

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: P331375

Luminaire Tested: **S122DIP-S865D330U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331375  
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: S122DIP-S865D330U835-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 330 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5119.7 lumens  
Efficiency: N/A  
Efficacy: 117.7 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

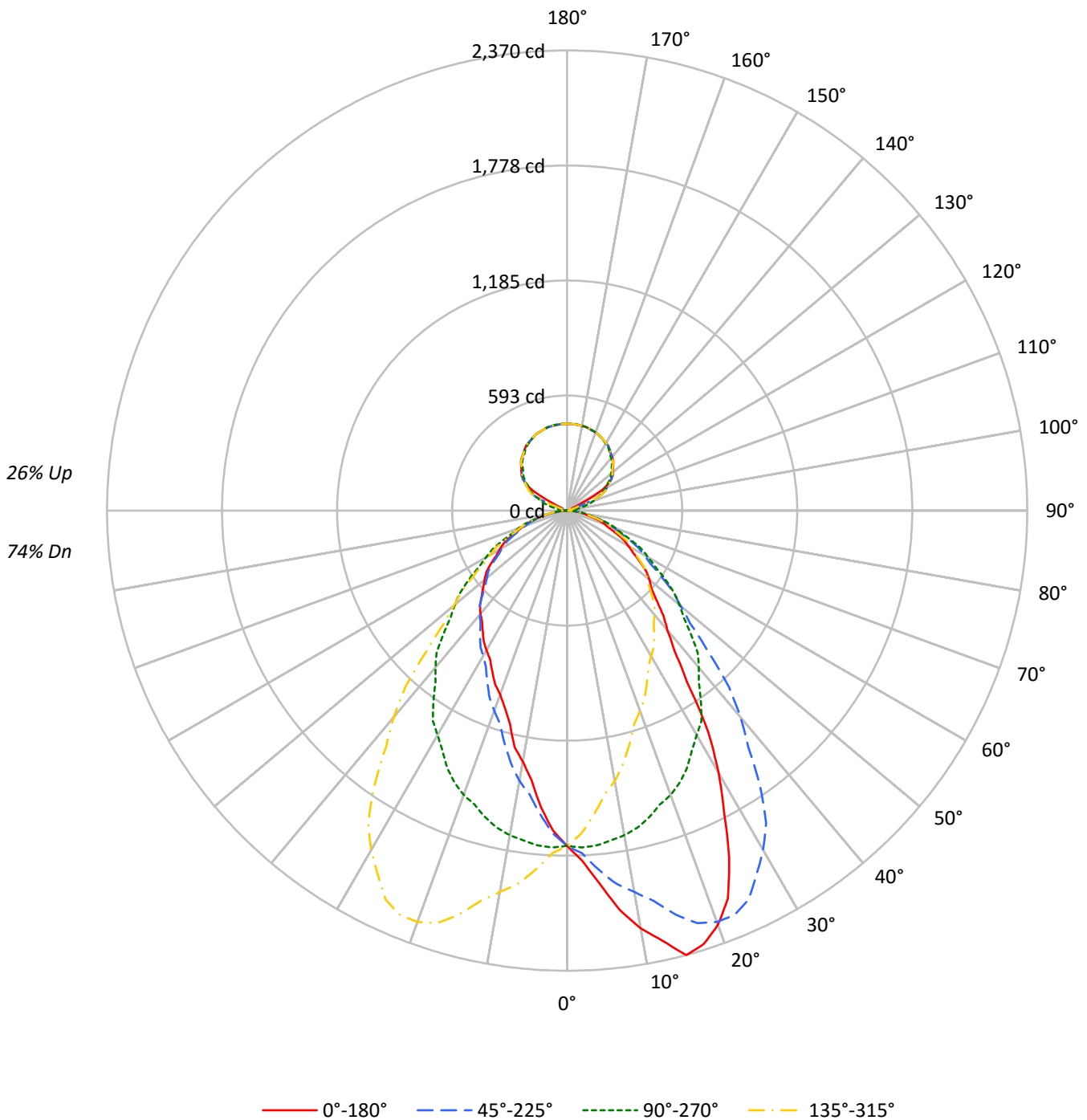
Input Watts (W): 43.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79	74
1	104	100	96	93	99	95	92	89	86	84	81	78	76	74	71	69	68	64
2	95	88	82	77	90	84	79	74	76	72	69	69	66	63	63	60	58	55
3	87	78	71	65	83	75	68	63	68	63	59	62	58	54	56	53	50	47
4	80	70	62	56	76	67	60	54	61	55	51	56	51	47	51	47	44	41
5	74	63	55	49	70	60	53	47	55	49	44	51	46	42	46	42	39	36
6	69	57	49	43	65	54	47	42	50	44	39	46	41	37	42	38	35	32
7	64	52	44	38	61	50	42	37	46	40	35	42	37	33	39	34	31	29
8	60	47	39	34	57	45	38	33	42	36	31	39	34	30	36	31	28	26
9	56	43	36	31	53	42	35	30	39	33	28	36	31	27	33	29	26	24
10	52	40	33	28	50	39	32	27	36	30	26	33	28	25	31	27	23	22

**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	3.2
10°-20°	478.0	9.3
20°-30°	693.8	13.6
30°-40°	732.1	14.3
40°-50°	648.2	12.7
50°-60°	517.3	10.1
60°-70°	351.6	6.9
70°-80°	180.3	3.5
80°-90°	44.6	0.9
90°-100°	14.9	0.3
100°-110°	54.7	1.1
110°-120°	146.1	2.9
120°-130°	241.2	4.7
130°-140°	256.5	5.0
140°-150°	238.4	4.7
150°-160°	191.7	3.7
160°-170°	123.5	2.4
170°-180°	42.5	0.8
0°-30°	1336.2	26.1
0°-40°	2068.3	40.4
0°-60°	3233.8	63.2
0°-90°	3810.2	74.4
90°-120°	215.7	4.2
90°-150°	951.8	18.6
90°-180°	1309.0	25.6
0°-180°	5119.7	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	39
90°	9	0	9	0	9	6
95°	14	21	14	21	14	13
105°	25	98	25	98	25	26
115°	26	186	26	186	26	66
125°	276	263	276	263	276	239
135°	336	325	336	325	336	259
145°	383	377	383	377	383	240
155°	416	416	416	416	416	192
165°	437	438	437	438	437	123
175°	445	448	445	448	445	42
180°	447	447	447	447	447	



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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°	15.5	15.5	16.0	15.5	15.4	15.9	15.8	15.2	15.7	16.2	16.6
90°	8.7	8.6	8.4	8.3	8.2	7.9	7.5	7.2	6.8	6.5	5.9
92.5°	8.7	8.6	8.6	8.5	8.4	8.2	8.1	7.9	7.7	7.5	7.2
95°	13.9	14.0	14.0	14.1	14.2	14.0	13.7	13.3	13.0	12.6	12.1
97.5°	18.6	18.5	18.4	18.3	18.2	18.0	17.7	17.5	17.2	16.9	15.7
100°	21.7	21.5	21.4	21.2	21.1	20.7	20.2	19.6	19.0	18.4	17.2
102.5°	23.2	23.0	22.8	22.6	22.4	21.9	21.2	20.4	19.7	18.9	29.2
105°	24.6	24.3	24.0	23.7	23.4	22.9	22.1	21.3	20.5	19.7	39.3
107.5°	25.3	25.0	24.7	24.4	24.1	24.4	25.2	26.0	26.8	27.6	51.1
110°	25.5	25.3	25.0	24.7	24.4	27.8	35.0	42.2	49.4	56.6	77.3



TEST NUMBER: P331375

CATALOG NUMBER: S122DIP-S865D330U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	25.8	25.6	25.3	25.1	24.9	37.9	64.1	90.3	116.5	142.7	147.8
115°	26.5	31.7	36.9	42.0	47.2	66.4	99.7	133.0	166.2	199.5	197.7
117.5°	108.3	125.3	142.3	159.3	176.3	188.8	196.8	204.9	212.9	221.0	219.7
120°	197.2	206.9	216.6	226.3	236.0	240.4	239.6	238.7	237.9	237.0	235.7
122.5°	246.1	248.0	249.9	251.8	253.6	254.3	253.8	253.3	252.8	252.3	250.9
125°	276.4	276.2	276.0	275.8	275.6	275.2	274.7	274.2	273.7	273.2	271.8
127.5°	295.6	295.5	295.5	295.5	295.4	295.0	294.3	293.6	292.8	292.1	291.1
130°	307.5	307.6	307.6	307.7	307.8	307.4	306.6	305.8	305.0	304.3	303.5
132.5°	319.1	319.2	319.3	319.3	319.4	319.1	318.4	317.8	317.1	316.4	315.6
135°	335.9	336.1	336.2	336.4	336.5	336.2	335.5	334.8	334.1	333.4	332.7
137.5°	351.3	351.5	351.8	352.0	352.2	352.0	351.3	350.6	349.9	349.2	348.5
140°	360.8	361.2	361.6	361.9	362.3	362.1	361.5	360.8	360.2	359.5	358.8
142.5°	370.1	370.5	370.9	371.2	371.6	371.5	370.9	370.3	369.7	369.1	368.2
145°	383.1	383.5	383.9	384.2	384.6	384.5	384.0	383.5	383.0	382.5	381.3
147.5°	394.6	394.9	395.2	395.5	395.8	395.8	395.4	395.0	394.6	394.3	393.1
150°	401.6	401.9	402.3	402.7	403.0	403.0	402.5	402.1	401.7	401.3	400.1
152.5°	407.5	408.0	408.5	408.9	409.4	409.4	409.0	408.6	408.1	407.7	406.6
155°	415.8	416.4	417.0	417.5	418.1	418.2	417.7	417.3	416.9	416.4	415.6
157.5°	423.4	423.9	424.5	425.0	425.6	425.6	425.2	424.7	424.2	423.7	423.1
160°	427.8	428.3	428.8	429.3	429.8	429.8	429.4	429.0	428.5	428.1	427.7
162.5°	431.4	432.0	432.6	433.2	433.9	433.9	433.4	432.9	432.5	432.0	431.6
165°	436.8	437.3	437.8	438.3	438.8	438.8	438.3	437.8	437.3	436.8	436.6
167.5°	440.2	440.9	441.5	442.2	442.8	442.9	442.4	441.9	441.4	440.9	440.7
170°	442.3	443.0	443.6	444.3	444.9	445.0	444.5	444.0	443.5	443.0	442.8
172.5°	443.9	444.5	445.2	445.8	446.5	446.5	446.0	445.5	445.0	444.5	444.4
175°	445.2	445.9	446.7	447.4	448.1	448.2	447.7	447.2	446.7	446.2	446.1
177.5°	446.1	446.6	447.1	447.6	448.1	448.2	447.8	447.4	447.0	446.6	446.5
180°	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8



TEST NUMBER: P331375

CATALOG NUMBER: S122DIP-S865D330U835-4F0-1E-UDD-A

**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°	17.0	16.9	16.8	17.7	15.9	15.8	13.5	11.7	11.4	11.0	10.1
90°	5.3	4.7	4.2	3.5	2.7	1.9	1.1	0.3	1.1	1.9	2.7
92.5°	6.9	6.6	6.4	6.2	6.3	6.4	6.5	6.5	6.5	6.4	6.3
95°	11.6	11.1	10.6	11.5	13.9	16.3	18.6	21.0	18.6	16.3	13.9
97.5°	14.5	13.4	12.2	15.0	21.7	28.3	35.0	41.7	35.0	28.3	21.7
100°	16.0	14.8	13.5	17.9	27.7	37.5	47.4	57.2	47.4	37.5	27.7
102.5°	39.4	49.6	59.8	66.0	68.1	70.1	72.2	74.3	72.2	70.1	68.1
105°	59.0	78.6	98.2	106.9	104.8	102.6	100.4	98.3	100.4	102.6	104.8
107.5°	74.7	98.2	121.7	132.6	130.9	129.1	127.4	125.6	127.4	129.1	130.9
110°	98.1	118.9	139.6	149.3	147.8	146.3	144.7	143.2	144.7	146.3	147.8





TEST NUMBER: P331375

CATALOG NUMBER: S122DIP-S865D330U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	153.0	158.1	163.2	165.1	163.8	162.5	161.1	159.8	161.1	162.5	163.8
115°	195.9	194.1	192.3	190.8	189.6	188.4	187.1	185.9	187.1	188.4	189.6
117.5°	218.5	217.3	216.0	214.7	213.4	212.0	210.6	209.3	210.6	212.0	213.4
120°	234.4	233.1	231.8	230.6	229.6	228.5	227.4	226.3	227.4	228.5	229.6
122.5°	249.4	248.0	246.6	245.4	244.2	243.1	242.0	240.8	242.0	243.1	244.2
125°	270.5	269.1	267.8	266.6	265.7	264.7	263.8	262.9	263.8	264.7	265.7
127.5°	290.1	289.0	288.0	287.0	286.0	284.9	283.9	282.8	283.9	284.9	286.0
130°	302.7	301.9	301.1	300.1	299.0	297.8	296.7	295.5	296.7	297.8	299.0
132.5°	314.8	314.0	313.2	312.4	311.4	310.4	309.4	308.5	309.4	310.4	311.4
135°	332.1	331.4	330.8	329.9	328.7	327.6	326.4	325.3	326.4	327.6	328.7
137.5°	347.7	347.0	346.3	345.5	344.7	343.9	343.1	342.3	343.1	343.9	344.7
140°	358.0	357.2	356.4	355.7	355.1	354.5	354.0	353.4	354.0	354.5	355.1
142.5°	367.3	366.4	365.5	364.8	364.3	363.7	363.2	362.7	363.2	363.7	364.3
145°	380.1	378.8	377.6	377.0	377.1	377.2	377.3	377.3	377.3	377.2	377.1
147.5°	391.9	390.6	389.4	389.0	389.2	389.5	389.8	390.1	389.8	389.5	389.2
150°	399.0	397.8	396.7	396.3	396.8	397.3	397.8	398.3	397.8	397.3	396.8
152.5°	405.5	404.4	403.3	403.1	403.6	404.2	404.8	405.3	404.8	404.2	403.6
155°	414.7	413.9	413.0	412.9	413.5	414.2	414.8	415.5	414.8	414.2	413.5
157.5°	422.5	421.9	421.3	421.2	421.8	422.3	422.9	423.4	422.9	422.3	421.8
160°	427.2	426.8	426.4	426.4	426.8	427.2	427.7	428.1	427.7	427.2	426.8
162.5°	431.2	430.8	430.5	430.5	430.9	431.4	431.8	432.2	431.8	431.4	430.9
165°	436.4	436.2	436.0	436.1	436.5	436.9	437.4	437.8	437.4	436.9	436.5
167.5°	440.5	440.3	440.1	440.2	440.6	441.1	441.5	441.9	441.5	441.1	440.6
170°	442.7	442.5	442.4	442.5	443.0	443.4	443.8	444.3	443.8	443.4	443.0
172.5°	444.2	444.1	443.9	444.1	444.5	444.9	445.4	445.8	445.4	444.9	444.5
175°	445.9	445.8	445.6	445.8	446.3	446.8	447.3	447.8	447.3	446.8	446.3
177.5°	446.5	446.4	446.4	446.5	446.9	447.3	447.7	448.1	447.7	447.3	446.9
180°	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8



TEST NUMBER: P331375

CATALOG NUMBER: S122DIP-S865D330U835-4F0-1E-UDD-A

**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°	9.7	9.3	8.9	9.0	8.6	8.2	7.7	7.8	7.9	6.9	6.9
90°	3.5	4.2	4.7	5.3	5.9	6.5	6.8	7.2	7.5	7.9	8.2
92.5°	6.2	6.4	6.6	6.9	7.2	7.5	7.7	7.9	8.1	8.2	8.4
95°	11.5	10.6	11.1	11.6	12.1	12.6	13.0	13.3	13.7	14.0	14.2
97.5°	15.0	12.2	13.4	14.5	15.7	16.9	17.2	17.5	17.7	18.0	18.2
100°	17.9	13.5	14.8	16.0	17.2	18.4	19.0	19.6	20.2	20.7	21.1
102.5°	66.0	59.8	49.6	39.4	29.2	18.9	19.7	20.4	21.2	21.9	22.4
105°	106.9	98.2	78.6	59.0	39.3	19.7	20.5	21.3	22.1	22.9	23.4
107.5°	132.6	121.7	98.2	74.7	51.1	27.6	26.8	26.0	25.2	24.4	24.1
110°	149.3	139.6	118.9	98.1	77.3	56.6	49.4	42.2	35.0	27.8	24.4



TEST NUMBER: P331375

CATALOG NUMBER: S122DIP-S865D330U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	165.1	163.2	158.1	153.0	147.8	142.7	116.5	90.3	64.1	37.9	24.9
115°	190.8	192.3	194.1	195.9	197.7	199.5	166.2	133.0	99.7	66.4	47.2
117.5°	214.7	216.0	217.3	218.5	219.7	221.0	212.9	204.9	196.8	188.8	176.3
120°	230.6	231.8	233.1	234.4	235.7	237.0	237.9	238.7	239.6	240.4	236.0
122.5°	245.4	246.6	248.0	249.4	250.9	252.3	252.8	253.3	253.8	254.3	253.6
125°	266.6	267.8	269.1	270.5	271.8	273.2	273.7	274.2	274.7	275.2	275.6
127.5°	287.0	288.0	289.0	290.1	291.1	292.1	292.8	293.6	294.3	295.0	295.4
130°	300.1	301.1	301.9	302.7	303.5	304.3	305.0	305.8	306.6	307.4	307.8
132.5°	312.4	313.2	314.0	314.8	315.6	316.4	317.1	317.8	318.4	319.1	319.4
135°	329.9	330.8	331.4	332.1	332.7	333.4	334.1	334.8	335.5	336.2	336.5
137.5°	345.5	346.3	347.0	347.7	348.5	349.2	349.9	350.6	351.3	352.0	352.2
140°	355.7	356.4	357.2	358.0	358.8	359.5	360.2	360.8	361.5	362.1	362.3
142.5°	364.8	365.5	366.4	367.3	368.2	369.1	369.7	370.3	370.9	371.5	371.6
145°	377.0	377.6	378.8	380.1	381.3	382.5	383.0	383.5	384.0	384.5	384.6
147.5°	389.0	389.4	390.6	391.9	393.1	394.3	394.6	395.0	395.4	395.8	395.8
150°	396.3	396.7	397.8	399.0	400.1	401.3	401.7	402.1	402.5	403.0	403.0
152.5°	403.1	403.3	404.4	405.5	406.6	407.7	408.1	408.6	409.0	409.4	409.4
155°	412.9	413.0	413.9	414.7	415.6	416.4	416.9	417.3	417.7	418.2	418.1
157.5°	421.2	421.3	421.9	422.5	423.1	423.7	424.2	424.7	425.2	425.6	425.6
160°	426.4	426.4	426.8	427.2	427.7	428.1	428.5	429.0	429.4	429.8	429.8
162.5°	430.5	430.5	430.8	431.2	431.6	432.0	432.5	432.9	433.4	433.9	433.9
165°	436.1	436.0	436.2	436.4	436.6	436.8	437.3	437.8	438.3	438.8	438.8
167.5°	440.2	440.1	440.3	440.5	440.7	440.9	441.4	441.9	442.4	442.9	442.8
170°	442.5	442.4	442.5	442.7	442.8	443.0	443.5	444.0	444.5	445.0	444.9
172.5°	444.1	443.9	444.1	444.2	444.4	444.5	445.0	445.5	446.0	446.5	446.5
175°	445.8	445.6	445.8	445.9	446.1	446.2	446.7	447.2	447.7	448.2	448.1
177.5°	446.5	446.4	446.4	446.5	446.5	446.6	447.0	447.4	447.8	448.2	448.1
180°	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8



TEST NUMBER: P331375

CATALOG NUMBER: S122DIP-S865D330U835-4F0-1E-UDD-A

**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°	7.0	6.5	6.5	6.0	6.5	6.5	7.0	6.9	6.9	7.9	7.8
90°	8.3	8.4	8.6	8.7	8.6	8.4	8.3	8.2	7.9	7.5	7.2
92.5°	8.5	8.6	8.6	8.7	8.6	8.6	8.5	8.4	8.2	8.1	7.9
95°	14.1	14.0	14.0	13.9	14.0	14.0	14.1	14.2	14.0	13.7	13.3
97.5°	18.3	18.4	18.5	18.6	18.5	18.4	18.3	18.2	18.0	17.7	17.5
100°	21.2	21.4	21.5	21.7	21.5	21.4	21.2	21.1	20.7	20.2	19.6
102.5°	22.6	22.8	23.0	23.2	23.0	22.8	22.6	22.4	21.9	21.2	20.4
105°	23.7	24.0	24.3	24.6	24.3	24.0	23.7	23.4	22.9	22.1	21.3
107.5°	24.4	24.7	25.0	25.3	25.0	24.7	24.4	24.1	24.4	25.2	26.0
110°	24.7	25.0	25.3	25.5	25.3	25.0	24.7	24.4	27.8	35.0	42.2



TEST NUMBER: P331375

CATALOG NUMBER: S122DIP-S865D330U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	25.1	25.3	25.6	25.8	25.6	25.3	25.1	24.9	37.9	64.1	90.3
115°	42.0	36.9	31.7	26.5	31.7	36.9	42.0	47.2	66.4	99.7	133.0
117.5°	159.3	142.3	125.3	108.3	125.3	142.3	159.3	176.3	188.8	196.8	204.9
120°	226.3	216.6	206.9	197.2	206.9	216.6	226.3	236.0	240.4	239.6	238.7
122.5°	251.8	249.9	248.0	246.1	248.0	249.9	251.8	253.6	254.3	253.8	253.3
125°	275.8	276.0	276.2	276.4	276.2	276.0	275.8	275.6	275.2	274.7	274.2
127.5°	295.5	295.5	295.5	295.6	295.5	295.5	295.5	295.4	295.0	294.3	293.6
130°	307.7	307.6	307.6	307.5	307.6	307.6	307.7	307.8	307.4	306.6	305.8
132.5°	319.3	319.3	319.2	319.1	319.2	319.3	319.3	319.4	319.1	318.4	317.8
135°	336.4	336.2	336.1	335.9	336.1	336.2	336.4	336.5	336.2	335.5	334.8
137.5°	352.0	351.8	351.5	351.3	351.5	351.8	352.0	352.2	352.0	351.3	350.6
140°	361.9	361.6	361.2	360.8	361.2	361.6	361.9	362.3	362.1	361.5	360.8
142.5°	371.2	370.9	370.5	370.1	370.5	370.9	371.2	371.6	371.5	370.9	370.3
145°	384.2	383.9	383.5	383.1	383.5	383.9	384.2	384.6	384.5	384.0	383.5
147.5°	395.5	395.2	394.9	394.6	394.9	395.2	395.5	395.8	395.8	395.4	395.0
150°	402.7	402.3	401.9	401.6	401.9	402.3	402.7	403.0	403.0	402.5	402.1
152.5°	408.9	408.5	408.0	407.5	408.0	408.5	408.9	409.4	409.4	409.0	408.6
155°	417.5	417.0	416.4	415.8	416.4	417.0	417.5	418.1	418.2	417.7	417.3
157.5°	425.0	424.5	423.9	423.4	423.9	424.5	425.0	425.6	425.6	425.2	424.7
160°	429.3	428.8	428.3	427.8	428.3	428.8	429.3	429.8	429.8	429.4	429.0
162.5°	433.2	432.6	432.0	431.4	432.0	432.6	433.2	433.9	433.9	433.4	432.9
165°	438.3	437.8	437.3	436.8	437.3	437.8	438.3	438.8	438.8	438.3	437.8
167.5°	442.2	441.5	440.9	440.2	440.9	441.5	442.2	442.8	442.9	442.4	441.9
170°	444.3	443.6	443.0	442.3	443.0	443.6	444.3	444.9	445.0	444.5	444.0
172.5°	445.8	445.2	444.5	443.9	444.5	445.2	445.8	446.5	446.5	446.0	445.5
175°	447.4	446.7	445.9	445.2	445.9	446.7	447.4	448.1	448.2	447.7	447.2
177.5°	447.6	447.1	446.6	446.1	446.6	447.1	447.6	448.1	448.2	447.8	447.4
180°	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8



TEST NUMBER: P331375

CATALOG NUMBER: S122DIP-S865D330U835-4F0-1E-UDD-A

**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°	7.7	8.2	8.6	9.0	8.9	9.3	9.7	10.1	11.0	11.4	11.7
90°	6.8	6.5	5.9	5.3	4.7	4.2	3.5	2.7	1.9	1.1	0.3
92.5°	7.7	7.5	7.2	6.9	6.6	6.4	6.2	6.3	6.4	6.5	6.5
95°	13.0	12.6	12.1	11.6	11.1	10.6	11.5	13.9	16.3	18.6	21.0
97.5°	17.2	16.9	15.7	14.5	13.4	12.2	15.0	21.7	28.3	35.0	41.7
100°	19.0	18.4	17.2	16.0	14.8	13.5	17.9	27.7	37.5	47.4	57.2
102.5°	19.7	18.9	29.2	39.4	49.6	59.8	66.0	68.1	70.1	72.2	74.3
105°	20.5	19.7	39.3	59.0	78.6	98.2	106.9	104.8	102.6	100.4	98.3
107.5°	26.8	27.6	51.1	74.7	98.2	121.7	132.6	130.9	129.1	127.4	125.6
110°	49.4	56.6	77.3	98.1	118.9	139.6	149.3	147.8	146.3	144.7	143.2



TEST NUMBER: P331375

CATALOG NUMBER: S122DIP-S865D330U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	116.5	142.7	147.8	153.0	158.1	163.2	165.1	163.8	162.5	161.1	159.8
115°	166.2	199.5	197.7	195.9	194.1	192.3	190.8	189.6	188.4	187.1	185.9
117.5°	212.9	221.0	219.7	218.5	217.3	216.0	214.7	213.4	212.0	210.6	209.3
120°	237.9	237.0	235.7	234.4	233.1	231.8	230.6	229.6	228.5	227.4	226.3
122.5°	252.8	252.3	250.9	249.4	248.0	246.6	245.4	244.2	243.1	242.0	240.8
125°	273.7	273.2	271.8	270.5	269.1	267.8	266.6	265.7	264.7	263.8	262.9
127.5°	292.8	292.1	291.1	290.1	289.0	288.0	287.0	286.0	284.9	283.9	282.8
130°	305.0	304.3	303.5	302.7	301.9	301.1	300.1	299.0	297.8	296.7	295.5
132.5°	317.1	316.4	315.6	314.8	314.0	313.2	312.4	311.4	310.4	309.4	308.5
135°	334.1	333.4	332.7	332.1	331.4	330.8	329.9	328.7	327.6	326.4	325.3
137.5°	349.9	349.2	348.5	347.7	347.0	346.3	345.5	344.7	343.9	343.1	342.3
140°	360.2	359.5	358.8	358.0	357.2	356.4	355.7	355.1	354.5	354.0	353.4
142.5°	369.7	369.1	368.2	367.3	366.4	365.5	364.8	364.3	363.7	363.2	362.7
145°	383.0	382.5	381.3	380.1	378.8	377.6	377.0	377.1	377.2	377.3	377.3
147.5°	394.6	394.3	393.1	391.9	390.6	389.4	389.0	389.2	389.5	389.8	390.1
150°	401.7	401.3	400.1	399.0	397.8	396.7	396.3	396.8	397.3	397.8	398.3
152.5°	408.1	407.7	406.6	405.5	404.4	403.3	403.1	403.6	404.2	404.8	405.3
155°	416.9	416.4	415.6	414.7	413.9	413.0	412.9	413.5	414.2	414.8	415.5
157.5°	424.2	423.7	423.1	422.5	421.9	421.3	421.2	421.8	422.3	422.9	423.4
160°	428.5	428.1	427.7	427.2	426.8	426.4	426.4	426.8	427.2	427.7	428.1
162.5°	432.5	432.0	431.6	431.2	430.8	430.5	430.5	430.9	431.4	431.8	432.2
165°	437.3	436.8	436.6	436.4	436.2	436.0	436.1	436.5	436.9	437.4	437.8
167.5°	441.4	440.9	440.7	440.5	440.3	440.1	440.2	440.6	441.1	441.5	441.9
170°	443.5	443.0	442.8	442.7	442.5	442.4	442.5	443.0	443.4	443.8	444.3
172.5°	445.0	444.5	444.4	444.2	444.1	443.9	444.1	444.5	444.9	445.4	445.8
175°	446.7	446.2	446.1	445.9	445.8	445.6	445.8	446.3	446.8	447.3	447.8
177.5°	447.0	446.6	446.5	446.5	446.4	446.4	446.5	446.9	447.3	447.7	448.1
180°	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8



TEST NUMBER: P331375

CATALOG NUMBER: S122DIP-S865D330U835-4F0-1E-UDD-A

**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°	13.5	15.8	15.9	17.7	16.8	16.9	17.0	16.6	16.2	15.7	15.2
90°	1.1	1.9	2.7	3.5	4.2	4.7	5.3	5.9	6.5	6.8	7.2
92.5°	6.5	6.4	6.3	6.2	6.4	6.6	6.9	7.2	7.5	7.7	7.9
95°	18.6	16.3	13.9	11.5	10.6	11.1	11.6	12.1	12.6	13.0	13.3
97.5°	35.0	28.3	21.7	15.0	12.2	13.4	14.5	15.7	16.9	17.2	17.5
100°	47.4	37.5	27.7	17.9	13.5	14.8	16.0	17.2	18.4	19.0	19.6
102.5°	72.2	70.1	68.1	66.0	59.8	49.6	39.4	29.2	18.9	19.7	20.4
105°	100.4	102.6	104.8	106.9	98.2	78.6	59.0	39.3	19.7	20.5	21.3
107.5°	127.4	129.1	130.9	132.6	121.7	98.2	74.7	51.1	27.6	26.8	26.0
110°	144.7	146.3	147.8	149.3	139.6	118.9	98.1	77.3	56.6	49.4	42.2





TEST NUMBER: P331375

CATALOG NUMBER: S122DIP-S865D330U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	161.1	162.5	163.8	165.1	163.2	158.1	153.0	147.8	142.7	116.5	90.3
115°	187.1	188.4	189.6	190.8	192.3	194.1	195.9	197.7	199.5	166.2	133.0
117.5°	210.6	212.0	213.4	214.7	216.0	217.3	218.5	219.7	221.0	212.9	204.9
120°	227.4	228.5	229.6	230.6	231.8	233.1	234.4	235.7	237.0	237.9	238.7
122.5°	242.0	243.1	244.2	245.4	246.6	248.0	249.4	250.9	252.3	252.8	253.3
125°	263.8	264.7	265.7	266.6	267.8	269.1	270.5	271.8	273.2	273.7	274.2
127.5°	283.9	284.9	286.0	287.0	288.0	289.0	290.1	291.1	292.1	292.8	293.6
130°	296.7	297.8	299.0	300.1	301.1	301.9	302.7	303.5	304.3	305.0	305.8
132.5°	309.4	310.4	311.4	312.4	313.2	314.0	314.8	315.6	316.4	317.1	317.8
135°	326.4	327.6	328.7	329.9	330.8	331.4	332.1	332.7	333.4	334.1	334.8
137.5°	343.1	343.9	344.7	345.5	346.3	347.0	347.7	348.5	349.2	349.9	350.6
140°	354.0	354.5	355.1	355.7	356.4	357.2	358.0	358.8	359.5	360.2	360.8
142.5°	363.2	363.7	364.3	364.8	365.5	366.4	367.3	368.2	369.1	369.7	370.3
145°	377.3	377.2	377.1	377.0	377.6	378.8	380.1	381.3	382.5	383.0	383.5
147.5°	389.8	389.5	389.2	389.0	389.4	390.6	391.9	393.1	394.3	394.6	395.0
150°	397.8	397.3	396.8	396.3	396.7	397.8	399.0	400.1	401.3	401.7	402.1
152.5°	404.8	404.2	403.6	403.1	403.3	404.4	405.5	406.6	407.7	408.1	408.6
155°	414.8	414.2	413.5	412.9	413.0	413.9	414.7	415.6	416.4	416.9	417.3
157.5°	422.9	422.3	421.8	421.2	421.3	421.9	422.5	423.1	423.7	424.2	424.7
160°	427.7	427.2	426.8	426.4	426.4	426.8	427.2	427.7	428.1	428.5	429.0
162.5°	431.8	431.4	430.9	430.5	430.5	430.8	431.2	431.6	432.0	432.5	432.9
165°	437.4	436.9	436.5	436.1	436.0	436.2	436.4	436.6	436.8	437.3	437.8
167.5°	441.5	441.1	440.6	440.2	440.1	440.3	440.5	440.7	440.9	441.4	441.9
170°	443.8	443.4	443.0	442.5	442.4	442.5	442.7	442.8	443.0	443.5	444.0
172.5°	445.4	444.9	444.5	444.1	443.9	444.1	444.2	444.4	444.5	445.0	445.5
175°	447.3	446.8	446.3	445.8	445.6	445.8	445.9	446.1	446.2	446.7	447.2
177.5°	447.7	447.3	446.9	446.5	446.4	446.4	446.5	446.5	446.6	447.0	447.4
180°	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8



TEST NUMBER: P331375

CATALOG NUMBER: S122DIP-S865D330U835-4F0-1E-UDD-A

**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°	15.8	15.9	15.4	15.5	16.0	15.5	15.5
90°	7.5	7.9	8.2	8.3	8.4	8.6	8.7
92.5°	8.1	8.2	8.4	8.5	8.6	8.6	8.7
95°	13.7	14.0	14.2	14.1	14.0	14.0	13.9
97.5°	17.7	18.0	18.2	18.3	18.4	18.5	18.6
100°	20.2	20.7	21.1	21.2	21.4	21.5	21.7
102.5°	21.2	21.9	22.4	22.6	22.8	23.0	23.2
105°	22.1	22.9	23.4	23.7	24.0	24.3	24.6
107.5°	25.2	24.4	24.1	24.4	24.7	25.0	25.3
110°	35.0	27.8	24.4	24.7	25.0	25.3	25.5



TEST NUMBER: P331375

CATALOG NUMBER: S122DIP-S865D330U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	64.1	37.9	24.9	25.1	25.3	25.6	25.8
115°	99.7	66.4	47.2	42.0	36.9	31.7	26.5
117.5°	196.8	188.8	176.3	159.3	142.3	125.3	108.3
120°	239.6	240.4	236.0	226.3	216.6	206.9	197.2
122.5°	253.8	254.3	253.6	251.8	249.9	248.0	246.1
125°	274.7	275.2	275.6	275.8	276.0	276.2	276.4
127.5°	294.3	295.0	295.4	295.5	295.5	295.5	295.6
130°	306.6	307.4	307.8	307.7	307.6	307.6	307.5
132.5°	318.4	319.1	319.4	319.3	319.3	319.2	319.1
135°	335.5	336.2	336.5	336.4	336.2	336.1	335.9
137.5°	351.3	352.0	352.2	352.0	351.8	351.5	351.3
140°	361.5	362.1	362.3	361.9	361.6	361.2	360.8
142.5°	370.9	371.5	371.6	371.2	370.9	370.5	370.1
145°	384.0	384.5	384.6	384.2	383.9	383.5	383.1
147.5°	395.4	395.8	395.8	395.5	395.2	394.9	394.6
150°	402.5	403.0	403.0	402.7	402.3	401.9	401.6
152.5°	409.0	409.4	409.4	408.9	408.5	408.0	407.5
155°	417.7	418.2	418.1	417.5	417.0	416.4	415.8
157.5°	425.2	425.6	425.6	425.0	424.5	423.9	423.4
160°	429.4	429.8	429.8	429.3	428.8	428.3	427.8
162.5°	433.4	433.9	433.9	433.2	432.6	432.0	431.4
165°	438.3	438.8	438.8	438.3	437.8	437.3	436.8
167.5°	442.4	442.9	442.8	442.2	441.5	440.9	440.2
170°	444.5	445.0	444.9	444.3	443.6	443.0	442.3
172.5°	446.0	446.5	446.5	445.8	445.2	444.5	443.9
175°	447.7	448.2	448.1	447.4	446.7	445.9	445.2
177.5°	447.8	448.2	448.1	447.6	447.1	446.6	446.1
180°	446.8	446.8	446.8	446.8	446.8	446.8	446.8

(END OF REPORT)