

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: P331422-840

Luminaire Tested: **SA2XXDIP-C1005D330U840-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331422-840
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-C1005D330U840-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 330 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

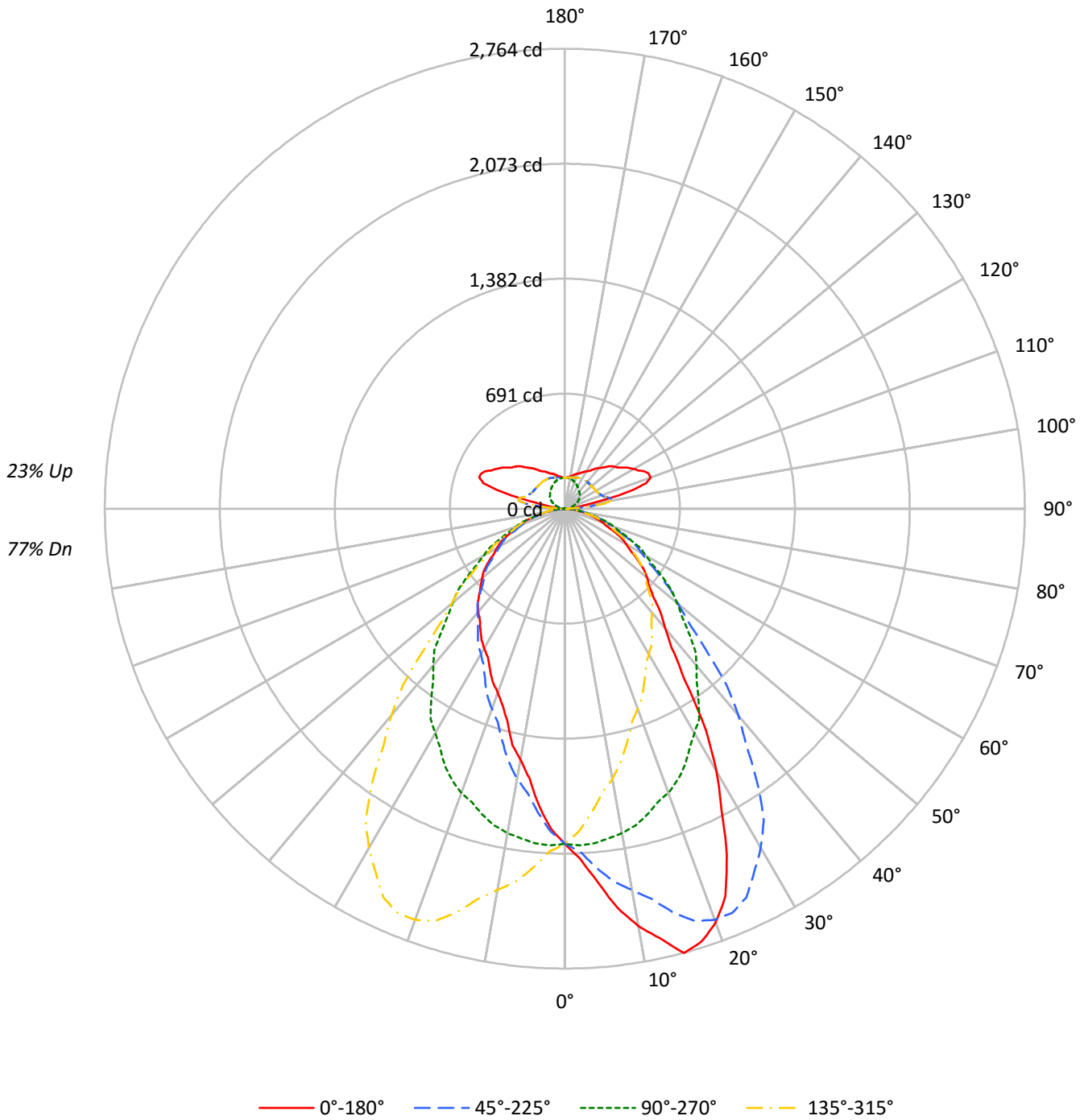
Lumens per Lamp: N/A
Luminaire Lumens: 5735.5 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 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	108	108	108	108	99	99	99	90	90	90	81	81	81	77
1	105	100	97	93	100	96	93	90	88	85	83	80	78	76	73	72	70	67
2	96	89	83	77	91	85	79	75	78	74	70	71	68	65	65	63	60	57
3	88	79	71	66	84	75	69	64	69	64	60	64	59	56	59	55	52	49
4	81	70	62	56	77	67	60	55	62	56	52	57	53	49	53	49	46	43
5	75	63	55	49	71	61	53	48	56	50	45	52	47	43	48	44	40	38
6	69	57	49	43	66	55	48	42	51	45	40	47	42	38	44	39	36	34
7	64	52	44	38	61	50	43	37	47	40	36	43	38	34	40	36	32	30
8	60	48	40	34	57	46	39	34	43	37	32	40	35	31	37	33	29	27
9	56	44	36	31	54	42	35	30	40	33	29	37	32	28	35	30	27	25
10	53	40	33	28	50	39	32	28	37	31	27	34	29	25	32	28	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	32513	32513	32513	32513
5°	36451	32725	29000	32725
10°	41769	32455	25097	32455
15°	46208	31861	22173	31861
20°	45505	31223	20213	31223
25°	41031	30375	18971	30375
30°	33907	29015	18066	29015
35°	24711	27595	17420	27595
40°	19736	25918	17062	25918
45°	17249	23980	16575	23980
50°	16211	22102	16252	22102
55°	14945	20194	15817	20194
60°	13695	18167	15145	18167
65°	12478	16351	14487	16351
70°	11325	14578	13520	14578
75°	10044	12601	11977	12601
80°	8638	10432	9642	10432
85°	7744	7744	5743	7744



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.8	3.3
10°-20°	557.5	9.7
20°-30°	809.1	14.1
30°-40°	853.9	14.9
40°-50°	756.0	13.2
50°-60°	603.3	10.5
60°-70°	410.1	7.1
70°-80°	210.2	3.7
80°-90°	52.4	0.9
90°-100°	74.2	1.3
100°-110°	251.8	4.4
110°-120°	267.5	4.7
120°-130°	220.2	3.8
130°-140°	176.8	3.1
140°-150°	133.6	2.3
150°-160°	93.9	1.6
160°-170°	55.3	1.0
170°-180°	18.0	0.3
0°-30°	1558.5	27.2
0°-40°	2412.3	42.1
0°-60°	3771.7	65.8
0°-90°	4444.3	77.5
90°-120°	593.4	10.3
90°-150°	1124.0	19.6
90°-180°	1291.0	22.5
0°-180°	5735.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2014	2014	2014	2014	2014	
5°	2249	2019	1789	2019	2249	225
15°	2764	1906	1326	1906	2764	763
25°	2303	1705	1065	1705	2303	1041
35°	1254	1400	884	1400	1254	815
45°	755	1050	726	1050	755	594
55°	531	717	562	717	531	476
65°	327	428	379	428	327	325
75°	161	202	192	202	161	172
85°	42	42	31	42	42	46
90°	12	0	12	0	12	8
95°	41	12	41	12	41	53
105°	402	44	402	44	402	389
115°	529	77	529	77	529	518
125°	429	107	429	107	429	388
135°	356	126	356	126	356	276
145°	284	143	284	143	284	180
155°	239	163	239	163	239	111
165°	209	178	209	178	209	60
175°	189	185	189	185	189	18
180°	186	186	186	186	186	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7
2.5°	2106.6	2107.2	2108.4	2098.5	2097.3	2097.3	2088.6	2081.2	2072.5	2060.7	2062.0
5°	2249.0	2257.5	2260.6	2251.3	2237.4	2235.8	2222.7	2201.0	2180.9	2164.6	2153.0
7.5°	2418.9	2422.4	2414.8	2402.6	2392.2	2373.6	2349.1	2325.1	2291.6	2260.8	2237.9
10°	2547.7	2552.3	2539.2	2521.4	2506.7	2485.1	2449.4	2413.1	2368.9	2326.4	2292.3
12.5°	2645.5	2657.0	2640.1	2637.8	2612.6	2582.8	2540.4	2522.0	2459.9	2400.7	2364.2
15°	2764.4	2763.6	2765.2	2750.5	2731.9	2727.2	2682.4	2633.6	2546.2	2511.3	2450.9
17.5°	2730.1	2741.8	2747.2	2747.0	2746.6	2743.7	2729.3	2698.5	2654.6	2598.2	2528.5
20°	2648.4	2663.8	2666.1	2683.9	2694.0	2707.1	2712.6	2704.0	2677.0	2629.8	2569.4
22.5°	2522.0	2526.4	2533.7	2561.3	2583.1	2616.2	2633.3	2661.9	2651.6	2628.5	2578.1
25°	2303.2	2295.4	2322.5	2336.4	2386.7	2439.3	2477.3	2519.1	2556.3	2578.7	2563.9
27.5°	2040.3	2028.7	2069.3	2106.3	2147.2	2204.1	2263.2	2333.0	2391.1	2463.7	2488.6
30°	1818.7	1825.6	1864.3	1903.8	1965.7	2046.2	2112.7	2189.4	2272.2	2353.5	2409.9
32.5°	1579.7	1606.5	1630.9	1691.4	1746.0	1835.7	1933.2	2029.0	2132.3	2224.7	2312.2
35°	1253.7	1284.6	1318.8	1362.8	1439.5	1528.4	1623.7	1752.9	1893.8	2019.9	2123.6
37.5°	1055.3	1050.4	1069.9	1101.8	1163.8	1235.7	1345.2	1472.9	1638.7	1787.0	1933.2
40°	936.4	933.3	947.3	976.6	1023.9	1076.5	1172.5	1284.6	1438.7	1619.8	1793.9
42.5°	854.7	856.6	864.3	885.0	917.4	960.7	1032.6	1128.0	1269.1	1439.7	1626.8
45°	755.4	760.7	769.3	779.3	797.9	833.5	873.7	941.9	1053.3	1195.7	1379.9
47.5°	683.8	684.0	692.7	701.5	712.5	732.6	765.4	808.1	886.8	1002.7	1161.0
50°	645.4	640.1	646.2	653.2	664.8	678.7	700.3	740.6	793.2	886.9	1019.3
52.5°	598.3	598.5	604.1	606.7	617.1	631.1	650.9	678.7	726.4	799.6	908.4
55°	530.9	534.7	537.9	542.5	551.8	561.9	577.3	595.9	633.1	688.0	768.5
57.5°	467.5	468.7	471.8	480.6	486.5	495.7	510.5	527.4	551.5	592.2	652.7
60°	424.1	424.1	430.3	434.1	441.9	451.2	462.8	479.1	500.7	534.0	582.8
62.5°	384.5	383.8	386.4	392.6	398.6	407.3	418.8	432.6	453.0	482.6	522.7
65°	326.6	325.1	329.7	331.2	337.4	346.0	355.3	369.9	386.2	407.9	443.4
67.5°	270.8	272.8	275.2	278.1	281.6	290.5	296.7	307.1	320.8	338.8	362.9
70°	239.9	239.9	239.9	242.3	246.9	251.6	257.7	266.2	279.4	294.9	316.5
72.5°	205.2	207.7	210.2	208.8	214.7	217.4	224.9	229.7	242.3	252.2	271.4
75°	161.0	161.0	161.0	164.8	167.1	169.5	174.1	178.7	185.0	197.3	207.4
77.5°	120.1	119.8	120.6	121.5	124.0	126.7	128.2	132.3	138.0	143.8	152.3
80°	92.9	94.4	95.2	96.7	96.7	98.3	99.1	104.5	108.4	112.2	117.6
82.5°	71.8	72.1	72.3	72.6	73.2	74.1	76.1	77.9	79.3	82.5	86.6
85°	41.8	41.0	41.0	42.5	41.8	41.8	43.3	44.8	44.8	45.6	48.0
87.5°	18.5	18.5	19.1	18.5	18.5	19.0	18.9	18.4	19.1	19.8	20.3
90°	11.8	11.8	11.8	11.8	11.8	11.4	10.7	11.4	11.8	12.1	11.8
92.5°	19.8	20.3	20.1	21.2	21.5	23.7	26.7	31.1	39.2	46.4	45.7
95°	40.7	40.3	41.4	44.2	48.9	56.8	71.7	93.5	122.4	139.9	123.8
97.5°	80.1	83.1	88.3	97.0	114.1	139.9	178.4	218.1	250.4	238.7	179.9
100°	127.7	134.2	144.5	159.9	189.5	232.7	281.6	325.8	333.3	281.9	194.1
102.5°	224.8	233.5	246.4	272.6	304.8	350.5	386.3	396.3	364.1	283.3	188.6
105°	402.1	407.1	422.4	444.5	466.8	478.5	473.8	433.5	359.3	264.4	178.0
107.5°	513.7	520.3	523.4	524.6	521.8	504.5	467.5	406.7	328.0	244.1	172.8
110°	547.3	547.8	544.5	537.8	522.4	493.1	447.5	383.5	308.3	234.4	171.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	546.7	544.8	538.8	527.5	506.1	472.5	423.7	362.4	294.6	228.1	171.9
115°	529.2	525.9	516.6	500.3	474.9	438.2	391.4	336.5	277.6	221.3	173.4
117.5°	497.7	494.9	485.2	467.9	442.0	407.6	365.2	316.9	266.9	217.8	176.0
120°	477.5	473.8	463.5	446.8	421.7	389.3	351.4	307.2	261.2	215.9	177.7
122.5°	456.3	453.3	444.1	427.6	405.2	375.9	340.0	299.5	256.3	214.7	179.7
125°	429.3	426.4	417.5	403.9	383.2	356.5	325.1	288.3	249.4	212.7	182.7
127.5°	405.6	403.2	395.6	382.8	364.8	340.1	310.5	277.2	243.0	211.5	185.7
130°	392.1	389.3	382.1	370.0	352.5	329.0	300.8	270.1	238.7	210.9	188.0
132.5°	378.2	375.6	369.0	356.9	339.7	317.6	291.6	263.3	235.3	210.6	190.4
135°	355.8	354.4	347.9	336.1	320.7	300.8	277.2	253.7	230.5	210.2	193.1
137.5°	333.8	331.6	326.0	315.9	301.8	284.5	265.8	246.1	227.1	210.1	195.5
140°	318.6	316.5	311.1	301.8	290.4	274.8	258.3	241.2	225.1	209.8	196.6
142.5°	303.5	303.1	298.3	289.8	279.0	265.9	251.8	237.2	223.2	209.8	197.4
145°	284.0	283.0	279.4	273.3	264.8	254.4	243.4	231.6	220.6	209.0	198.3
147.5°	267.7	267.0	264.6	259.7	252.7	245.1	236.5	227.2	217.8	207.8	198.6
150°	258.0	257.6	255.5	251.2	245.8	239.4	232.0	224.1	215.5	206.9	198.3
152.5°	249.7	249.6	248.0	244.4	240.1	234.6	228.2	221.0	213.5	205.5	197.8
155°	238.7	239.4	238.0	235.5	231.6	227.6	222.3	216.6	209.8	203.0	196.9
157.5°	229.3	229.3	228.7	226.6	223.9	220.8	216.3	211.6	206.3	200.5	195.3
160°	223.4	223.4	223.0	221.3	218.7	216.2	212.3	208.3	203.7	198.7	194.5
162.5°	217.6	217.9	217.6	216.4	213.9	212.0	208.6	205.2	201.5	197.3	193.6
165°	209.4	209.8	209.8	208.3	206.9	205.5	203.0	200.6	197.6	194.5	192.0
167.5°	201.9	202.3	202.4	201.6	201.0	199.7	197.9	196.0	194.0	192.0	190.4
170°	197.3	198.0	198.3	197.3	196.9	196.2	194.8	193.8	192.0	190.6	189.5
172.5°	193.6	194.0	194.4	193.9	193.5	193.1	192.0	191.2	190.0	188.8	188.3
175°	188.7	189.5	189.9	189.5	189.5	189.1	188.7	188.4	187.3	186.9	186.6
177.5°	185.8	186.4	186.7	186.7	186.7	186.7	186.4	186.4	185.8	185.5	185.8
180°	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7
2.5°	2066.4	2061.4	2058.3	2047.2	2037.2	2027.3	2024.3	2025.5	2011.9	1998.8	1993.3
5°	2146.9	2131.3	2116.7	2095.8	2071.0	2043.9	2029.9	2019.1	1992.1	1962.7	1945.6
7.5°	2219.0	2196.9	2168.5	2129.2	2093.1	2050.5	2023.5	1999.4	1959.8	1918.3	1893.0
10°	2262.9	2232.7	2196.4	2148.4	2104.3	2052.4	2016.0	1979.6	1933.2	1883.7	1852.7
12.5°	2300.7	2260.0	2224.2	2162.6	2110.4	2045.6	2002.5	1951.2	1902.3	1843.4	1813.1
15°	2390.7	2315.5	2247.5	2177.8	2113.5	2023.0	1975.0	1906.1	1841.9	1769.2	1734.3
17.5°	2460.1	2375.7	2268.5	2180.0	2105.1	2004.8	1934.3	1851.8	1775.8	1692.7	1645.4
20°	2499.7	2403.0	2287.6	2182.4	2092.6	1978.1	1901.5	1817.2	1728.2	1634.5	1583.5
22.5°	2523.2	2421.6	2307.5	2173.1	2067.9	1956.4	1860.0	1767.6	1677.4	1576.3	1522.8
25°	2530.7	2437.8	2317.1	2165.5	2036.9	1910.8	1794.7	1705.0	1595.8	1501.4	1423.2
27.5°	2493.9	2427.3	2311.2	2150.8	2001.1	1853.7	1724.2	1622.6	1507.4	1404.9	1326.4
30°	2448.6	2409.9	2296.9	2136.0	1972.7	1814.0	1671.6	1556.3	1441.8	1338.1	1257.6
32.5°	2378.7	2370.4	2271.0	2115.0	1942.4	1763.9	1616.6	1500.0	1373.1	1271.2	1194.5
35°	2241.3	2278.4	2215.7	2067.9	1885.2	1692.5	1533.1	1400.0	1268.5	1170.9	1098.9
37.5°	2057.1	2149.3	2132.9	1999.0	1808.2	1614.9	1438.9	1299.7	1174.4	1075.9	1005.3
40°	1930.2	2047.8	2064.8	1946.4	1753.7	1554.8	1368.3	1229.7	1107.4	1017.7	946.4
42.5°	1793.9	1931.4	1978.1	1883.2	1694.3	1491.7	1305.1	1161.6	1040.6	953.3	890.2
45°	1565.6	1747.5	1831.9	1777.7	1595.1	1387.7	1195.7	1050.2	940.3	858.3	809.5
47.5°	1352.2	1551.0	1664.4	1645.2	1484.7	1279.3	1089.5	949.9	842.9	777.5	733.9
50°	1201.1	1405.4	1542.4	1548.6	1405.4	1201.8	1011.5	879.9	781.6	720.5	684.9
52.5°	1069.9	1264.9	1414.2	1447.0	1316.9	1121.4	941.5	810.6	724.1	667.9	636.0
55°	898.5	1063.4	1229.0	1289.3	1184.9	999.2	832.7	717.4	636.1	597.4	569.6
57.5°	747.0	884.4	1037.3	1104.1	1039.7	880.7	724.7	624.5	558.7	524.7	503.3
60°	667.1	775.5	911.7	991.4	935.6	794.1	657.8	562.6	508.5	478.3	458.2
62.5°	592.8	688.8	804.0	876.9	846.5	713.0	591.0	507.0	460.2	431.8	417.3
65°	489.1	564.9	654.0	721.2	701.1	599.8	500.0	428.0	390.8	368.4	356.8
67.5°	402.7	457.6	519.3	578.2	562.0	490.2	410.0	354.0	326.3	306.9	299.9
70°	348.3	390.0	445.0	492.2	479.1	420.2	356.8	308.8	284.8	268.5	261.6
72.5°	296.3	330.6	372.5	411.1	402.2	353.4	300.4	264.2	245.8	230.8	225.1
75°	223.7	249.9	275.5	301.0	298.7	260.8	229.8	202.0	187.3	175.7	173.4
77.5°	165.1	179.9	197.2	212.4	208.1	186.5	162.2	146.2	135.4	127.6	126.4
80°	126.1	134.6	147.0	157.8	152.5	143.2	123.8	112.2	104.5	96.7	93.6
82.5°	91.5	100.0	107.4	113.3	109.2	100.5	88.6	80.7	76.0	70.7	69.5
85°	48.0	52.6	55.7	57.3	55.7	50.3	44.8	41.8	38.0	35.6	34.8
87.5°	20.5	20.0	19.7	20.7	18.7	18.5	15.8	13.7	13.3	12.9	11.8
90°	9.6	7.2	5.4	4.2	3.5	2.8	1.4	0.4	1.4	2.8	3.5
92.5°	35.6	24.2	16.2	12.8	10.4	8.9	6.3	4.3	6.3	8.9	10.4
95°	82.4	51.4	34.9	26.4	20.7	17.5	13.9	12.5	13.9	17.5	20.7
97.5°	111.1	67.8	47.2	37.5	30.9	26.1	22.2	20.3	22.2	26.1	30.9
100°	117.0	73.5	54.6	44.6	37.5	31.7	28.6	27.5	28.6	31.7	37.5
102.5°	117.3	78.7	61.2	51.2	43.7	38.1	34.8	34.0	34.8	38.1	43.7
105°	119.2	87.5	70.7	60.7	52.8	47.5	44.9	43.5	44.9	47.5	52.8
107.5°	124.1	96.4	80.2	70.1	62.3	57.4	54.9	53.8	54.9	57.4	62.3
110°	128.1	102.4	86.7	76.3	68.9	64.2	62.1	60.7	62.1	64.2	68.9



TEST NUMBER: P331422-840

CATALOG NUMBER: SA2XXDIP-C1005D330U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	132.4	108.2	93.0	82.3	75.1	70.8	68.4	67.0	68.4	70.8	75.1
115°	138.8	117.0	101.7	92.1	84.9	80.7	78.5	76.7	78.5	80.7	84.9
117.5°	145.6	125.2	111.1	101.1	94.2	90.4	88.3	86.8	88.3	90.4	94.2
120°	150.3	131.0	117.0	107.0	99.9	96.7	94.5	93.1	94.5	96.7	99.9
122.5°	154.2	136.3	123.3	113.0	105.9	102.4	100.3	99.2	100.3	102.4	105.9
125°	160.6	144.5	131.7	121.7	114.5	110.3	108.2	107.0	108.2	110.3	114.5
127.5°	166.5	152.1	139.6	129.3	122.5	117.8	114.7	113.3	114.7	117.8	122.5
130°	170.2	156.6	144.1	134.2	127.0	122.0	118.5	117.0	118.5	122.0	127.0
132.5°	173.9	160.7	148.8	138.8	131.3	126.0	122.2	120.5	122.2	126.0	131.3
135°	178.7	166.3	154.8	144.9	136.6	131.3	127.0	125.6	127.0	131.3	136.6
137.5°	182.5	170.9	159.6	150.3	142.2	136.4	132.2	130.5	132.2	136.4	142.2
140°	184.5	173.4	162.7	153.4	145.6	139.9	135.6	134.2	135.6	139.9	145.6
142.5°	186.2	175.4	165.0	156.3	148.8	143.0	139.1	137.8	139.1	143.0	148.8
145°	188.4	178.4	168.7	161.0	153.8	148.5	144.9	143.4	144.9	148.5	153.8
147.5°	189.7	180.9	171.8	164.8	158.9	153.9	150.5	149.5	150.5	153.9	158.9
150°	190.2	182.0	173.8	167.3	162.0	157.3	154.5	153.4	154.5	157.3	162.0
152.5°	190.5	183.1	175.7	170.0	164.8	160.8	157.9	157.4	157.9	160.8	164.8
155°	190.9	184.8	178.7	173.4	169.5	165.5	163.4	163.1	163.4	165.5	169.5
157.5°	190.9	186.0	180.9	176.4	173.3	169.9	168.1	167.7	168.1	169.9	173.3
160°	190.9	186.6	182.4	178.4	175.5	172.7	171.3	170.9	171.3	172.7	175.5
162.5°	190.6	186.9	183.2	180.2	177.5	175.3	173.8	174.1	173.8	175.3	177.5
165°	189.9	187.3	184.1	182.0	180.2	178.0	177.3	177.7	177.3	178.0	180.2
167.5°	189.3	187.2	184.9	183.6	182.3	180.9	180.3	180.7	180.3	180.9	182.3
170°	188.7	186.9	185.2	184.1	183.4	182.4	182.0	182.7	182.0	182.4	183.4
172.5°	187.9	186.7	185.5	184.7	184.3	183.2	183.4	183.8	183.4	183.2	184.3
175°	186.9	186.2	185.5	185.2	185.2	184.5	184.8	185.2	184.8	184.5	185.2
177.5°	186.4	185.8	185.5	185.5	185.5	185.0	185.2	185.8	185.2	185.0	185.5
180°	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5



TEST NUMBER: P331422-840

CATALOG NUMBER: SA2XXDIP-C1005D330U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7
2.5°	1987.1	1983.4	1970.3	1963.6	1952.5	1941.9	1935.1	1938.2	1940.7	1939.4	1937.5
5°	1930.2	1915.4	1893.0	1873.6	1859.7	1834.2	1823.3	1818.0	1813.3	1807.9	1802.4
7.5°	1862.3	1839.2	1807.0	1779.4	1753.3	1721.6	1703.5	1692.7	1681.5	1669.3	1658.5
10°	1814.0	1781.5	1747.5	1708.8	1677.9	1649.2	1623.7	1606.6	1591.1	1576.5	1565.6
12.5°	1763.3	1725.9	1683.7	1630.8	1596.7	1555.7	1551.9	1521.9	1497.6	1488.5	1475.8
15°	1682.4	1629.8	1576.5	1513.8	1486.7	1449.6	1426.3	1403.1	1382.2	1367.5	1363.6
17.5°	1590.7	1522.6	1469.5	1424.4	1380.1	1342.0	1320.6	1302.0	1284.9	1265.2	1262.5
20°	1520.8	1461.9	1403.9	1364.4	1318.8	1280.0	1253.7	1235.2	1220.4	1208.8	1198.8
22.5°	1454.5	1390.1	1337.0	1293.8	1248.8	1217.5	1196.8	1178.8	1166.6	1153.8	1144.3
25°	1348.2	1297.9	1239.8	1191.0	1153.9	1133.8	1116.7	1101.3	1093.6	1085.0	1074.2
27.5°	1255.2	1199.2	1144.9	1107.1	1074.5	1056.7	1044.6	1034.1	1026.8	1021.9	1015.7
30°	1189.5	1133.0	1090.5	1053.3	1026.2	1008.5	1000.7	994.5	985.9	982.9	979.8
32.5°	1126.3	1075.4	1039.1	1006.8	981.0	969.4	962.3	956.7	950.1	947.0	940.8
35°	1037.0	994.5	958.9	941.1	920.2	910.1	904.7	897.0	890.8	887.7	886.9
37.5°	953.0	916.0	892.6	869.7	860.9	854.7	847.3	842.0	840.2	839.7	838.9
40°	898.5	868.3	847.5	828.9	825.0	815.7	809.5	804.9	804.9	805.7	804.9
42.5°	849.0	821.9	803.4	787.4	782.8	777.3	771.1	770.8	772.0	774.7	772.0
45°	774.0	754.6	741.4	733.7	725.2	719.7	718.9	721.2	722.1	722.9	725.2
47.5°	704.9	692.1	680.1	671.6	667.9	666.9	666.0	670.0	673.8	675.2	678.7
50°	664.0	649.3	639.2	633.8	630.8	629.1	630.8	635.4	638.4	642.4	644.7
52.5°	618.2	607.8	600.9	596.7	595.4	596.4	596.7	602.0	606.9	608.3	609.4
55°	554.9	547.1	545.6	538.7	541.7	541.0	544.8	548.0	552.6	557.2	558.0
57.5°	491.7	485.5	481.4	482.0	482.9	486.4	489.6	495.0	500.0	504.9	505.3
60°	449.7	446.6	444.2	444.2	445.8	450.4	454.2	459.7	462.8	465.9	468.2
62.5°	411.2	408.2	405.9	407.1	411.1	413.8	418.4	421.3	424.4	427.5	428.6
65°	350.6	349.0	351.3	352.9	353.7	357.6	362.9	365.3	368.4	369.9	375.4
67.5°	294.7	295.0	294.7	296.9	301.3	302.3	307.4	312.9	313.5	316.4	319.9
70°	256.9	258.5	260.0	261.6	265.5	267.0	270.8	273.2	276.3	278.6	280.9
72.5°	222.3	222.6	224.1	223.8	227.0	230.5	233.7	236.0	239.1	242.1	244.4
75°	171.1	171.1	172.6	173.4	177.2	181.1	180.4	181.9	185.0	188.0	189.7
77.5°	124.9	123.2	124.9	125.7	126.9	130.2	130.8	133.0	136.5	135.4	137.1
80°	95.2	92.9	95.2	95.9	95.9	99.9	99.9	101.4	103.7	101.4	103.7
82.5°	68.0	66.9	68.6	68.8	70.0	70.1	71.4	71.7	74.0	72.9	74.0
85°	34.0	33.3	34.0	33.3	34.0	34.8	34.8	34.0	34.0	35.6	33.3
87.5°	11.4	11.0	10.7	11.2	11.0	10.5	9.8	9.7	9.6	8.5	8.6
90°	4.2	5.4	7.2	9.6	11.8	12.1	11.8	11.4	10.7	11.4	11.8
92.5°	12.8	16.2	24.2	35.6	45.7	46.4	39.2	31.1	26.7	23.7	21.5
95°	26.4	34.9	51.4	82.4	123.8	139.9	122.4	93.5	71.7	56.8	48.9
97.5°	37.5	47.2	67.8	111.1	179.9	238.7	250.4	218.1	178.4	139.9	114.1
100°	44.6	54.6	73.5	117.0	194.1	281.9	333.3	325.8	281.6	232.7	189.5
102.5°	51.2	61.2	78.7	117.3	188.6	283.3	364.1	396.3	386.3	350.5	304.8
105°	60.7	70.7	87.5	119.2	178.0	264.4	359.3	433.5	473.8	478.5	466.8
107.5°	70.1	80.2	96.4	124.1	172.8	244.1	328.0	406.7	467.5	504.5	521.8
110°	76.3	86.7	102.4	128.1	171.7	234.4	308.3	383.5	447.5	493.1	522.4



TEST NUMBER: P331422-840

CATALOG NUMBER: SA2XXDIP-C1005D330U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	82.3	93.0	108.2	132.4	171.9	228.1	294.6	362.4	423.7	472.5	506.1
115°	92.1	101.7	117.0	138.8	173.4	221.3	277.6	336.5	391.4	438.2	474.9
117.5°	101.1	111.1	125.2	145.6	176.0	217.8	266.9	316.9	365.2	407.6	442.0
120°	107.0	117.0	131.0	150.3	177.7	215.9	261.2	307.2	351.4	389.3	421.7
122.5°	113.0	123.3	136.3	154.2	179.7	214.7	256.3	299.5	340.0	375.9	405.2
125°	121.7	131.7	144.5	160.6	182.7	212.7	249.4	288.3	325.1	356.5	383.2
127.5°	129.3	139.6	152.1	166.5	185.7	211.5	243.0	277.2	310.5	340.1	364.8
130°	134.2	144.1	156.6	170.2	188.0	210.9	238.7	270.1	300.8	329.0	352.5
132.5°	138.8	148.8	160.7	173.9	190.4	210.6	235.3	263.3	291.6	317.6	339.7
135°	144.9	154.8	166.3	178.7	193.1	210.2	230.5	253.7	277.2	300.8	320.7
137.5°	150.3	159.6	170.9	182.5	195.5	210.1	227.1	246.1	265.8	284.5	301.8
140°	153.4	162.7	173.4	184.5	196.6	209.8	225.1	241.2	258.3	274.8	290.4
142.5°	156.3	165.0	175.4	186.2	197.4	209.8	223.2	237.2	251.8	265.9	279.0
145°	161.0	168.7	178.4	188.4	198.3	209.0	220.6	231.6	243.4	254.4	264.8
147.5°	164.8	171.8	180.9	189.7	198.6	207.8	217.8	227.2	236.5	245.1	252.7
150°	167.3	173.8	182.0	190.2	198.3	206.9	215.5	224.1	232.0	239.4	245.8
152.5°	170.0	175.7	183.1	190.5	197.8	205.5	213.5	221.0	228.2	234.6	240.1
155°	173.4	178.7	184.8	190.9	196.9	203.0	209.8	216.6	222.3	227.6	231.6
157.5°	176.4	180.9	186.0	190.9	195.3	200.5	206.3	211.6	216.3	220.8	223.9
160°	178.4	182.4	186.6	190.9	194.5	198.7	203.7	208.3	212.3	216.2	218.7
162.5°	180.2	183.2	186.9	190.6	193.6	197.3	201.5	205.2	208.6	212.0	213.9
165°	182.0	184.1	187.3	189.9	192.0	194.5	197.6	200.6	203.0	205.5	206.9
167.5°	183.6	184.9	187.2	189.3	190.4	192.0	194.0	196.0	197.9	199.7	201.0
170°	184.1	185.2	186.9	188.7	189.5	190.6	192.0	193.8	194.8	196.2	196.9
172.5°	184.7	185.5	186.7	187.9	188.3	188.8	190.0	191.2	192.0	193.1	193.5
175°	185.2	185.5	186.2	186.9	186.6	186.9	187.3	188.4	188.7	189.1	189.5
177.5°	185.5	185.5	185.8	186.4	185.8	185.5	185.8	186.4	186.4	186.7	186.7
180°	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5



TEST NUMBER: P331422-840

CATALOG NUMBER: SA2XXDIP-C1005D330U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7
2.5°	1931.4	1930.2	1930.2	1924.6	1930.2	1930.2	1931.4	1937.5	1939.4	1940.7	1938.2
5°	1791.6	1789.3	1785.4	1789.3	1785.4	1789.3	1791.6	1802.4	1807.9	1813.3	1818.0
7.5°	1653.4	1644.1	1642.7	1633.6	1642.7	1644.1	1653.4	1658.5	1669.3	1681.5	1692.7
10°	1552.5	1546.3	1545.5	1530.8	1545.5	1546.3	1552.5	1565.6	1576.5	1591.1	1606.6
12.5°	1475.7	1460.9	1463.8	1455.2	1463.8	1460.9	1475.7	1475.8	1488.5	1497.6	1521.9
15°	1342.7	1342.7	1339.7	1326.5	1339.7	1342.7	1342.7	1363.6	1367.5	1382.2	1403.1
17.5°	1247.3	1245.7	1238.3	1241.9	1238.3	1245.7	1247.3	1262.5	1265.2	1284.9	1302.0
20°	1190.2	1185.7	1176.4	1176.4	1176.4	1185.7	1190.2	1198.8	1208.8	1220.4	1235.2
22.5°	1136.4	1136.1	1126.2	1129.3	1126.2	1136.1	1136.4	1144.3	1153.8	1166.6	1178.8
25°	1073.4	1067.2	1062.6	1064.9	1062.6	1067.2	1073.4	1074.2	1085.0	1093.6	1101.3
27.5°	1013.7	1010.3	1010.0	1003.6	1010.0	1010.3	1013.7	1015.7	1021.9	1026.8	1034.1
30°	979.0	971.3	972.8	969.0	972.8	971.3	979.0	979.8	982.9	985.9	994.5
32.5°	939.4	936.5	935.0	931.8	935.0	936.5	939.4	940.8	947.0	950.1	956.7
35°	885.3	886.2	882.2	883.8	882.2	886.2	885.3	886.9	887.7	890.8	897.0
37.5°	838.2	840.6	838.8	839.2	838.8	840.6	838.2	838.9	839.7	840.2	842.0
40°	807.2	807.2	807.2	809.5	807.2	807.2	807.2	804.9	805.7	804.9	804.9
42.5°	777.5	776.3	775.0	774.9	775.0	776.3	777.5	772.0	774.7	772.0	770.8
45°	726.7	729.0	729.8	725.9	729.8	729.0	726.7	725.2	722.9	722.1	721.2
47.5°	680.8	681.1	680.8	684.2	680.8	681.1	680.8	678.7	675.2	673.8	670.0
50°	648.5	647.0	648.5	647.0	648.5	647.0	648.5	644.7	642.4	638.4	635.4
52.5°	614.5	614.8	613.9	613.6	613.9	614.8	614.5	609.4	608.3	606.9	602.0
55°	561.1	562.6	561.9	561.9	561.9	562.6	561.1	558.0	557.2	552.6	548.0
57.5°	505.8	507.3	508.3	504.9	508.3	507.3	505.8	505.3	504.9	500.0	495.0
60°	467.5	471.3	470.5	469.0	470.5	471.3	467.5	468.2	465.9	462.8	459.7
62.5°	432.1	433.5	433.4	433.1	433.4	433.5	432.1	428.6	427.5	424.4	421.3
65°	377.7	379.2	376.9	379.2	376.9	379.2	377.7	375.4	369.9	368.4	365.3
67.5°	319.0	319.5	321.1	322.2	321.1	319.5	319.0	319.9	316.4	313.5	312.9
70°	282.5	281.8	284.1	286.4	284.1	281.8	282.5	280.9	278.6	276.3	273.2
72.5°	244.1	245.8	245.0	246.7	245.0	245.8	244.1	244.4	242.1	239.1	236.0
75°	188.0	190.4	189.7	192.0	189.7	190.4	188.0	189.7	188.0	185.0	181.9
77.5°	135.9	136.2	135.9	137.1	135.9	136.2	135.9	137.1	135.4	136.5	133.0
80°	103.7	102.2	100.6	103.7	100.6	102.2	103.7	103.7	101.4	103.7	101.4
82.5°	72.1	73.0	71.5	71.5	71.5	73.0	72.1	74.0	72.9	74.0	71.7
85°	33.3	32.5	31.0	31.0	31.0	32.5	33.3	33.3	35.6	34.0	34.0
87.5°	8.6	7.9	7.9	7.3	7.9	7.9	8.6	8.6	8.5	9.6	9.7
90°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.4	10.7	11.4
92.5°	21.2	20.1	20.3	19.8	20.3	20.1	21.2	21.5	23.7	26.7	31.1
95°	44.2	41.4	40.3	40.7	40.3	41.4	44.2	48.9	56.8	71.7	93.5
97.5°	97.0	88.3	83.1	80.1	83.1	88.3	97.0	114.1	139.9	178.4	218.1
100°	159.9	144.5	134.2	127.7	134.2	144.5	159.9	189.5	232.7	281.6	325.8
102.5°	272.6	246.4	233.5	224.8	233.5	246.4	272.6	304.8	350.5	386.3	396.3
105°	444.5	422.4	407.1	402.1	407.1	422.4	444.5	466.8	478.5	473.8	433.5
107.5°	524.6	523.4	520.3	513.7	520.3	523.4	524.6	521.8	504.5	467.5	406.7
110°	537.8	544.5	547.8	547.3	547.8	544.5	537.8	522.4	493.1	447.5	383.5



TEST NUMBER: P331422-840

CATALOG NUMBER: SA2XXDIP-C1005D330U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	527.5	538.8	544.8	546.7	544.8	538.8	527.5	506.1	472.5	423.7	362.4
115°	500.3	516.6	525.9	529.2	525.9	516.6	500.3	474.9	438.2	391.4	336.5
117.5°	467.9	485.2	494.9	497.7	494.9	485.2	467.9	442.0	407.6	365.2	316.9
120°	446.8	463.5	473.8	477.5	473.8	463.5	446.8	421.7	389.3	351.4	307.2
122.5°	427.6	444.1	453.3	456.3	453.3	444.1	427.6	405.2	375.9	340.0	299.5
125°	403.9	417.5	426.4	429.3	426.4	417.5	403.9	383.2	356.5	325.1	288.3
127.5°	382.8	395.6	403.2	405.6	403.2	395.6	382.8	364.8	340.1	310.5	277.2
130°	370.0	382.1	389.3	392.1	389.3	382.1	370.0	352.5	329.0	300.8	270.1
132.5°	356.9	369.0	375.6	378.2	375.6	369.0	356.9	339.7	317.6	291.6	263.3
135°	336.1	347.9	354.4	355.8	354.4	347.9	336.1	320.7	300.8	277.2	253.7
137.5°	315.9	326.0	331.6	333.8	331.6	326.0	315.9	301.8	284.5	265.8	246.1
140°	301.8	311.1	316.5	318.6	316.5	311.1	301.8	290.4	274.8	258.3	241.2
142.5°	289.8	298.3	303.1	303.5	303.1	298.3	289.8	279.0	265.9	251.8	237.2
145°	273.3	279.4	283.0	284.0	283.0	279.4	273.3	264.8	254.4	243.4	231.6
147.5°	259.7	264.6	267.0	267.7	267.0	264.6	259.7	252.7	245.1	236.5	227.2
150°	251.2	255.5	257.6	258.0	257.6	255.5	251.2	245.8	239.4	232.0	224.1
152.5°	244.4	248.0	249.6	249.7	249.6	248.0	244.4	240.1	234.6	228.2	221.0
155°	235.5	238.0	239.4	238.7	239.4	238.0	235.5	231.6	227.6	222.3	216.6
157.5°	226.6	228.7	229.3	229.3	229.3	228.7	226.6	223.9	220.8	216.3	211.6
160°	221.3	223.0	223.4	223.4	223.4	223.0	221.3	218.7	216.2	212.3	208.3
162.5°	216.4	217.6	217.9	217.6	217.9	217.6	216.4	213.9	212.0	208.6	205.2
165°	208.3	209.8	209.8	209.4	209.8	209.8	208.3	206.9	205.5	203.0	200.6
167.5°	201.6	202.4	202.3	201.9	202.3	202.4	201.6	201.0	199.7	197.9	196.0
170°	197.3	198.3	198.0	197.3	198.0	198.3	197.3	196.9	196.2	194.8	193.8
172.5°	193.9	194.4	194.0	193.6	194.0	194.4	193.9	193.5	193.1	192.0	191.2
175°	189.5	189.9	189.5	188.7	189.5	189.9	189.5	189.5	189.1	188.7	188.4
177.5°	186.7	186.7	186.4	185.8	186.4	186.7	186.7	186.7	186.7	186.4	186.4
180°	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5



TEST NUMBER: P331422-840

CATALOG NUMBER: SA2XXDIP-C1005D330U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7
2.5°	1935.1	1941.9	1952.5	1963.6	1970.3	1983.4	1987.1	1993.3	1998.8	2011.9	2025.5
5°	1823.3	1834.2	1859.7	1873.6	1893.0	1915.4	1930.2	1945.6	1962.7	1992.1	2019.1
7.5°	1703.5	1721.6	1753.3	1779.4	1807.0	1839.2	1862.3	1893.0	1918.3	1959.8	1999.4
10°	1623.7	1649.2	1677.9	1708.8	1747.5	1781.5	1814.0	1852.7	1883.7	1933.2	1979.6
12.5°	1551.9	1555.7	1596.7	1630.8	1683.7	1725.9	1763.3	1813.1	1843.4	1902.3	1951.2
15°	1426.3	1449.6	1486.7	1513.8	1576.5	1629.8	1682.4	1734.3	1769.2	1841.9	1906.1
17.5°	1320.6	1342.0	1380.1	1424.4	1469.5	1522.6	1590.7	1645.4	1692.7	1775.8	1851.8
20°	1253.7	1280.0	1318.8	1364.4	1403.9	1461.9	1520.8	1583.5	1634.5	1728.2	1817.2
22.5°	1196.8	1217.5	1248.8	1293.8	1337.0	1390.1	1454.5	1522.8	1576.3	1677.4	1767.6
25°	1116.7	1133.8	1153.9	1191.0	1239.8	1297.9	1348.2	1423.2	1501.4	1595.8	1705.0
27.5°	1044.6	1056.7	1074.5	1107.1	1144.9	1199.2	1255.2	1326.4	1404.9	1507.4	1622.6
30°	1000.7	1008.5	1026.2	1053.3	1090.5	1133.0	1189.5	1257.6	1338.1	1441.8	1556.3
32.5°	962.3	969.4	981.0	1006.8	1039.1	1075.4	1126.3	1194.5	1271.2	1373.1	1500.0
35°	904.7	910.1	920.2	941.1	958.9	994.5	1037.0	1098.9	1170.9	1268.5	1400.0
37.5°	847.3	854.7	860.9	869.7	892.6	916.0	953.0	1005.3	1075.9	1174.4	1299.7
40°	809.5	815.7	825.0	828.9	847.5	868.3	898.5	946.4	1017.7	1107.4	1229.7
42.5°	771.1	777.3	782.8	787.4	803.4	821.9	849.0	890.2	953.3	1040.6	1161.6
45°	718.9	719.7	725.2	733.7	741.4	754.6	774.0	809.5	858.3	940.3	1050.2
47.5°	666.0	666.9	667.9	671.6	680.1	692.1	704.9	733.9	777.5	842.9	949.9
50°	630.8	629.1	630.8	633.8	639.2	649.3	664.0	684.9	720.5	781.6	879.9
52.5°	596.7	596.4	595.4	596.7	600.9	607.8	618.2	636.0	667.9	724.1	810.6
55°	544.8	541.0	541.7	538.7	545.6	547.1	554.9	569.6	597.4	636.1	717.4
57.5°	489.6	486.4	482.9	482.0	481.4	485.5	491.7	503.3	524.7	558.7	624.5
60°	454.2	450.4	445.8	444.2	444.2	446.6	449.7	458.2	478.3	508.5	562.6
62.5°	418.4	413.8	411.1	407.1	405.9	408.2	411.2	417.3	431.8	460.2	507.0
65°	362.9	357.6	353.7	352.9	351.3	349.0	350.6	356.8	368.4	390.8	428.0
67.5°	307.4	302.3	301.3	296.9	294.7	295.0	294.7	299.9	306.9	326.3	354.0
70°	270.8	267.0	265.5	261.6	260.0	258.5	256.9	261.6	268.5	284.8	308.8
72.5°	233.7	230.5	227.0	223.8	224.1	222.6	222.3	225.1	230.8	245.8	264.2
75°	180.4	181.1	177.2	173.4	172.6	171.1	171.1	173.4	175.7	187.3	202.0
77.5°	130.8	130.2	126.9	125.7	124.9	123.2	124.9	126.4	127.6	135.4	146.2
80°	99.9	99.9	95.9	95.9	95.2	92.9	95.2	93.6	96.7	104.5	112.2
82.5°	71.4	70.1	70.0	68.8	68.6	66.9	68.0	69.5	70.7	76.0	80.7
85°	34.8	34.8	34.0	33.3	34.0	33.3	34.0	34.8	35.6	38.0	41.8
87.5°	9.8	10.5	11.0	11.2	10.7	11.0	11.4	11.8	12.9	13.3	13.7
90°	11.8	12.1	11.8	9.6	7.2	5.4	4.2	3.5	2.8	1.4	0.4
92.5°	39.2	46.4	45.7	35.6	24.2	16.2	12.8	10.4	8.9	6.3	4.3
95°	122.4	139.9	123.8	82.4	51.4	34.9	26.4	20.7	17.5	13.9	12.5
97.5°	250.4	238.7	179.9	111.1	67.8	47.2	37.5	30.9	26.1	22.2	20.3
100°	333.3	281.9	194.1	117.0	73.5	54.6	44.6	37.5	31.7	28.6	27.5
102.5°	364.1	283.3	188.6	117.3	78.7	61.2	51.2	43.7	38.1	34.8	34.0
105°	359.3	264.4	178.0	119.2	87.5	70.7	60.7	52.8	47.5	44.9	43.5
107.5°	328.0	244.1	172.8	124.1	96.4	80.2	70.1	62.3	57.4	54.9	53.8
110°	308.3	234.4	171.7	128.1	102.4	86.7	76.3	68.9	64.2	62.1	60.7



TEST NUMBER: P331422-840

CATALOG NUMBER: SA2XXDIP-C1005D330U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	294.6	228.1	171.9	132.4	108.2	93.0	82.3	75.1	70.8	68.4	67.0
115°	277.6	221.3	173.4	138.8	117.0	101.7	92.1	84.9	80.7	78.5	76.7
117.5°	266.9	217.8	176.0	145.6	125.2	111.1	101.1	94.2	90.4	88.3	86.8
120°	261.2	215.9	177.7	150.3	131.0	117.0	107.0	99.9	96.7	94.5	93.1
122.5°	256.3	214.7	179.7	154.2	136.3	123.3	113.0	105.9	102.4	100.3	99.2
125°	249.4	212.7	182.7	160.6	144.5	131.7	121.7	114.5	110.3	108.2	107.0
127.5°	243.0	211.5	185.7	166.5	152.1	139.6	129.3	122.5	117.8	114.7	113.3
130°	238.7	210.9	188.0	170.2	156.6	144.1	134.2	127.0	122.0	118.5	117.0
132.5°	235.3	210.6	190.4	173.9	160.7	148.8	138.8	131.3	126.0	122.2	120.5
135°	230.5	210.2	193.1	178.7	166.3	154.8	144.9	136.6	131.3	127.0	125.6
137.5°	227.1	210.1	195.5	182.5	170.9	159.6	150.3	142.2	136.4	132.2	130.5
140°	225.1	209.8	196.6	184.5	173.4	162.7	153.4	145.6	139.9	135.6	134.2
142.5°	223.2	209.8	197.4	186.2	175.4	165.0	156.3	148.8	143.0	139.1	137.8
145°	220.6	209.0	198.3	188.4	178.4	168.7	161.0	153.8	148.5	144.9	143.4
147.5°	217.8	207.8	198.6	189.7	180.9	171.8	164.8	158.9	153.9	150.5	149.5
150°	215.5	206.9	198.3	190.2	182.0	173.8	167.3	162.0	157.3	154.5	153.4
152.5°	213.5	205.5	197.8	190.5	183.1	175.7	170.0	164.8	160.8	157.9	157.4
155°	209.8	203.0	196.9	190.9	184.8	178.7	173.4	169.5	165.5	163.4	163.1
157.5°	206.3	200.5	195.3	190.9	186.0	180.9	176.4	173.3	169.9	168.1	167.7
160°	203.7	198.7	194.5	190.9	186.6	182.4	178.4	175.5	172.7	171.3	170.9
162.5°	201.5	197.3	193.6	190.6	186.9	183.2	180.2	177.5	175.3	173.8	174.1
165°	197.6	194.5	192.0	189.9	187.3	184.1	182.0	180.2	178.0	177.3	177.7
167.5°	194.0	192.0	190.4	189.3	187.2	184.9	183.6	182.3	180.9	180.3	180.7
170°	192.0	190.6	189.5	188.7	186.9	185.2	184.1	183.4	182.4	182.0	182.7
172.5°	190.0	188.8	188.3	187.9	186.7	185.5	184.7	184.3	183.2	183.4	183.8
175°	187.3	186.9	186.6	186.9	186.2	185.5	185.2	185.2	184.5	184.8	185.2
177.5°	185.8	185.5	185.8	186.4	185.8	185.5	185.5	185.5	185.0	185.2	185.8
180°	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5



TEST NUMBER: P331422-840

CATALOG NUMBER: SA2XXDIP-C1005D330U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7
2.5°	2024.3	2027.3	2037.2	2047.2	2058.3	2061.4	2066.4	2062.0	2060.7	2072.5	2081.2
5°	2029.9	2043.9	2071.0	2095.8	2116.7	2131.3	2146.9	2153.0	2164.6	2180.9	2201.0
7.5°	2023.5	2050.5	2093.1	2129.2	2168.5	2196.9	2219.0	2237.9	2260.8	2291.6	2325.1
10°	2016.0	2052.4	2104.3	2148.4	2196.4	2232.7	2262.9	2292.3	2326.4	2368.9	2413.1
12.5°	2002.5	2045.6	2110.4	2162.6	2224.2	2260.0	2300.7	2364.2	2400.7	2459.9	2522.0
15°	1975.0	2023.0	2113.5	2177.8	2247.5	2315.5	2390.7	2450.9	2511.3	2546.2	2633.6
17.5°	1934.3	2004.8	2105.1	2180.0	2268.5	2375.7	2460.1	2528.5	2598.2	2654.6	2698.5
20°	1901.5	1978.1	2092.6	2182.4	2287.6	2403.0	2499.7	2569.4	2629.8	2677.0	2704.0
22.5°	1860.0	1956.4	2067.9	2173.1	2307.5	2421.6	2523.2	2578.1	2628.5	2651.6	2661.9
25°	1794.7	1910.8	2036.9	2165.5	2317.1	2437.8	2530.7	2563.9	2578.7	2556.3	2519.1
27.5°	1724.2	1853.7	2001.1	2150.8	2311.2	2427.3	2493.9	2488.6	2463.7	2391.1	2333.0
30°	1671.6	1814.0	1972.7	2136.0	2296.9	2409.9	2448.6	2409.9	2353.5	2272.2	2189.4
32.5°	1616.6	1763.9	1942.4	2115.0	2271.0	2370.4	2378.7	2312.2	2224.7	2132.3	2029.0
35°	1533.1	1692.5	1885.2	2067.9	2215.7	2278.4	2241.3	2123.6	2019.9	1893.8	1752.9
37.5°	1438.9	1614.9	1808.2	1999.0	2132.9	2149.3	2057.1	1933.2	1787.0	1638.7	1472.9
40°	1368.3	1554.8	1753.7	1946.4	2064.8	2047.8	1930.2	1793.9	1619.8	1438.7	1284.6
42.5°	1305.1	1491.7	1694.3	1883.2	1978.1	1931.4	1793.9	1626.8	1439.7	1269.1	1128.0
45°	1195.7	1387.7	1595.1	1777.7	1831.9	1747.5	1565.6	1379.9	1195.7	1053.3	941.9
47.5°	1089.5	1279.3	1484.7	1645.2	1664.4	1551.0	1352.2	1161.0	1002.7	886.8	808.1
50°	1011.5	1201.8	1405.4	1548.6	1542.4	1405.4	1201.1	1019.3	886.9	793.2	740.6
52.5°	941.5	1121.4	1316.9	1447.0	1414.2	1264.9	1069.9	908.4	799.6	726.4	678.7
55°	832.7	999.2	1184.9	1289.3	1229.0	1063.4	898.5	768.5	688.0	633.1	595.9
57.5°	724.7	880.7	1039.7	1104.1	1037.3	884.4	747.0	652.7	592.2	551.5	527.4
60°	657.8	794.1	935.6	991.4	911.7	775.5	667.1	582.8	534.0	500.7	479.1
62.5°	591.0	713.0	846.5	876.9	804.0	688.8	592.8	522.7	482.6	453.0	432.6
65°	500.0	599.8	701.1	721.2	654.0	564.9	489.1	443.4	407.9	386.2	369.9
67.5°	410.0	490.2	562.0	578.2	519.3	457.6	402.7	362.9	338.8	320.8	307.1
70°	356.8	420.2	479.1	492.2	445.0	390.0	348.3	316.5	294.9	279.4	266.2
72.5°	300.4	353.4	402.2	411.1	372.5	330.6	296.3	271.4	252.2	242.3	229.7
75°	229.8	260.8	298.7	301.0	275.5	249.9	223.7	207.4	197.3	185.0	178.7
77.5°	162.2	186.5	208.1	212.4	197.2	179.9	165.1	152.3	143.8	138.0	132.3
80°	123.8	143.2	152.5	157.8	147.0	134.6	126.1	117.6	112.2	108.4	104.5
82.5°	88.6	100.5	109.2	113.3	107.4	100.0	91.5	86.6	82.5	79.3	77.9
85°	44.8	50.3	55.7	57.3	55.7	52.6	48.0	48.0	45.6	44.8	44.8
87.5°	15.8	18.5	18.7	20.7	19.7	20.0	20.5	20.3	19.8	19.1	18.4
90°	1.4	2.8	3.5	4.2	5.4	7.2	9.6	11.8	12.1	11.8	11.4
92.5°	6.3	8.9	10.4	12.8	16.2	24.2	35.6	45.7	46.4	39.2	31.1
95°	13.9	17.5	20.7	26.4	34.9	51.4	82.4	123.8	139.9	122.4	93.5
97.5°	22.2	26.1	30.9	37.5	47.2	67.8	111.1	179.9	238.7	250.4	218.1
100°	28.6	31.7	37.5	44.6	54.6	73.5	117.0	194.1	281.9	333.3	325.8
102.5°	34.8	38.1	43.7	51.2	61.2	78.7	117.3	188.6	283.3	364.1	396.3
105°	44.9	47.5	52.8	60.7	70.7	87.5	119.2	178.0	264.4	359.3	433.5
107.5°	54.9	57.4	62.3	70.1	80.2	96.4	124.1	172.8	244.1	328.0	406.7
110°	62.1	64.2	68.9	76.3	86.7	102.4	128.1	171.7	234.4	308.3	383.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	68.4	70.8	75.1	82.3	93.0	108.2	132.4	171.9	228.1	294.6	362.4
115°	78.5	80.7	84.9	92.1	101.7	117.0	138.8	173.4	221.3	277.6	336.5
117.5°	88.3	90.4	94.2	101.1	111.1	125.2	145.6	176.0	217.8	266.9	316.9
120°	94.5	96.7	99.9	107.0	117.0	131.0	150.3	177.7	215.9	261.2	307.2
122.5°	100.3	102.4	105.9	113.0	123.3	136.3	154.2	179.7	214.7	256.3	299.5
125°	108.2	110.3	114.5	121.7	131.7	144.5	160.6	182.7	212.7	249.4	288.3
127.5°	114.7	117.8	122.5	129.3	139.6	152.1	166.5	185.7	211.5	243.0	277.2
130°	118.5	122.0	127.0	134.2	144.1	156.6	170.2	188.0	210.9	238.7	270.1
132.5°	122.2	126.0	131.3	138.8	148.8	160.7	173.9	190.4	210.6	235.3	263.3
135°	127.0	131.3	136.6	144.9	154.8	166.3	178.7	193.1	210.2	230.5	253.7
137.5°	132.2	136.4	142.2	150.3	159.6	170.9	182.5	195.5	210.1	227.1	246.1
140°	135.6	139.9	145.6	153.4	162.7	173.4	184.5	196.6	209.8	225.1	241.2
142.5°	139.1	143.0	148.8	156.3	165.0	175.4	186.2	197.4	209.8	223.2	237.2
145°	144.9	148.5	153.8	161.0	168.7	178.4	188.4	198.3	209.0	220.6	231.6
147.5°	150.5	153.9	158.9	164.8	171.8	180.9	189.7	198.6	207.8	217.8	227.2
150°	154.5	157.3	162.0	167.3	173.8	182.0	190.2	198.3	206.9	215.5	224.1
152.5°	157.9	160.8	164.8	170.0	175.7	183.1	190.5	197.8	205.5	213.5	221.0
155°	163.4	165.5	169.5	173.4	178.7	184.8	190.9	196.9	203.0	209.8	216.6
157.5°	168.1	169.9	173.3	176.4	180.9	186.0	190.9	195.3	200.5	206.3	211.6
160°	171.3	172.7	175.5	178.4	182.4	186.6	190.9	194.5	198.7	203.7	208.3
162.5°	173.8	175.3	177.5	180.2	183.2	186.9	190.6	193.6	197.3	201.5	205.2
165°	177.3	178.0	180.2	182.0	184.1	187.3	189.9	192.0	194.5	197.6	200.6
167.5°	180.3	180.9	182.3	183.6	184.9	187.2	189.3	190.4	192.0	194.0	196.0
170°	182.0	182.4	183.4	184.1	185.2	186.9	188.7	189.5	190.6	192.0	193.8
172.5°	183.4	183.2	184.3	184.7	185.5	186.7	187.9	188.3	188.8	190.0	191.2
175°	184.8	184.5	185.2	185.2	185.5	186.2	186.9	186.6	186.9	187.3	188.4
177.5°	185.2	185.0	185.5	185.5	185.5	185.8	186.4	185.8	185.5	185.8	186.4
180°	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7
2.5°	2088.6	2097.3	2097.3	2098.5	2108.4	2107.2	2106.6
5°	2222.7	2235.8	2237.4	2251.3	2260.6	2257.5	2249.0
7.5°	2349.1	2373.6	2392.2	2402.6	2414.8	2422.4	2418.9
10°	2449.4	2485.1	2506.7	2521.4	2539.2	2552.3	2547.7
12.5°	2540.4	2582.8	2612.6	2637.8	2640.1	2657.0	2645.5
15°	2682.4	2727.2	2731.9	2750.5	2765.2	2763.6	2764.4
17.5°	2729.3	2743.7	2746.6	2747.0	2747.2	2741.8	2730.1
20°	2712.6	2707.1	2694.0	2683.9	2666.1	2663.8	2648.4
22.5°	2633.3	2616.2	2583.1	2561.3	2533.7	2526.4	2522.0
25°	2477.3	2439.3	2386.7	2336.4	2322.5	2295.4	2303.2
27.5°	2263.2	2204.1	2147.2	2106.3	2069.3	2028.7	2040.3
30°	2112.7	2046.2	1965.7	1903.8	1864.3	1825.6	1818.7
32.5°	1933.2	1835.7	1746.0	1691.4	1630.9	1606.5	1579.7
35°	1623.7	1528.4	1439.5	1362.8	1318.8	1284.6	1253.7
37.5°	1345.2	1235.7	1163.8	1101.8	1069.9	1050.4	1055.3
40°	1172.5	1076.5	1023.9	976.6	947.3	933.3	936.4
42.5°	1032.6	960.7	917.4	885.0	864.3	856.6	854.7
45°	873.7	833.5	797.9	779.3	769.3	760.7	755.4
47.5°	765.4	732.6	712.5	701.5	692.7	684.0	683.8
50°	700.3	678.7	664.8	653.2	646.2	640.1	645.4
52.5°	650.9	631.1	617.1	606.7	604.1	598.5	598.3
55°	577.3	561.9	551.8	542.5	537.9	534.7	530.9
57.5°	510.5	495.7	486.5	480.6	471.8	468.7	467.5
60°	462.8	451.2	441.9	434.1	430.3	424.1	424.1
62.5°	418.8	407.3	398.6	392.6	386.4	383.8	384.5
65°	355.3	346.0	337.4	331.2	329.7	325.1	326.6
67.5°	296.7	290.5	281.6	278.1	275.2	272.8	270.8
70°	257.7	251.6	246.9	242.3	239.9	239.9	239.9
72.5°	224.9	217.4	214.7	208.8	210.2	207.7	205.2
75°	174.1	169.5	167.1	164.8	161.0	161.0	161.0
77.5°	128.2	126.7	124.0	121.5	120.6	119.8	120.1
80°	99.1	98.3	96.7	96.7	95.2	94.4	92.9
82.5°	76.1	74.1	73.2	72.6	72.3	72.1	71.8
85°	43.3	41.8	41.8	42.5	41.0	41.0	41.8
87.5°	18.9	19.0	18.5	18.5	19.1	18.5	18.5
90°	10.7	11.4	11.8	11.8	11.8	11.8	11.8
92.5°	26.7	23.7	21.5	21.2	20.1	20.3	19.8
95°	71.7	56.8	48.9	44.2	41.4	40.3	40.7
97.5°	178.4	139.9	114.1	97.0	88.3	83.1	80.1
100°	281.6	232.7	189.5	159.9	144.5	134.2	127.7
102.5°	386.3	350.5	304.8	272.6	246.4	233.5	224.8
105°	473.8	478.5	466.8	444.5	422.4	407.1	402.1
107.5°	467.5	504.5	521.8	524.6	523.4	520.3	513.7
110°	447.5	493.1	522.4	537.8	544.5	547.8	547.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	423.7	472.5	506.1	527.5	538.8	544.8	546.7
115°	391.4	438.2	474.9	500.3	516.6	525.9	529.2
117.5°	365.2	407.6	442.0	467.9	485.2	494.9	497.7
120°	351.4	389.3	421.7	446.8	463.5	473.8	477.5
122.5°	340.0	375.9	405.2	427.6	444.1	453.3	456.3
125°	325.1	356.5	383.2	403.9	417.5	426.4	429.3
127.5°	310.5	340.1	364.8	382.8	395.6	403.2	405.6
130°	300.8	329.0	352.5	370.0	382.1	389.3	392.1
132.5°	291.6	317.6	339.7	356.9	369.0	375.6	378.2
135°	277.2	300.8	320.7	336.1	347.9	354.4	355.8
137.5°	265.8	284.5	301.8	315.9	326.0	331.6	333.8
140°	258.3	274.8	290.4	301.8	311.1	316.5	318.6
142.5°	251.8	265.9	279.0	289.8	298.3	303.1	303.5
145°	243.4	254.4	264.8	273.3	279.4	283.0	284.0
147.5°	236.5	245.1	252.7	259.7	264.6	267.0	267.7
150°	232.0	239.4	245.8	251.2	255.5	257.6	258.0
152.5°	228.2	234.6	240.1	244.4	248.0	249.6	249.7
155°	222.3	227.6	231.6	235.5	238.0	239.4	238.7
157.5°	216.3	220.8	223.9	226.6	228.7	229.3	229.3
160°	212.3	216.2	218.7	221.3	223.0	223.4	223.4
162.5°	208.6	212.0	213.9	216.4	217.6	217.9	217.6
165°	203.0	205.5	206.9	208.3	209.8	209.8	209.4
167.5°	197.9	199.7	201.0	201.6	202.4	202.3	201.9
170°	194.8	196.2	196.9	197.3	198.3	198.0	197.3
172.5°	192.0	193.1	193.5	193.9	194.4	194.0	193.6
175°	188.7	189.1	189.5	189.5	189.9	189.5	188.7
177.5°	186.4	186.7	186.7	186.7	186.7	186.4	185.8
180°	185.5	185.5	185.5	185.5	185.5	185.5	185.5

(END OF REPORT)