

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: P331421-830

Luminaire Tested: **S122DIP-S1005D330U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331421-830
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: S122DIP-S1005D330U830-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 330 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5251.4 lumens
Efficiency: N/A
Efficacy: 105.5 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

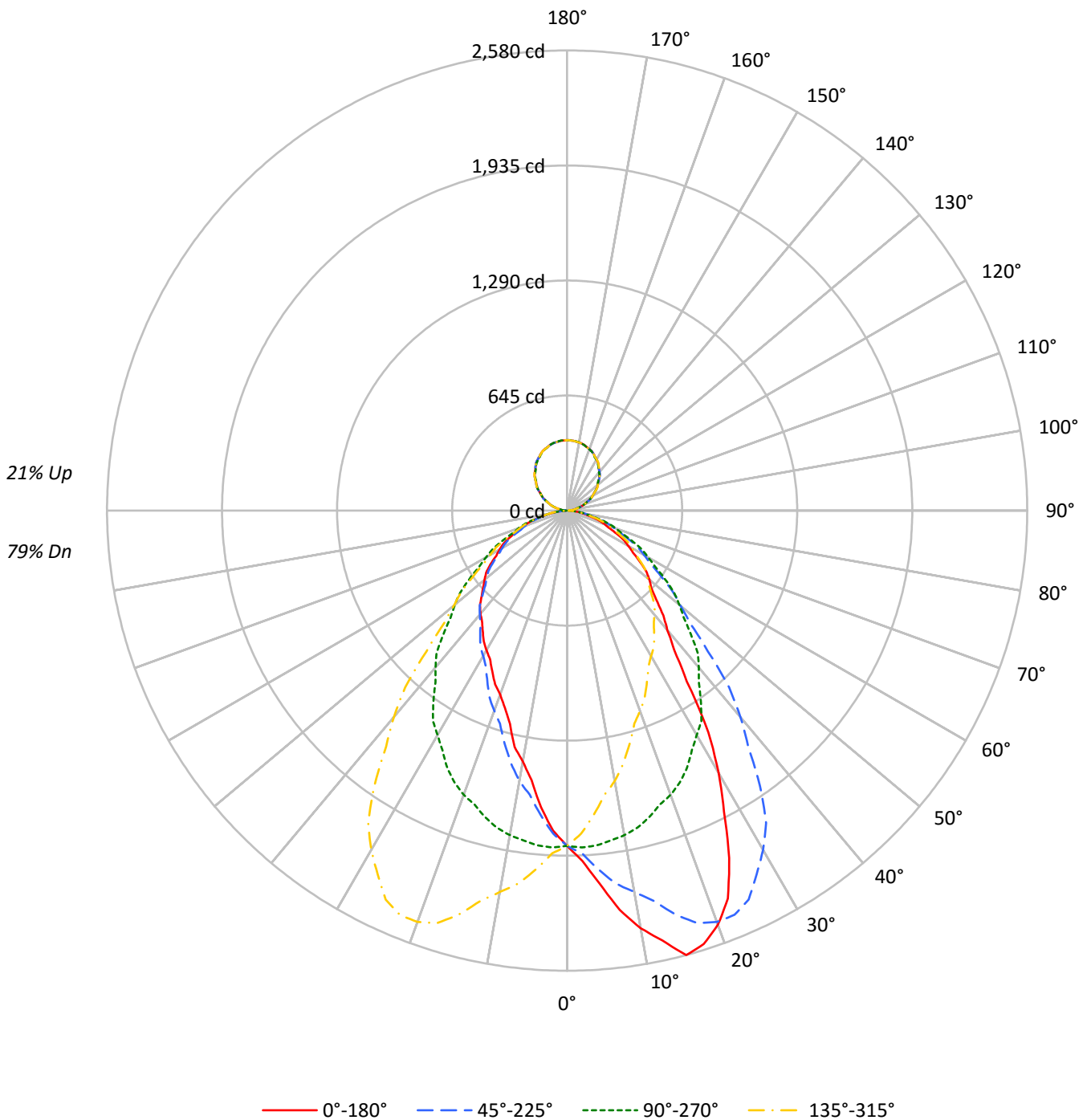
Input Watts (W): 49.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79
1	105	101	97	94	100	97	93	90	89	86	84	81	79	77	74	73	71	68
2	96	89	83	78	92	85	80	75	79	74	70	72	69	66	66	64	61	58
3	88	79	72	66	84	76	69	64	70	65	60	65	60	57	60	56	53	50
4	81	71	63	57	78	68	61	55	63	57	52	58	53	49	54	50	46	44
5	75	63	55	49	72	61	54	48	57	50	46	53	47	43	49	45	41	39
6	70	57	49	43	66	55	48	42	52	45	40	48	43	38	45	40	37	34
7	65	52	44	39	62	51	43	38	47	41	36	44	39	34	41	36	33	31
8	60	48	40	35	58	46	39	34	43	37	32	41	35	31	38	33	30	28
9	56	44	36	31	54	43	36	31	40	34	29	37	32	28	35	30	27	25
10	53	41	33	28	51	39	33	28	37	31	27	35	30	26	33	28	25	23

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	3.4
10°-20°	520.4	9.9
20°-30°	755.2	14.4
30°-40°	796.9	15.2
40°-50°	705.6	13.4
50°-60°	563.1	10.7
60°-70°	382.7	7.3
70°-80°	196.2	3.7
80°-90°	48.9	0.9
90°-100°	25.0	0.5
100°-110°	77.7	1.5
110°-120°	132.8	2.5
120°-130°	174.6	3.3
130°-140°	195.9	3.7
140°-150°	192.1	3.7
150°-160°	161.1	3.1
160°-170°	106.9	2.0
170°-180°	37.4	0.7
0°-30°	1454.6	27.7
0°-40°	2251.5	42.9
0°-60°	3520.2	67.0
0°-90°	4148.1	79.0
90°-120°	235.4	4.5
90°-150°	798.0	15.2
90°-180°	1103.0	21.0
0°-180°	5251.4	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°	11	0	11	0	11	7
95°	21	17	21	17	21	23
105°	74	72	74	72	74	78
115°	133	133	133	133	133	132
125°	194	194	194	194	194	173
135°	254	251	254	251	254	195
145°	308	304	308	304	308	192
155°	351	348	351	348	351	161
165°	379	379	379	379	379	107
175°	393	394	393	394	393	37
180°	395	395	395	395	395	



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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°	17.2	17.2	17.8	17.2	17.2	17.8	17.8	17.3	17.9	18.5	18.8
90°	11.3	11.2	11.2	11.1	11.0	11.0	11.2	11.4	11.5	11.7	10.0
92.5°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.6	10.2
95°	20.6	20.8	20.9	21.1	21.2	21.3	21.3	21.3	21.3	21.3	21.2
97.5°	35.7	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.5
100°	45.6	45.7	45.8	45.8	45.9	46.0	46.0	46.0	46.0	46.0	45.7
102.5°	56.8	56.9	56.9	57.0	57.1	57.1	57.0	57.0	56.9	56.8	56.6
105°	73.9	73.9	73.9	73.9	73.9	73.9	73.7	73.5	73.4	73.2	73.1
107.5°	90.0	90.4	90.8	91.0	91.4	91.5	91.5	91.4	91.3	91.3	91.3
110°	102.5	102.8	103.0	103.2	103.5	103.6	103.6	103.6	103.6	103.6	103.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	114.5	114.7	114.9	115.1	115.2	115.4	115.6	115.7	115.9	116.1	116.1
115°	133.2	133.5	133.7	133.8	134.1	134.2	134.3	134.4	134.5	134.5	134.7
117.5°	151.0	151.2	151.5	151.7	151.8	152.0	152.2	152.4	152.6	152.8	153.2
120°	163.5	163.7	163.9	164.2	164.4	164.5	164.5	164.5	164.5	164.5	165.1
122.5°	175.8	175.9	176.1	176.3	176.4	176.5	176.7	176.9	177.1	177.3	177.7
125°	194.4	194.5	194.6	194.7	194.7	194.9	195.1	195.4	195.6	195.8	196.0
127.5°	211.5	211.8	212.0	212.3	212.4	212.7	213.0	213.3	213.5	213.8	214.1
130°	223.8	224.0	224.3	224.7	225.0	225.2	225.4	225.5	225.6	225.7	225.9
132.5°	235.5	235.7	236.0	236.2	236.5	236.8	237.0	237.3	237.7	238.0	238.0
135°	253.7	254.0	254.2	254.4	254.7	254.8	254.9	255.0	255.0	255.1	255.0
137.5°	270.2	270.6	270.9	271.2	271.5	271.6	271.6	271.7	271.8	271.8	271.6
140°	281.7	282.0	282.3	282.6	282.9	283.0	283.0	283.0	283.0	283.0	282.7
142.5°	292.1	292.4	292.7	293.0	293.3	293.4	293.3	293.3	293.2	293.1	292.9
145°	307.6	308.0	308.3	308.6	308.9	309.0	308.9	308.9	308.8	308.7	308.2
147.5°	321.6	321.9	322.2	322.4	322.7	322.8	322.6	322.4	322.3	322.2	321.9
150°	330.6	330.9	331.1	331.3	331.6	331.6	331.3	331.1	330.9	330.6	330.4
152.5°	339.2	339.5	339.8	340.1	340.4	340.4	340.1	339.8	339.5	339.2	338.8
155°	350.6	350.9	351.1	351.3	351.6	351.5	351.1	350.7	350.3	350.0	349.8
157.5°	360.5	360.9	361.2	361.6	361.9	361.8	361.4	360.8	360.3	359.9	359.7
160°	366.6	366.9	367.2	367.5	367.8	367.8	367.3	366.8	366.4	366.0	365.9
162.5°	371.9	372.3	372.7	373.1	373.3	373.3	372.8	372.3	371.8	371.3	371.3
165°	379.0	379.3	379.7	380.0	380.4	380.3	379.8	379.3	378.8	378.2	378.2
167.5°	384.7	385.0	385.4	385.9	386.3	386.2	385.6	385.1	384.6	384.1	384.1
170°	387.6	388.0	388.5	389.0	389.4	389.4	388.8	388.3	387.8	387.3	387.4
172.5°	390.0	390.5	390.9	391.3	391.8	391.7	391.2	390.7	390.2	389.6	389.7
175°	392.6	393.0	393.5	394.0	394.4	394.4	393.8	393.3	392.8	392.3	392.4
177.5°	393.8	394.2	394.5	394.8	395.2	395.2	394.8	394.5	394.2	393.8	393.9
180°	394.6	394.6	394.6	394.6	394.6	394.6	394.6	394.6	394.6	394.6	394.6



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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°	19.0	18.7	18.4	19.2	17.3	17.2	14.7	12.8	12.3	12.0	11.0
90°	8.4	6.8	5.2	3.9	3.0	2.1	1.2	0.4	1.2	2.1	3.0
92.5°	9.8	9.4	9.0	8.6	7.9	7.3	6.6	5.9	6.6	7.3	7.9
95°	21.0	20.8	20.7	20.3	19.5	18.8	18.1	17.3	18.1	18.8	19.5
97.5°	35.3	35.0	34.7	34.2	33.6	32.9	32.3	31.7	32.3	32.9	33.6
100°	45.5	45.2	45.1	44.7	44.1	43.5	42.9	42.3	42.9	43.5	44.1
102.5°	56.3	56.0	55.8	55.3	54.9	54.4	53.9	53.4	53.9	54.4	54.9
105°	73.0	72.9	72.7	72.5	72.3	72.0	71.8	71.6	71.8	72.0	72.3
107.5°	91.3	91.3	91.3	91.1	90.9	90.5	90.2	89.8	90.2	90.5	90.9
110°	103.6	103.6	103.6	103.3	102.9	102.5	102.0	101.6	102.0	102.5	102.9



TEST NUMBER: P331421-830

CATALOG NUMBER: S122DIP-S1005D330U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	116.2	116.2	116.3	116.1	115.6	115.3	114.8	114.3	114.8	115.3	115.6
115°	134.8	135.0	135.2	135.0	134.5	134.1	133.7	133.2	133.7	134.1	134.5
117.5°	153.6	154.0	154.5	154.4	153.7	153.2	152.6	151.9	152.6	153.2	153.7
120°	165.7	166.3	166.8	166.8	166.3	165.7	165.1	164.5	165.1	165.7	166.3
122.5°	178.1	178.5	179.0	178.8	178.0	177.4	176.6	176.0	176.6	177.4	178.0
125°	196.2	196.4	196.7	196.4	195.8	195.1	194.4	193.8	194.4	195.1	195.8
127.5°	214.3	214.6	214.8	214.5	213.7	212.9	212.1	211.2	212.1	212.9	213.7
130°	226.1	226.2	226.4	225.9	225.0	224.0	223.1	222.2	223.1	224.0	225.0
132.5°	238.0	237.9	237.9	237.5	236.7	235.9	235.2	234.4	235.2	235.9	236.7
135°	254.8	254.7	254.5	254.0	253.2	252.4	251.6	250.7	251.6	252.4	253.2
137.5°	271.5	271.3	271.1	270.7	270.0	269.3	268.6	268.0	268.6	269.3	270.0
140°	282.3	281.9	281.5	281.1	280.4	279.7	279.1	278.4	279.1	279.7	280.4
142.5°	292.7	292.4	292.2	291.7	291.1	290.4	289.7	289.1	289.7	290.4	291.1
145°	307.8	307.4	306.9	306.4	305.9	305.4	304.9	304.3	304.9	305.4	305.9
147.5°	321.6	321.2	320.9	320.5	319.9	319.2	318.7	318.0	318.7	319.2	319.9
150°	330.1	329.8	329.5	329.1	328.7	328.2	327.8	327.3	327.8	328.2	328.7
152.5°	338.5	338.1	337.8	337.3	337.0	336.5	336.0	335.6	336.0	336.5	337.0
155°	349.5	349.3	349.1	348.8	348.6	348.5	348.2	348.0	348.2	348.5	348.6
157.5°	359.6	359.5	359.3	359.2	359.0	358.8	358.7	358.5	358.7	358.8	359.0
160°	365.8	365.7	365.7	365.5	365.4	365.2	365.1	365.0	365.1	365.2	365.4
162.5°	371.2	371.1	371.0	371.0	370.9	370.9	370.9	370.8	370.9	370.9	370.9
165°	378.2	378.2	378.2	378.3	378.4	378.4	378.5	378.6	378.5	378.4	378.4
167.5°	384.1	384.1	384.2	384.3	384.5	384.7	384.9	385.1	384.9	384.7	384.5
170°	387.4	387.5	387.6	387.8	388.0	388.1	388.4	388.6	388.4	388.1	388.0
172.5°	389.8	389.9	389.9	390.1	390.3	390.6	390.8	391.0	390.8	390.6	390.3
175°	392.6	392.8	392.9	393.0	393.2	393.5	393.7	394.0	393.7	393.5	393.2
177.5°	394.1	394.2	394.3	394.5	394.6	394.7	394.9	395.1	394.9	394.7	394.6
180°	394.6	394.6	394.6	394.6	394.6	394.6	394.6	394.6	394.6	394.6	394.6



TEST NUMBER: P331421-830

CATALOG NUMBER: S122DIP-S1005D330U830-4F0-1E-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°	10.6	10.3	10.0	10.4	10.1	9.8	9.2	9.2	9.1	8.0	8.0
90°	3.9	5.2	6.8	8.4	10.0	11.7	11.5	11.4	11.2	11.0	11.0
92.5°	8.6	9.0	9.4	9.8	10.2	10.6	10.7	10.7	10.7	10.7	10.7
95°	20.3	20.7	20.8	21.0	21.2	21.3	21.3	21.3	21.3	21.3	21.2
97.5°	34.2	34.7	35.0	35.3	35.5	35.8	35.8	35.8	35.8	35.8	35.8
100°	44.7	45.1	45.2	45.5	45.7	46.0	46.0	46.0	46.0	46.0	45.9
102.5°	55.3	55.8	56.0	56.3	56.6	56.8	56.9	57.0	57.0	57.1	57.1
105°	72.5	72.7	72.9	73.0	73.1	73.2	73.4	73.5	73.7	73.9	73.9
107.5°	91.1	91.3	91.3	91.3	91.3	91.3	91.3	91.4	91.5	91.5	91.4
110°	103.3	103.6	103.6	103.6	103.6	103.6	103.6	103.6	103.6	103.6	103.5



TEST NUMBER: P331421-830

CATALOG NUMBER: S122DIP-S1005D330U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	116.1	116.3	116.2	116.2	116.1	116.1	115.9	115.7	115.6	115.4	115.2
115°	135.0	135.2	135.0	134.8	134.7	134.5	134.5	134.4	134.3	134.2	134.1
117.5°	154.4	154.5	154.0	153.6	153.2	152.8	152.6	152.4	152.2	152.0	151.8
120°	166.8	166.8	166.3	165.7	165.1	164.5	164.5	164.5	164.5	164.5	164.4
122.5°	178.8	179.0	178.5	178.1	177.7	177.3	177.1	176.9	176.7	176.5	176.4
125°	196.4	196.7	196.4	196.2	196.0	195.8	195.6	195.4	195.1	194.9	194.7
127.5°	214.5	214.8	214.6	214.3	214.1	213.8	213.5	213.3	213.0	212.7	212.4
130°	225.9	226.4	226.2	226.1	225.9	225.7	225.6	225.5	225.4	225.2	225.0
132.5°	237.5	237.9	237.9	238.0	238.0	238.0	237.7	237.3	237.0	236.8	236.5
135°	254.0	254.5	254.7	254.8	255.0	255.1	255.0	255.0	254.9	254.8	254.7
137.5°	270.7	271.1	271.3	271.5	271.6	271.8	271.8	271.7	271.6	271.6	271.5
140°	281.1	281.5	281.9	282.3	282.7	283.0	283.0	283.0	283.0	283.0	282.9
142.5°	291.7	292.2	292.4	292.7	292.9	293.1	293.2	293.3	293.3	293.4	293.3
145°	306.4	306.9	307.4	307.8	308.2	308.7	308.8	308.9	308.9	309.0	308.9
147.5°	320.5	320.9	321.2	321.6	321.9	322.2	322.3	322.4	322.6	322.8	322.7
150°	329.1	329.5	329.8	330.1	330.4	330.6	330.9	331.1	331.3	331.6	331.6
152.5°	337.3	337.8	338.1	338.5	338.8	339.2	339.5	339.8	340.1	340.4	340.4
155°	348.8	349.1	349.3	349.5	349.8	350.0	350.3	350.7	351.1	351.5	351.6
157.5°	359.2	359.3	359.5	359.6	359.7	359.9	360.3	360.8	361.4	361.8	361.9
160°	365.5	365.7	365.7	365.8	365.9	366.0	366.4	366.8	367.3	367.8	367.8
162.5°	371.0	371.0	371.1	371.2	371.3	371.3	371.8	372.3	372.8	373.3	373.3
165°	378.3	378.2	378.2	378.2	378.2	378.2	378.8	379.3	379.8	380.3	380.4
167.5°	384.3	384.2	384.1	384.1	384.1	384.1	384.6	385.1	385.6	386.2	386.3
170°	387.8	387.6	387.5	387.4	387.4	387.3	387.8	388.3	388.8	389.4	389.4
172.5°	390.1	389.9	389.9	389.8	389.7	389.6	390.2	390.7	391.2	391.7	391.8
175°	393.0	392.9	392.8	392.6	392.4	392.3	392.8	393.3	393.8	394.4	394.4
177.5°	394.5	394.3	394.2	394.1	393.9	393.8	394.2	394.5	394.8	395.2	395.2
180°	394.6	394.6	394.6	394.6	394.6	394.6	394.6	394.6	394.6	394.6	394.6



TEST NUMBER: P331421-830

CATALOG NUMBER: S122DIP-S1005D330U830-4F0-1E-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°	8.0	7.4	7.4	6.9	7.4	7.4	8.0	8.0	8.0	9.1	9.2
90°	11.1	11.2	11.2	11.3	11.2	11.2	11.1	11.0	11.0	11.2	11.4
92.5°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
95°	21.1	20.9	20.8	20.6	20.8	20.9	21.1	21.2	21.3	21.3	21.3
97.5°	35.8	35.8	35.8	35.7	35.8	35.8	35.8	35.8	35.8	35.8	35.8
100°	45.8	45.8	45.7	45.6	45.7	45.8	45.8	45.9	46.0	46.0	46.0
102.5°	57.0	56.9	56.9	56.8	56.9	56.9	57.0	57.1	57.1	57.0	57.0
105°	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.7	73.5
107.5°	91.0	90.8	90.4	90.0	90.4	90.8	91.0	91.4	91.5	91.5	91.4
110°	103.2	103.0	102.8	102.5	102.8	103.0	103.2	103.5	103.6	103.6	103.6



TEST NUMBER: P331421-830

CATALOG NUMBER: S122DIP-S1005D330U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	115.1	114.9	114.7	114.5	114.7	114.9	115.1	115.2	115.4	115.6	115.7
115°	133.8	133.7	133.5	133.2	133.5	133.7	133.8	134.1	134.2	134.3	134.4
117.5°	151.7	151.5	151.2	151.0	151.2	151.5	151.7	151.8	152.0	152.2	152.4
120°	164.2	163.9	163.7	163.5	163.7	163.9	164.2	164.4	164.5	164.5	164.5
122.5°	176.3	176.1	175.9	175.8	175.9	176.1	176.3	176.4	176.5	176.7	176.9
125°	194.7	194.6	194.5	194.4	194.5	194.6	194.7	194.7	194.9	195.1	195.4
127.5°	212.3	212.0	211.8	211.5	211.8	212.0	212.3	212.4	212.7	213.0	213.3
130°	224.7	224.3	224.0	223.8	224.0	224.3	224.7	225.0	225.2	225.4	225.5
132.5°	236.2	236.0	235.7	235.5	235.7	236.0	236.2	236.5	236.8	237.0	237.3
135°	254.4	254.2	254.0	253.7	254.0	254.2	254.4	254.7	254.8	254.9	255.0
137.5°	271.2	270.9	270.6	270.2	270.6	270.9	271.2	271.5	271.6	271.6	271.7
140°	282.6	282.3	282.0	281.7	282.0	282.3	282.6	282.9	283.0	283.0	283.0
142.5°	293.0	292.7	292.4	292.1	292.4	292.7	293.0	293.3	293.4	293.3	293.3
145°	308.6	308.3	308.0	307.6	308.0	308.3	308.6	308.9	309.0	308.9	308.9
147.5°	322.4	322.2	321.9	321.6	321.9	322.2	322.4	322.7	322.8	322.6	322.4
150°	331.3	331.1	330.9	330.6	330.9	331.1	331.3	331.6	331.6	331.3	331.1
152.5°	340.1	339.8	339.5	339.2	339.5	339.8	340.1	340.4	340.4	340.1	339.8
155°	351.3	351.1	350.9	350.6	350.9	351.1	351.3	351.6	351.5	351.1	350.7
157.5°	361.6	361.2	360.9	360.5	360.9	361.2	361.6	361.9	361.8	361.4	360.8
160°	367.5	367.2	366.9	366.6	366.9	367.2	367.5	367.8	367.8	367.3	366.8
162.5°	373.1	372.7	372.3	371.9	372.3	372.7	373.1	373.3	373.3	372.8	372.3
165°	380.0	379.7	379.3	379.0	379.3	379.7	380.0	380.4	380.3	379.8	379.3
167.5°	385.9	385.4	385.0	384.7	385.0	385.4	385.9	386.3	386.2	385.6	385.1
170°	389.0	388.5	388.0	387.6	388.0	388.5	389.0	389.4	389.4	388.8	388.3
172.5°	391.3	390.9	390.5	390.0	390.5	390.9	391.3	391.8	391.7	391.2	390.7
175°	394.0	393.5	393.0	392.6	393.0	393.5	394.0	394.4	394.4	393.8	393.3
177.5°	394.8	394.5	394.2	393.8	394.2	394.5	394.8	395.2	395.2	394.8	394.5
180°	394.6	394.6	394.6	394.6	394.6	394.6	394.6	394.6	394.6	394.6	394.6



TEST NUMBER: P331421-830

CATALOG NUMBER: S122DIP-S1005D330U830-4F0-1E-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°	9.2	9.8	10.1	10.4	10.0	10.3	10.6	11.0	12.0	12.3	12.8
90°	11.5	11.7	10.0	8.4	6.8	5.2	3.9	3.0	2.1	1.2	0.4
92.5°	10.7	10.6	10.2	9.8	9.4	9.0	8.6	7.9	7.3	6.6	5.9
95°	21.3	21.3	21.2	21.0	20.8	20.7	20.3	19.5	18.8	18.1	17.3
97.5°	35.8	35.8	35.5	35.3	35.0	34.7	34.2	33.6	32.9	32.3	31.7
100°	46.0	46.0	45.7	45.5	45.2	45.1	44.7	44.1	43.5	42.9	42.3
102.5°	56.9	56.8	56.6	56.3	56.0	55.8	55.3	54.9	54.4	53.9	53.4
105°	73.4	73.2	73.1	73.0	72.9	72.7	72.5	72.3	72.0	71.8	71.6
107.5°	91.3	91.3	91.3	91.3	91.3	91.3	91.1	90.9	90.5	90.2	89.8
110°	103.6	103.6	103.6	103.6	103.6	103.6	103.3	102.9	102.5	102.0	101.6



TEST NUMBER: P331421-830

CATALOG NUMBER: S122DIP-S1005D330U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	115.9	116.1	116.1	116.2	116.2	116.3	116.1	115.6	115.3	114.8	114.3
115°	134.5	134.5	134.7	134.8	135.0	135.2	135.0	134.5	134.1	133.7	133.2
117.5°	152.6	152.8	153.2	153.6	154.0	154.5	154.4	153.7	153.2	152.6	151.9
120°	164.5	164.5	165.1	165.7	166.3	166.8	166.8	166.3	165.7	165.1	164.5
122.5°	177.1	177.3	177.7	178.1	178.5	179.0	178.8	178.0	177.4	176.6	176.0
125°	195.6	195.8	196.0	196.2	196.4	196.7	196.4	195.8	195.1	194.4	193.8
127.5°	213.5	213.8	214.1	214.3	214.6	214.8	214.5	213.7	212.9	212.1	211.2
130°	225.6	225.7	225.9	226.1	226.2	226.4	225.9	225.0	224.0	223.1	222.2
132.5°	237.7	238.0	238.0	238.0	237.9	237.9	237.5	236.7	235.9	235.2	234.4
135°	255.0	255.1	255.0	254.8	254.7	254.5	254.0	253.2	252.4	251.6	250.7
137.5°	271.8	271.8	271.6	271.5	271.3	271.1	270.7	270.0	269.3	268.6	268.0
140°	283.0	283.0	282.7	282.3	281.9	281.5	281.1	280.4	279.7	279.1	278.4
142.5°	293.2	293.1	292.9	292.7	292.4	292.2	291.7	291.1	290.4	289.7	289.1
145°	308.8	308.7	308.2	307.8	307.4	306.9	306.4	305.9	305.4	304.9	304.3
147.5°	322.3	322.2	321.9	321.6	321.2	320.9	320.5	319.9	319.2	318.7	318.0
150°	330.9	330.6	330.4	330.1	329.8	329.5	329.1	328.7	328.2	327.8	327.3
152.5°	339.5	339.2	338.8	338.5	338.1	337.8	337.3	337.0	336.5	336.0	335.6
155°	350.3	350.0	349.8	349.5	349.3	349.1	348.8	348.6	348.5	348.2	348.0
157.5°	360.3	359.9	359.7	359.6	359.5	359.3	359.2	359.0	358.8	358.7	358.5
160°	366.4	366.0	365.9	365.8	365.7	365.7	365.5	365.4	365.2	365.1	365.0
162.5°	371.8	371.3	371.3	371.2	371.1	371.0	371.0	370.9	370.9	370.9	370.8
165°	378.8	378.2	378.2	378.2	378.2	378.2	378.3	378.4	378.4	378.5	378.6
167.5°	384.6	384.1	384.1	384.1	384.1	384.2	384.3	384.5	384.7	384.9	385.1
170°	387.8	387.3	387.4	387.4	387.5	387.6	387.8	388.0	388.1	388.4	388.6
172.5°	390.2	389.6	389.7	389.8	389.9	389.9	390.1	390.3	390.6	390.8	391.0
175°	392.8	392.3	392.4	392.6	392.8	392.9	393.0	393.2	393.5	393.7	394.0
177.5°	394.2	393.8	393.9	394.1	394.2	394.3	394.5	394.6	394.7	394.9	395.1
180°	394.6	394.6	394.6	394.6	394.6	394.6	394.6	394.6	394.6	394.6	394.6



TEST NUMBER: P331421-830

CATALOG NUMBER: S122DIP-S1005D330U830-4F0-1E-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°	14.7	17.2	17.3	19.2	18.4	18.7	19.0	18.8	18.5	17.9	17.3
90°	1.2	2.1	3.0	3.9	5.2	6.8	8.4	10.0	11.7	11.5	11.4
92.5°	6.6	7.3	7.9	8.6	9.0	9.4	9.8	10.2	10.6	10.7	10.7
95°	18.1	18.8	19.5	20.3	20.7	20.8	21.0	21.2	21.3	21.3	21.3
97.5°	32.3	32.9	33.6	34.2	34.7	35.0	35.3	35.5	35.8	35.8	35.8
100°	42.9	43.5	44.1	44.7	45.1	45.2	45.5	45.7	46.0	46.0	46.0
102.5°	53.9	54.4	54.9	55.3	55.8	56.0	56.3	56.6	56.8	56.9	57.0
105°	71.8	72.0	72.3	72.5	72.7	72.9	73.0	73.1	73.2	73.4	73.5
107.5°	90.2	90.5	90.9	91.1	91.3	91.3	91.3	91.3	91.3	91.3	91.4
110°	102.0	102.5	102.9	103.3	103.6	103.6	103.6	103.6	103.6	103.6	103.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	114.8	115.3	115.6	116.1	116.3	116.2	116.2	116.1	116.1	115.9	115.7
115°	133.7	134.1	134.5	135.0	135.2	135.0	134.8	134.7	134.5	134.5	134.4
117.5°	152.6	153.2	153.7	154.4	154.5	154.0	153.6	153.2	152.8	152.6	152.4
120°	165.1	165.7	166.3	166.8	166.8	166.3	165.7	165.1	164.5	164.5	164.5
122.5°	176.6	177.4	178.0	178.8	179.0	178.5	178.1	177.7	177.3	177.1	176.9
125°	194.4	195.1	195.8	196.4	196.7	196.4	196.2	196.0	195.8	195.6	195.4
127.5°	212.1	212.9	213.7	214.5	214.8	214.6	214.3	214.1	213.8	213.5	213.3
130°	223.1	224.0	225.0	225.9	226.4	226.2	226.1	225.9	225.7	225.6	225.5
132.5°	235.2	235.9	236.7	237.5	237.9	237.9	238.0	238.0	238.0	237.7	237.3
135°	251.6	252.4	253.2	254.0	254.5	254.7	254.8	255.0	255.1	255.0	255.0
137.5°	268.6	269.3	270.0	270.7	271.1	271.3	271.5	271.6	271.8	271.8	271.7
140°	279.1	279.7	280.4	281.1	281.5	281.9	282.3	282.7	283.0	283.0	283.0
142.5°	289.7	290.4	291.1	291.7	292.2	292.4	292.7	292.9	293.1	293.2	293.3
145°	304.9	305.4	305.9	306.4	306.9	307.4	307.8	308.2	308.7	308.8	308.9
147.5°	318.7	319.2	319.9	320.5	320.9	321.2	321.6	321.9	322.2	322.3	322.4
150°	327.8	328.2	328.7	329.1	329.5	329.8	330.1	330.4	330.6	330.9	331.1
152.5°	336.0	336.5	337.0	337.3	337.8	338.1	338.5	338.8	339.2	339.5	339.8
155°	348.2	348.5	348.6	348.8	349.1	349.3	349.5	349.8	350.0	350.3	350.7
157.5°	358.7	358.8	359.0	359.2	359.3	359.5	359.6	359.7	359.9	360.3	360.8
160°	365.1	365.2	365.4	365.5	365.7	365.7	365.8	365.9	366.0	366.4	366.8
162.5°	370.9	370.9	370.9	371.0	371.0	371.1	371.2	371.3	371.3	371.8	372.3
165°	378.5	378.4	378.4	378.3	378.2	378.2	378.2	378.2	378.2	378.8	379.3
167.5°	384.9	384.7	384.5	384.3	384.2	384.1	384.1	384.1	384.1	384.6	385.1
170°	388.4	388.1	388.0	387.8	387.6	387.5	387.4	387.4	387.3	387.8	388.3
172.5°	390.8	390.6	390.3	390.1	389.9	389.9	389.8	389.7	389.6	390.2	390.7
175°	393.7	393.5	393.2	393.0	392.9	392.8	392.6	392.4	392.3	392.8	393.3
177.5°	394.9	394.7	394.6	394.5	394.3	394.2	394.1	393.9	393.8	394.2	394.5
180°	394.6	394.6	394.6	394.6	394.6	394.6	394.6	394.6	394.6	394.6	394.6



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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°	17.8	17.8	17.2	17.2	17.8	17.2	17.2
90°	11.2	11.0	11.0	11.1	11.2	11.2	11.3
92.5°	10.7	10.7	10.7	10.7	10.7	10.7	10.7
95°	21.3	21.3	21.2	21.1	20.9	20.8	20.6
97.5°	35.8	35.8	35.8	35.8	35.8	35.8	35.7
100°	46.0	46.0	45.9	45.8	45.8	45.7	45.6
102.5°	57.0	57.1	57.1	57.0	56.9	56.9	56.8
105°	73.7	73.9	73.9	73.9	73.9	73.9	73.9
107.5°	91.5	91.5	91.4	91.0	90.8	90.4	90.0
110°	103.6	103.6	103.5	103.2	103.0	102.8	102.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	115.6	115.4	115.2	115.1	114.9	114.7	114.5
115°	134.3	134.2	134.1	133.8	133.7	133.5	133.2
117.5°	152.2	152.0	151.8	151.7	151.5	151.2	151.0
120°	164.5	164.5	164.4	164.2	163.9	163.7	163.5
122.5°	176.7	176.5	176.4	176.3	176.1	175.9	175.8
125°	195.1	194.9	194.7	194.7	194.6	194.5	194.4
127.5°	213.0	212.7	212.4	212.3	212.0	211.8	211.5
130°	225.4	225.2	225.0	224.7	224.3	224.0	223.8
132.5°	237.0	236.8	236.5	236.2	236.0	235.7	235.5
135°	254.9	254.8	254.7	254.4	254.2	254.0	253.7
137.5°	271.6	271.6	271.5	271.2	270.9	270.6	270.2
140°	283.0	283.0	282.9	282.6	282.3	282.0	281.7
142.5°	293.3	293.4	293.3	293.0	292.7	292.4	292.1
145°	308.9	309.0	308.9	308.6	308.3	308.0	307.6
147.5°	322.6	322.8	322.7	322.4	322.2	321.9	321.6
150°	331.3	331.6	331.6	331.3	331.1	330.9	330.6
152.5°	340.1	340.4	340.4	340.1	339.8	339.5	339.2
155°	351.1	351.5	351.6	351.3	351.1	350.9	350.6
157.5°	361.4	361.8	361.9	361.6	361.2	360.9	360.5
160°	367.3	367.8	367.8	367.5	367.2	366.9	366.6
162.5°	372.8	373.3	373.3	373.1	372.7	372.3	371.9
165°	379.8	380.3	380.4	380.0	379.7	379.3	379.0
167.5°	385.6	386.2	386.3	385.9	385.4	385.0	384.7
170°	388.8	389.4	389.4	389.0	388.5	388.0	387.6
172.5°	391.2	391.7	391.8	391.3	390.9	390.5	390.0
175°	393.8	394.4	394.4	394.0	393.5	393.0	392.6
177.5°	394.8	395.2	395.2	394.8	394.5	394.2	393.8
180°	394.6	394.6	394.6	394.6	394.6	394.6	394.6

(END OF REPORT)