

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: P331440-830

Luminaire Tested: **SA2XXDIP-C1005D725U830-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331440-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C1005D725U830-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 725 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

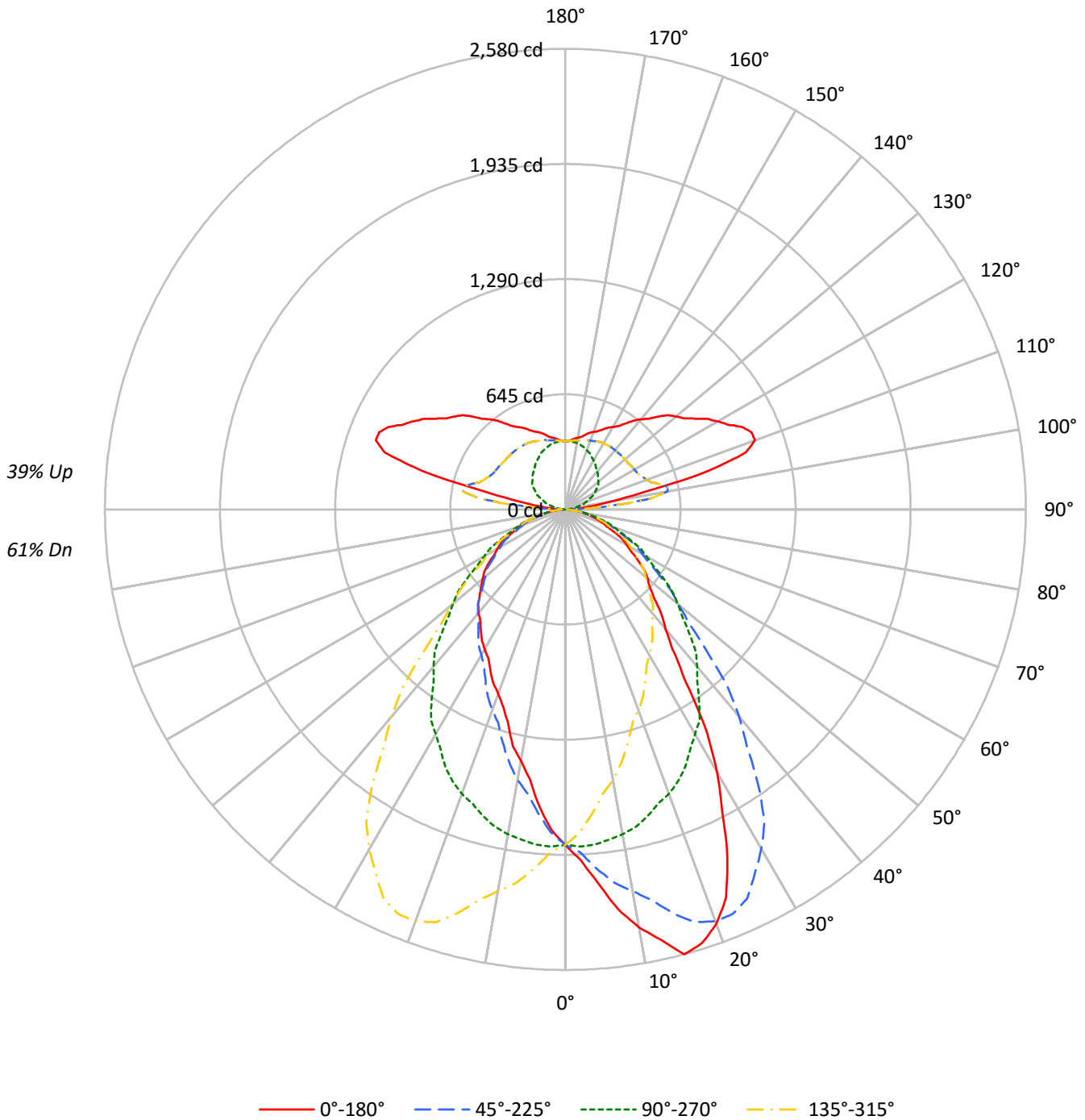
Lumens per Lamp: N/A
Luminaire Lumens: 6816.0 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 60.7
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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	101	97	93	90	94	91	87	84	79	77	75	69	67	66	59	58	57	52
2	92	85	79	74	86	80	75	70	70	66	63	61	58	56	53	51	49	45
3	85	75	68	62	79	71	65	59	62	58	54	55	51	48	47	45	42	39
4	78	67	59	53	73	63	56	51	56	50	46	49	45	42	43	40	37	34
5	72	60	52	46	67	57	50	44	50	45	40	44	40	36	39	35	33	30
6	66	54	46	41	62	51	44	39	46	40	36	40	36	32	36	32	29	26
7	61	49	41	36	57	47	40	34	42	36	32	37	32	29	33	29	26	24
8	57	45	37	32	54	43	36	31	38	32	28	34	29	26	30	26	24	21
9	53	41	34	29	50	39	32	28	35	30	26	31	27	23	28	24	21	19
10	50	38	31	26	47	36	30	25	33	27	23	29	25	21	26	22	20	18

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	2.6
10°-20°	520.4	7.6
20°-30°	755.2	11.1
30°-40°	796.9	11.7
40°-50°	705.6	10.4
50°-60°	563.1	8.3
60°-70°	382.7	5.6
70°-80°	196.2	2.9
80°-90°	50.8	0.7
90°-100°	153.2	2.2
100°-110°	519.8	7.6
110°-120°	552.3	8.1
120°-130°	454.6	6.7
130°-140°	365.1	5.4
140°-150°	275.9	4.0
150°-160°	193.9	2.8
160°-170°	114.1	1.7
170°-180°	37.1	0.5
0°-30°	1454.6	21.3
0°-40°	2251.5	33.0
0°-60°	3520.2	51.6
0°-90°	4150.0	60.9
90°-120°	1225.3	18.0
90°-150°	2320.9	34.1
90°-180°	2666.0	39.1
0°-180°	6816.0	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°	24	1	24	1	24	15
95°	84	26	84	26	84	109
105°	830	90	830	90	830	803
115°	1093	158	1093	158	1093	1070
125°	886	221	886	221	886	801
135°	735	259	735	259	735	571
145°	586	296	586	296	586	372
155°	493	337	493	337	493	230
165°	432	367	432	367	432	124
175°	390	382	390	382	390	38
180°	383	383	383	383	383	



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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°	19.9	19.9	20.5	19.9	19.9	20.4	20.0	19.7	20.5	21.2	21.6
90°	24.3	24.3	24.3	24.3	24.3	23.6	22.1	23.6	24.3	25.1	24.3
92.5°	40.8	42.0	41.4	43.7	44.4	48.9	55.1	64.3	80.9	95.8	94.4
95°	84.0	83.2	85.5	91.3	100.9	117.2	148.1	193.0	252.7	288.8	255.7
97.5°	165.3	171.5	182.3	200.4	235.6	288.8	368.5	450.4	517.3	493.0	371.4
100°	263.7	277.0	298.4	330.1	391.2	480.4	581.4	672.7	688.2	582.0	400.8
102.5°	464.2	482.1	508.8	562.9	629.3	723.8	797.7	818.3	751.8	585.0	389.6
105°	830.4	840.7	872.3	918.0	963.7	988.1	978.5	895.2	742.0	545.9	367.7
107.5°	1060.6	1074.4	1080.7	1083.3	1077.5	1041.8	965.2	839.8	677.2	504.1	356.8
110°	1130.2	1131.0	1124.4	1110.3	1078.6	1018.2	924.0	792.0	636.6	484.1	354.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1129.1	1125.1	1112.6	1089.1	1045.1	975.8	875.0	748.5	608.3	471.1	355.0
115°	1092.7	1086.0	1066.9	1032.9	980.6	904.7	808.2	694.7	573.3	456.9	358.1
117.5°	1027.7	1022.1	1001.9	966.1	912.8	841.6	754.0	654.4	551.1	449.9	363.4
120°	985.8	978.5	957.1	922.5	870.9	803.8	725.8	634.3	539.3	445.7	366.9
122.5°	942.2	936.0	917.0	883.0	836.7	776.1	702.2	618.5	529.3	443.4	371.1
125°	886.4	880.4	862.0	834.1	791.3	736.0	671.2	595.3	515.0	439.1	377.2
127.5°	837.4	832.7	816.8	790.6	753.3	702.3	641.1	572.5	501.7	436.6	383.6
130°	809.7	803.8	789.1	764.0	727.9	679.3	621.1	557.7	492.9	435.5	388.3
132.5°	780.8	775.5	762.0	737.0	701.4	655.7	602.3	543.6	485.9	434.9	393.0
135°	734.6	731.6	718.4	694.1	662.3	621.1	572.5	523.9	476.0	433.9	398.6
137.5°	689.2	684.8	673.2	652.2	623.3	587.4	548.7	508.1	469.0	433.9	403.6
140°	658.0	653.6	642.4	623.3	599.7	567.3	533.5	498.0	465.0	433.2	406.0
142.5°	626.7	625.8	616.0	598.6	576.2	549.0	519.9	489.8	460.8	433.2	407.7
145°	586.4	584.3	576.9	564.4	546.7	525.4	502.5	478.2	455.3	431.8	409.6
147.5°	552.7	551.4	546.4	536.4	521.8	506.1	488.3	469.2	449.8	429.1	410.3
150°	532.7	532.0	527.5	518.7	507.7	494.4	478.9	462.7	445.0	427.3	409.6
152.5°	515.6	515.5	512.2	504.5	495.9	484.4	471.3	456.2	440.9	424.4	408.5
155°	492.9	494.4	491.4	486.3	478.2	470.0	459.0	447.2	433.2	419.2	406.7
157.5°	473.6	473.6	472.3	468.0	462.2	455.9	446.7	436.8	426.0	414.0	403.3
160°	461.2	461.2	460.5	456.9	451.7	446.5	438.4	430.3	420.8	410.4	401.5
162.5°	449.4	450.1	449.3	446.8	441.7	437.6	430.7	423.8	415.9	407.5	399.8
165°	432.5	433.2	433.2	430.3	427.3	424.4	419.2	414.1	408.2	401.5	396.4
167.5°	416.9	417.7	417.9	416.3	415.0	412.3	408.8	404.8	400.5	396.4	393.0
170°	407.5	408.9	409.6	407.5	406.7	405.2	402.3	400.1	396.4	393.4	391.2
172.5°	399.8	400.7	401.4	400.4	399.6	398.8	396.4	394.7	392.3	389.9	388.9
175°	389.7	391.2	392.0	391.2	391.2	390.5	389.7	389.0	386.8	386.1	385.3
177.5°	383.7	384.9	385.5	385.5	385.5	385.5	384.9	384.9	383.7	383.1	383.7
180°	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1



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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°	21.3	20.3	19.5	20.3	18.2	17.9	15.1	12.8	12.7	12.7	11.9
90°	19.9	14.7	11.0	8.9	7.4	5.9	2.9	0.8	2.9	5.9	7.4
92.5°	73.5	50.1	33.5	26.5	21.5	18.3	13.0	9.0	13.0	18.3	21.5
95°	170.2	106.1	72.2	54.5	42.7	36.1	28.7	25.8	28.7	36.1	42.7
97.5°	229.3	140.0	97.4	77.4	63.8	53.8	46.0	42.0	46.0	53.8	63.8
100°	241.7	151.7	112.7	92.1	77.4	65.6	58.9	56.7	58.9	65.6	77.4
102.5°	242.2	162.4	126.3	105.7	90.3	78.5	71.9	70.3	71.9	78.5	90.3
105°	246.1	180.5	145.9	125.3	109.1	98.0	92.8	89.9	92.8	98.0	109.1
107.5°	256.3	199.1	165.5	144.7	128.7	118.5	113.5	111.1	113.5	118.5	128.7
110°	264.5	211.4	179.1	157.7	142.2	132.6	128.2	125.3	128.2	132.6	142.2



TEST NUMBER: P331440-830

CATALOG NUMBER: SA2XXDIP-C1005D725U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	273.3	223.3	192.0	170.0	155.1	146.2	141.2	138.2	141.2	146.2	155.1
115°	286.6	241.7	210.0	190.1	175.3	166.5	162.1	158.4	162.1	166.5	175.3
117.5°	300.8	258.6	229.3	208.7	194.5	186.7	182.3	179.4	182.3	186.7	194.5
120°	310.2	270.4	241.7	221.0	206.3	199.6	195.3	192.3	195.3	199.6	206.3
122.5°	318.5	281.6	254.7	233.4	218.7	211.4	207.1	204.7	207.1	211.4	218.7
125°	331.6	298.4	271.8	251.3	236.5	227.6	223.3	221.0	223.3	227.6	236.5
127.5°	343.7	314.1	288.2	267.0	252.9	243.2	237.0	234.0	237.0	243.2	252.9
130°	351.5	323.5	297.7	277.0	262.3	251.9	244.6	241.7	244.6	251.9	262.3
132.5°	359.1	331.7	307.1	286.4	271.2	260.2	252.3	248.7	252.3	260.2	271.2
135°	369.1	343.4	319.8	299.2	282.2	271.2	262.3	259.4	262.3	271.2	282.2
137.5°	376.8	352.8	329.5	310.4	293.5	281.7	272.9	269.4	272.9	281.7	293.5
140°	380.9	358.1	336.0	316.8	300.6	288.8	279.9	277.0	279.9	288.8	300.6
142.5°	384.5	362.2	340.7	322.7	307.1	295.3	287.1	284.6	287.1	295.3	307.1
145°	389.0	368.4	348.5	332.2	317.5	306.5	299.2	296.1	299.2	306.5	317.5
147.5°	391.5	373.4	354.7	340.3	328.0	317.8	310.8	308.6	310.8	317.8	328.0
150°	392.7	375.8	358.8	345.5	334.5	324.9	319.1	316.8	319.1	324.9	334.5
152.5°	393.3	378.1	363.0	350.8	340.4	332.0	326.1	325.1	326.1	332.0	340.4
155°	394.2	381.6	369.1	358.1	350.0	341.9	337.4	336.7	337.4	341.9	350.0
157.5°	394.2	384.2	373.5	364.3	357.8	350.7	347.1	346.5	347.1	350.7	357.8
160°	394.2	385.3	376.5	368.4	362.5	356.6	353.6	352.9	353.6	356.6	362.5
162.5°	393.6	386.0	378.2	371.9	366.6	361.9	358.9	359.4	358.9	361.9	366.6
165°	392.0	386.8	380.2	375.8	372.1	367.7	366.2	366.9	366.2	367.7	372.1
167.5°	391.0	386.6	381.8	379.0	376.4	373.5	372.2	373.2	372.2	373.5	376.4
170°	389.7	386.1	382.4	380.2	378.7	376.5	375.8	377.2	375.8	376.5	378.7
172.5°	388.0	385.5	383.0	381.4	380.5	378.2	378.7	379.6	378.7	378.2	380.5
175°	386.1	384.6	383.1	382.4	382.4	380.9	381.6	382.4	381.6	380.9	382.4
177.5°	384.9	383.7	383.1	383.1	383.1	381.9	382.6	383.7	382.6	381.9	383.1
180°	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1



TEST NUMBER: P331440-830
 CATALOG NUMBER: SA2XXDIP-C1005D725U830-4F0-1E-UDD-A4

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°	11.6	11.5	11.6	12.6	12.9	12.5	11.8	11.7	11.3	10.5	10.7
90°	8.9	11.0	14.7	19.9	24.3	25.1	24.3	23.6	22.1	23.6	24.3
92.5°	26.5	33.5	50.1	73.5	94.4	95.8	80.9	64.3	55.1	48.9	44.4
95°	54.5	72.2	106.1	170.2	255.7	288.8	252.7	193.0	148.1	117.2	100.9
97.5°	77.4	97.4	140.0	229.3	371.4	493.0	517.3	450.4	368.5	288.8	235.6
100°	92.1	112.7	151.7	241.7	400.8	582.0	688.2	672.7	581.4	480.4	391.2
102.5°	105.7	126.3	162.4	242.2	389.6	585.0	751.8	818.3	797.7	723.8	629.3
105°	125.3	145.9	180.5	246.1	367.7	545.9	742.0	895.2	978.5	988.1	963.7
107.5°	144.7	165.5	199.1	256.3	356.8	504.1	677.2	839.8	965.2	1041.8	1077.5
110°	157.7	179.1	211.4	264.5	354.4	484.1	636.6	792.0	924.0	1018.2	1078.6



TEST NUMBER: P331440-830

CATALOG NUMBER: SA2XXDIP-C1005D725U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	170.0	192.0	223.3	273.3	355.0	471.1	608.3	748.5	875.0	975.8	1045.1
115°	190.1	210.0	241.7	286.6	358.1	456.9	573.3	694.7	808.2	904.7	980.6
117.5°	208.7	229.3	258.6	300.8	363.4	449.9	551.1	654.4	754.0	841.6	912.8
120°	221.0	241.7	270.4	310.2	366.9	445.7	539.3	634.3	725.8	803.8	870.9
122.5°	233.4	254.7	281.6	318.5	371.1	443.4	529.3	618.5	702.2	776.1	836.7
125°	251.3	271.8	298.4	331.6	377.2	439.1	515.0	595.3	671.2	736.0	791.3
127.5°	267.0	288.2	314.1	343.7	383.6	436.6	501.7	572.5	641.1	702.3	753.3
130°	277.0	297.7	323.5	351.5	388.3	435.5	492.9	557.7	621.1	679.3	727.9
132.5°	286.4	307.1	331.7	359.1	393.0	434.9	485.9	543.6	602.3	655.7	701.4
135°	299.2	319.8	343.4	369.1	398.6	433.9	476.0	523.9	572.5	621.1	662.3
137.5°	310.4	329.5	352.8	376.8	403.6	433.9	469.0	508.1	548.7	587.4	623.3
140°	316.8	336.0	358.1	380.9	406.0	433.2	465.0	498.0	533.5	567.3	599.7
142.5°	322.7	340.7	362.2	384.5	407.7	433.2	460.8	489.8	519.9	549.0	576.2
145°	332.2	348.5	368.4	389.0	409.6	431.8	455.3	478.2	502.5	525.4	546.7
147.5°	340.3	354.7	373.4	391.5	410.3	429.1	449.8	469.2	488.3	506.1	521.8
150°	345.5	358.8	375.8	392.7	409.6	427.3	445.0	462.7	478.9	494.4	507.7
152.5°	350.8	363.0	378.1	393.3	408.5	424.4	440.9	456.2	471.3	484.4	495.9
155°	358.1	369.1	381.6	394.2	406.7	419.2	433.2	447.2	459.0	470.0	478.2
157.5°	364.3	373.5	384.2	394.2	403.3	414.0	426.0	436.8	446.7	455.9	462.2
160°	368.4	376.5	385.3	394.2	401.5	410.4	420.8	430.3	438.4	446.5	451.7
162.5°	371.9	378.2	386.0	393.6	399.8	407.5	415.9	423.8	430.7	437.6	441.7
165°	375.8	380.2	386.8	392.0	396.4	401.5	408.2	414.1	419.2	424.4	427.3
167.5°	379.0	381.8	386.6	391.0	393.0	396.4	400.5	404.8	408.8	412.3	415.0
170°	380.2	382.4	386.1	389.7	391.2	393.4	396.4	400.1	402.3	405.2	406.7
172.5°	381.4	383.0	385.5	388.0	388.9	389.9	392.3	394.7	396.4	398.8	399.6
175°	382.4	383.1	384.6	386.1	385.3	386.1	386.8	389.0	389.7	390.5	391.2
177.5°	383.1	383.1	383.7	384.9	383.7	383.1	383.7	384.9	384.9	385.5	385.5
180°	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1



TEST NUMBER: P331440-830

CATALOG NUMBER: SA2XXDIP-C1005D725U830-4F0-1E-UDD-A4

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°	10.7	10.1	10.1	9.5	10.1	10.1	10.7	10.7	10.5	11.3	11.7
90°	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	23.6	22.1	23.6
92.5°	43.7	41.4	42.0	40.8	42.0	41.4	43.7	44.4	48.9	55.1	64.3
95°	91.3	85.5	83.2	84.0	83.2	85.5	91.3	100.9	117.2	148.1	193.0
97.5°	200.4	182.3	171.5	165.3	171.5	182.3	200.4	235.6	288.8	368.5	450.4
100°	330.1	298.4	277.0	263.7	277.0	298.4	330.1	391.2	480.4	581.4	672.7
102.5°	562.9	508.8	482.1	464.2	482.1	508.8	562.9	629.3	723.8	797.7	818.3
105°	918.0	872.3	840.7	830.4	840.7	872.3	918.0	963.7	988.1	978.5	895.2
107.5°	1083.3	1080.7	1074.4	1060.6	1074.4	1080.7	1083.3	1077.5	1041.8	965.2	839.8
110°	1110.3	1124.4	1131.0	1130.2	1131.0	1124.4	1110.3	1078.6	1018.2	924.0	792.0



TEST NUMBER: P331440-830

CATALOG NUMBER: SA2XXDIP-C1005D725U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1089.1	1112.6	1125.1	1129.1	1125.1	1112.6	1089.1	1045.1	975.8	875.0	748.5
115°	1032.9	1066.9	1086.0	1092.7	1086.0	1066.9	1032.9	980.6	904.7	808.2	694.7
117.5°	966.1	1001.9	1022.1	1027.7	1022.1	1001.9	966.1	912.8	841.6	754.0	654.4
120°	922.5	957.1	978.5	985.8	978.5	957.1	922.5	870.9	803.8	725.8	634.3
122.5°	883.0	917.0	936.0	942.2	936.0	917.0	883.0	836.7	776.1	702.2	618.5
125°	834.1	862.0	880.4	886.4	880.4	862.0	834.1	791.3	736.0	671.2	595.3
127.5°	790.6	816.8	832.7	837.4	832.7	816.8	790.6	753.3	702.3	641.1	572.5
130°	764.0	789.1	803.8	809.7	803.8	789.1	764.0	727.9	679.3	621.1	557.7
132.5°	737.0	762.0	775.5	780.8	775.5	762.0	737.0	701.4	655.7	602.3	543.6
135°	694.1	718.4	731.6	734.6	731.6	718.4	694.1	662.3	621.1	572.5	523.9
137.5°	652.2	673.2	684.8	689.2	684.8	673.2	652.2	623.3	587.4	548.7	508.1
140°	623.3	642.4	653.6	658.0	653.6	642.4	623.3	599.7	567.3	533.5	498.0
142.5°	598.6	616.0	625.8	626.7	625.8	616.0	598.6	576.2	549.0	519.9	489.8
145°	564.4	576.9	584.3	586.4	584.3	576.9	564.4	546.7	525.4	502.5	478.2
147.5°	536.4	546.4	551.4	552.7	551.4	546.4	536.4	521.8	506.1	488.3	469.2
150°	518.7	527.5	532.0	532.7	532.0	527.5	518.7	507.7	494.4	478.9	462.7
152.5°	504.5	512.2	515.5	515.6	515.5	512.2	504.5	495.9	484.4	471.3	456.2
155°	486.3	491.4	494.4	492.9	494.4	491.4	486.3	478.2	470.0	459.0	447.2
157.5°	468.0	472.3	473.6	473.6	473.6	472.3	468.0	462.2	455.9	446.7	436.8
160°	456.9	460.5	461.2	461.2	461.2	460.5	456.9	451.7	446.5	438.4	430.3
162.5°	446.8	449.3	450.1	449.4	450.1	449.3	446.8	441.7	437.6	430.7	423.8
165°	430.3	433.2	433.2	432.5	433.2	433.2	430.3	427.3	424.4	419.2	414.1
167.5°	416.3	417.9	417.7	416.9	417.7	417.9	416.3	415.0	412.3	408.8	404.8
170°	407.5	409.6	408.9	407.5	408.9	409.6	407.5	406.7	405.2	402.3	400.1
172.5°	400.4	401.4	400.7	399.8	400.7	401.4	400.4	399.6	398.8	396.4	394.7
175°	391.2	392.0	391.2	389.7	391.2	392.0	391.2	391.2	390.5	389.7	389.0
177.5°	385.5	385.5	384.9	383.7	384.9	385.5	385.5	385.5	385.5	384.9	384.9
180°	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1



TEST NUMBER: P331440-830

CATALOG NUMBER: SA2XXDIP-C1005D725U830-4F0-1E-UDD-A4

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°	11.8	12.5	12.9	12.6	11.6	11.5	11.6	11.9	12.7	12.7	12.8
90°	24.3	25.1	24.3	19.9	14.7	11.0	8.9	7.4	5.9	2.9	0.8
92.5°	80.9	95.8	94.4	73.5	50.1	33.5	26.5	21.5	18.3	13.0	9.0
95°	252.7	288.8	255.7	170.2	106.1	72.2	54.5	42.7	36.1	28.7	25.8
97.5°	517.3	493.0	371.4	229.3	140.0	97.4	77.4	63.8	53.8	46.0	42.0
100°	688.2	582.0	400.8	241.7	151.7	112.7	92.1	77.4	65.6	58.9	56.7
102.5°	751.8	585.0	389.6	242.2	162.4	126.3	105.7	90.3	78.5	71.9	70.3
105°	742.0	545.9	367.7	246.1	180.5	145.9	125.3	109.1	98.0	92.8	89.9
107.5°	677.2	504.1	356.8	256.3	199.1	165.5	144.7	128.7	118.5	113.5	111.1
110°	636.6	484.1	354.4	264.5	211.4	179.1	157.7	142.2	132.6	128.2	125.3



TEST NUMBER: P331440-830

CATALOG NUMBER: SA2XXDIP-C1005D725U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	608.3	471.1	355.0	273.3	223.3	192.0	170.0	155.1	146.2	141.2	138.2
115°	573.3	456.9	358.1	286.6	241.7	210.0	190.1	175.3	166.5	162.1	158.4
117.5°	551.1	449.9	363.4	300.8	258.6	229.3	208.7	194.5	186.7	182.3	179.4
120°	539.3	445.7	366.9	310.2	270.4	241.7	221.0	206.3	199.6	195.3	192.3
122.5°	529.3	443.4	371.1	318.5	281.6	254.7	233.4	218.7	211.4	207.1	204.7
125°	515.0	439.1	377.2	331.6	298.4	271.8	251.3	236.5	227.6	223.3	221.0
127.5°	501.7	436.6	383.6	343.7	314.1	288.2	267.0	252.9	243.2	237.0	234.0
130°	492.9	435.5	388.3	351.5	323.5	297.7	277.0	262.3	251.9	244.6	241.7
132.5°	485.9	434.9	393.0	359.1	331.7	307.1	286.4	271.2	260.2	252.3	248.7
135°	476.0	433.9	398.6	369.1	343.4	319.8	299.2	282.2	271.2	262.3	259.4
137.5°	469.0	433.9	403.6	376.8	352.8	329.5	310.4	293.5	281.7	272.9	269.4
140°	465.0	433.2	406.0	380.9	358.1	336.0	316.8	300.6	288.8	279.9	277.0
142.5°	460.8	433.2	407.7	384.5	362.2	340.7	322.7	307.1	295.3	287.1	284.6
145°	455.3	431.8	409.6	389.0	368.4	348.5	332.2	317.5	306.5	299.2	296.1
147.5°	449.8	429.1	410.3	391.5	373.4	354.7	340.3	328.0	317.8	310.8	308.6
150°	445.0	427.3	409.6	392.7	375.8	358.8	345.5	334.5	324.9	319.1	316.8
152.5°	440.9	424.4	408.5	393.3	378.1	363.0	350.8	340.4	332.0	326.1	325.1
155°	433.2	419.2	406.7	394.2	381.6	369.1	358.1	350.0	341.9	337.4	336.7
157.5°	426.0	414.0	403.3	394.2	384.2	373.5	364.3	357.8	350.7	347.1	346.5
160°	420.8	410.4	401.5	394.2	385.3	376.5	368.4	362.5	356.6	353.6	352.9
162.5°	415.9	407.5	399.8	393.6	386.0	378.2	371.9	366.6	361.9	358.9	359.4
165°	408.2	401.5	396.4	392.0	386.8	380.2	375.8	372.1	367.7	366.2	366.9
167.5°	400.5	396.4	393.0	391.0	386.6	381.8	379.0	376.4	373.5	372.2	373.2
170°	396.4	393.4	391.2	389.7	386.1	382.4	380.2	378.7	376.5	375.8	377.2
172.5°	392.3	389.9	388.9	388.0	385.5	383.0	381.4	380.5	378.2	378.7	379.6
175°	386.8	386.1	385.3	386.1	384.6	383.1	382.4	382.4	380.9	381.6	382.4
177.5°	383.7	383.1	383.7	384.9	383.7	383.1	383.1	383.1	381.9	382.6	383.7
180°	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1



TEST NUMBER: P331440-830
 CATALOG NUMBER: SA2XXDIP-C1005D725U830-4F0-1E-UDD-A4

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°	15.1	17.9	18.2	20.3	19.5	20.3	21.3	21.6	21.2	20.5	19.7
90°	2.9	5.9	7.4	8.9	11.0	14.7	19.9	24.3	25.1	24.3	23.6
92.5°	13.0	18.3	21.5	26.5	33.5	50.1	73.5	94.4	95.8	80.9	64.3
95°	28.7	36.1	42.7	54.5	72.2	106.1	170.2	255.7	288.8	252.7	193.0
97.5°	46.0	53.8	63.8	77.4	97.4	140.0	229.3	371.4	493.0	517.3	450.4
100°	58.9	65.6	77.4	92.1	112.7	151.7	241.7	400.8	582.0	688.2	672.7
102.5°	71.9	78.5	90.3	105.7	126.3	162.4	242.2	389.6	585.0	751.8	818.3
105°	92.8	98.0	109.1	125.3	145.9	180.5	246.1	367.7	545.9	742.0	895.2
107.5°	113.5	118.5	128.7	144.7	165.5	199.1	256.3	356.8	504.1	677.2	839.8
110°	128.2	132.6	142.2	157.7	179.1	211.4	264.5	354.4	484.1	636.6	792.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	141.2	146.2	155.1	170.0	192.0	223.3	273.3	355.0	471.1	608.3	748.5
115°	162.1	166.5	175.3	190.1	210.0	241.7	286.6	358.1	456.9	573.3	694.7
117.5°	182.3	186.7	194.5	208.7	229.3	258.6	300.8	363.4	449.9	551.1	654.4
120°	195.3	199.6	206.3	221.0	241.7	270.4	310.2	366.9	445.7	539.3	634.3
122.5°	207.1	211.4	218.7	233.4	254.7	281.6	318.5	371.1	443.4	529.3	618.5
125°	223.3	227.6	236.5	251.3	271.8	298.4	331.6	377.2	439.1	515.0	595.3
127.5°	237.0	243.2	252.9	267.0	288.2	314.1	343.7	383.6	436.6	501.7	572.5
130°	244.6	251.9	262.3	277.0	297.7	323.5	351.5	388.3	435.5	492.9	557.7
132.5°	252.3	260.2	271.2	286.4	307.1	331.7	359.1	393.0	434.9	485.9	543.6
135°	262.3	271.2	282.2	299.2	319.8	343.4	369.1	398.6	433.9	476.0	523.9
137.5°	272.9	281.7	293.5	310.4	329.5	352.8	376.8	403.6	433.9	469.0	508.1
140°	279.9	288.8	300.6	316.8	336.0	358.1	380.9	406.0	433.2	465.0	498.0
142.5°	287.1	295.3	307.1	322.7	340.7	362.2	384.5	407.7	433.2	460.8	489.8
145°	299.2	306.5	317.5	332.2	348.5	368.4	389.0	409.6	431.8	455.3	478.2
147.5°	310.8	317.8	328.0	340.3	354.7	373.4	391.5	410.3	429.1	449.8	469.2
150°	319.1	324.9	334.5	345.5	358.8	375.8	392.7	409.6	427.3	445.0	462.7
152.5°	326.1	332.0	340.4	350.8	363.0	378.1	393.3	408.5	424.4	440.9	456.2
155°	337.4	341.9	350.0	358.1	369.1	381.6	394.2	406.7	419.2	433.2	447.2
157.5°	347.1	350.7	357.8	364.3	373.5	384.2	394.2	403.3	414.0	426.0	436.8
160°	353.6	356.6	362.5	368.4	376.5	385.3	394.2	401.5	410.4	420.8	430.3
162.5°	358.9	361.9	366.6	371.9	378.2	386.0	393.6	399.8	407.5	415.9	423.8
165°	366.2	367.7	372.1	375.8	380.2	386.8	392.0	396.4	401.5	408.2	414.1
167.5°	372.2	373.5	376.4	379.0	381.8	386.6	391.0	393.0	396.4	400.5	404.8
170°	375.8	376.5	378.7	380.2	382.4	386.1	389.7	391.2	393.4	396.4	400.1
172.5°	378.7	378.2	380.5	381.4	383.0	385.5	388.0	388.9	389.9	392.3	394.7
175°	381.6	380.9	382.4	382.4	383.1	384.6	386.1	385.3	386.1	386.8	389.0
177.5°	382.6	381.9	383.1	383.1	383.1	383.7	384.9	383.7	383.1	383.7	384.9
180°	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1



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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°	20.0	20.4	19.9	19.9	20.5	19.9	19.9
90°	22.1	23.6	24.3	24.3	24.3	24.3	24.3
92.5°	55.1	48.9	44.4	43.7	41.4	42.0	40.8
95°	148.1	117.2	100.9	91.3	85.5	83.2	84.0
97.5°	368.5	288.8	235.6	200.4	182.3	171.5	165.3
100°	581.4	480.4	391.2	330.1	298.4	277.0	263.7
102.5°	797.7	723.8	629.3	562.9	508.8	482.1	464.2
105°	978.5	988.1	963.7	918.0	872.3	840.7	830.4
107.5°	965.2	1041.8	1077.5	1083.3	1080.7	1074.4	1060.6
110°	924.0	1018.2	1078.6	1110.3	1124.4	1131.0	1130.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	875.0	975.8	1045.1	1089.1	1112.6	1125.1	1129.1
115°	808.2	904.7	980.6	1032.9	1066.9	1086.0	1092.7
117.5°	754.0	841.6	912.8	966.1	1001.9	1022.1	1027.7
120°	725.8	803.8	870.9	922.5	957.1	978.5	985.8
122.5°	702.2	776.1	836.7	883.0	917.0	936.0	942.2
125°	671.2	736.0	791.3	834.1	862.0	880.4	886.4
127.5°	641.1	702.3	753.3	790.6	816.8	832.7	837.4
130°	621.1	679.3	727.9	764.0	789.1	803.8	809.7
132.5°	602.3	655.7	701.4	737.0	762.0	775.5	780.8
135°	572.5	621.1	662.3	694.1	718.4	731.6	734.6
137.5°	548.7	587.4	623.3	652.2	673.2	684.8	689.2
140°	533.5	567.3	599.7	623.3	642.4	653.6	658.0
142.5°	519.9	549.0	576.2	598.6	616.0	625.8	626.7
145°	502.5	525.4	546.7	564.4	576.9	584.3	586.4
147.5°	488.3	506.1	521.8	536.4	546.4	551.4	552.7
150°	478.9	494.4	507.7	518.7	527.5	532.0	532.7
152.5°	471.3	484.4	495.9	504.5	512.2	515.5	515.6
155°	459.0	470.0	478.2	486.3	491.4	494.4	492.9
157.5°	446.7	455.9	462.2	468.0	472.3	473.6	473.6
160°	438.4	446.5	451.7	456.9	460.5	461.2	461.2
162.5°	430.7	437.6	441.7	446.8	449.3	450.1	449.4
165°	419.2	424.4	427.3	430.3	433.2	433.2	432.5
167.5°	408.8	412.3	415.0	416.3	417.9	417.7	416.9
170°	402.3	405.2	406.7	407.5	409.6	408.9	407.5
172.5°	396.4	398.8	399.6	400.4	401.4	400.7	399.8
175°	389.7	390.5	391.2	391.2	392.0	391.2	389.7
177.5°	384.9	385.5	385.5	385.5	385.5	384.9	383.7
180°	383.1	383.1	383.1	383.1	383.1	383.1	383.1

(END OF REPORT)