.4	776.7	776.0	775.3
152.5°	789.7	790.5	790.5	789.5	788.6	787.7	786.8
155°	806.6	807.4	807.2	806.1	805.0	803.9	802.8
157.5°	820.8	821.8	821.7	820.6	819.6	818.5	817.3
160°	829.0	829.8	829.7	828.8	827.8	826.9	825.9
162.5°	836.8	837.8	837.7	836.4	835.3	834.0	832.9
165°	846.2	847.2	847.2	846.2	845.3	844.4	843.4
167.5°	854.2	855.1	855.0	853.7	852.5	851.2	850.0
170°	858.1	859.1	859.0	857.7	856.5	855.2	854.0
172.5°	861.1	862.1	861.9	860.7	859.4	858.2	856.9
175°	864.3	865.3	865.1	863.7	862.4	860.9	859.6
177.5°	864.5	865.3	865.2	864.2	863.2	862.2	861.2
180°	862.7	862.7	862.7	862.7	862.7	862.7	862.7

(END OF REPORT)