

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: P331386

Luminaire Tested: **S122DIP-S865D530U835-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331386
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIP-S865D530U835-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 530 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5875.4 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

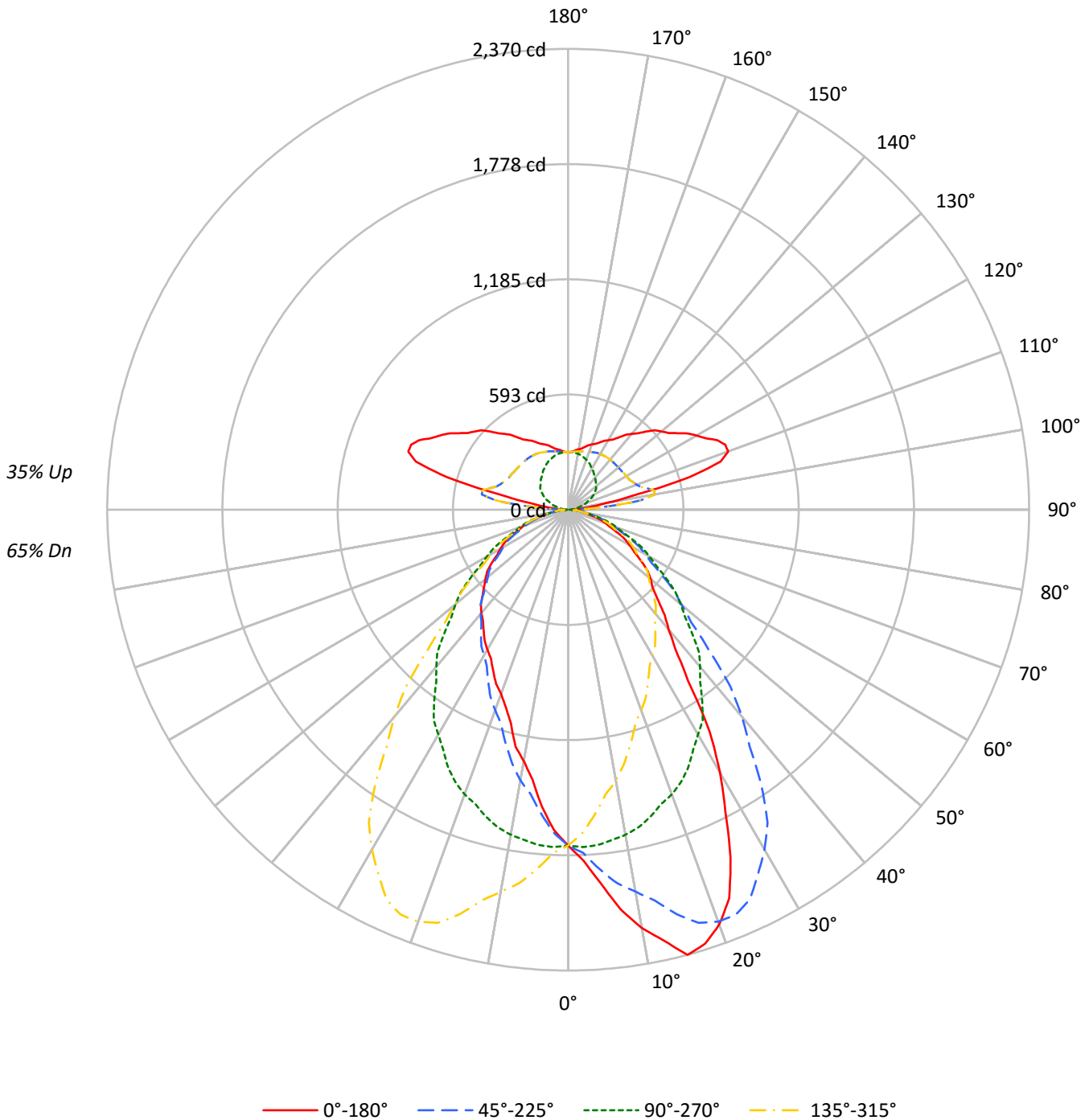
Input Watts (W): 48.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	111	111	111	111	104	104	104	104	92	92	92	80	80	80	70	70	70	65				
1	102	98	94	90	96	92	89	86	81	79	77	72	70	68	63	61	60	56				
2	93	86	80	75	87	81	76	71	72	68	64	64	61	58	56	54	52	48				
3	85	76	69	63	80	72	66	60	64	59	55	57	53	50	50	47	45	41				
4	79	68	60	54	74	64	57	52	57	52	47	51	47	43	45	42	39	36				
5	72	61	53	47	68	58	51	45	52	46	41	46	42	38	41	37	34	32				
6	67	55	47	41	63	52	45	40	47	41	37	42	37	34	38	34	31	28				
7	62	50	42	36	58	48	40	35	43	37	33	39	34	30	34	31	28	25				
8	58	46	38	33	54	43	36	31	39	33	29	35	31	27	32	28	25	23				
9	54	42	34	29	51	40	33	28	36	30	26	33	28	25	29	26	23	21				
10	51	39	31	27	48	37	30	26	34	28	24	30	26	22	27	24	21	19				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	27876	27876	27876	27876
5°	31253	28058	24864	28058
10°	35813	27829	21518	27829
15°	39619	27318	19010	27318
20°	39015	26770	17330	26770
25°	35179	26042	16265	26042
30°	29071	24878	15489	24878
35°	21187	23660	14937	23660
40°	16923	22223	14629	22223
45°	14787	20559	14212	20559
50°	13901	18952	13933	18952
55°	12814	17315	13560	17315
60°	11741	15578	12984	15578
65°	10697	14017	12420	14017
70°	9711	12500	11589	12500
75°	8609	10805	10268	10805
80°	7401	8945	8266	8945
85°	6632	6632	4909	6632



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.4	2.8
10°-20°	478.0	8.1
20°-30°	693.8	11.8
30°-40°	732.1	12.5
40°-50°	648.2	11.0
50°-60°	517.3	8.8
60°-70°	351.6	6.0
70°-80°	180.3	3.1
80°-90°	46.1	0.8
90°-100°	118.6	2.0
100°-110°	402.4	6.8
110°-120°	427.5	7.3
120°-130°	351.9	6.0
130°-140°	282.6	4.8
140°-150°	213.5	3.6
150°-160°	150.1	2.6
160°-170°	88.3	1.5
170°-180°	28.8	0.5
0°-30°	1336.2	22.7
0°-40°	2068.3	35.2
0°-60°	3233.8	55.0
0°-90°	3811.8	64.9
90°-120°	948.4	16.1
90°-150°	1796.4	30.6
90°-180°	2064.0	35.1
0°-180°	5875.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1726	1726	1726	1726	1726	
5°	1928	1731	1534	1731	1928	193
15°	2370	1634	1137	1634	2370	654
25°	1975	1462	913	1462	1975	893
35°	1075	1200	758	1200	1075	699
45°	648	900	622	900	648	509
55°	455	615	482	615	455	408
65°	280	367	325	367	280	278
75°	138	173	165	173	138	147
85°	36	36	26	36	36	40
90°	19	1	19	1	19	12
95°	65	20	65	20	65	85
105°	643	70	643	70	643	622
115°	846	123	846	123	846	828
125°	686	171	686	171	686	620
135°	569	201	569	201	569	442
145°	454	229	454	229	454	288
155°	382	261	382	261	382	178
165°	335	284	335	284	335	96
175°	302	296	302	296	302	29
180°	296	296	296	296	296	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1806.2	1806.7	1807.8	1799.3	1798.2	1798.2	1790.8	1784.4	1777.0	1766.9	1768.0
5°	1928.3	1935.6	1938.2	1930.3	1918.3	1917.0	1905.7	1887.1	1869.9	1855.9	1846.0
7.5°	2074.0	2076.9	2070.4	2059.9	2051.0	2035.1	2014.1	1993.6	1964.8	1938.4	1918.7
10°	2184.4	2188.4	2177.1	2161.8	2149.2	2130.6	2100.1	2068.9	2031.1	1994.6	1965.4
12.5°	2268.3	2278.1	2263.6	2261.6	2240.0	2214.5	2178.2	2162.4	2109.2	2058.3	2027.0
15°	2370.2	2369.5	2370.9	2358.2	2342.3	2338.3	2299.9	2258.1	2183.1	2153.2	2101.5
17.5°	2340.7	2350.8	2355.5	2355.3	2354.9	2352.4	2340.1	2313.7	2276.1	2227.7	2167.9
20°	2270.7	2283.9	2285.9	2301.2	2309.8	2321.1	2325.7	2318.4	2295.2	2254.7	2203.0
22.5°	2162.4	2166.1	2172.3	2196.1	2214.8	2243.1	2257.8	2282.3	2273.4	2253.7	2210.4
25°	1974.7	1968.1	1991.3	2003.2	2046.4	2091.5	2124.0	2159.8	2191.7	2210.9	2198.3
27.5°	1749.4	1739.4	1774.2	1805.9	1840.9	1889.8	1940.5	2000.3	2050.1	2112.3	2133.7
30°	1559.3	1565.3	1598.5	1632.3	1685.4	1754.4	1811.5	1877.2	1948.2	2017.8	2066.3
32.5°	1354.4	1377.4	1398.4	1450.2	1497.0	1573.9	1657.5	1739.7	1828.2	1907.4	1982.4
35°	1074.9	1101.5	1130.7	1168.5	1234.2	1310.5	1392.1	1502.9	1623.7	1731.9	1820.8
37.5°	904.8	900.6	917.3	944.6	997.8	1059.4	1153.4	1262.9	1405.0	1532.1	1657.5
40°	802.9	800.2	812.2	837.4	877.9	923.0	1005.3	1101.5	1233.5	1388.8	1538.1
42.5°	732.8	734.4	741.0	758.8	786.6	823.7	885.3	967.2	1088.1	1234.3	1394.8
45°	647.6	652.3	659.6	668.2	684.1	714.6	749.1	807.5	903.1	1025.2	1183.1
47.5°	586.3	586.4	593.9	601.4	610.9	628.1	656.2	692.9	760.3	859.7	995.5
50°	553.4	548.8	554.1	560.0	570.0	581.9	600.5	635.0	680.1	760.4	873.9
52.5°	513.1	513.2	518.0	520.2	529.1	541.1	558.0	581.9	622.8	685.6	778.9
55°	455.2	458.5	461.2	465.1	473.1	481.7	495.0	510.9	542.8	589.9	658.9
57.5°	400.8	401.8	404.5	412.1	417.1	425.1	437.7	452.1	472.8	507.7	559.6
60°	363.6	363.6	368.9	372.2	378.9	386.8	396.8	410.7	429.3	457.8	499.7
62.5°	329.7	329.1	331.2	336.7	341.7	349.2	359.1	370.9	388.4	413.8	448.2
65°	280.0	278.7	282.7	284.0	289.3	296.6	304.6	317.2	331.1	349.7	380.2
67.5°	232.2	233.8	236.0	238.5	241.4	249.1	254.4	263.3	275.1	290.5	311.2
70°	205.7	205.7	205.7	207.7	211.7	215.7	221.0	228.3	239.5	252.8	271.4
72.5°	176.0	178.1	180.2	179.0	184.1	186.5	192.8	196.9	207.7	216.2	232.6
75°	138.0	138.0	138.0	141.3	143.3	145.3	149.3	153.3	158.6	169.2	177.8
77.5°	103.0	102.7	103.4	104.2	106.3	108.7	109.9	113.5	118.4	123.3	130.6
80°	79.6	81.0	81.6	82.9	82.9	84.3	84.9	89.6	92.9	96.2	100.9
82.5°	61.6	61.8	62.0	62.2	62.8	63.6	65.3	66.8	67.9	70.7	74.3
85°	35.8	35.2	35.2	36.5	35.8	35.8	37.2	38.5	38.5	39.1	41.1
87.5°	17.6	17.6	18.1	17.6	17.6	18.0	17.8	17.5	18.1	18.7	19.2
90°	18.8	18.8	18.8	18.8	18.8	18.2	17.1	18.2	18.8	19.4	18.8
92.5°	31.6	32.5	32.1	33.9	34.3	37.9	42.7	49.7	62.6	74.1	73.1
95°	65.0	64.4	66.2	70.7	78.1	90.7	114.6	149.4	195.6	223.6	197.9
97.5°	128.0	132.8	141.1	155.1	182.4	223.6	285.3	348.7	400.3	381.6	287.4
100°	204.2	214.4	231.0	255.5	302.8	371.8	450.0	520.7	532.6	450.5	310.2
102.5°	359.3	373.2	393.8	435.7	487.1	560.3	617.4	633.4	581.9	452.8	301.6
105°	642.7	650.7	675.2	710.6	745.9	764.8	757.3	692.9	574.3	422.6	284.6
107.5°	821.0	831.6	836.5	838.4	834.0	806.4	747.1	650.0	524.2	390.2	276.1
110°	874.8	875.4	870.3	859.4	834.9	788.1	715.1	613.1	492.7	374.7	274.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	873.9	870.8	861.1	843.0	808.9	755.3	677.3	579.3	470.8	364.6	274.8
115°	845.7	840.6	825.8	799.5	759.1	700.3	625.6	537.8	443.7	353.6	277.2
117.5°	795.4	791.1	775.5	747.8	706.5	651.4	583.6	506.5	426.6	348.2	281.3
120°	763.0	757.3	740.8	714.0	674.1	622.2	561.7	491.0	417.5	345.0	284.0
122.5°	729.3	724.5	709.8	683.4	647.6	600.7	543.5	478.7	409.7	343.2	287.2
125°	686.1	681.5	667.2	645.6	612.5	569.7	519.5	460.8	398.6	339.9	292.0
127.5°	648.2	644.5	632.2	611.9	583.1	543.6	496.3	443.1	388.4	338.0	296.9
130°	626.7	622.2	610.8	591.4	563.4	525.8	480.8	431.7	381.5	337.0	300.5
132.5°	604.4	600.3	589.8	570.4	542.9	507.6	466.2	420.8	376.0	336.6	304.2
135°	568.6	566.3	556.0	537.2	512.7	480.8	443.1	405.5	368.4	335.9	308.5
137.5°	533.4	530.0	521.0	504.8	482.5	454.6	424.8	393.3	363.0	335.8	312.4
140°	509.3	505.8	497.3	482.5	464.2	439.1	412.9	385.5	359.9	335.3	314.2
142.5°	485.1	484.4	476.8	463.3	446.0	425.0	402.4	379.1	356.7	335.3	315.6
145°	453.9	452.2	446.5	436.8	423.2	406.6	388.9	370.1	352.4	334.2	317.1
147.5°	427.8	426.8	422.9	415.2	403.9	391.8	378.0	363.2	348.1	332.1	317.5
150°	412.3	411.7	408.3	401.5	392.9	382.7	370.7	358.1	344.5	330.8	317.1
152.5°	399.1	399.0	396.5	390.5	383.8	374.9	364.8	353.1	341.3	328.5	316.2
155°	381.5	382.7	380.4	376.4	370.1	363.8	355.3	346.2	335.3	324.5	314.8
157.5°	366.6	366.6	365.6	362.2	357.8	352.9	345.7	338.1	329.7	320.4	312.2
160°	357.0	357.0	356.4	353.6	349.6	345.6	339.3	333.0	325.6	317.7	310.8
162.5°	347.9	348.3	347.8	345.8	341.8	338.8	333.4	328.0	322.0	315.4	309.4
165°	334.8	335.3	335.3	333.0	330.8	328.5	324.5	320.5	315.9	310.8	306.8
167.5°	322.7	323.4	323.5	322.2	321.2	319.1	316.4	313.3	310.0	306.8	304.2
170°	315.4	316.5	317.1	315.4	314.8	313.7	311.4	309.7	306.8	304.5	302.8
172.5°	309.4	310.1	310.7	309.9	309.3	308.6	306.8	305.6	303.6	301.8	301.0
175°	301.7	302.8	303.4	302.8	302.8	302.3	301.7	301.1	299.4	298.8	298.3
177.5°	297.0	297.9	298.4	298.4	298.4	298.4	297.9	297.9	297.0	296.5	297.0
180°	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1771.7	1767.4	1764.8	1755.2	1746.7	1738.2	1735.6	1736.6	1725.0	1713.8	1709.0
5°	1840.7	1827.4	1814.8	1796.9	1775.7	1752.4	1740.5	1731.2	1708.0	1682.8	1668.2
7.5°	1902.5	1883.5	1859.3	1825.6	1794.6	1758.1	1734.9	1714.3	1680.4	1644.8	1623.0
10°	1940.2	1914.3	1883.1	1842.0	1804.2	1759.7	1728.5	1697.4	1657.5	1615.1	1588.5
12.5°	1972.6	1937.7	1907.0	1854.2	1809.5	1753.9	1716.9	1672.9	1631.0	1580.6	1554.6
15°	2049.7	1985.3	1926.9	1867.2	1812.1	1734.5	1693.4	1634.3	1579.2	1516.9	1487.0
17.5°	2109.3	2037.0	1945.0	1869.1	1804.8	1718.9	1658.5	1587.7	1522.6	1451.3	1410.7
20°	2143.3	2060.3	1961.4	1871.2	1794.2	1696.0	1630.3	1558.0	1481.7	1401.4	1357.6
22.5°	2163.4	2076.2	1978.4	1863.2	1773.0	1677.4	1594.8	1515.5	1438.2	1351.5	1305.6
25°	2169.8	2090.2	1986.7	1856.6	1746.5	1638.3	1538.8	1461.8	1368.2	1287.3	1220.3
27.5°	2138.2	2081.1	1981.6	1844.1	1715.8	1589.3	1478.4	1391.2	1292.5	1204.6	1137.2
30°	2099.5	2066.3	1969.4	1831.4	1691.4	1555.4	1433.3	1334.4	1236.2	1147.3	1078.3
32.5°	2039.5	2032.3	1947.1	1813.3	1665.4	1512.4	1386.0	1286.1	1177.3	1089.9	1024.1
35°	1921.6	1953.5	1899.7	1773.0	1616.4	1451.2	1314.5	1200.4	1087.6	1003.9	942.2
37.5°	1763.7	1842.8	1828.7	1713.9	1550.3	1384.6	1233.7	1114.4	1006.9	922.5	861.9
40°	1654.9	1755.7	1770.3	1668.8	1503.6	1333.1	1173.2	1054.4	949.5	872.6	811.5
42.5°	1538.1	1655.9	1696.0	1614.7	1452.6	1278.9	1119.0	996.0	892.2	817.4	763.2
45°	1342.4	1498.3	1570.6	1524.2	1367.6	1189.7	1025.2	900.4	806.2	735.9	694.1
47.5°	1159.3	1329.7	1427.0	1410.6	1272.9	1096.8	934.1	814.4	722.7	666.6	629.2
50°	1029.8	1205.0	1322.4	1327.8	1205.0	1030.5	867.3	754.5	670.2	617.8	587.2
52.5°	917.3	1084.5	1212.6	1240.7	1129.1	961.5	807.3	695.0	620.8	572.6	545.3
55°	770.4	911.7	1053.7	1105.5	1015.9	856.6	714.0	615.1	545.4	512.3	488.4
57.5°	640.5	758.3	889.4	946.6	891.4	755.1	621.3	535.5	478.9	449.9	431.6
60°	572.0	664.9	781.7	850.0	802.2	680.8	564.0	482.4	436.0	410.1	392.8
62.5°	508.3	590.6	689.3	751.8	725.8	611.3	506.7	434.6	394.5	370.3	357.8
65°	419.4	484.4	560.7	618.4	601.2	514.2	428.7	366.9	335.1	315.8	305.9
67.5°	345.3	392.3	445.2	495.8	481.9	420.3	351.5	303.5	279.8	263.2	257.2
70°	298.6	334.4	381.5	422.0	410.7	360.3	305.9	264.8	244.2	230.3	224.3
72.5°	254.0	283.5	319.4	352.5	344.9	303.0	257.6	226.5	210.7	197.9	193.0
75°	191.8	214.3	236.2	258.1	256.1	223.6	197.1	173.2	160.6	150.6	148.6
77.5°	141.6	154.2	169.1	182.1	178.5	159.9	139.1	125.4	116.1	109.5	108.4
80°	108.2	115.5	126.1	135.4	130.7	122.8	106.2	96.2	89.6	82.9	80.3
82.5°	78.4	85.7	92.1	97.1	93.6	86.1	75.9	69.1	65.2	60.6	59.6
85°	41.1	45.1	47.8	49.1	47.8	43.1	38.5	35.8	32.5	30.5	29.9
87.5°	19.0	18.2	17.6	18.4	16.5	16.3	13.7	11.8	11.6	11.5	10.7
90°	15.4	11.4	8.6	6.8	5.7	4.6	2.3	0.6	2.3	4.6	5.7
92.5°	56.9	38.8	25.9	20.5	16.7	14.1	10.0	7.0	10.0	14.1	16.7
95°	131.7	82.1	55.9	42.2	33.1	27.9	22.2	20.0	22.2	27.9	33.1
97.5°	177.5	108.4	75.4	59.9	49.4	41.6	35.6	32.5	35.6	41.6	49.4
100°	187.1	117.5	87.3	71.3	59.9	50.8	45.6	43.9	45.6	50.8	59.9
102.5°	187.5	125.7	97.7	81.8	69.9	60.8	55.7	54.4	55.7	60.8	69.9
105°	190.5	139.7	112.9	96.9	84.4	75.8	71.9	69.6	71.9	75.8	84.4
107.5°	198.3	154.1	128.1	112.0	99.6	91.7	87.8	86.0	87.8	91.7	99.6
110°	204.7	163.7	138.6	122.0	110.1	102.7	99.2	96.9	99.2	102.7	110.1



TEST NUMBER: P331386

CATALOG NUMBER: S122DIP-S865D530U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	211.6	172.8	148.6	131.6	120.1	113.1	109.3	107.0	109.3	113.1	120.1
115°	221.8	187.1	162.5	147.1	135.7	128.9	125.5	122.6	125.5	128.9	135.7
117.5°	232.8	200.2	177.5	161.5	150.6	144.5	141.1	138.8	141.1	144.5	150.6
120°	240.1	209.3	187.1	171.1	159.7	154.5	151.1	148.8	151.1	154.5	159.7
122.5°	246.5	218.0	197.1	180.7	169.3	163.7	160.3	158.4	160.3	163.7	169.3
125°	256.6	231.0	210.4	194.5	183.1	176.2	172.8	171.1	172.8	176.2	183.1
127.5°	266.1	243.1	223.1	206.7	195.7	188.2	183.4	181.1	183.4	188.2	195.7
130°	272.0	250.4	230.4	214.4	203.0	195.0	189.3	187.1	189.3	195.0	203.0
132.5°	278.0	256.7	237.7	221.7	209.9	201.4	195.3	192.5	195.3	201.4	209.9
135°	285.7	265.8	247.5	231.5	218.4	209.9	203.0	200.7	203.0	209.9	218.4
137.5°	291.6	273.1	255.0	240.2	227.2	218.1	211.2	208.5	211.2	218.1	227.2
140°	294.8	277.2	260.1	245.2	232.7	223.6	216.7	214.4	216.7	223.6	232.7
142.5°	297.6	280.4	263.7	249.8	237.7	228.6	222.2	220.4	222.2	228.6	237.7
145°	301.1	285.1	269.7	257.2	245.8	237.2	231.5	229.3	231.5	237.2	245.8
147.5°	303.1	289.0	274.5	263.4	253.9	246.0	240.5	238.8	240.5	246.0	253.9
150°	304.0	290.8	277.7	267.5	258.9	251.5	246.9	245.2	246.9	251.5	258.9
152.5°	304.4	292.7	280.9	271.6	263.5	257.0	252.4	251.6	252.4	257.0	263.5
155°	305.1	295.4	285.7	277.2	270.9	264.6	261.2	260.6	261.2	264.6	270.9
157.5°	305.1	297.3	289.1	282.0	276.9	271.5	268.7	268.1	268.7	271.5	276.9
160°	305.1	298.3	291.4	285.1	280.6	276.0	273.7	273.2	273.7	276.0	280.6
162.5°	304.6	298.7	292.8	287.9	283.8	280.1	277.8	278.2	277.8	280.1	283.8
165°	303.4	299.4	294.3	290.8	288.0	284.6	283.4	284.0	283.4	284.6	288.0
167.5°	302.6	299.3	295.5	293.4	291.3	289.1	288.1	288.8	288.1	289.1	291.3
170°	301.7	298.8	296.0	294.3	293.1	291.4	290.8	292.0	290.8	291.4	293.1
172.5°	300.3	298.4	296.4	295.2	294.5	292.8	293.1	293.8	293.1	292.8	294.5
175°	298.8	297.7	296.5	296.0	296.0	294.8	295.4	296.0	295.4	294.8	296.0
177.5°	297.9	297.0	296.5	296.5	296.5	295.6	296.1	297.0	296.1	295.6	296.5
180°	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5



TEST NUMBER: P331386

CATALOG NUMBER: S122DIP-S865D530U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1703.7	1700.5	1689.4	1683.6	1674.0	1665.0	1659.1	1661.8	1663.9	1662.8	1661.3
5°	1654.9	1642.3	1623.0	1606.4	1594.5	1572.6	1563.3	1558.7	1554.7	1550.0	1545.4
7.5°	1596.8	1576.9	1549.2	1525.6	1503.3	1476.1	1460.6	1451.3	1441.8	1431.3	1422.0
10°	1555.4	1527.5	1498.3	1465.1	1438.6	1414.0	1392.1	1377.5	1364.3	1351.6	1342.4
12.5°	1511.8	1479.7	1443.6	1398.2	1369.0	1333.9	1330.5	1304.8	1284.1	1276.3	1265.4
15°	1442.6	1397.4	1351.6	1297.9	1274.7	1242.8	1222.9	1203.0	1185.1	1172.5	1169.2
17.5°	1363.9	1305.5	1259.9	1221.3	1183.2	1150.6	1132.3	1116.4	1101.6	1084.8	1082.5
20°	1303.9	1253.4	1203.7	1169.8	1130.7	1097.5	1074.9	1059.0	1046.4	1036.5	1027.8
22.5°	1247.1	1191.9	1146.3	1109.3	1070.7	1043.9	1026.1	1010.7	1000.2	989.2	981.1
25°	1155.9	1112.8	1063.0	1021.2	989.3	972.1	957.5	944.2	937.6	930.3	921.0
27.5°	1076.1	1028.2	981.7	949.3	921.3	906.0	895.7	886.6	880.4	876.1	870.8
30°	1019.9	971.4	934.9	903.1	879.9	864.6	858.0	852.7	845.4	842.7	840.1
32.5°	965.7	922.1	890.9	863.3	841.1	831.2	825.1	820.3	814.6	811.9	806.6
35°	889.2	852.7	822.1	806.9	789.0	780.3	775.7	769.1	763.7	761.1	760.4
37.5°	817.1	785.4	765.3	745.7	738.1	732.8	726.5	721.9	720.3	719.9	719.3
40°	770.4	744.5	726.6	710.7	707.3	699.4	694.1	690.1	690.1	690.8	690.1
42.5°	727.9	704.7	688.9	675.1	671.2	666.5	661.2	660.9	662.0	664.2	662.0
45°	663.5	647.0	635.7	629.0	621.7	617.1	616.4	618.4	619.1	619.8	621.7
47.5°	604.4	593.3	583.1	575.8	572.6	571.8	571.0	574.5	577.7	578.9	581.9
50°	569.3	556.7	548.1	543.4	540.8	539.5	540.8	544.8	547.4	550.7	552.7
52.5°	530.0	521.1	515.2	511.6	510.5	511.3	511.6	516.1	520.4	521.5	522.5
55°	475.8	469.1	467.8	461.8	464.5	463.8	467.1	469.8	473.8	477.8	478.4
57.5°	421.6	416.3	412.7	413.3	414.1	417.0	419.8	424.4	428.7	432.9	433.3
60°	385.5	382.9	380.9	380.9	382.2	386.2	389.5	394.1	396.8	399.5	401.4
62.5°	352.6	350.0	348.0	349.0	352.5	354.9	358.7	361.2	363.9	366.5	367.5
65°	300.6	299.3	301.3	302.6	303.2	306.6	311.2	313.2	315.8	317.2	321.8
67.5°	252.7	252.9	252.7	254.5	258.4	259.2	263.6	268.2	268.7	271.3	274.3
70°	220.3	221.6	223.0	224.3	227.6	228.9	232.2	234.2	236.9	238.9	240.9
72.5°	190.6	190.8	192.2	191.9	194.7	197.6	200.4	202.4	205.0	207.6	209.5
75°	146.6	146.6	148.0	148.6	152.0	155.3	154.6	155.9	158.6	161.2	162.6
77.5°	107.1	105.6	107.1	107.8	108.8	111.6	112.1	114.0	117.0	116.1	117.6
80°	81.6	79.6	81.6	82.3	82.3	85.6	85.6	86.9	88.9	86.9	88.9
82.5°	58.3	57.3	58.8	58.9	60.0	60.1	61.2	61.4	63.4	62.5	63.4
85°	29.2	28.5	29.2	28.5	29.2	29.9	29.9	29.2	29.2	30.5	28.5
87.5°	10.4	10.2	10.2	11.0	11.2	10.8	10.1	10.0	9.8	9.0	9.1
90°	6.8	8.6	11.4	15.4	18.8	19.4	18.8	18.2	17.1	18.2	18.8
92.5°	20.5	25.9	38.8	56.9	73.1	74.1	62.6	49.7	42.7	37.9	34.3
95°	42.2	55.9	82.1	131.7	197.9	223.6	195.6	149.4	114.6	90.7	78.1
97.5°	59.9	75.4	108.4	177.5	287.4	381.6	400.3	348.7	285.3	223.6	182.4
100°	71.3	87.3	117.5	187.1	310.2	450.5	532.6	520.7	450.0	371.8	302.8
102.5°	81.8	97.7	125.7	187.5	301.6	452.8	581.9	633.4	617.4	560.3	487.1
105°	96.9	112.9	139.7	190.5	284.6	422.6	574.3	692.9	757.3	764.8	745.9
107.5°	112.0	128.1	154.1	198.3	276.1	390.2	524.2	650.0	747.1	806.4	834.0
110°	122.0	138.6	163.7	204.7	274.3	374.7	492.7	613.1	715.1	788.1	834.9



TEST NUMBER: P331386

CATALOG NUMBER: S122DIP-S865D530U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	131.6	148.6	172.8	211.6	274.8	364.6	470.8	579.3	677.3	755.3	808.9
115°	147.1	162.5	187.1	221.8	277.2	353.6	443.7	537.8	625.6	700.3	759.1
117.5°	161.5	177.5	200.2	232.8	281.3	348.2	426.6	506.5	583.6	651.4	706.5
120°	171.1	187.1	209.3	240.1	284.0	345.0	417.5	491.0	561.7	622.2	674.1
122.5°	180.7	197.1	218.0	246.5	287.2	343.2	409.7	478.7	543.5	600.7	647.6
125°	194.5	210.4	231.0	256.6	292.0	339.9	398.6	460.8	519.5	569.7	612.5
127.5°	206.7	223.1	243.1	266.1	296.9	338.0	388.4	443.1	496.3	543.6	583.1
130°	214.4	230.4	250.4	272.0	300.5	337.0	381.5	431.7	480.8	525.8	563.4
132.5°	221.7	237.7	256.7	278.0	304.2	336.6	376.0	420.8	466.2	507.6	542.9
135°	231.5	247.5	265.8	285.7	308.5	335.9	368.4	405.5	443.1	480.8	512.7
137.5°	240.2	255.0	273.1	291.6	312.4	335.8	363.0	393.3	424.8	454.6	482.5
140°	245.2	260.1	277.2	294.8	314.2	335.3	359.9	385.5	412.9	439.1	464.2
142.5°	249.8	263.7	280.4	297.6	315.6	335.3	356.7	379.1	402.4	425.0	446.0
145°	257.2	269.7	285.1	301.1	317.1	334.2	352.4	370.1	388.9	406.6	423.2
147.5°	263.4	274.5	289.0	303.1	317.5	332.1	348.1	363.2	378.0	391.8	403.9
150°	267.5	277.7	290.8	304.0	317.1	330.8	344.5	358.1	370.7	382.7	392.9
152.5°	271.6	280.9	292.7	304.4	316.2	328.5	341.3	353.1	364.8	374.9	383.8
155°	277.2	285.7	295.4	305.1	314.8	324.5	335.3	346.2	355.3	363.8	370.1
157.5°	282.0	289.1	297.3	305.1	312.2	320.4	329.7	338.1	345.7	352.9	357.8
160°	285.1	291.4	298.3	305.1	310.8	317.7	325.6	333.0	339.3	345.6	349.6
162.5°	287.9	292.8	298.7	304.6	309.4	315.4	322.0	328.0	333.4	338.8	341.8
165°	290.8	294.3	299.4	303.4	306.8	310.8	315.9	320.5	324.5	328.5	330.8
167.5°	293.4	295.5	299.3	302.6	304.2	306.8	310.0	313.3	316.4	319.1	321.2
170°	294.3	296.0	298.8	301.7	302.8	304.5	306.8	309.7	311.4	313.7	314.8
172.5°	295.2	296.4	298.4	300.3	301.0	301.8	303.6	305.6	306.8	308.6	309.3
175°	296.0	296.5	297.7	298.8	298.3	298.8	299.4	301.1	301.7	302.3	302.8
177.5°	296.5	296.5	297.0	297.9	297.0	296.5	297.0	297.9	297.9	298.4	298.4
180°	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5



TEST NUMBER: P331386

CATALOG NUMBER: S122DIP-S865D530U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1655.9	1654.9	1654.9	1650.1	1654.9	1654.9	1655.9	1661.3	1662.8	1663.9	1661.8
5°	1536.1	1534.1	1530.8	1534.1	1530.8	1534.1	1536.1	1545.4	1550.0	1554.7	1558.7
7.5°	1417.6	1409.6	1408.4	1400.6	1408.4	1409.6	1417.6	1422.0	1431.3	1441.8	1451.3
10°	1331.1	1325.8	1325.1	1312.5	1325.1	1325.8	1331.1	1342.4	1351.6	1364.3	1377.5
12.5°	1265.3	1252.5	1255.0	1247.7	1255.0	1252.5	1265.3	1265.4	1276.3	1284.1	1304.8
15°	1151.3	1151.3	1148.6	1137.3	1148.6	1151.3	1151.3	1169.2	1172.5	1185.1	1203.0
17.5°	1069.4	1068.0	1061.7	1064.9	1061.7	1068.0	1069.4	1082.5	1084.8	1101.6	1116.4
20°	1020.5	1016.6	1008.6	1008.6	1008.6	1016.6	1020.5	1027.8	1036.5	1046.4	1059.0
22.5°	974.4	974.1	965.6	968.2	965.6	974.1	974.4	981.1	989.2	1000.2	1010.7
25°	920.3	915.0	911.1	913.0	911.1	915.0	920.3	921.0	930.3	937.6	944.2
27.5°	869.1	866.2	865.9	860.5	865.9	866.2	869.1	870.8	876.1	880.4	886.6
30°	839.4	832.8	834.1	830.8	834.1	832.8	839.4	840.1	842.7	845.4	852.7
32.5°	805.4	803.0	801.7	798.9	801.7	803.0	805.4	806.6	811.9	814.6	820.3
35°	759.1	759.8	756.4	757.8	756.4	759.8	759.1	760.4	761.1	763.7	769.1
37.5°	718.6	720.7	719.2	719.6	719.2	720.7	718.6	719.3	719.9	720.3	721.9
40°	692.1	692.1	692.1	694.1	692.1	692.1	692.1	690.1	690.8	690.1	690.1
42.5°	666.6	665.5	664.5	664.3	664.5	665.5	666.6	662.0	664.2	662.0	660.9
45°	623.1	625.1	625.7	622.4	625.7	625.1	623.1	621.7	619.8	619.1	618.4
47.5°	583.7	583.9	583.7	586.6	583.7	583.9	583.7	581.9	578.9	577.7	574.5
50°	556.1	554.7	556.1	554.7	556.1	554.7	556.1	552.7	550.7	547.4	544.8
52.5°	526.9	527.1	526.3	526.1	526.3	527.1	526.9	522.5	521.5	520.4	516.1
55°	481.1	482.4	481.7	481.7	481.7	482.4	481.1	478.4	477.8	473.8	469.8
57.5°	433.7	434.9	435.8	432.9	435.8	434.9	433.7	433.3	432.9	428.7	424.4
60°	400.8	404.1	403.4	402.1	403.4	404.1	400.8	401.4	399.5	396.8	394.1
62.5°	370.5	371.7	371.6	371.3	371.6	371.7	370.5	367.5	366.5	363.9	361.2
65°	323.8	325.1	323.1	325.1	323.1	325.1	323.8	321.8	317.2	315.8	313.2
67.5°	273.5	273.9	275.4	276.3	275.4	273.9	273.5	274.3	271.3	268.7	268.2
70°	242.2	241.5	243.5	245.5	243.5	241.5	242.2	240.9	238.9	236.9	234.2
72.5°	209.3	210.7	210.1	211.5	210.1	210.7	209.3	209.5	207.6	205.0	202.4
75°	161.2	163.2	162.6	164.6	162.6	163.2	161.2	162.6	161.2	158.6	155.9
77.5°	116.5	116.8	116.5	117.6	116.5	116.8	116.5	117.6	116.1	117.0	114.0
80°	88.9	87.6	86.3	88.9	86.3	87.6	88.9	88.9	86.9	88.9	86.9
82.5°	61.8	62.6	61.3	61.3	61.3	62.6	61.8	63.4	62.5	63.4	61.4
85°	28.5	27.9	26.5	26.5	26.5	27.9	28.5	28.5	30.5	29.2	29.2
87.5°	9.1	8.5	8.5	8.0	8.5	8.5	9.1	9.1	9.0	9.8	10.0
90°	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.2	17.1	18.2
92.5°	33.9	32.1	32.5	31.6	32.5	32.1	33.9	34.3	37.9	42.7	49.7
95°	70.7	66.2	64.4	65.0	64.4	66.2	70.7	78.1	90.7	114.6	149.4
97.5°	155.1	141.1	132.8	128.0	132.8	141.1	155.1	182.4	223.6	285.3	348.7
100°	255.5	231.0	214.4	204.2	214.4	231.0	255.5	302.8	371.8	450.0	520.7
102.5°	435.7	393.8	373.2	359.3	373.2	393.8	435.7	487.1	560.3	617.4	633.4
105°	710.6	675.2	650.7	642.7	650.7	675.2	710.6	745.9	764.8	757.3	692.9
107.5°	838.4	836.5	831.6	821.0	831.6	836.5	838.4	834.0	806.4	747.1	650.0
110°	859.4	870.3	875.4	874.8	875.4	870.3	859.4	834.9	788.1	715.1	613.1



TEST NUMBER: P331386

CATALOG NUMBER: S122DIP-S865D530U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	843.0	861.1	870.8	873.9	870.8	861.1	843.0	808.9	755.3	677.3	579.3
115°	799.5	825.8	840.6	845.7	840.6	825.8	799.5	759.1	700.3	625.6	537.8
117.5°	747.8	775.5	791.1	795.4	791.1	775.5	747.8	706.5	651.4	583.6	506.5
120°	714.0	740.8	757.3	763.0	757.3	740.8	714.0	674.1	622.2	561.7	491.0
122.5°	683.4	709.8	724.5	729.3	724.5	709.8	683.4	647.6	600.7	543.5	478.7
125°	645.6	667.2	681.5	686.1	681.5	667.2	645.6	612.5	569.7	519.5	460.8
127.5°	611.9	632.2	644.5	648.2	644.5	632.2	611.9	583.1	543.6	496.3	443.1
130°	591.4	610.8	622.2	626.7	622.2	610.8	591.4	563.4	525.8	480.8	431.7
132.5°	570.4	589.8	600.3	604.4	600.3	589.8	570.4	542.9	507.6	466.2	420.8
135°	537.2	556.0	566.3	568.6	566.3	556.0	537.2	512.7	480.8	443.1	405.5
137.5°	504.8	521.0	530.0	533.4	530.0	521.0	504.8	482.5	454.6	424.8	393.3
140°	482.5	497.3	505.8	509.3	505.8	497.3	482.5	464.2	439.1	412.9	385.5
142.5°	463.3	476.8	484.4	485.1	484.4	476.8	463.3	446.0	425.0	402.4	379.1
145°	436.8	446.5	452.2	453.9	452.2	446.5	436.8	423.2	406.6	388.9	370.1
147.5°	415.2	422.9	426.8	427.8	426.8	422.9	415.2	403.9	391.8	378.0	363.2
150°	401.5	408.3	411.7	412.3	411.7	408.3	401.5	392.9	382.7	370.7	358.1
152.5°	390.5	396.5	399.0	399.1	399.0	396.5	390.5	383.8	374.9	364.8	353.1
155°	376.4	380.4	382.7	381.5	382.7	380.4	376.4	370.1	363.8	355.3	346.2
157.5°	362.2	365.6	366.6	366.6	366.6	365.6	362.2	357.8	352.9	345.7	338.1
160°	353.6	356.4	357.0	357.0	357.0	356.4	353.6	349.6	345.6	339.3	333.0
162.5°	345.8	347.8	348.3	347.9	348.3	347.8	345.8	341.8	338.8	333.4	328.0
165°	333.0	335.3	335.3	334.8	335.3	335.3	333.0	330.8	328.5	324.5	320.5
167.5°	322.2	323.5	323.4	322.7	323.4	323.5	322.2	321.2	319.1	316.4	313.3
170°	315.4	317.1	316.5	315.4	316.5	317.1	315.4	314.8	313.7	311.4	309.7
172.5°	309.9	310.7	310.1	309.4	310.1	310.7	309.9	309.3	308.6	306.8	305.6
175°	302.8	303.4	302.8	301.7	302.8	303.4	302.8	302.8	302.3	301.7	301.1
177.5°	298.4	298.4	297.9	297.0	297.9	298.4	298.4	298.4	298.4	297.9	297.9
180°	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5



TEST NUMBER: P331386

CATALOG NUMBER: S122DIP-S865D530U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1659.1	1665.0	1674.0	1683.6	1689.4	1700.5	1703.7	1709.0	1713.8	1725.0	1736.6
5°	1563.3	1572.6	1594.5	1606.4	1623.0	1642.3	1654.9	1668.2	1682.8	1708.0	1731.2
7.5°	1460.6	1476.1	1503.3	1525.6	1549.2	1576.9	1596.8	1623.0	1644.8	1680.4	1714.3
10°	1392.1	1414.0	1438.6	1465.1	1498.3	1527.5	1555.4	1588.5	1615.1	1657.5	1697.4
12.5°	1330.5	1333.9	1369.0	1398.2	1443.6	1479.7	1511.8	1554.6	1580.6	1631.0	1672.9
15°	1222.9	1242.8	1274.7	1297.9	1351.6	1397.4	1442.6	1487.0	1516.9	1579.2	1634.3
17.5°	1132.3	1150.6	1183.2	1221.3	1259.9	1305.5	1363.9	1410.7	1451.3	1522.6	1587.7
20°	1074.9	1097.5	1130.7	1169.8	1203.7	1253.4	1303.9	1357.6	1401.4	1481.7	1558.0
22.5°	1026.1	1043.9	1070.7	1109.3	1146.3	1191.9	1247.1	1305.6	1351.5	1438.2	1515.5
25°	957.5	972.1	989.3	1021.2	1063.0	1112.8	1155.9	1220.3	1287.3	1368.2	1461.8
27.5°	895.7	906.0	921.3	949.3	981.7	1028.2	1076.1	1137.2	1204.6	1292.5	1391.2
30°	858.0	864.6	879.9	903.1	934.9	971.4	1019.9	1078.3	1147.3	1236.2	1334.4
32.5°	825.1	831.2	841.1	863.3	890.9	922.1	965.7	1024.1	1089.9	1177.3	1286.1
35°	775.7	780.3	789.0	806.9	822.1	852.7	889.2	942.2	1003.9	1087.6	1200.4
37.5°	726.5	732.8	738.1	745.7	765.3	785.4	817.1	861.9	922.5	1006.9	1114.4
40°	694.1	699.4	707.3	710.7	726.6	744.5	770.4	811.5	872.6	949.5	1054.4
42.5°	661.2	666.5	671.2	675.1	688.9	704.7	727.9	763.2	817.4	892.2	996.0
45°	616.4	617.1	621.7	629.0	635.7	647.0	663.5	694.1	735.9	806.2	900.4
47.5°	571.0	571.8	572.6	575.8	583.1	593.3	604.4	629.2	666.6	722.7	814.4
50°	540.8	539.5	540.8	543.4	548.1	556.7	569.3	587.2	617.8	670.2	754.5
52.5°	511.6	511.3	510.5	511.6	515.2	521.1	530.0	545.3	572.6	620.8	695.0
55°	467.1	463.8	464.5	461.8	467.8	469.1	475.8	488.4	512.3	545.4	615.1
57.5°	419.8	417.0	414.1	413.3	412.7	416.3	421.6	431.6	449.9	478.9	535.5
60°	389.5	386.2	382.2	380.9	380.9	382.9	385.5	392.8	410.1	436.0	482.4
62.5°	358.7	354.9	352.5	349.0	348.0	350.0	352.6	357.8	370.3	394.5	434.6
65°	311.2	306.6	303.2	302.6	301.3	299.3	300.6	305.9	315.8	335.1	366.9
67.5°	263.6	259.2	258.4	254.5	252.7	252.9	252.7	257.2	263.2	279.8	303.5
70°	232.2	228.9	227.6	224.3	223.0	221.6	220.3	224.3	230.3	244.2	264.8
72.5°	200.4	197.6	194.7	191.9	192.2	190.8	190.6	193.0	197.9	210.7	226.5
75°	154.6	155.3	152.0	148.6	148.0	146.6	146.6	148.6	150.6	160.6	173.2
77.5°	112.1	111.6	108.8	107.8	107.1	105.6	107.1	108.4	109.5	116.1	125.4
80°	85.6	85.6	82.3	82.3	81.6	79.6	81.6	80.3	82.9	89.6	96.2
82.5°	61.2	60.1	60.0	58.9	58.8	57.3	58.3	59.6	60.6	65.2	69.1
85°	29.9	29.9	29.2	28.5	29.2	28.5	29.2	29.9	30.5	32.5	35.8
87.5°	10.1	10.8	11.2	11.0	10.2	10.2	10.4	10.7	11.5	11.6	11.8
90°	18.8	19.4	18.8	15.4	11.4	8.6	6.8	5.7	4.6	2.3	0.6
92.5°	62.6	74.1	73.1	56.9	38.8	25.9	20.5	16.7	14.1	10.0	7.0
95°	195.6	223.6	197.9	131.7	82.1	55.9	42.2	33.1	27.9	22.2	20.0
97.5°	400.3	381.6	287.4	177.5	108.4	75.4	59.9	49.4	41.6	35.6	32.5
100°	532.6	450.5	310.2	187.1	117.5	87.3	71.3	59.9	50.8	45.6	43.9
102.5°	581.9	452.8	301.6	187.5	125.7	97.7	81.8	69.9	60.8	55.7	54.4
105°	574.3	422.6	284.6	190.5	139.7	112.9	96.9	84.4	75.8	71.9	69.6
107.5°	524.2	390.2	276.1	198.3	154.1	128.1	112.0	99.6	91.7	87.8	86.0
110°	492.7	374.7	274.3	204.7	163.7	138.6	122.0	110.1	102.7	99.2	96.9



TEST NUMBER: P331386

CATALOG NUMBER: S122DIP-S865D530U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	470.8	364.6	274.8	211.6	172.8	148.6	131.6	120.1	113.1	109.3	107.0
115°	443.7	353.6	277.2	221.8	187.1	162.5	147.1	135.7	128.9	125.5	122.6
117.5°	426.6	348.2	281.3	232.8	200.2	177.5	161.5	150.6	144.5	141.1	138.8
120°	417.5	345.0	284.0	240.1	209.3	187.1	171.1	159.7	154.5	151.1	148.8
122.5°	409.7	343.2	287.2	246.5	218.0	197.1	180.7	169.3	163.7	160.3	158.4
125°	398.6	339.9	292.0	256.6	231.0	210.4	194.5	183.1	176.2	172.8	171.1
127.5°	388.4	338.0	296.9	266.1	243.1	223.1	206.7	195.7	188.2	183.4	181.1
130°	381.5	337.0	300.5	272.0	250.4	230.4	214.4	203.0	195.0	189.3	187.1
132.5°	376.0	336.6	304.2	278.0	256.7	237.7	221.7	209.9	201.4	195.3	192.5
135°	368.4	335.9	308.5	285.7	265.8	247.5	231.5	218.4	209.9	203.0	200.7
137.5°	363.0	335.8	312.4	291.6	273.1	255.0	240.2	227.2	218.1	211.2	208.5
140°	359.9	335.3	314.2	294.8	277.2	260.1	245.2	232.7	223.6	216.7	214.4
142.5°	356.7	335.3	315.6	297.6	280.4	263.7	249.8	237.7	228.6	222.2	220.4
145°	352.4	334.2	317.1	301.1	285.1	269.7	257.2	245.8	237.2	231.5	229.3
147.5°	348.1	332.1	317.5	303.1	289.0	274.5	263.4	253.9	246.0	240.5	238.8
150°	344.5	330.8	317.1	304.0	290.8	277.7	267.5	258.9	251.5	246.9	245.2
152.5°	341.3	328.5	316.2	304.4	292.7	280.9	271.6	263.5	257.0	252.4	251.6
155°	335.3	324.5	314.8	305.1	295.4	285.7	277.2	270.9	264.6	261.2	260.6
157.5°	329.7	320.4	312.2	305.1	297.3	289.1	282.0	276.9	271.5	268.7	268.1
160°	325.6	317.7	310.8	305.1	298.3	291.4	285.1	280.6	276.0	273.7	273.2
162.5°	322.0	315.4	309.4	304.6	298.7	292.8	287.9	283.8	280.1	277.8	278.2
165°	315.9	310.8	306.8	303.4	299.4	294.3	290.8	288.0	284.6	283.4	284.0
167.5°	310.0	306.8	304.2	302.6	299.3	295.5	293.4	291.3	289.1	288.1	288.8
170°	306.8	304.5	302.8	301.7	298.8	296.0	294.3	293.1	291.4	290.8	292.0
172.5°	303.6	301.8	301.0	300.3	298.4	296.4	295.2	294.5	292.8	293.1	293.8
175°	299.4	298.8	298.3	298.8	297.7	296.5	296.0	296.0	294.8	295.4	296.0
177.5°	297.0	296.5	297.0	297.9	297.0	296.5	296.5	296.5	295.6	296.1	297.0
180°	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5



TEST NUMBER: P331386

CATALOG NUMBER: S122DIP-S865D530U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1735.6	1738.2	1746.7	1755.2	1764.8	1767.4	1771.7	1768.0	1766.9	1777.0	1784.4
5°	1740.5	1752.4	1775.7	1796.9	1814.8	1827.4	1840.7	1846.0	1855.9	1869.9	1887.1
7.5°	1734.9	1758.1	1794.6	1825.6	1859.3	1883.5	1902.5	1918.7	1938.4	1964.8	1993.6
10°	1728.5	1759.7	1804.2	1842.0	1883.1	1914.3	1940.2	1965.4	1994.6	2031.1	2068.9
12.5°	1716.9	1753.9	1809.5	1854.2	1907.0	1937.7	1972.6	2027.0	2058.3	2109.2	2162.4
15°	1693.4	1734.5	1812.1	1867.2	1926.9	1985.3	2049.7	2101.5	2153.2	2183.1	2258.1
17.5°	1658.5	1718.9	1804.8	1869.1	1945.0	2037.0	2109.3	2167.9	2227.7	2276.1	2313.7
20°	1630.3	1696.0	1794.2	1871.2	1961.4	2060.3	2143.3	2203.0	2254.7	2295.2	2318.4
22.5°	1594.8	1677.4	1773.0	1863.2	1978.4	2076.2	2163.4	2210.4	2253.7	2273.4	2282.3
25°	1538.8	1638.3	1746.5	1856.6	1986.7	2090.2	2169.8	2198.3	2210.9	2191.7	2159.8
27.5°	1478.4	1589.3	1715.8	1844.1	1981.6	2081.1	2138.2	2133.7	2112.3	2050.1	2000.3
30°	1433.3	1555.4	1691.4	1831.4	1969.4	2066.3	2099.5	2066.3	2017.8	1948.2	1877.2
32.5°	1386.0	1512.4	1665.4	1813.3	1947.1	2032.3	2039.5	1982.4	1907.4	1828.2	1739.7
35°	1314.5	1451.2	1616.4	1773.0	1899.7	1953.5	1921.6	1820.8	1731.9	1623.7	1502.9
37.5°	1233.7	1384.6	1550.3	1713.9	1828.7	1842.8	1763.7	1657.5	1532.1	1405.0	1262.9
40°	1173.2	1333.1	1503.6	1668.8	1770.3	1755.7	1654.9	1538.1	1388.8	1233.5	1101.5
42.5°	1119.0	1278.9	1452.6	1614.7	1696.0	1655.9	1538.1	1394.8	1234.3	1088.1	967.2
45°	1025.2	1189.7	1367.6	1524.2	1570.6	1498.3	1342.4	1183.1	1025.2	903.1	807.5
47.5°	934.1	1096.8	1272.9	1410.6	1427.0	1329.7	1159.3	995.5	859.7	760.3	692.9
50°	867.3	1030.5	1205.0	1327.8	1322.4	1205.0	1029.8	873.9	760.4	680.1	635.0
52.5°	807.3	961.5	1129.1	1240.7	1212.6	1084.5	917.3	778.9	685.6	622.8	581.9
55°	714.0	856.6	1015.9	1105.5	1053.7	911.7	770.4	658.9	589.9	542.8	510.9
57.5°	621.3	755.1	891.4	946.6	889.4	758.3	640.5	559.6	507.7	472.8	452.1
60°	564.0	680.8	802.2	850.0	781.7	664.9	572.0	499.7	457.8	429.3	410.7
62.5°	506.7	611.3	725.8	751.8	689.3	590.6	508.3	448.2	413.8	388.4	370.9
65°	428.7	514.2	601.2	618.4	560.7	484.4	419.4	380.2	349.7	331.1	317.2
67.5°	351.5	420.3	481.9	495.8	445.2	392.3	345.3	311.2	290.5	275.1	263.3
70°	305.9	360.3	410.7	422.0	381.5	334.4	298.6	271.4	252.8	239.5	228.3
72.5°	257.6	303.0	344.9	352.5	319.4	283.5	254.0	232.6	216.2	207.7	196.9
75°	197.1	223.6	256.1	258.1	236.2	214.3	191.8	177.8	169.2	158.6	153.3
77.5°	139.1	159.9	178.5	182.1	169.1	154.2	141.6	130.6	123.3	118.4	113.5
80°	106.2	122.8	130.7	135.4	126.1	115.5	108.2	100.9	96.2	92.9	89.6
82.5°	75.9	86.1	93.6	97.1	92.1	85.7	78.4	74.3	70.7	67.9	66.8
85°	38.5	43.1	47.8	49.1	47.8	45.1	41.1	41.1	39.1	38.5	38.5
87.5°	13.7	16.3	16.5	18.4	17.6	18.2	19.0	19.2	18.7	18.1	17.5
90°	2.3	4.6	5.7	6.8	8.6	11.4	15.4	18.8	19.4	18.8	18.2
92.5°	10.0	14.1	16.7	20.5	25.9	38.8	56.9	73.1	74.1	62.6	49.7
95°	22.2	27.9	33.1	42.2	55.9	82.1	131.7	197.9	223.6	195.6	149.4
97.5°	35.6	41.6	49.4	59.9	75.4	108.4	177.5	287.4	381.6	400.3	348.7
100°	45.6	50.8	59.9	71.3	87.3	117.5	187.1	310.2	450.5	532.6	520.7
102.5°	55.7	60.8	69.9	81.8	97.7	125.7	187.5	301.6	452.8	581.9	633.4
105°	71.9	75.8	84.4	96.9	112.9	139.7	190.5	284.6	422.6	574.3	692.9
107.5°	87.8	91.7	99.6	112.0	128.1	154.1	198.3	276.1	390.2	524.2	650.0
110°	99.2	102.7	110.1	122.0	138.6	163.7	204.7	274.3	374.7	492.7	613.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	109.3	113.1	120.1	131.6	148.6	172.8	211.6	274.8	364.6	470.8	579.3
115°	125.5	128.9	135.7	147.1	162.5	187.1	221.8	277.2	353.6	443.7	537.8
117.5°	141.1	144.5	150.6	161.5	177.5	200.2	232.8	281.3	348.2	426.6	506.5
120°	151.1	154.5	159.7	171.1	187.1	209.3	240.1	284.0	345.0	417.5	491.0
122.5°	160.3	163.7	169.3	180.7	197.1	218.0	246.5	287.2	343.2	409.7	478.7
125°	172.8	176.2	183.1	194.5	210.4	231.0	256.6	292.0	339.9	398.6	460.8
127.5°	183.4	188.2	195.7	206.7	223.1	243.1	266.1	296.9	338.0	388.4	443.1
130°	189.3	195.0	203.0	214.4	230.4	250.4	272.0	300.5	337.0	381.5	431.7
132.5°	195.3	201.4	209.9	221.7	237.7	256.7	278.0	304.2	336.6	376.0	420.8
135°	203.0	209.9	218.4	231.5	247.5	265.8	285.7	308.5	335.9	368.4	405.5
137.5°	211.2	218.1	227.2	240.2	255.0	273.1	291.6	312.4	335.8	363.0	393.3
140°	216.7	223.6	232.7	245.2	260.1	277.2	294.8	314.2	335.3	359.9	385.5
142.5°	222.2	228.6	237.7	249.8	263.7	280.4	297.6	315.6	335.3	356.7	379.1
145°	231.5	237.2	245.8	257.2	269.7	285.1	301.1	317.1	334.2	352.4	370.1
147.5°	240.5	246.0	253.9	263.4	274.5	289.0	303.1	317.5	332.1	348.1	363.2
150°	246.9	251.5	258.9	267.5	277.7	290.8	304.0	317.1	330.8	344.5	358.1
152.5°	252.4	257.0	263.5	271.6	280.9	292.7	304.4	316.2	328.5	341.3	353.1
155°	261.2	264.6	270.9	277.2	285.7	295.4	305.1	314.8	324.5	335.3	346.2
157.5°	268.7	271.5	276.9	282.0	289.1	297.3	305.1	312.2	320.4	329.7	338.1
160°	273.7	276.0	280.6	285.1	291.4	298.3	305.1	310.8	317.7	325.6	333.0
162.5°	277.8	280.1	283.8	287.9	292.8	298.7	304.6	309.4	315.4	322.0	328.0
165°	283.4	284.6	288.0	290.8	294.3	299.4	303.4	306.8	310.8	315.9	320.5
167.5°	288.1	289.1	291.3	293.4	295.5	299.3	302.6	304.2	306.8	310.0	313.3
170°	290.8	291.4	293.1	294.3	296.0	298.8	301.7	302.8	304.5	306.8	309.7
172.5°	293.1	292.8	294.5	295.2	296.4	298.4	300.3	301.0	301.8	303.6	305.6
175°	295.4	294.8	296.0	296.0	296.5	297.7	298.8	298.3	298.8	299.4	301.1
177.5°	296.1	295.6	296.5	296.5	296.5	297.0	297.9	297.0	296.5	297.0	297.9
180°	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1790.8	1798.2	1798.2	1799.3	1807.8	1806.7	1806.2
5°	1905.7	1917.0	1918.3	1930.3	1938.2	1935.6	1928.3
7.5°	2014.1	2035.1	2051.0	2059.9	2070.4	2076.9	2074.0
10°	2100.1	2130.6	2149.2	2161.8	2177.1	2188.4	2184.4
12.5°	2178.2	2214.5	2240.0	2261.6	2263.6	2278.1	2268.3
15°	2299.9	2338.3	2342.3	2358.2	2370.9	2369.5	2370.2
17.5°	2340.1	2352.4	2354.9	2355.3	2355.5	2350.8	2340.7
20°	2325.7	2321.1	2309.8	2301.2	2285.9	2283.9	2270.7
22.5°	2257.8	2243.1	2214.8	2196.1	2172.3	2166.1	2162.4
25°	2124.0	2091.5	2046.4	2003.2	1991.3	1968.1	1974.7
27.5°	1940.5	1889.8	1840.9	1805.9	1774.2	1739.4	1749.4
30°	1811.5	1754.4	1685.4	1632.3	1598.5	1565.3	1559.3
32.5°	1657.5	1573.9	1497.0	1450.2	1398.4	1377.4	1354.4
35°	1392.1	1310.5	1234.2	1168.5	1130.7	1101.5	1074.9
37.5°	1153.4	1059.4	997.8	944.6	917.3	900.6	904.8
40°	1005.3	923.0	877.9	837.4	812.2	800.2	802.9
42.5°	885.3	823.7	786.6	758.8	741.0	734.4	732.8
45°	749.1	714.6	684.1	668.2	659.6	652.3	647.6
47.5°	656.2	628.1	610.9	601.4	593.9	586.4	586.3
50°	600.5	581.9	570.0	560.0	554.1	548.8	553.4
52.5°	558.0	541.1	529.1	520.2	518.0	513.2	513.1
55°	495.0	481.7	473.1	465.1	461.2	458.5	455.2
57.5°	437.7	425.1	417.1	412.1	404.5	401.8	400.8
60°	396.8	386.8	378.9	372.2	368.9	363.6	363.6
62.5°	359.1	349.2	341.7	336.7	331.2	329.1	329.7
65°	304.6	296.6	289.3	284.0	282.7	278.7	280.0
67.5°	254.4	249.1	241.4	238.5	236.0	233.8	232.2
70°	221.0	215.7	211.7	207.7	205.7	205.7	205.7
72.5°	192.8	186.5	184.1	179.0	180.2	178.1	176.0
75°	149.3	145.3	143.3	141.3	138.0	138.0	138.0
77.5°	109.9	108.7	106.3	104.2	103.4	102.7	103.0
80°	84.9	84.3	82.9	82.9	81.6	81.0	79.6
82.5°	65.3	63.6	62.8	62.2	62.0	61.8	61.6
85°	37.2	35.8	35.8	36.5	35.2	35.2	35.8
87.5°	17.8	18.0	17.6	17.6	18.1	17.6	17.6
90°	17.1	18.2	18.8	18.8	18.8	18.8	18.8
92.5°	42.7	37.9	34.3	33.9	32.1	32.5	31.6
95°	114.6	90.7	78.1	70.7	66.2	64.4	65.0
97.5°	285.3	223.6	182.4	155.1	141.1	132.8	128.0
100°	450.0	371.8	302.8	255.5	231.0	214.4	204.2
102.5°	617.4	560.3	487.1	435.7	393.8	373.2	359.3
105°	757.3	764.8	745.9	710.6	675.2	650.7	642.7
107.5°	747.1	806.4	834.0	838.4	836.5	831.6	821.0
110°	715.1	788.1	834.9	859.4	870.3	875.4	874.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	677.3	755.3	808.9	843.0	861.1	870.8	873.9
115°	625.6	700.3	759.1	799.5	825.8	840.6	845.7
117.5°	583.6	651.4	706.5	747.8	775.5	791.1	795.4
120°	561.7	622.2	674.1	714.0	740.8	757.3	763.0
122.5°	543.5	600.7	647.6	683.4	709.8	724.5	729.3
125°	519.5	569.7	612.5	645.6	667.2	681.5	686.1
127.5°	496.3	543.6	583.1	611.9	632.2	644.5	648.2
130°	480.8	525.8	563.4	591.4	610.8	622.2	626.7
132.5°	466.2	507.6	542.9	570.4	589.8	600.3	604.4
135°	443.1	480.8	512.7	537.2	556.0	566.3	568.6
137.5°	424.8	454.6	482.5	504.8	521.0	530.0	533.4
140°	412.9	439.1	464.2	482.5	497.3	505.8	509.3
142.5°	402.4	425.0	446.0	463.3	476.8	484.4	485.1
145°	388.9	406.6	423.2	436.8	446.5	452.2	453.9
147.5°	378.0	391.8	403.9	415.2	422.9	426.8	427.8
150°	370.7	382.7	392.9	401.5	408.3	411.7	412.3
152.5°	364.8	374.9	383.8	390.5	396.5	399.0	399.1
155°	355.3	363.8	370.1	376.4	380.4	382.7	381.5
157.5°	345.7	352.9	357.8	362.2	365.6	366.6	366.6
160°	339.3	345.6	349.6	353.6	356.4	357.0	357.0
162.5°	333.4	338.8	341.8	345.8	347.8	348.3	347.9
165°	324.5	328.5	330.8	333.0	335.3	335.3	334.8
167.5°	316.4	319.1	321.2	322.2	323.5	323.4	322.7
170°	311.4	313.7	314.8	315.4	317.1	316.5	315.4
172.5°	306.8	308.6	309.3	309.9	310.7	310.1	309.4
175°	301.7	302.3	302.8	302.8	303.4	302.8	301.7
177.5°	297.9	298.4	298.4	298.4	298.4	297.9	297.0
180°	296.5	296.5	296.5	296.5	296.5	296.5	296.5

(END OF REPORT)