

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: P331586-830

Luminaire Tested: **S122DIW-S1005D435U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331586-830
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-S1005D435U830-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1005 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: 5563.5 lumens
Efficiency: N/A
Efficacy: 106.2 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

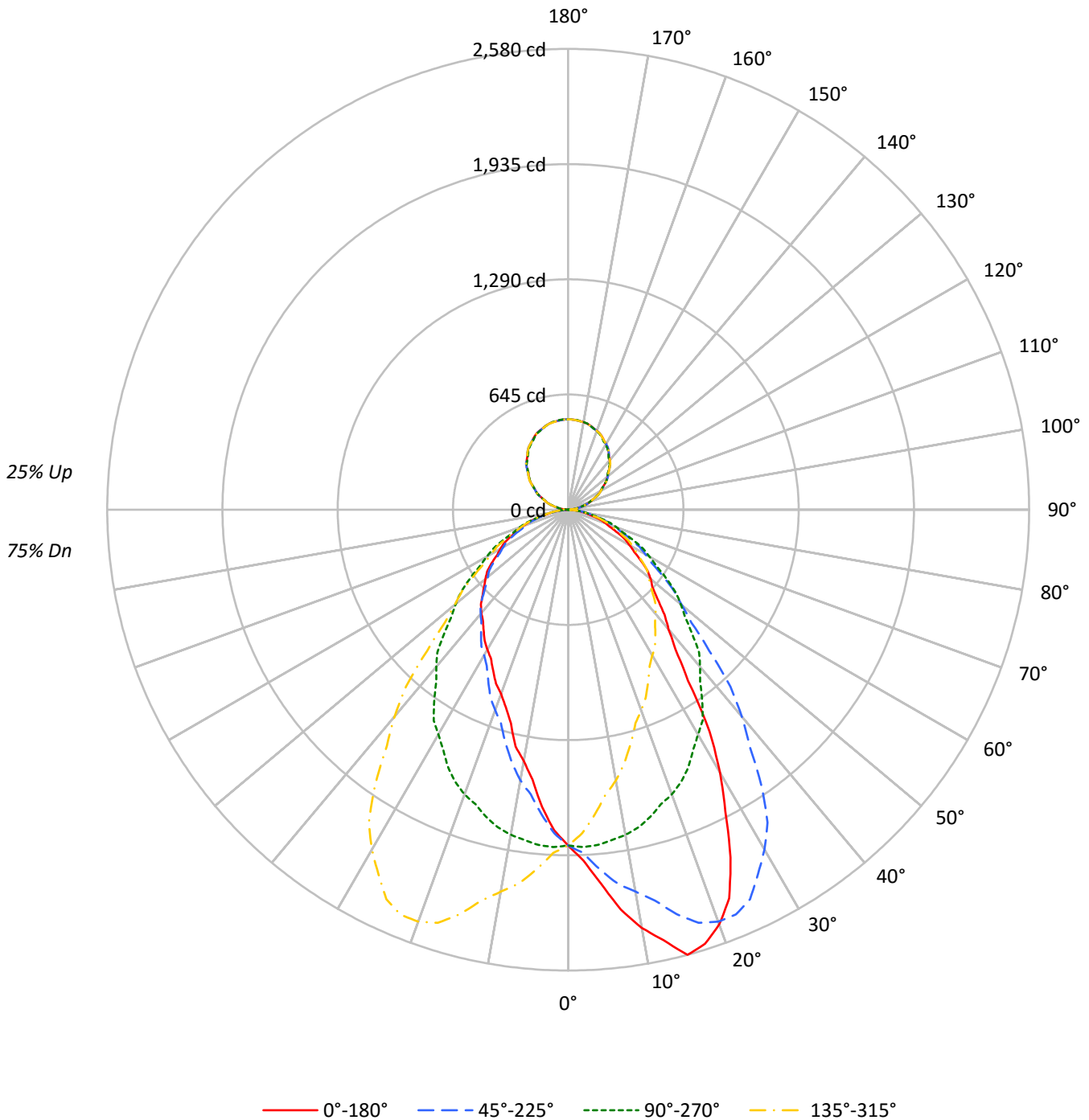
Input Watts (W): 52.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	75
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	70	66	63	63	61	58	55
3	87	78	71	65	83	75	68	63	68	63	59	62	58	54	57	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	35	31	29
8	60	47	39	34	57	45	38	33	42	36	31	39	34	30	36	32	28	26
9	56	43	36	31	53	42	35	30	39	33	29	36	31	27	33	29	26	24
10	52	40	33	28	50	39	32	27	36	30	26	33	28	25	31	27	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	30344	30344	30344	30344
5°	34020	30543	27067	30543
10°	38984	30293	23423	30293
15°	43127	29737	20694	29737
20°	42471	29141	18866	29141
25°	38297	28349	17706	28349
30°	31646	27082	16861	27082
35°	23065	25754	16259	25754
40°	18421	24190	15924	24190
45°	16098	22379	15470	22379
50°	15131	20627	15169	20627
55°	13948	18849	14762	18849
60°	12784	16956	14134	16956
65°	11645	15259	13521	15259
70°	10570	13605	12619	13605
75°	9370	11759	11179	11759
80°	8061	9735	9000	9735
85°	7225	7225	5354	7225



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.0	3.2
10°-20°	520.4	9.4
20°-30°	755.2	13.6
30°-40°	796.9	14.3
40°-50°	705.6	12.7
50°-60°	563.1	10.1
60°-70°	382.7	6.9
70°-80°	196.2	3.5
80°-90°	49.3	0.9
90°-100°	32.1	0.6
100°-110°	99.6	1.8
110°-120°	170.2	3.1
120°-130°	223.9	4.0
130°-140°	251.3	4.5
140°-150°	246.4	4.4
150°-160°	206.6	3.7
160°-170°	137.1	2.5
170°-180°	47.9	0.9
0°-30°	1454.6	26.1
0°-40°	2251.5	40.5
0°-60°	3520.2	63.3
0°-90°	4148.5	74.6
90°-120°	301.9	5.4
90°-150°	1023.3	18.4
90°-180°	1415.0	25.4
0°-180°	5563.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1879	1879	1879	1879	1879	
5°	2099	1884	1670	1884	2099	210
15°	2580	1779	1238	1779	2580	712
25°	2150	1591	994	1591	2150	972
35°	1170	1307	825	1307	1170	761
45°	705	980	678	980	705	554
55°	496	670	524	670	496	444
65°	305	399	354	399	305	303
75°	150	188	179	188	150	161
85°	39	39	29	39	39	43
90°	14	0	14	0	14	8
95°	26	22	26	22	26	30
105°	95	92	95	92	95	100
115°	171	171	171	171	171	169
125°	249	248	249	248	249	222
135°	325	322	325	322	325	250
145°	394	390	394	390	394	246
155°	450	446	450	446	450	207
165°	486	486	486	486	486	137
175°	504	505	504	505	504	48
180°	506	506	506	506	506	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4
2.5°	1966.1	1966.7	1967.8	1958.6	1957.5	1957.5	1949.4	1942.5	1934.4	1923.4	1924.6
5°	2099.0	2107.0	2109.9	2101.2	2088.2	2086.8	2074.5	2054.3	2035.5	2020.3	2009.5
7.5°	2257.7	2260.9	2253.8	2242.4	2232.7	2215.4	2192.5	2170.1	2138.8	2110.1	2088.7
10°	2377.8	2382.2	2369.9	2353.3	2339.6	2319.4	2286.1	2252.2	2211.0	2171.3	2139.5
12.5°	2469.2	2479.8	2464.1	2461.9	2438.5	2410.6	2371.1	2353.9	2295.9	2240.6	2206.6
15°	2580.1	2579.4	2580.9	2567.1	2549.8	2545.4	2503.6	2458.1	2376.4	2343.9	2287.6
17.5°	2548.1	2559.0	2564.1	2563.9	2563.5	2560.8	2547.3	2518.6	2477.7	2425.0	2359.9
20°	2471.8	2486.2	2488.4	2505.0	2514.4	2526.7	2531.8	2523.8	2498.5	2454.5	2398.1
22.5°	2353.9	2358.0	2364.7	2390.6	2410.9	2441.8	2457.8	2484.4	2474.8	2453.2	2406.2
25°	2149.7	2142.4	2167.7	2180.7	2227.6	2276.7	2312.2	2351.2	2385.9	2406.8	2393.0
27.5°	1904.3	1893.5	1931.4	1965.9	2004.0	2057.2	2112.3	2177.5	2231.7	2299.4	2322.7
30°	1697.4	1703.9	1740.0	1776.9	1834.7	1909.8	1971.9	2043.4	2120.7	2196.6	2249.3
32.5°	1474.4	1499.4	1522.2	1578.7	1629.6	1713.4	1804.3	1893.8	1990.2	2076.4	2158.0
35°	1170.2	1199.0	1230.9	1272.0	1343.5	1426.5	1515.4	1636.1	1767.6	1885.3	1982.1
37.5°	985.0	980.3	998.5	1028.3	1086.2	1153.3	1255.6	1374.7	1529.5	1667.8	1804.3
40°	874.0	871.1	884.1	911.5	955.6	1004.8	1094.3	1199.0	1342.7	1511.8	1674.3
42.5°	797.8	799.5	806.7	826.0	856.2	896.6	963.7	1052.8	1184.5	1343.7	1518.3
45°	705.0	710.0	718.0	727.4	744.7	778.0	815.5	879.1	983.1	1116.0	1287.9
47.5°	638.2	638.4	646.5	654.7	665.0	683.7	714.4	754.2	827.6	935.9	1083.6
50°	602.4	597.4	603.1	609.6	620.5	633.5	653.7	691.3	740.4	827.7	951.3
52.5°	558.5	558.6	563.8	566.3	576.0	589.0	607.5	633.5	678.0	746.3	847.8
55°	495.5	499.1	502.0	506.3	515.0	524.4	538.9	556.2	590.9	642.2	717.3
57.5°	436.3	437.4	440.4	448.6	454.0	462.7	476.5	492.2	514.7	552.7	609.2
60°	395.9	395.9	401.6	405.2	412.5	421.1	432.0	447.1	467.3	498.4	543.9
62.5°	358.8	358.3	360.6	366.5	372.0	380.1	390.9	403.8	422.8	450.4	487.9
65°	304.8	303.4	307.7	309.2	314.9	322.9	331.6	345.3	360.4	380.7	413.9
67.5°	252.8	254.6	256.8	259.6	262.8	271.2	276.9	286.6	299.4	316.2	338.7
70°	223.9	223.9	223.9	226.1	230.5	234.8	240.5	248.5	260.8	275.2	295.4
72.5°	191.5	193.9	196.1	194.9	200.4	202.9	209.9	214.4	226.1	235.4	253.3
75°	150.2	150.2	150.2	153.8	156.0	158.2	162.5	166.8	172.7	184.2	193.6
77.5°	112.1	111.8	112.5	113.4	115.7	118.3	119.6	123.5	128.8	134.2	142.1
80°	86.7	88.1	88.9	90.3	90.3	91.7	92.5	97.6	101.1	104.7	109.8
82.5°	67.0	67.3	67.5	67.8	68.3	69.2	71.1	72.7	74.0	77.0	80.9
85°	39.0	38.3	38.3	39.7	39.0	39.0	40.4	41.8	41.8	42.6	44.8
87.5°	17.9	17.9	18.5	17.9	17.8	18.5	18.5	17.9	18.6	19.1	19.3
90°	14.5	14.4	14.3	14.2	14.1	14.2	14.4	14.6	14.8	15.0	12.8
92.5°	13.9	13.9	13.8	13.8	13.8	13.8	13.7	13.7	13.6	13.6	13.1
95°	26.5	26.7	26.9	27.1	27.2	27.3	27.3	27.3	27.3	27.3	27.1
97.5°	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.6
100°	58.5	58.6	58.7	58.8	58.9	58.9	58.9	58.9	58.9	58.9	58.6
102.5°	72.9	73.0	73.0	73.1	73.2	73.2	73.1	73.0	73.0	73.0	72.6
105°	94.8	94.8	94.8	94.8	94.8	94.7	94.5	94.3	94.2	94.0	93.8
107.5°	115.5	115.9	116.3	116.8	117.3	117.4	117.3	117.3	117.2	117.1	117.1
110°	131.5	131.8	132.1	132.3	132.6	132.8	132.8	132.8	132.8	132.8	132.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	146.9	147.1	147.3	147.5	147.7	148.0	148.2	148.5	148.6	148.8	148.9
115°	170.8	171.1	171.4	171.6	171.9	172.1	172.2	172.3	172.4	172.5	172.7
117.5°	193.6	193.9	194.2	194.4	194.7	195.0	195.2	195.5	195.7	196.0	196.4
120°	209.7	210.0	210.3	210.6	210.8	210.9	210.9	210.9	210.9	210.9	211.7
122.5°	225.4	225.6	225.8	226.0	226.2	226.4	226.7	226.9	227.2	227.3	227.9
125°	249.4	249.5	249.6	249.7	249.8	250.0	250.2	250.5	250.8	251.1	251.4
127.5°	271.3	271.5	271.8	272.1	272.5	272.8	273.1	273.4	273.8	274.2	274.5
130°	287.0	287.4	287.8	288.1	288.5	288.8	289.0	289.2	289.4	289.5	289.7
132.5°	302.0	302.3	302.6	302.9	303.2	303.6	304.0	304.4	304.8	305.2	305.2
135°	325.4	325.6	325.9	326.2	326.5	326.7	326.8	326.9	327.0	327.1	326.9
137.5°	346.6	346.9	347.3	347.7	348.1	348.4	348.4	348.5	348.6	348.6	348.4
140°	361.3	361.7	362.0	362.4	362.8	363.0	363.0	363.0	363.0	363.0	362.5
142.5°	374.6	374.9	375.3	375.7	376.1	376.3	376.2	376.1	376.1	376.0	375.6
145°	394.5	394.9	395.3	395.7	396.1	396.2	396.2	396.1	396.0	395.9	395.3
147.5°	412.5	412.7	413.1	413.5	413.9	414.0	413.8	413.5	413.3	413.1	412.7
150°	424.0	424.3	424.6	424.9	425.2	425.2	424.9	424.6	424.3	424.0	423.7
152.5°	435.0	435.4	435.6	436.0	436.4	436.4	436.0	435.6	435.4	435.0	434.5
155°	449.7	450.0	450.3	450.5	450.8	450.7	450.3	449.8	449.3	448.8	448.6
157.5°	462.3	462.8	463.2	463.6	464.1	464.0	463.4	462.7	462.1	461.5	461.3
160°	470.1	470.5	470.9	471.3	471.6	471.6	471.0	470.4	469.9	469.3	469.2
162.5°	477.0	477.4	477.9	478.3	478.8	478.7	478.1	477.4	476.7	476.2	476.1
165°	486.0	486.4	486.9	487.4	487.9	487.8	487.1	486.4	485.8	485.1	485.1
167.5°	493.3	493.8	494.3	494.7	495.3	495.2	494.6	493.9	493.2	492.6	492.6
170°	497.1	497.7	498.2	498.8	499.4	499.3	498.6	497.9	497.3	496.6	496.7
172.5°	500.1	500.7	501.2	501.8	502.4	502.4	501.7	501.1	500.4	499.7	499.8
175°	503.5	504.1	504.6	505.2	505.8	505.7	505.0	504.4	503.7	503.0	503.2
177.5°	505.0	505.5	506.0	506.3	506.8	506.8	506.3	506.0	505.5	505.0	505.1
180°	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4
2.5°	1928.6	1924.0	1921.1	1910.7	1901.4	1892.2	1889.3	1890.5	1877.7	1865.6	1860.4
5°	2003.8	1989.2	1975.6	1956.1	1933.0	1907.6	1894.6	1884.5	1859.3	1831.8	1815.9
7.5°	2071.0	2050.4	2023.9	1987.3	1953.6	1913.8	1888.6	1866.1	1829.2	1790.5	1766.8
10°	2112.0	2083.9	2049.9	2005.2	1964.0	1915.6	1881.6	1847.7	1804.3	1758.1	1729.2
12.5°	2147.3	2109.3	2075.9	2018.5	1969.7	1909.2	1869.0	1821.1	1775.5	1720.5	1692.2
15°	2231.3	2161.2	2097.6	2032.6	1972.6	1888.1	1843.3	1779.0	1719.1	1651.2	1618.7
17.5°	2296.1	2217.3	2117.2	2034.7	1964.7	1871.1	1805.3	1728.3	1657.5	1579.9	1535.7
20°	2333.1	2242.8	2135.1	2036.9	1953.1	1846.3	1774.7	1696.0	1613.0	1525.5	1477.9
22.5°	2355.0	2260.1	2153.7	2028.3	1930.0	1826.0	1736.0	1649.7	1565.6	1471.2	1421.3
25°	2362.0	2275.3	2162.7	2021.1	1901.1	1783.4	1675.1	1591.3	1489.4	1401.3	1328.3
27.5°	2327.6	2265.5	2157.1	2007.4	1867.7	1730.1	1609.3	1514.4	1406.9	1311.3	1237.9
30°	2285.4	2249.3	2143.8	1993.6	1841.2	1693.1	1560.2	1452.6	1345.7	1248.9	1173.7
32.5°	2220.2	2212.3	2119.6	1974.0	1812.9	1646.3	1508.8	1400.0	1281.6	1186.5	1114.8
35°	2091.9	2126.5	2068.0	1930.0	1759.5	1579.7	1430.9	1306.6	1183.9	1092.9	1025.7
37.5°	1920.0	2006.0	1990.7	1865.8	1687.6	1507.2	1342.9	1213.1	1096.1	1004.2	938.3
40°	1801.5	1911.3	1927.1	1816.7	1636.8	1451.1	1277.1	1147.7	1033.6	949.9	883.4
42.5°	1674.3	1802.6	1846.3	1757.7	1581.3	1392.2	1218.1	1084.2	971.2	889.8	830.9
45°	1461.2	1631.0	1709.8	1659.2	1488.7	1295.1	1116.0	980.1	877.6	801.1	755.5
47.5°	1262.1	1447.6	1553.4	1535.5	1385.7	1194.0	1016.9	886.6	786.7	725.7	684.9
50°	1121.1	1311.7	1439.5	1445.4	1311.7	1121.7	944.1	821.2	729.5	672.5	639.2
52.5°	998.5	1180.5	1319.9	1350.6	1229.1	1046.6	878.7	756.6	675.8	623.4	593.6
55°	838.6	992.5	1147.1	1203.3	1105.9	932.6	777.2	669.6	593.7	557.6	531.6
57.5°	697.2	825.5	968.2	1030.5	970.3	822.0	676.4	582.9	521.4	489.7	469.8
60°	622.6	723.8	850.9	925.3	873.3	741.1	614.0	525.1	474.6	446.4	427.6
62.5°	553.3	642.9	750.4	818.4	790.0	665.4	551.6	473.2	429.5	403.0	389.5
65°	456.5	527.3	610.4	673.2	654.4	559.8	466.7	399.4	364.8	343.8	333.0
67.5°	375.9	427.1	484.7	539.7	524.5	457.5	382.7	330.4	304.5	286.4	279.9
70°	325.1	364.0	415.4	459.4	447.1	392.2	333.0	288.2	265.8	250.6	244.1
72.5°	276.5	308.6	347.7	383.7	375.4	329.8	280.4	246.6	229.4	215.4	210.1
75°	208.8	233.3	257.1	281.0	278.8	243.5	214.5	188.5	174.8	164.0	161.8
77.5°	154.1	167.9	184.1	198.2	194.3	174.1	151.4	136.5	126.4	119.1	118.0
80°	117.7	125.6	137.2	147.3	142.3	133.7	115.6	104.7	97.6	90.3	87.4
82.5°	85.4	93.3	100.3	105.8	101.9	93.8	82.7	75.3	71.0	66.0	64.8
85°	44.8	49.1	52.0	53.4	52.0	46.9	41.8	39.0	35.4	33.3	32.5
87.5°	19.5	19.0	18.7	19.5	17.5	17.3	14.8	12.8	12.4	12.1	11.2
90°	10.7	8.7	6.6	5.0	3.9	2.7	1.6	0.5	1.6	2.7	3.9
92.5°	12.6	12.1	11.6	10.9	10.1	9.2	8.5	7.6	8.5	9.2	10.1
95°	27.0	26.8	26.6	26.0	25.1	24.1	23.2	22.2	23.2	24.1	25.1
97.5°	45.2	44.9	44.5	43.9	43.1	42.2	41.4	40.5	41.4	42.2	43.1
100°	58.3	58.1	57.8	57.3	56.6	55.7	55.0	54.2	55.0	55.7	56.6
102.5°	72.2	71.8	71.5	71.0	70.4	69.7	69.2	68.6	69.2	69.7	70.4
105°	93.6	93.4	93.2	92.9	92.7	92.4	92.1	91.8	92.1	92.4	92.7
107.5°	117.1	117.1	117.1	116.9	116.5	116.0	115.6	115.2	115.6	116.0	116.5
110°	132.8	132.8	132.8	132.5	132.0	131.4	130.8	130.3	130.8	131.4	132.0



TEST NUMBER: P331586-830

CATALOG NUMBER: S122DIW-S1005D435U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	149.0	149.1	149.2	148.9	148.4	147.8	147.2	146.7	147.2	147.8	148.4
115°	172.9	173.1	173.2	173.1	172.5	171.9	171.4	170.8	171.4	171.9	172.5
117.5°	197.0	197.6	198.0	197.9	197.2	196.4	195.7	194.9	195.7	196.4	197.2
120°	212.4	213.2	214.0	214.0	213.2	212.4	211.7	210.9	211.7	212.4	213.2
122.5°	228.4	228.9	229.5	229.3	228.4	227.4	226.6	225.6	226.6	227.4	228.4
125°	251.7	251.9	252.2	251.9	251.1	250.2	249.4	248.5	249.4	250.2	251.1
127.5°	274.8	275.2	275.5	275.1	274.1	273.0	271.9	270.8	271.9	273.0	274.1
130°	289.9	290.1	290.3	289.7	288.5	287.3	286.1	284.8	286.1	287.3	288.5
132.5°	305.2	305.1	305.1	304.5	303.6	302.6	301.5	300.6	301.5	302.6	303.6
135°	326.7	326.5	326.3	325.7	324.7	323.7	322.6	321.6	322.6	323.7	324.7
137.5°	348.2	347.9	347.6	347.0	346.2	345.3	344.5	343.7	344.5	345.3	346.2
140°	362.0	361.6	361.1	360.4	359.6	358.7	357.9	357.0	357.9	358.7	359.6
142.5°	375.3	374.9	374.7	374.1	373.2	372.4	371.6	370.7	371.6	372.4	373.2
145°	394.7	394.2	393.6	392.9	392.3	391.6	391.0	390.3	391.0	391.6	392.3
147.5°	412.4	412.0	411.6	411.0	410.2	409.4	408.6	407.8	408.6	409.4	410.2
150°	423.3	422.9	422.5	422.1	421.5	420.9	420.4	419.8	420.4	420.9	421.5
152.5°	434.0	433.6	433.2	432.6	432.1	431.5	430.9	430.4	430.9	431.5	432.1
155°	448.3	448.0	447.7	447.4	447.1	446.8	446.5	446.2	446.5	446.8	447.1
157.5°	461.1	460.9	460.7	460.6	460.4	460.2	460.1	459.9	460.1	460.2	460.4
160°	469.1	469.0	468.9	468.8	468.6	468.4	468.3	468.1	468.3	468.4	468.6
162.5°	476.0	475.9	475.8	475.7	475.6	475.6	475.6	475.5	475.6	475.6	475.6
165°	485.1	485.1	485.1	485.1	485.2	485.3	485.4	485.5	485.4	485.3	485.2
167.5°	492.6	492.6	492.6	492.8	493.0	493.3	493.6	493.9	493.6	493.3	493.0
170°	496.8	496.9	497.0	497.2	497.5	497.8	498.0	498.3	498.0	497.8	497.5
172.5°	499.9	500.0	500.1	500.3	500.6	500.9	501.1	501.4	501.1	500.9	500.6
175°	503.4	503.6	503.8	504.1	504.4	504.6	504.9	505.2	504.9	504.6	504.4
177.5°	505.3	505.5	505.6	505.8	506.1	506.2	506.5	506.7	506.5	506.2	506.1
180°	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1



TEST NUMBER: P331586-830

CATALOG NUMBER: S122DIW-S1005D435U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4
2.5°	1854.6	1851.2	1839.0	1832.7	1822.3	1812.4	1806.1	1809.0	1811.3	1810.2	1808.4
5°	1801.5	1787.7	1766.8	1748.7	1735.7	1711.9	1701.8	1696.8	1692.4	1687.3	1682.2
7.5°	1738.1	1716.6	1686.5	1660.8	1636.4	1606.8	1590.0	1579.9	1569.4	1558.0	1547.9
10°	1693.1	1662.7	1631.0	1594.9	1566.0	1539.3	1515.4	1499.5	1485.1	1471.4	1461.2
12.5°	1645.8	1610.8	1571.5	1522.1	1490.3	1452.0	1448.4	1420.4	1397.8	1389.3	1377.4
15°	1570.3	1521.2	1471.4	1412.9	1387.6	1352.9	1331.2	1309.6	1290.1	1276.3	1272.7
17.5°	1484.7	1421.1	1371.5	1329.5	1288.1	1252.5	1232.6	1215.2	1199.2	1180.8	1178.4
20°	1419.4	1364.4	1310.3	1273.5	1230.9	1194.7	1170.2	1152.8	1139.1	1128.2	1118.9
22.5°	1357.5	1297.4	1247.8	1207.6	1165.5	1136.3	1117.0	1100.2	1088.8	1076.9	1068.0
25°	1258.3	1211.4	1157.2	1111.6	1076.9	1058.2	1042.3	1027.8	1020.7	1012.7	1002.6
27.5°	1171.5	1119.3	1068.6	1033.3	1002.9	986.3	975.0	965.2	958.4	953.8	948.0
30°	1110.2	1057.4	1017.8	983.1	957.8	941.2	934.0	928.2	920.2	917.4	914.5
32.5°	1051.2	1003.7	969.8	939.7	915.6	904.7	898.1	893.0	886.7	883.8	878.1
35°	967.9	928.2	894.9	878.4	858.8	849.4	844.4	837.2	831.4	828.5	827.7
37.5°	889.5	855.0	833.1	811.7	803.5	797.8	790.8	785.9	784.2	783.7	783.0
40°	838.6	810.4	791.0	773.6	770.0	761.3	755.5	751.2	751.2	752.0	751.2
42.5°	792.4	767.1	749.9	734.9	730.7	725.5	719.7	719.4	720.6	723.0	720.6
45°	722.4	704.3	692.0	684.8	676.8	671.8	671.0	673.2	673.9	674.7	676.8
47.5°	657.9	645.9	634.8	626.8	623.4	622.5	621.6	625.4	628.9	630.2	633.5
50°	619.7	606.1	596.6	591.5	588.7	587.2	588.7	593.0	595.9	599.6	601.7
52.5°	577.0	567.3	560.8	556.9	555.7	556.7	556.9	561.8	566.5	567.8	568.7
55°	517.9	510.7	509.3	502.8	505.6	504.9	508.5	511.4	515.8	520.1	520.8
57.5°	458.9	453.2	449.3	449.9	450.7	453.9	456.9	462.0	466.7	471.3	471.6
60°	419.7	416.8	414.6	414.6	416.0	420.4	424.0	429.0	432.0	434.8	437.0
62.5°	383.8	381.0	378.8	379.9	383.7	386.3	390.5	393.2	396.2	399.0	400.0
65°	327.3	325.7	327.9	329.4	330.1	333.8	338.7	340.9	343.8	345.3	350.3
67.5°	275.0	275.3	275.0	277.1	281.3	282.1	286.9	292.0	292.6	295.3	298.6
70°	239.8	241.3	242.7	244.1	247.8	249.2	252.8	255.0	257.9	260.0	262.2
72.5°	207.5	207.7	209.2	208.9	211.9	215.1	218.1	220.3	223.2	225.9	228.1
75°	159.7	159.7	161.1	161.8	165.4	169.0	168.3	169.8	172.7	175.5	177.0
77.5°	116.6	115.0	116.6	117.3	118.5	121.5	122.1	124.1	127.4	126.4	128.0
80°	88.9	86.7	88.9	89.5	89.5	93.2	93.2	94.6	96.8	94.6	96.8
82.5°	63.4	62.4	64.0	64.2	65.3	65.4	66.6	66.9	69.1	68.1	69.1
85°	31.8	31.1	31.8	31.1	31.8	32.5	32.5	31.8	31.8	33.3	31.1
87.5°	10.8	10.6	10.4	10.8	10.7	10.5	9.9	9.8	9.8	8.6	8.6
90°	5.0	6.6	8.7	10.7	12.8	15.0	14.8	14.6	14.4	14.2	14.1
92.5°	10.9	11.6	12.1	12.6	13.1	13.6	13.6	13.7	13.7	13.8	13.8
95°	26.0	26.6	26.8	27.0	27.1	27.3	27.3	27.3	27.3	27.3	27.2
97.5°	43.9	44.5	44.9	45.2	45.6	45.9	45.9	45.9	45.9	45.9	45.9
100°	57.3	57.8	58.1	58.3	58.6	58.9	58.9	58.9	58.9	58.9	58.9
102.5°	71.0	71.5	71.8	72.2	72.6	73.0	73.0	73.0	73.1	73.2	73.2
105°	92.9	93.2	93.4	93.6	93.8	94.0	94.2	94.3	94.5	94.7	94.8
107.5°	116.9	117.1	117.1	117.1	117.1	117.1	117.2	117.3	117.3	117.4	117.3
110°	132.5	132.8	132.8	132.8	132.8	132.8	132.8	132.8	132.8	132.8	132.6



TEST NUMBER: P331586-830

CATALOG NUMBER: S122DIW-S1005D435U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	148.9	149.2	149.1	149.0	148.9	148.8	148.6	148.5	148.2	148.0	147.7
115°	173.1	173.2	173.1	172.9	172.7	172.5	172.4	172.3	172.2	172.1	171.9
117.5°	197.9	198.0	197.6	197.0	196.4	196.0	195.7	195.5	195.2	195.0	194.7
120°	214.0	214.0	213.2	212.4	211.7	210.9	210.9	210.9	210.9	210.9	210.8
122.5°	229.3	229.5	228.9	228.4	227.9	227.3	227.2	226.9	226.7	226.4	226.2
125°	251.9	252.2	251.9	251.7	251.4	251.1	250.8	250.5	250.2	250.0	249.8
127.5°	275.1	275.5	275.2	274.8	274.5	274.2	273.8	273.4	273.1	272.8	272.5
130°	289.7	290.3	290.1	289.9	289.7	289.5	289.4	289.2	289.0	288.8	288.5
132.5°	304.5	305.1	305.1	305.2	305.2	305.2	304.8	304.4	304.0	303.6	303.2
135°	325.7	326.3	326.5	326.7	326.9	327.1	327.0	326.9	326.8	326.7	326.5
137.5°	347.0	347.6	347.9	348.2	348.4	348.6	348.6	348.5	348.4	348.4	348.1
140°	360.4	361.1	361.6	362.0	362.5	363.0	363.0	363.0	363.0	363.0	362.8
142.5°	374.1	374.7	374.9	375.3	375.6	376.0	376.1	376.1	376.2	376.3	376.1
145°	392.9	393.6	394.2	394.7	395.3	395.9	396.0	396.1	396.2	396.2	396.1
147.5°	411.0	411.6	412.0	412.4	412.7	413.1	413.3	413.5	413.8	414.0	413.9
150°	422.1	422.5	422.9	423.3	423.7	424.0	424.3	424.6	424.9	425.2	425.2
152.5°	432.6	433.2	433.6	434.0	434.5	435.0	435.4	435.6	436.0	436.4	436.4
155°	447.4	447.7	448.0	448.3	448.6	448.8	449.3	449.8	450.3	450.7	450.8
157.5°	460.6	460.7	460.9	461.1	461.3	461.5	462.1	462.7	463.4	464.0	464.1
160°	468.8	468.9	469.0	469.1	469.2	469.3	469.9	470.4	471.0	471.6	471.6
162.5°	475.7	475.8	475.9	476.0	476.1	476.2	476.7	477.4	478.1	478.7	478.8
165°	485.1	485.1	485.1	485.1	485.1	485.1	485.8	486.4	487.1	487.8	487.9
167.5°	492.8	492.6	492.6	492.6	492.6	492.6	493.2	493.9	494.6	495.2	495.3
170°	497.2	497.0	496.9	496.8	496.7	496.6	497.3	497.9	498.6	499.3	499.4
172.5°	500.3	500.1	500.0	499.9	499.8	499.7	500.4	501.1	501.7	502.4	502.4
175°	504.1	503.8	503.6	503.4	503.2	503.0	503.7	504.4	505.0	505.7	505.8
177.5°	505.8	505.6	505.5	505.3	505.1	505.0	505.5	506.0	506.3	506.8	506.8
180°	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1



TEST NUMBER: P331586-830

CATALOG NUMBER: S122DIW-S1005D435U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4
2.5°	1802.6	1801.5	1801.5	1796.3	1801.5	1801.5	1802.6	1808.4	1810.2	1811.3	1809.0
5°	1672.2	1670.0	1666.4	1670.0	1666.4	1670.0	1672.2	1682.2	1687.3	1692.4	1696.8
7.5°	1543.1	1534.5	1533.2	1524.7	1533.2	1534.5	1543.1	1547.9	1558.0	1569.4	1579.9
10°	1449.0	1443.2	1442.5	1428.7	1442.5	1443.2	1449.0	1461.2	1471.4	1485.1	1499.5
12.5°	1377.3	1363.5	1366.2	1358.2	1366.2	1363.5	1377.3	1377.4	1389.3	1397.8	1420.4
15°	1253.2	1253.2	1250.4	1238.0	1250.4	1253.2	1253.2	1272.7	1276.3	1290.1	1309.6
17.5°	1164.1	1162.6	1155.7	1159.1	1155.7	1162.6	1164.1	1178.4	1180.8	1199.2	1215.2
20°	1110.9	1106.6	1098.0	1098.0	1098.0	1106.6	1110.9	1118.9	1128.2	1139.1	1152.8
22.5°	1060.6	1060.4	1051.1	1054.0	1051.1	1060.4	1060.6	1068.0	1076.9	1088.8	1100.2
25°	1001.8	996.1	991.7	993.9	991.7	996.1	1001.8	1002.6	1012.7	1020.7	1027.8
27.5°	946.1	942.9	942.6	936.7	942.6	942.9	946.1	948.0	953.8	958.4	965.2
30°	913.7	906.5	908.0	904.4	908.0	906.5	913.7	914.5	917.4	920.2	928.2
32.5°	876.8	874.1	872.7	869.7	872.7	874.1	876.8	878.1	883.8	886.7	893.0
35°	826.3	827.1	823.4	824.9	823.4	827.1	826.3	827.7	828.5	831.4	837.2
37.5°	782.3	784.6	782.9	783.3	782.9	784.6	782.3	783.0	783.7	784.2	785.9
40°	753.4	753.4	753.4	755.5	753.4	753.4	753.4	751.2	752.0	751.2	751.2
42.5°	725.7	724.5	723.3	723.2	723.3	724.5	725.7	720.6	723.0	720.6	719.4
45°	678.3	680.4	681.2	677.5	681.2	680.4	678.3	676.8	674.7	673.9	673.2
47.5°	635.4	635.7	635.4	638.6	635.4	635.7	635.4	633.5	630.2	628.9	625.4
50°	605.3	603.9	605.3	603.9	605.3	603.9	605.3	601.7	599.6	595.9	593.0
52.5°	573.5	573.8	573.0	572.7	573.0	573.8	573.5	568.7	567.8	566.5	561.8
55°	523.7	525.1	524.4	524.4	524.4	525.1	523.7	520.8	520.1	515.8	511.4
57.5°	472.1	473.4	474.4	471.3	474.4	473.4	472.1	471.6	471.3	466.7	462.0
60°	436.3	439.9	439.1	437.7	439.1	439.9	436.3	437.0	434.8	432.0	429.0
62.5°	403.3	404.6	404.5	404.3	404.5	404.6	403.3	400.0	399.0	396.2	393.2
65°	352.5	353.9	351.8	353.9	351.8	353.9	352.5	350.3	345.3	343.8	340.9
67.5°	297.7	298.2	299.7	300.8	299.7	298.2	297.7	298.6	295.3	292.6	292.0
70°	263.6	263.0	265.1	267.3	265.1	263.0	263.6	262.2	260.0	257.9	255.0
72.5°	227.8	229.4	228.7	230.3	228.7	229.4	227.8	228.1	225.9	223.2	220.3
75°	175.5	177.7	177.0	179.2	177.0	177.7	175.5	177.0	175.5	172.7	169.8
77.5°	126.9	127.1	126.9	128.0	126.9	127.1	126.9	128.0	126.4	127.4	124.1
80°	96.8	95.4	93.9	96.8	93.9	95.4	96.8	96.8	94.6	96.8	94.6
82.5°	67.3	68.1	66.7	66.7	66.7	68.1	67.3	69.1	68.1	69.1	66.9
85°	31.1	30.3	28.9	28.9	28.9	30.3	31.1	31.1	33.3	31.8	31.8
87.5°	8.7	8.1	8.1	7.5	8.1	8.1	8.7	8.6	8.6	9.8	9.8
90°	14.2	14.3	14.4	14.5	14.4	14.3	14.2	14.1	14.2	14.4	14.6
92.5°	13.8	13.8	13.9	13.9	13.9	13.8	13.8	13.8	13.8	13.7	13.7
95°	27.1	26.9	26.7	26.5	26.7	26.9	27.1	27.2	27.3	27.3	27.3
97.5°	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
100°	58.8	58.7	58.6	58.5	58.6	58.7	58.8	58.9	58.9	58.9	58.9
102.5°	73.1	73.0	73.0	72.9	73.0	73.0	73.1	73.2	73.2	73.1	73.0
105°	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.7	94.5	94.3
107.5°	116.8	116.3	115.9	115.5	115.9	116.3	116.8	117.3	117.4	117.3	117.3
110°	132.3	132.1	131.8	131.5	131.8	132.1	132.3	132.6	132.8	132.8	132.8



TEST NUMBER: P331586-830

CATALOG NUMBER: S122DIW-S1005D435U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	147.5	147.3	147.1	146.9	147.1	147.3	147.5	147.7	148.0	148.2	148.5
115°	171.6	171.4	171.1	170.8	171.1	171.4	171.6	171.9	172.1	172.2	172.3
117.5°	194.4	194.2	193.9	193.6	193.9	194.2	194.4	194.7	195.0	195.2	195.5
120°	210.6	210.3	210.0	209.7	210.0	210.3	210.6	210.8	210.9	210.9	210.9
122.5°	226.0	225.8	225.6	225.4	225.6	225.8	226.0	226.2	226.4	226.7	226.9
125°	249.7	249.6	249.5	249.4	249.5	249.6	249.7	249.8	250.0	250.2	250.5
127.5°	272.1	271.8	271.5	271.3	271.5	271.8	272.1	272.5	272.8	273.1	273.4
130°	288.1	287.8	287.4	287.0	287.4	287.8	288.1	288.5	288.8	289.0	289.2
132.5°	302.9	302.6	302.3	302.0	302.3	302.6	302.9	303.2	303.6	304.0	304.4
135°	326.2	325.9	325.6	325.4	325.6	325.9	326.2	326.5	326.7	326.8	326.9
137.5°	347.7	347.3	346.9	346.6	346.9	347.3	347.7	348.1	348.4	348.4	348.5
140°	362.4	362.0	361.7	361.3	361.7	362.0	362.4	362.8	363.0	363.0	363.0
142.5°	375.7	375.3	374.9	374.6	374.9	375.3	375.7	376.1	376.3	376.2	376.1
145°	395.7	395.3	394.9	394.5	394.9	395.3	395.7	396.1	396.2	396.2	396.1
147.5°	413.5	413.1	412.7	412.5	412.7	413.1	413.5	413.9	414.0	413.8	413.5
150°	424.9	424.6	424.3	424.0	424.3	424.6	424.9	425.2	425.2	424.9	424.6
152.5°	436.0	435.6	435.4	435.0	435.4	435.6	436.0	436.4	436.4	436.0	435.6
155°	450.5	450.3	450.0	449.7	450.0	450.3	450.5	450.8	450.7	450.3	449.8
157.5°	463.6	463.2	462.8	462.3	462.8	463.2	463.6	464.1	464.0	463.4	462.7
160°	471.3	470.9	470.5	470.1	470.5	470.9	471.3	471.6	471.6	471.0	470.4
162.5°	478.3	477.9	477.4	477.0	477.4	477.9	478.3	478.8	478.7	478.1	477.4
165°	487.4	486.9	486.4	486.0	486.4	486.9	487.4	487.9	487.8	487.1	486.4
167.5°	494.7	494.3	493.8	493.3	493.8	494.3	494.7	495.3	495.2	494.6	493.9
170°	498.8	498.2	497.7	497.1	497.7	498.2	498.8	499.4	499.3	498.6	497.9
172.5°	501.8	501.2	500.7	500.1	500.7	501.2	501.8	502.4	502.4	501.7	501.1
175°	505.2	504.6	504.1	503.5	504.1	504.6	505.2	505.8	505.7	505.0	504.4
177.5°	506.3	506.0	505.5	505.0	505.5	506.0	506.3	506.8	506.8	506.3	506.0
180°	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1



TEST NUMBER: P331586-830

CATALOG NUMBER: S122DIW-S1005D435U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4
2.5°	1806.1	1812.4	1822.3	1832.7	1839.0	1851.2	1854.6	1860.4	1865.6	1877.7	1890.5
5°	1701.8	1711.9	1735.7	1748.7	1766.8	1787.7	1801.5	1815.9	1831.8	1859.3	1884.5
7.5°	1590.0	1606.8	1636.4	1660.8	1686.5	1716.6	1738.1	1766.8	1790.5	1829.2	1866.1
10°	1515.4	1539.3	1566.0	1594.9	1631.0	1662.7	1693.1	1729.2	1758.1	1804.3	1847.7
12.5°	1448.4	1452.0	1490.3	1522.1	1571.5	1610.8	1645.8	1692.2	1720.5	1775.5	1821.1
15°	1331.2	1352.9	1387.6	1412.9	1471.4	1521.2	1570.3	1618.7	1651.2	1719.1	1779.0
17.5°	1232.6	1252.5	1288.1	1329.5	1371.5	1421.1	1484.7	1535.7	1579.9	1657.5	1728.3
20°	1170.2	1194.7	1230.9	1273.5	1310.3	1364.4	1419.4	1477.9	1525.5	1613.0	1696.0
22.5°	1117.0	1136.3	1165.5	1207.6	1247.8	1297.4	1357.5	1421.3	1471.2	1565.6	1649.7
25°	1042.3	1058.2	1076.9	1111.6	1157.2	1211.4	1258.3	1328.3	1401.3	1489.4	1591.3
27.5°	975.0	986.3	1002.9	1033.3	1068.6	1119.3	1171.5	1237.9	1311.3	1406.9	1514.4
30°	934.0	941.2	957.8	983.1	1017.8	1057.4	1110.2	1173.7	1248.9	1345.7	1452.6
32.5°	898.1	904.7	915.6	939.7	969.8	1003.7	1051.2	1114.8	1186.5	1281.6	1400.0
35°	844.4	849.4	858.8	878.4	894.9	928.2	967.9	1025.7	1092.9	1183.9	1306.6
37.5°	790.8	797.8	803.5	811.7	833.1	855.0	889.5	938.3	1004.2	1096.1	1213.1
40°	755.5	761.3	770.0	773.6	791.0	810.4	838.6	883.4	949.9	1033.6	1147.7
42.5°	719.7	725.5	730.7	734.9	749.9	767.1	792.4	830.9	889.8	971.2	1084.2
45°	671.0	671.8	676.8	684.8	692.0	704.3	722.4	755.5	801.1	877.6	980.1
47.5°	621.6	622.5	623.4	626.8	634.8	645.9	657.9	684.9	725.7	786.7	886.6
50°	588.7	587.2	588.7	591.5	596.6	606.1	619.7	639.2	672.5	729.5	821.2
52.5°	556.9	556.7	555.7	556.9	560.8	567.3	577.0	593.6	623.4	675.8	756.6
55°	508.5	504.9	505.6	502.8	509.3	510.7	517.9	531.6	557.6	593.7	669.6
57.5°	456.9	453.9	450.7	449.9	449.3	453.2	458.9	469.8	489.7	521.4	582.9
60°	424.0	420.4	416.0	414.6	414.6	416.8	419.7	427.6	446.4	474.6	525.1
62.5°	390.5	386.3	383.7	379.9	378.8	381.0	383.8	389.5	403.0	429.5	473.2
65°	338.7	333.8	330.1	329.4	327.9	325.7	327.3	333.0	343.8	364.8	399.4
67.5°	286.9	282.1	281.3	277.1	275.0	275.3	275.0	279.9	286.4	304.5	330.4
70°	252.8	249.2	247.8	244.1	242.7	241.3	239.8	244.1	250.6	265.8	288.2
72.5°	218.1	215.1	211.9	208.9	209.2	207.7	207.5	210.1	215.4	229.4	246.6
75°	168.3	169.0	165.4	161.8	161.1	159.7	159.7	161.8	164.0	174.8	188.5
77.5°	122.1	121.5	118.5	117.3	116.6	115.0	116.6	118.0	119.1	126.4	136.5
80°	93.2	93.2	89.5	89.5	88.9	86.7	88.9	87.4	90.3	97.6	104.7
82.5°	66.6	65.4	65.3	64.2	64.0	62.4	63.4	64.8	66.0	71.0	75.3
85°	32.5	32.5	31.8	31.1	31.8	31.1	31.8	32.5	33.3	35.4	39.0
87.5°	9.9	10.5	10.7	10.8	10.4	10.6	10.8	11.2	12.1	12.4	12.8
90°	14.8	15.0	12.8	10.7	8.7	6.6	5.0	3.9	2.7	1.6	0.5
92.5°	13.6	13.6	13.1	12.6	12.1	11.6	10.9	10.1	9.2	8.5	7.6
95°	27.3	27.3	27.1	27.0	26.8	26.6	26.0	25.1	24.1	23.2	22.2
97.5°	45.9	45.9	45.6	45.2	44.9	44.5	43.9	43.1	42.2	41.4	40.5
100°	58.9	58.9	58.6	58.3	58.1	57.8	57.3	56.6	55.7	55.0	54.2
102.5°	73.0	73.0	72.6	72.2	71.8	71.5	71.0	70.4	69.7	69.2	68.6
105°	94.2	94.0	93.8	93.6	93.4	93.2	92.9	92.7	92.4	92.1	91.8
107.5°	117.2	117.1	117.1	117.1	117.1	117.1	116.9	116.5	116.0	115.6	115.2
110°	132.8	132.8	132.8	132.8	132.8	132.8	132.5	132.0	131.4	130.8	130.3



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	148.6	148.8	148.9	149.0	149.1	149.2	148.9	148.4	147.8	147.2	146.7
115°	172.4	172.5	172.7	172.9	173.1	173.2	173.1	172.5	171.9	171.4	170.8
117.5°	195.7	196.0	196.4	197.0	197.6	198.0	197.9	197.2	196.4	195.7	194.9
120°	210.9	210.9	211.7	212.4	213.2	214.0	214.0	213.2	212.4	211.7	210.9
122.5°	227.2	227.3	227.9	228.4	228.9	229.5	229.3	228.4	227.4	226.6	225.6
125°	250.8	251.1	251.4	251.7	251.9	252.2	251.9	251.1	250.2	249.4	248.5
127.5°	273.8	274.2	274.5	274.8	275.2	275.5	275.1	274.1	273.0	271.9	270.8
130°	289.4	289.5	289.7	289.9	290.1	290.3	289.7	288.5	287.3	286.1	284.8
132.5°	304.8	305.2	305.2	305.2	305.1	305.1	304.5	303.6	302.6	301.5	300.6
135°	327.0	327.1	326.9	326.7	326.5	326.3	325.7	324.7	323.7	322.6	321.6
137.5°	348.6	348.6	348.4	348.2	347.9	347.6	347.0	346.2	345.3	344.5	343.7
140°	363.0	363.0	362.5	362.0	361.6	361.1	360.4	359.6	358.7	357.9	357.0
142.5°	376.1	376.0	375.6	375.3	374.9	374.7	374.1	373.2	372.4	371.6	370.7
145°	396.0	395.9	395.3	394.7	394.2	393.6	392.9	392.3	391.6	391.0	390.3
147.5°	413.3	413.1	412.7	412.4	412.0	411.6	411.0	410.2	409.4	408.6	407.8
150°	424.3	424.0	423.7	423.3	422.9	422.5	422.1	421.5	420.9	420.4	419.8
152.5°	435.4	435.0	434.5	434.0	433.6	433.2	432.6	432.1	431.5	430.9	430.4
155°	449.3	448.8	448.6	448.3	448.0	447.7	447.4	447.1	446.8	446.5	446.2
157.5°	462.1	461.5	461.3	461.1	460.9	460.7	460.6	460.4	460.2	460.1	459.9
160°	469.9	469.3	469.2	469.1	469.0	468.9	468.8	468.6	468.4	468.3	468.1
162.5°	476.7	476.2	476.1	476.0	475.9	475.8	475.7	475.6	475.6	475.6	475.5
165°	485.8	485.1	485.1	485.1	485.1	485.1	485.1	485.2	485.3	485.4	485.5
167.5°	493.2	492.6	492.6	492.6	492.6	492.6	492.8	493.0	493.3	493.6	493.9
170°	497.3	496.6	496.7	496.8	496.9	497.0	497.2	497.5	497.8	498.0	498.3
172.5°	500.4	499.7	499.8	499.9	500.0	500.1	500.3	500.6	500.9	501.1	501.4
175°	503.7	503.0	503.2	503.4	503.6	503.8	504.1	504.4	504.6	504.9	505.2
177.5°	505.5	505.0	505.1	505.3	505.5	505.6	505.8	506.1	506.2	506.5	506.7
180°	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1



TEST NUMBER: P331586-830

CATALOG NUMBER: S122DIW-S1005D435U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4
2.5°	1889.3	1892.2	1901.4	1910.7	1921.1	1924.0	1928.6	1924.6	1923.4	1934.4	1942.5
5°	1894.6	1907.6	1933.0	1956.1	1975.6	1989.2	2003.8	2009.5	2020.3	2035.5	2054.3
7.5°	1888.6	1913.8	1953.6	1987.3	2023.9	2050.4	2071.0	2088.7	2110.1	2138.8	2170.1
10°	1881.6	1915.6	1964.0	2005.2	2049.9	2083.9	2112.0	2139.5	2171.3	2211.0	2252.2
12.5°	1869.0	1909.2	1969.7	2018.5	2075.9	2109.3	2147.3	2206.6	2240.6	2295.9	2353.9
15°	1843.3	1888.1	1972.6	2032.6	2097.6	2161.2	2231.3	2287.6	2343.9	2376.4	2458.1
17.5°	1805.3	1871.1	1964.7	2034.7	2117.2	2217.3	2296.1	2359.9	2425.0	2477.7	2518.6
20°	1774.7	1846.3	1953.1	2036.9	2135.1	2242.8	2333.1	2398.1	2454.5	2498.5	2523.8
22.5°	1736.0	1826.0	1930.0	2028.3	2153.7	2260.1	2355.0	2406.2	2453.2	2474.8	2484.4
25°	1675.1	1783.4	1901.1	2021.1	2162.7	2275.3	2362.0	2393.0	2406.8	2385.9	2351.2
27.5°	1609.3	1730.1	1867.7	2007.4	2157.1	2265.5	2327.6	2322.7	2299.4	2231.7	2177.5
30°	1560.2	1693.1	1841.2	1993.6	2143.8	2249.3	2285.4	2249.3	2196.6	2120.7	2043.4
32.5°	1508.8	1646.3	1812.9	1974.0	2119.6	2212.3	2220.2	2158.0	2076.4	1990.2	1893.8
35°	1430.9	1579.7	1759.5	1930.0	2068.0	2126.5	2091.9	1982.1	1885.3	1767.6	1636.1
37.5°	1342.9	1507.2	1687.6	1865.8	1990.7	2006.0	1920.0	1804.3	1667.8	1529.5	1374.7
40°	1277.1	1451.1	1636.8	1816.7	1927.1	1911.3	1801.5	1674.3	1511.8	1342.7	1199.0
42.5°	1218.1	1392.2	1581.3	1757.7	1846.3	1802.6	1674.3	1518.3	1343.7	1184.5	1052.8
45°	1116.0	1295.1	1488.7	1659.2	1709.8	1631.0	1461.2	1287.9	1116.0	983.1	879.1
47.5°	1016.9	1194.0	1385.7	1535.5	1553.4	1447.6	1262.1	1083.6	935.9	827.6	754.2
50°	944.1	1121.7	1311.7	1445.4	1439.5	1311.7	1121.1	951.3	827.7	740.4	691.3
52.5°	878.7	1046.6	1229.1	1350.6	1319.9	1180.5	998.5	847.8	746.3	678.0	633.5
55°	777.2	932.6	1105.9	1203.3	1147.1	992.5	838.6	717.3	642.2	590.9	556.2
57.5°	676.4	822.0	970.3	1030.5	968.2	825.5	697.2	609.2	552.7	514.7	492.2
60°	614.0	741.1	873.3	925.3	850.9	723.8	622.6	543.9	498.4	467.3	447.1
62.5°	551.6	665.4	790.0	818.4	750.4	642.9	553.3	487.9	450.4	422.8	403.8
65°	466.7	559.8	654.4	673.2	610.4	527.3	456.5	413.9	380.7	360.4	345.3
67.5°	382.7	457.5	524.5	539.7	484.7	427.1	375.9	338.7	316.2	299.4	286.6
70°	333.0	392.2	447.1	459.4	415.4	364.0	325.1	295.4	275.2	260.8	248.5
72.5°	280.4	329.8	375.4	383.7	347.7	308.6	276.5	253.3	235.4	226.1	214.4
75°	214.5	243.5	278.8	281.0	257.1	233.3	208.8	193.6	184.2	172.7	166.8
77.5°	151.4	174.1	194.3	198.2	184.1	167.9	154.1	142.1	134.2	128.8	123.5
80°	115.6	133.7	142.3	147.3	137.2	125.6	117.7	109.8	104.7	101.1	97.6
82.5°	82.7	93.8	101.9	105.8	100.3	93.3	85.4	80.9	77.0	74.0	72.7
85°	41.8	46.9	52.0	53.4	52.0	49.1	44.8	44.8	42.6	41.8	41.8
87.5°	14.8	17.3	17.5	19.5	18.7	19.0	19.5	19.3	19.1	18.6	17.9
90°	1.6	2.7	3.9	5.0	6.6	8.7	10.7	12.8	15.0	14.8	14.6
92.5°	8.5	9.2	10.1	10.9	11.6	12.1	12.6	13.1	13.6	13.6	13.7
95°	23.2	24.1	25.1	26.0	26.6	26.8	27.0	27.1	27.3	27.3	27.3
97.5°	41.4	42.2	43.1	43.9	44.5	44.9	45.2	45.6	45.9	45.9	45.9
100°	55.0	55.7	56.6	57.3	57.8	58.1	58.3	58.6	58.9	58.9	58.9
102.5°	69.2	69.7	70.4	71.0	71.5	71.8	72.2	72.6	73.0	73.0	73.0
105°	92.1	92.4	92.7	92.9	93.2	93.4	93.6	93.8	94.0	94.2	94.3
107.5°	115.6	116.0	116.5	116.9	117.1	117.1	117.1	117.1	117.1	117.2	117.3
110°	130.8	131.4	132.0	132.5	132.8	132.8	132.8	132.8	132.8	132.8	132.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	147.2	147.8	148.4	148.9	149.2	149.1	149.0	148.9	148.8	148.6	148.5
115°	171.4	171.9	172.5	173.1	173.2	173.1	172.9	172.7	172.5	172.4	172.3
117.5°	195.7	196.4	197.2	197.9	198.0	197.6	197.0	196.4	196.0	195.7	195.5
120°	211.7	212.4	213.2	214.0	214.0	213.2	212.4	211.7	210.9	210.9	210.9
122.5°	226.6	227.4	228.4	229.3	229.5	228.9	228.4	227.9	227.3	227.2	226.9
125°	249.4	250.2	251.1	251.9	252.2	251.9	251.7	251.4	251.1	250.8	250.5
127.5°	271.9	273.0	274.1	275.1	275.5	275.2	274.8	274.5	274.2	273.8	273.4
130°	286.1	287.3	288.5	289.7	290.3	290.1	289.9	289.7	289.5	289.4	289.2
132.5°	301.5	302.6	303.6	304.5	305.1	305.1	305.2	305.2	305.2	304.8	304.4
135°	322.6	323.7	324.7	325.7	326.3	326.5	326.7	326.9	327.1	327.0	326.9
137.5°	344.5	345.3	346.2	347.0	347.6	347.9	348.2	348.4	348.6	348.6	348.5
140°	357.9	358.7	359.6	360.4	361.1	361.6	362.0	362.5	363.0	363.0	363.0
142.5°	371.6	372.4	373.2	374.1	374.7	374.9	375.3	375.6	376.0	376.1	376.1
145°	391.0	391.6	392.3	392.9	393.6	394.2	394.7	395.3	395.9	396.0	396.1
147.5°	408.6	409.4	410.2	411.0	411.6	412.0	412.4	412.7	413.1	413.3	413.5
150°	420.4	420.9	421.5	422.1	422.5	422.9	423.3	423.7	424.0	424.3	424.6
152.5°	430.9	431.5	432.1	432.6	433.2	433.6	434.0	434.5	435.0	435.4	435.6
155°	446.5	446.8	447.1	447.4	447.7	448.0	448.3	448.6	448.8	449.3	449.8
157.5°	460.1	460.2	460.4	460.6	460.7	460.9	461.1	461.3	461.5	462.1	462.7
160°	468.3	468.4	468.6	468.8	468.9	469.0	469.1	469.2	469.3	469.9	470.4
162.5°	475.6	475.6	475.6	475.7	475.8	475.9	476.0	476.1	476.2	476.7	477.4
165°	485.4	485.3	485.2	485.1	485.1	485.1	485.1	485.1	485.1	485.8	486.4
167.5°	493.6	493.3	493.0	492.8	492.6	492.6	492.6	492.6	492.6	493.2	493.9
170°	498.0	497.8	497.5	497.2	497.0	496.9	496.8	496.7	496.6	497.3	497.9
172.5°	501.1	500.9	500.6	500.3	500.1	500.0	499.9	499.8	499.7	500.4	501.1
175°	504.9	504.6	504.4	504.1	503.8	503.6	503.4	503.2	503.0	503.7	504.4
177.5°	506.5	506.2	506.1	505.8	505.6	505.5	505.3	505.1	505.0	505.5	506.0
180°	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4
2.5°	1949.4	1957.5	1957.5	1958.6	1967.8	1966.7	1966.1
5°	2074.5	2086.8	2088.2	2101.2	2109.9	2107.0	2099.0
7.5°	2192.5	2215.4	2232.7	2242.4	2253.8	2260.9	2257.7
10°	2286.1	2319.4	2339.6	2353.3	2369.9	2382.2	2377.8
12.5°	2371.1	2410.6	2438.5	2461.9	2464.1	2479.8	2469.2
15°	2503.6	2545.4	2549.8	2567.1	2580.9	2579.4	2580.1
17.5°	2547.3	2560.8	2563.5	2563.9	2564.1	2559.0	2548.1
20°	2531.8	2526.7	2514.4	2505.0	2488.4	2486.2	2471.8
22.5°	2457.8	2441.8	2410.9	2390.6	2364.7	2358.0	2353.9
25°	2312.2	2276.7	2227.6	2180.7	2167.7	2142.4	2149.7
27.5°	2112.3	2057.2	2004.0	1965.9	1931.4	1893.5	1904.3
30°	1971.9	1909.8	1834.7	1776.9	1740.0	1703.9	1697.4
32.5°	1804.3	1713.4	1629.6	1578.7	1522.2	1499.4	1474.4
35°	1515.4	1426.5	1343.5	1272.0	1230.9	1199.0	1170.2
37.5°	1255.6	1153.3	1086.2	1028.3	998.5	980.3	985.0
40°	1094.3	1004.8	955.6	911.5	884.1	871.1	874.0
42.5°	963.7	896.6	856.2	826.0	806.7	799.5	797.8
45°	815.5	778.0	744.7	727.4	718.0	710.0	705.0
47.5°	714.4	683.7	665.0	654.7	646.5	638.4	638.2
50°	653.7	633.5	620.5	609.6	603.1	597.4	602.4
52.5°	607.5	589.0	576.0	566.3	563.8	558.6	558.5
55°	538.9	524.4	515.0	506.3	502.0	499.1	495.5
57.5°	476.5	462.7	454.0	448.6	440.4	437.4	436.3
60°	432.0	421.1	412.5	405.2	401.6	395.9	395.9
62.5°	390.9	380.1	372.0	366.5	360.6	358.3	358.8
65°	331.6	322.9	314.9	309.2	307.7	303.4	304.8
67.5°	276.9	271.2	262.8	259.6	256.8	254.6	252.8
70°	240.5	234.8	230.5	226.1	223.9	223.9	223.9
72.5°	209.9	202.9	200.4	194.9	196.1	193.9	191.5
75°	162.5	158.2	156.0	153.8	150.2	150.2	150.2
77.5°	119.6	118.3	115.7	113.4	112.5	111.8	112.1
80°	92.5	91.7	90.3	90.3	88.9	88.1	86.7
82.5°	71.1	69.2	68.3	67.8	67.5	67.3	67.0
85°	40.4	39.0	39.0	39.7	38.3	38.3	39.0
87.5°	18.5	18.5	17.8	17.9	18.5	17.9	17.9
90°	14.4	14.2	14.1	14.2	14.3	14.4	14.5
92.5°	13.7	13.8	13.8	13.8	13.8	13.9	13.9
95°	27.3	27.3	27.2	27.1	26.9	26.7	26.5
97.5°	45.9	45.9	45.9	45.9	45.9	45.9	45.9
100°	58.9	58.9	58.9	58.8	58.7	58.6	58.5
102.5°	73.1	73.2	73.2	73.1	73.0	73.0	72.9
105°	94.5	94.7	94.8	94.8	94.8	94.8	94.8
107.5°	117.3	117.4	117.3	116.8	116.3	115.9	115.5
110°	132.8	132.8	132.6	132.3	132.1	131.8	131.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	148.2	148.0	147.7	147.5	147.3	147.1	146.9
115°	172.2	172.1	171.9	171.6	171.4	171.1	170.8
117.5°	195.2	195.0	194.7	194.4	194.2	193.9	193.6
120°	210.9	210.9	210.8	210.6	210.3	210.0	209.7
122.5°	226.7	226.4	226.2	226.0	225.8	225.6	225.4
125°	250.2	250.0	249.8	249.7	249.6	249.5	249.4
127.5°	273.1	272.8	272.5	272.1	271.8	271.5	271.3
130°	289.0	288.8	288.5	288.1	287.8	287.4	287.0
132.5°	304.0	303.6	303.2	302.9	302.6	302.3	302.0
135°	326.8	326.7	326.5	326.2	325.9	325.6	325.4
137.5°	348.4	348.4	348.1	347.7	347.3	346.9	346.6
140°	363.0	363.0	362.8	362.4	362.0	361.7	361.3
142.5°	376.2	376.3	376.1	375.7	375.3	374.9	374.6
145°	396.2	396.2	396.1	395.7	395.3	394.9	394.5
147.5°	413.8	414.0	413.9	413.5	413.1	412.7	412.5
150°	424.9	425.2	425.2	424.9	424.6	424.3	424.0
152.5°	436.0	436.4	436.4	436.0	435.6	435.4	435.0
155°	450.3	450.7	450.8	450.5	450.3	450.0	449.7
157.5°	463.4	464.0	464.1	463.6	463.2	462.8	462.3
160°	471.0	471.6	471.6	471.3	470.9	470.5	470.1
162.5°	478.1	478.7	478.8	478.3	477.9	477.4	477.0
165°	487.1	487.8	487.9	487.4	486.9	486.4	486.0
167.5°	494.6	495.2	495.3	494.7	494.3	493.8	493.3
170°	498.6	499.3	499.4	498.8	498.2	497.7	497.1
172.5°	501.7	502.4	502.4	501.8	501.2	500.7	500.1
175°	505.0	505.7	505.8	505.2	504.6	504.1	503.5
177.5°	506.3	506.8	506.8	506.3	506.0	505.5	505.0
180°	506.1	506.1	506.1	506.1	506.1	506.1	506.1

(END OF REPORT)