

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: P331556

Luminaire Tested: **S122DIW-S865D435U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331556
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIW-S865D435U835-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 435 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5312.4 lumens
Efficiency: N/A
Efficacy: 115.0 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

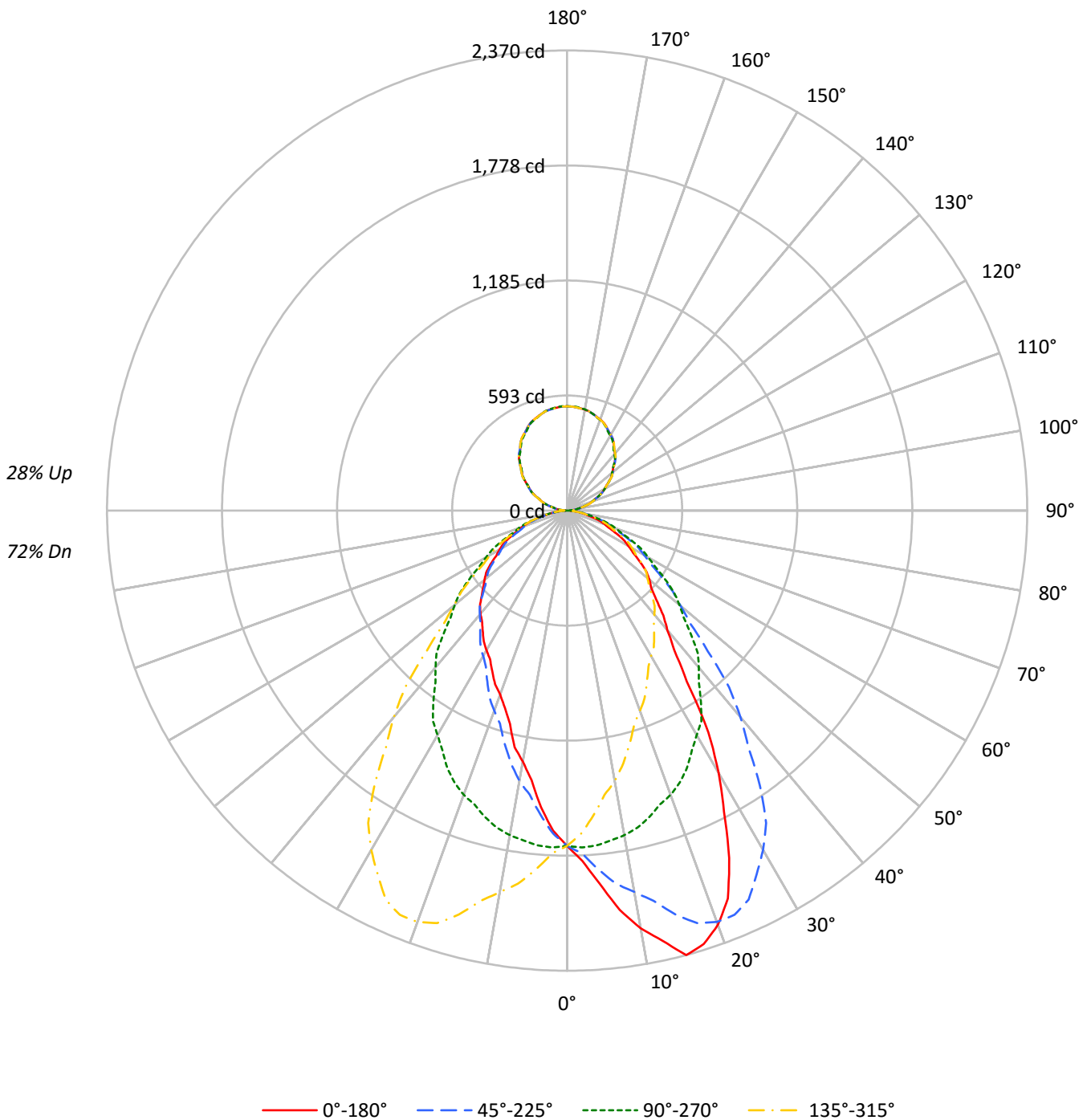
Input Watts (W): 46.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																		
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	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	72																												
1	103	99	95	92	98	94	91	88	85	82	80	76	74	73	68	67	66	62																												
2	95	87	81	76	90	83	78	73	75	71	67	68	65	62	61	59	56	53																												
3	87	78	70	64	82	74	67	62	67	62	58	61	57	53	55	52	49	46																												
4	80	69	61	55	76	66	59	53	60	54	50	55	50	46	49	46	43	40																												
5	74	62	54	48	70	59	52	47	54	48	44	49	44	41	45	41	38	35																												
6	68	56	48	42	65	54	46	41	49	43	38	45	40	36	41	37	34	31																												
7	63	51	43	38	60	49	42	36	45	39	34	41	36	32	38	33	30	28																												
8	59	47	39	34	56	45	38	33	41	35	31	38	33	29	35	30	27	25																												
9	55	43	35	30	52	41	34	29	38	32	28	35	30	26	32	28	25	23																												
10	52	40	32	27	49	38	31	27	35	29	25	33	28	24	30	26	23	21																												

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	3.1
10°-20°	478.0	9.0
20°-30°	693.8	13.1
30°-40°	732.1	13.8
40°-50°	648.2	12.2
50°-60°	517.3	9.7
60°-70°	351.6	6.6
70°-80°	180.3	3.4
80°-90°	45.6	0.9
90°-100°	34.0	0.6
100°-110°	105.7	2.0
110°-120°	180.6	3.4
120°-130°	237.5	4.5
130°-140°	266.6	5.0
140°-150°	261.4	4.9
150°-160°	219.2	4.1
160°-170°	145.4	2.7
170°-180°	50.8	1.0
0°-30°	1336.2	25.2
0°-40°	2068.3	38.9
0°-60°	3233.8	60.9
0°-90°	3811.3	71.7
90°-120°	320.3	6.0
90°-150°	1085.7	20.4
90°-180°	1501.0	28.3
0°-180°	5312.4	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°	15	0	15	0	15	9
95°	28	24	28	24	28	31
105°	101	97	101	97	101	106
115°	181	181	181	181	181	179
125°	265	264	265	264	265	236
135°	345	341	345	341	345	266
145°	419	414	419	414	419	261
155°	477	473	477	473	477	220
165°	516	515	516	515	516	145
175°	534	536	534	536	534	51
180°	537	537	537	537	537	



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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°	16.9	16.9	17.4	16.8	16.8	17.3	17.4	16.9	17.5	18.0	18.1
90°	15.4	15.3	15.2	15.1	15.0	15.1	15.3	15.5	15.7	15.9	13.6
92.5°	14.7	14.7	14.6	14.6	14.6	14.6	14.5	14.5	14.4	14.4	13.9
95°	28.1	28.3	28.5	28.7	28.9	29.0	29.0	29.0	29.0	29.0	28.8
97.5°	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.4
100°	62.1	62.2	62.3	62.4	62.5	62.5	62.5	62.5	62.5	62.5	62.2
102.5°	77.3	77.4	77.5	77.6	77.7	77.7	77.6	77.5	77.5	77.4	77.0
105°	100.6	100.6	100.6	100.6	100.6	100.5	100.3	100.1	99.9	99.7	99.5
107.5°	122.5	123.0	123.4	123.9	124.4	124.6	124.5	124.4	124.3	124.2	124.2
110°	139.5	139.8	140.1	140.4	140.7	140.9	140.9	140.9	140.9	140.9	140.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	155.9	156.1	156.3	156.5	156.7	157.0	157.2	157.5	157.7	157.9	158.0
115°	181.2	181.5	181.8	182.1	182.4	182.6	182.7	182.8	182.9	183.0	183.2
117.5°	205.4	205.7	206.0	206.3	206.6	206.9	207.1	207.4	207.6	207.9	208.4
120°	222.5	222.8	223.1	223.4	223.7	223.8	223.8	223.8	223.8	223.8	224.6
122.5°	239.1	239.3	239.6	239.8	240.0	240.2	240.5	240.7	241.0	241.2	241.8
125°	264.6	264.7	264.8	264.9	265.0	265.2	265.5	265.8	266.1	266.4	266.7
127.5°	287.8	288.1	288.4	288.7	289.1	289.4	289.8	290.1	290.5	290.9	291.2
130°	304.5	304.9	305.3	305.7	306.1	306.4	306.6	306.8	307.0	307.2	307.4
132.5°	320.4	320.7	321.0	321.4	321.7	322.1	322.5	323.0	323.4	323.8	323.8
135°	345.2	345.5	345.8	346.1	346.4	346.6	346.7	346.8	346.9	347.0	346.8
137.5°	367.7	368.1	368.5	368.9	369.3	369.6	369.6	369.7	369.8	369.9	369.6
140°	383.3	383.7	384.1	384.5	384.9	385.1	385.1	385.1	385.1	385.1	384.6
142.5°	397.4	397.8	398.2	398.6	399.0	399.2	399.1	399.0	399.0	398.9	398.5
145°	418.6	419.0	419.4	419.8	420.2	420.4	420.3	420.2	420.1	420.0	419.4
147.5°	437.6	437.9	438.3	438.7	439.1	439.2	439.0	438.7	438.5	438.3	437.9
150°	449.9	450.2	450.5	450.8	451.1	451.1	450.8	450.5	450.2	449.9	449.5
152.5°	461.5	461.9	462.2	462.6	463.0	463.0	462.6	462.2	461.9	461.5	461.0
155°	477.1	477.4	477.7	478.0	478.3	478.2	477.7	477.2	476.7	476.2	475.9
157.5°	490.5	491.0	491.4	491.9	492.4	492.3	491.6	490.9	490.3	489.6	489.4
160°	498.8	499.2	499.6	500.0	500.4	500.3	499.7	499.1	498.5	497.9	497.8
162.5°	506.1	506.5	507.0	507.5	508.0	507.9	507.2	506.5	505.8	505.2	505.1
165°	515.6	516.1	516.6	517.1	517.6	517.5	516.8	516.1	515.4	514.7	514.7
167.5°	523.4	523.9	524.4	524.9	525.5	525.4	524.7	524.0	523.3	522.6	522.6
170°	527.4	528.0	528.6	529.2	529.8	529.7	529.0	528.3	527.6	526.9	527.0
172.5°	530.6	531.2	531.8	532.4	533.0	533.0	532.3	531.6	530.9	530.2	530.3
175°	534.2	534.8	535.4	536.0	536.6	536.5	535.8	535.1	534.4	533.7	533.9
177.5°	535.8	536.3	536.8	537.2	537.7	537.7	537.2	536.8	536.3	535.8	535.9
180°	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9



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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°	18.2	17.8	17.3	18.0	16.2	16.0	13.6	11.8	11.5	11.2	10.4
90°	11.4	9.2	7.0	5.3	4.1	2.9	1.7	0.5	1.7	2.9	4.1
92.5°	13.4	12.8	12.3	11.6	10.7	9.8	9.0	8.1	9.0	9.8	10.7
95°	28.6	28.4	28.2	27.6	26.6	25.6	24.6	23.6	24.6	25.6	26.6
97.5°	48.0	47.6	47.2	46.6	45.7	44.8	43.9	43.0	43.9	44.8	45.7
100°	61.9	61.6	61.3	60.8	60.0	59.1	58.3	57.5	58.3	59.1	60.0
102.5°	76.6	76.2	75.9	75.3	74.7	74.0	73.4	72.8	73.4	74.0	74.7
105°	99.3	99.1	98.9	98.6	98.3	98.0	97.7	97.4	97.7	98.0	98.3
107.5°	124.2	124.2	124.2	124.0	123.6	123.1	122.7	122.2	122.7	123.1	123.6
110°	140.9	140.9	140.9	140.6	140.0	139.4	138.8	138.2	138.8	139.4	140.0



TEST NUMBER: P331556

CATALOG NUMBER: S122DIW-S865D435U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	158.1	158.2	158.3	158.0	157.4	156.8	156.2	155.6	156.2	156.8	157.4
115°	183.4	183.6	183.8	183.6	183.0	182.4	181.8	181.2	181.8	182.4	183.0
117.5°	209.0	209.6	210.1	210.0	209.2	208.4	207.6	206.8	207.6	208.4	209.2
120°	225.4	226.2	227.0	227.0	226.2	225.4	224.6	223.8	224.6	225.4	226.2
122.5°	242.3	242.9	243.5	243.3	242.3	241.3	240.4	239.4	240.4	241.3	242.3
125°	267.0	267.3	267.6	267.3	266.4	265.5	264.6	263.7	264.6	265.5	266.4
127.5°	291.6	292.0	292.3	291.9	290.8	289.6	288.5	287.3	288.5	289.6	290.8
130°	307.6	307.8	308.0	307.4	306.1	304.8	303.5	302.2	303.5	304.8	306.1
132.5°	323.8	323.7	323.7	323.1	322.1	321.0	319.9	318.9	319.9	321.0	322.1
135°	346.6	346.4	346.2	345.6	344.5	343.4	342.3	341.2	342.3	343.4	344.5
137.5°	369.4	369.1	368.8	368.2	367.3	366.4	365.5	364.6	365.5	366.4	367.3
140°	384.1	383.6	383.1	382.4	381.5	380.6	379.7	378.8	379.7	380.6	381.5
142.5°	398.2	397.8	397.5	396.9	396.0	395.1	394.2	393.3	394.2	395.1	396.0
145°	418.8	418.2	417.6	416.9	416.2	415.5	414.8	414.1	414.8	415.5	416.2
147.5°	437.5	437.1	436.7	436.1	435.2	434.4	433.5	432.7	433.5	434.4	435.2
150°	449.1	448.7	448.3	447.8	447.2	446.6	446.0	445.4	446.0	446.6	447.2
152.5°	460.5	460.0	459.6	459.0	458.4	457.8	457.2	456.6	457.2	457.8	458.4
155°	475.6	475.3	475.0	474.7	474.4	474.0	473.7	473.4	473.7	474.0	474.4
157.5°	489.2	489.0	488.8	488.7	488.5	488.3	488.1	487.9	488.1	488.3	488.5
160°	497.7	497.6	497.5	497.4	497.2	497.0	496.8	496.6	496.8	497.0	497.2
162.5°	505.0	504.9	504.8	504.7	504.6	504.6	504.6	504.5	504.6	504.6	504.6
165°	514.7	514.7	514.7	514.7	514.8	514.9	515.0	515.1	515.0	514.9	514.8
167.5°	522.6	522.6	522.6	522.8	523.1	523.4	523.7	524.0	523.7	523.4	523.1
170°	527.1	527.2	527.3	527.5	527.8	528.1	528.4	528.7	528.4	528.1	527.8
172.5°	530.4	530.5	530.6	530.8	531.1	531.4	531.7	532.0	531.7	531.4	531.1
175°	534.1	534.3	534.5	534.8	535.1	535.4	535.7	536.0	535.7	535.4	535.1
177.5°	536.1	536.3	536.4	536.6	536.9	537.1	537.4	537.6	537.4	537.1	536.9
180°	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9



TEST NUMBER: P331556

CATALOG NUMBER: S122DIW-S865D435U835-4F0-1E-UDD-A1

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°	10.1	9.9	9.8	10.2	10.2	10.1	9.5	9.5	9.4	8.3	8.3
90°	5.3	7.0	9.2	11.4	13.6	15.9	15.7	15.5	15.3	15.1	15.0
92.5°	11.6	12.3	12.8	13.4	13.9	14.4	14.4	14.5	14.5	14.6	14.6
95°	27.6	28.2	28.4	28.6	28.8	29.0	29.0	29.0	29.0	29.0	28.9
97.5°	46.6	47.2	47.6	48.0	48.4	48.7	48.7	48.7	48.7	48.7	48.7
100°	60.8	61.3	61.6	61.9	62.2	62.5	62.5	62.5	62.5	62.5	62.5
102.5°	75.3	75.9	76.2	76.6	77.0	77.4	77.5	77.5	77.6	77.7	77.7
105°	98.6	98.9	99.1	99.3	99.5	99.7	99.9	100.1	100.3	100.5	100.6
107.5°	124.0	124.2	124.2	124.2	124.2	124.2	124.3	124.4	124.5	124.6	124.4
110°	140.6	140.9	140.9	140.9	140.9	140.9	140.9	140.9	140.9	140.9	140.7



TEST NUMBER: P331556

CATALOG NUMBER: S122DIW-S865D435U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	158.0	158.3	158.2	158.1	158.0	157.9	157.7	157.5	157.2	157.0	156.7
115°	183.6	183.8	183.6	183.4	183.2	183.0	182.9	182.8	182.7	182.6	182.4
117.5°	210.0	210.1	209.6	209.0	208.4	207.9	207.6	207.4	207.1	206.9	206.6
120°	227.0	227.0	226.2	225.4	224.6	223.8	223.8	223.8	223.8	223.8	223.7
122.5°	243.3	243.5	242.9	242.3	241.8	241.2	241.0	240.7	240.5	240.2	240.0
125°	267.3	267.6	267.3	267.0	266.7	266.4	266.1	265.8	265.5	265.2	265.0
127.5°	291.9	292.3	292.0	291.6	291.2	290.9	290.5	290.1	289.8	289.4	289.1
130°	307.4	308.0	307.8	307.6	307.4	307.2	307.0	306.8	306.6	306.4	306.1
132.5°	323.1	323.7	323.7	323.8	323.8	323.8	323.4	323.0	322.5	322.1	321.7
135°	345.6	346.2	346.4	346.6	346.8	347.0	346.9	346.8	346.7	346.6	346.4
137.5°	368.2	368.8	369.1	369.4	369.6	369.9	369.8	369.7	369.6	369.6	369.3
140°	382.4	383.1	383.6	384.1	384.6	385.1	385.1	385.1	385.1	385.1	384.9
142.5°	396.9	397.5	397.8	398.2	398.5	398.9	399.0	399.0	399.1	399.2	399.0
145°	416.9	417.6	418.2	418.8	419.4	420.0	420.1	420.2	420.3	420.4	420.2
147.5°	436.1	436.7	437.1	437.5	437.9	438.3	438.5	438.7	439.0	439.2	439.1
150°	447.8	448.3	448.7	449.1	449.5	449.9	450.2	450.5	450.8	451.1	451.1
152.5°	459.0	459.6	460.0	460.5	461.0	461.5	461.9	462.2	462.6	463.0	463.0
155°	474.7	475.0	475.3	475.6	475.9	476.2	476.7	477.2	477.7	478.2	478.3
157.5°	488.7	488.8	489.0	489.2	489.4	489.6	490.3	490.9	491.6	492.3	492.4
160°	497.4	497.5	497.6	497.7	497.8	497.9	498.5	499.1	499.7	500.3	500.4
162.5°	504.7	504.8	504.9	505.0	505.1	505.2	505.8	506.5	507.2	507.9	508.0
165°	514.7	514.7	514.7	514.7	514.7	514.7	515.4	516.1	516.8	517.5	517.6
167.5°	522.8	522.6	522.6	522.6	522.6	522.6	523.3	524.0	524.7	525.4	525.5
170°	527.5	527.3	527.2	527.1	527.0	526.9	527.6	528.3	529.0	529.7	529.8
172.5°	530.8	530.6	530.5	530.4	530.3	530.2	530.9	531.6	532.3	533.0	533.0
175°	534.8	534.5	534.3	534.1	533.9	533.7	534.4	535.1	535.8	536.5	536.6
177.5°	536.6	536.4	536.3	536.1	535.9	535.8	536.3	536.8	537.2	537.7	537.7
180°	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9



TEST NUMBER: P331556

CATALOG NUMBER: S122DIW-S865D435U835-4F0-1E-UDD-A1

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°	8.3	7.8	7.8	7.3	7.8	7.8	8.3	8.3	8.3	9.4	9.5
90°	15.1	15.2	15.3	15.4	15.3	15.2	15.1	15.0	15.1	15.3	15.5
92.5°	14.6	14.6	14.7	14.7	14.7	14.6	14.6	14.6	14.6	14.5	14.5
95°	28.7	28.5	28.3	28.1	28.3	28.5	28.7	28.9	29.0	29.0	29.0
97.5°	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
100°	62.4	62.3	62.2	62.1	62.2	62.3	62.4	62.5	62.5	62.5	62.5
102.5°	77.6	77.5	77.4	77.3	77.4	77.5	77.6	77.7	77.7	77.6	77.5
105°	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.5	100.3	100.1
107.5°	123.9	123.4	123.0	122.5	123.0	123.4	123.9	124.4	124.6	124.5	124.4
110°	140.4	140.1	139.8	139.5	139.8	140.1	140.4	140.7	140.9	140.9	140.9



TEST NUMBER: P331556

CATALOG NUMBER: S122DIW-S865D435U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	156.5	156.3	156.1	155.9	156.1	156.3	156.5	156.7	157.0	157.2	157.5
115°	182.1	181.8	181.5	181.2	181.5	181.8	182.1	182.4	182.6	182.7	182.8
117.5°	206.3	206.0	205.7	205.4	205.7	206.0	206.3	206.6	206.9	207.1	207.4
120°	223.4	223.1	222.8	222.5	222.8	223.1	223.4	223.7	223.8	223.8	223.8
122.5°	239.8	239.6	239.3	239.1	239.3	239.6	239.8	240.0	240.2	240.5	240.7
125°	264.9	264.8	264.7	264.6	264.7	264.8	264.9	265.0	265.2	265.5	265.8
127.5°	288.7	288.4	288.1	287.8	288.1	288.4	288.7	289.1	289.4	289.8	290.1
130°	305.7	305.3	304.9	304.5	304.9	305.3	305.7	306.1	306.4	306.6	306.8
132.5°	321.4	321.0	320.7	320.4	320.7	321.0	321.4	321.7	322.1	322.5	323.0
135°	346.1	345.8	345.5	345.2	345.5	345.8	346.1	346.4	346.6	346.7	346.8
137.5°	368.9	368.5	368.1	367.7	368.1	368.5	368.9	369.3	369.6	369.6	369.7
140°	384.5	384.1	383.7	383.3	383.7	384.1	384.5	384.9	385.1	385.1	385.1
142.5°	398.6	398.2	397.8	397.4	397.8	398.2	398.6	399.0	399.2	399.1	399.0
145°	419.8	419.4	419.0	418.6	419.0	419.4	419.8	420.2	420.4	420.3	420.2
147.5°	438.7	438.3	437.9	437.6	437.9	438.3	438.7	439.1	439.2	439.0	438.7
150°	450.8	450.5	450.2	449.9	450.2	450.5	450.8	451.1	451.1	450.8	450.5
152.5°	462.6	462.2	461.9	461.5	461.9	462.2	462.6	463.0	463.0	462.6	462.2
155°	478.0	477.7	477.4	477.1	477.4	477.7	478.0	478.3	478.2	477.7	477.2
157.5°	491.9	491.4	491.0	490.5	491.0	491.4	491.9	492.4	492.3	491.6	490.9
160°	500.0	499.6	499.2	498.8	499.2	499.6	500.0	500.4	500.3	499.7	499.1
162.5°	507.5	507.0	506.5	506.1	506.5	507.0	507.5	508.0	507.9	507.2	506.5
165°	517.1	516.6	516.1	515.6	516.1	516.6	517.1	517.6	517.5	516.8	516.1
167.5°	524.9	524.4	523.9	523.4	523.9	524.4	524.9	525.5	525.4	524.7	524.0
170°	529.2	528.6	528.0	527.4	528.0	528.6	529.2	529.8	529.7	529.0	528.3
172.5°	532.4	531.8	531.2	530.6	531.2	531.8	532.4	533.0	533.0	532.3	531.6
175°	536.0	535.4	534.8	534.2	534.8	535.4	536.0	536.6	536.5	535.8	535.1
177.5°	537.2	536.8	536.3	535.8	536.3	536.8	537.2	537.7	537.7	537.2	536.8
180°	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9



TEST NUMBER: P331556

CATALOG NUMBER: S122DIW-S865D435U835-4F0-1E-UDD-A1

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°	9.5	10.1	10.2	10.2	9.8	9.9	10.1	10.4	11.2	11.5	11.8
90°	15.7	15.9	13.6	11.4	9.2	7.0	5.3	4.1	2.9	1.7	0.5
92.5°	14.4	14.4	13.9	13.4	12.8	12.3	11.6	10.7	9.8	9.0	8.1
95°	29.0	29.0	28.8	28.6	28.4	28.2	27.6	26.6	25.6	24.6	23.6
97.5°	48.7	48.7	48.4	48.0	47.6	47.2	46.6	45.7	44.8	43.9	43.0
100°	62.5	62.5	62.2	61.9	61.6	61.3	60.8	60.0	59.1	58.3	57.5
102.5°	77.5	77.4	77.0	76.6	76.2	75.9	75.3	74.7	74.0	73.4	72.8
105°	99.9	99.7	99.5	99.3	99.1	98.9	98.6	98.3	98.0	97.7	97.4
107.5°	124.3	124.2	124.2	124.2	124.2	124.2	124.0	123.6	123.1	122.7	122.2
110°	140.9	140.9	140.9	140.9	140.9	140.9	140.6	140.0	139.4	138.8	138.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	157.7	157.9	158.0	158.1	158.2	158.3	158.0	157.4	156.8	156.2	155.6
115°	182.9	183.0	183.2	183.4	183.6	183.8	183.6	183.0	182.4	181.8	181.2
117.5°	207.6	207.9	208.4	209.0	209.6	210.1	210.0	209.2	208.4	207.6	206.8
120°	223.8	223.8	224.6	225.4	226.2	227.0	227.0	226.2	225.4	224.6	223.8
122.5°	241.0	241.2	241.8	242.3	242.9	243.5	243.3	242.3	241.3	240.4	239.4
125°	266.1	266.4	266.7	267.0	267.3	267.6	267.3	266.4	265.5	264.6	263.7
127.5°	290.5	290.9	291.2	291.6	292.0	292.3	291.9	290.8	289.6	288.5	287.3
130°	307.0	307.2	307.4	307.6	307.8	308.0	307.4	306.1	304.8	303.5	302.2
132.5°	323.4	323.8	323.8	323.8	323.7	323.7	323.1	322.1	321.0	319.9	318.9
135°	346.9	347.0	346.8	346.6	346.4	346.2	345.6	344.5	343.4	342.3	341.2
137.5°	369.8	369.9	369.6	369.4	369.1	368.8	368.2	367.3	366.4	365.5	364.6
140°	385.1	385.1	384.6	384.1	383.6	383.1	382.4	381.5	380.6	379.7	378.8
142.5°	399.0	398.9	398.5	398.2	397.8	397.5	396.9	396.0	395.1	394.2	393.3
145°	420.1	420.0	419.4	418.8	418.2	417.6	416.9	416.2	415.5	414.8	414.1
147.5°	438.5	438.3	437.9	437.5	437.1	436.7	436.1	435.2	434.4	433.5	432.7
150°	450.2	449.9	449.5	449.1	448.7	448.3	447.8	447.2	446.6	446.0	445.4
152.5°	461.9	461.5	461.0	460.5	460.0	459.6	459.0	458.4	457.8	457.2	456.6
155°	476.7	476.2	475.9	475.6	475.3	475.0	474.7	474.4	474.0	473.7	473.4
157.5°	490.3	489.6	489.4	489.2	489.0	488.8	488.7	488.5	488.3	488.1	487.9
160°	498.5	497.9	497.8	497.7	497.6	497.5	497.4	497.2	497.0	496.8	496.6
162.5°	505.8	505.2	505.1	505.0	504.9	504.8	504.7	504.6	504.6	504.6	504.5
165°	515.4	514.7	514.7	514.7	514.7	514.7	514.7	514.8	514.9	515.0	515.1
167.5°	523.3	522.6	522.6	522.6	522.6	522.6	522.8	523.1	523.4	523.7	524.0
170°	527.6	526.9	527.0	527.1	527.2	527.3	527.5	527.8	528.1	528.4	528.7
172.5°	530.9	530.2	530.3	530.4	530.5	530.6	530.8	531.1	531.4	531.7	532.0
175°	534.4	533.7	533.9	534.1	534.3	534.5	534.8	535.1	535.4	535.7	536.0
177.5°	536.3	535.8	535.9	536.1	536.3	536.4	536.6	536.9	537.1	537.4	537.6
180°	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9



TEST NUMBER: P331556

CATALOG NUMBER: S122DIW-S865D435U835-4F0-1E-UDD-A1

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°	13.6	16.0	16.2	18.0	17.3	17.8	18.2	18.1	18.0	17.5	16.9
90°	1.7	2.9	4.1	5.3	7.0	9.2	11.4	13.6	15.9	15.7	15.5
92.5°	9.0	9.8	10.7	11.6	12.3	12.8	13.4	13.9	14.4	14.4	14.5
95°	24.6	25.6	26.6	27.6	28.2	28.4	28.6	28.8	29.0	29.0	29.0
97.5°	43.9	44.8	45.7	46.6	47.2	47.6	48.0	48.4	48.7	48.7	48.7
100°	58.3	59.1	60.0	60.8	61.3	61.6	61.9	62.2	62.5	62.5	62.5
102.5°	73.4	74.0	74.7	75.3	75.9	76.2	76.6	77.0	77.4	77.5	77.5
105°	97.7	98.0	98.3	98.6	98.9	99.1	99.3	99.5	99.7	99.9	100.1
107.5°	122.7	123.1	123.6	124.0	124.2	124.2	124.2	124.2	124.2	124.3	124.4
110°	138.8	139.4	140.0	140.6	140.9	140.9	140.9	140.9	140.9	140.9	140.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	156.2	156.8	157.4	158.0	158.3	158.2	158.1	158.0	157.9	157.7	157.5
115°	181.8	182.4	183.0	183.6	183.8	183.6	183.4	183.2	183.0	182.9	182.8
117.5°	207.6	208.4	209.2	210.0	210.1	209.6	209.0	208.4	207.9	207.6	207.4
120°	224.6	225.4	226.2	227.0	227.0	226.2	225.4	224.6	223.8	223.8	223.8
122.5°	240.4	241.3	242.3	243.3	243.5	242.9	242.3	241.8	241.2	241.0	240.7
125°	264.6	265.5	266.4	267.3	267.6	267.3	267.0	266.7	266.4	266.1	265.8
127.5°	288.5	289.6	290.8	291.9	292.3	292.0	291.6	291.2	290.9	290.5	290.1
130°	303.5	304.8	306.1	307.4	308.0	307.8	307.6	307.4	307.2	307.0	306.8
132.5°	319.9	321.0	322.1	323.1	323.7	323.7	323.8	323.8	323.8	323.4	323.0
135°	342.3	343.4	344.5	345.6	346.2	346.4	346.6	346.8	347.0	346.9	346.8
137.5°	365.5	366.4	367.3	368.2	368.8	369.1	369.4	369.6	369.9	369.8	369.7
140°	379.7	380.6	381.5	382.4	383.1	383.6	384.1	384.6	385.1	385.1	385.1
142.5°	394.2	395.1	396.0	396.9	397.5	397.8	398.2	398.5	398.9	399.0	399.0
145°	414.8	415.5	416.2	416.9	417.6	418.2	418.8	419.4	420.0	420.1	420.2
147.5°	433.5	434.4	435.2	436.1	436.7	437.1	437.5	437.9	438.3	438.5	438.7
150°	446.0	446.6	447.2	447.8	448.3	448.7	449.1	449.5	449.9	450.2	450.5
152.5°	457.2	457.8	458.4	459.0	459.6	460.0	460.5	461.0	461.5	461.9	462.2
155°	473.7	474.0	474.4	474.7	475.0	475.3	475.6	475.9	476.2	476.7	477.2
157.5°	488.1	488.3	488.5	488.7	488.8	489.0	489.2	489.4	489.6	490.3	490.9
160°	496.8	497.0	497.2	497.4	497.5	497.6	497.7	497.8	497.9	498.5	499.1
162.5°	504.6	504.6	504.6	504.7	504.8	504.9	505.0	505.1	505.2	505.8	506.5
165°	515.0	514.9	514.8	514.7	514.7	514.7	514.7	514.7	514.7	515.4	516.1
167.5°	523.7	523.4	523.1	522.8	522.6	522.6	522.6	522.6	522.6	523.3	524.0
170°	528.4	528.1	527.8	527.5	527.3	527.2	527.1	527.0	526.9	527.6	528.3
172.5°	531.7	531.4	531.1	530.8	530.6	530.5	530.4	530.3	530.2	530.9	531.6
175°	535.7	535.4	535.1	534.8	534.5	534.3	534.1	533.9	533.7	534.4	535.1
177.5°	537.4	537.1	536.9	536.6	536.4	536.3	536.1	535.9	535.8	536.3	536.8
180°	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9



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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°	17.4	17.3	16.8	16.8	17.4	16.9	16.9
90°	15.3	15.1	15.0	15.1	15.2	15.3	15.4
92.5°	14.5	14.6	14.6	14.6	14.6	14.7	14.7
95°	29.0	29.0	28.9	28.7	28.5	28.3	28.1
97.5°	48.7	48.7	48.7	48.7	48.7	48.7	48.7
100°	62.5	62.5	62.5	62.4	62.3	62.2	62.1
102.5°	77.6	77.7	77.7	77.6	77.5	77.4	77.3
105°	100.3	100.5	100.6	100.6	100.6	100.6	100.6
107.5°	124.5	124.6	124.4	123.9	123.4	123.0	122.5
110°	140.9	140.9	140.7	140.4	140.1	139.8	139.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	157.2	157.0	156.7	156.5	156.3	156.1	155.9
115°	182.7	182.6	182.4	182.1	181.8	181.5	181.2
117.5°	207.1	206.9	206.6	206.3	206.0	205.7	205.4
120°	223.8	223.8	223.7	223.4	223.1	222.8	222.5
122.5°	240.5	240.2	240.0	239.8	239.6	239.3	239.1
125°	265.5	265.2	265.0	264.9	264.8	264.7	264.6
127.5°	289.8	289.4	289.1	288.7	288.4	288.1	287.8
130°	306.6	306.4	306.1	305.7	305.3	304.9	304.5
132.5°	322.5	322.1	321.7	321.4	321.0	320.7	320.4
135°	346.7	346.6	346.4	346.1	345.8	345.5	345.2
137.5°	369.6	369.6	369.3	368.9	368.5	368.1	367.7
140°	385.1	385.1	384.9	384.5	384.1	383.7	383.3
142.5°	399.1	399.2	399.0	398.6	398.2	397.8	397.4
145°	420.3	420.4	420.2	419.8	419.4	419.0	418.6
147.5°	439.0	439.2	439.1	438.7	438.3	437.9	437.6
150°	450.8	451.1	451.1	450.8	450.5	450.2	449.9
152.5°	462.6	463.0	463.0	462.6	462.2	461.9	461.5
155°	477.7	478.2	478.3	478.0	477.7	477.4	477.1
157.5°	491.6	492.3	492.4	491.9	491.4	491.0	490.5
160°	499.7	500.3	500.4	500.0	499.6	499.2	498.8
162.5°	507.2	507.9	508.0	507.5	507.0	506.5	506.1
165°	516.8	517.5	517.6	517.1	516.6	516.1	515.6
167.5°	524.7	525.4	525.5	524.9	524.4	523.9	523.4
170°	529.0	529.7	529.8	529.2	528.6	528.0	527.4
172.5°	532.3	533.0	533.0	532.4	531.8	531.2	530.6
175°	535.8	536.5	536.6	536.0	535.4	534.8	534.2
177.5°	537.2	537.7	537.7	537.2	536.8	536.3	535.8
180°	536.9	536.9	536.9	536.9	536.9	536.9	536.9

(END OF REPORT)