

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: P331420-840

Luminaire Tested: **S122DIP-S1005D330U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331420-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIP-S1005D330U840-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 330 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5766.2 lumens
Efficiency: N/A
Efficacy: 115.8 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

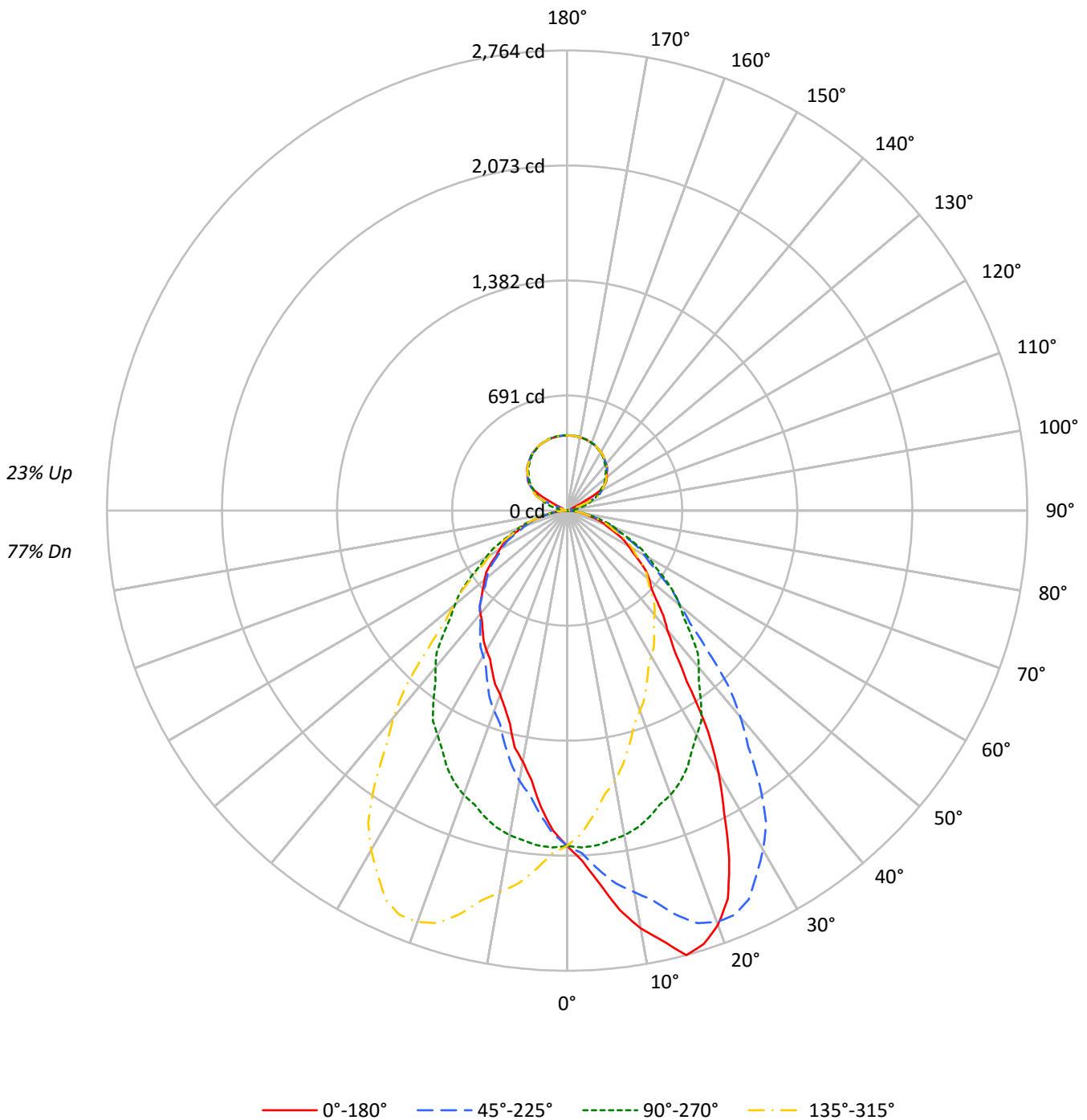
Input Watts (W): 49.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	98	98	89	89	89	81	81	81	77
1	105	100	97	93	100	96	93	90	88	85	83	80	78	76	73	71	70	66
2	96	89	83	77	91	85	79	75	78	73	70	71	68	65	65	62	60	57
3	88	79	71	65	84	75	69	63	69	64	59	64	59	56	58	55	52	49
4	81	70	62	56	77	67	60	55	62	56	51	57	52	48	53	49	45	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	47	42	51	45	40	47	42	38	44	39	36	33
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	34	31	37	32	29	27
9	56	44	36	31	54	42	35	30	39	33	29	37	32	28	34	30	26	25
10	53	40	33	28	50	39	32	28	37	31	26	34	29	25	32	27	24	22

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	14.0
30°-40°	853.9	14.8
40°-50°	756.0	13.1
50°-60°	603.3	10.5
60°-70°	410.1	7.1
70°-80°	210.2	3.6
80°-90°	51.8	0.9
90°-100°	15.1	0.3
100°-110°	55.2	1.0
110°-120°	147.6	2.6
120°-130°	243.6	4.2
130°-140°	259.0	4.5
140°-150°	240.8	4.2
150°-160°	193.6	3.4
160°-170°	124.7	2.2
170°-180°	42.9	0.7
0°-30°	1558.5	27.0
0°-40°	2412.3	41.8
0°-60°	3771.7	65.4
0°-90°	4443.8	77.1
90°-120°	217.8	3.8
90°-150°	961.2	16.7
90°-180°	1322.0	22.9
0°-180°	5766.2	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°	9	0	9	0	9	6
95°	14	21	14	21	14	13
105°	25	99	25	99	25	26
115°	27	188	27	188	27	67
125°	279	266	279	266	279	242
135°	339	328	339	328	339	261
145°	387	381	387	381	387	242
155°	420	420	420	420	420	194
165°	441	442	441	442	441	125
175°	450	452	450	452	450	43
180°	451	451	451	451	451	



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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°	17.9	17.9	18.4	17.8	17.8	18.3	18.3	17.6	18.1	18.7	19.2
90°	8.8	8.7	8.5	8.4	8.3	8.0	7.6	7.3	6.9	6.6	6.0
92.5°	8.8	8.7	8.7	8.6	8.5	8.3	8.2	8.0	7.8	7.6	7.3
95°	14.0	14.1	14.1	14.2	14.3	14.1	13.8	13.4	13.1	12.7	12.2
97.5°	18.8	18.7	18.6	18.5	18.4	18.2	17.9	17.7	17.4	17.1	15.9
100°	21.9	21.7	21.6	21.4	21.3	20.9	20.4	19.8	19.2	18.6	17.4
102.5°	23.4	23.2	23.0	22.8	22.6	22.1	21.4	20.6	19.9	19.1	29.5
105°	24.8	24.5	24.2	23.9	23.6	23.1	22.3	21.5	20.7	19.9	39.7
107.5°	25.5	25.2	24.9	24.6	24.3	24.6	25.4	26.3	27.1	27.9	51.6
110°	25.8	25.5	25.2	24.9	24.6	28.1	35.3	42.6	49.9	57.2	78.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	26.1	25.9	25.5	25.3	25.1	38.3	64.7	91.2	117.6	144.1	149.3
115°	26.8	32.0	37.3	42.4	47.7	67.1	100.7	134.3	167.8	201.5	199.7
117.5°	109.4	126.5	143.7	160.9	178.0	190.7	198.7	206.9	215.0	223.2	221.9
120°	199.1	208.9	218.7	228.5	238.3	242.8	242.0	241.1	240.2	239.3	238.0
122.5°	248.5	250.4	252.4	254.3	256.1	256.8	256.3	255.8	255.3	254.8	253.4
125°	279.1	278.9	278.7	278.5	278.3	277.9	277.4	276.9	276.4	275.9	274.5
127.5°	298.5	298.4	298.4	298.4	298.3	297.9	297.2	296.5	295.7	295.0	294.0
130°	310.5	310.6	310.6	310.7	310.8	310.4	309.6	308.8	308.0	307.3	306.5
132.5°	322.2	322.3	322.4	322.4	322.6	322.2	321.5	320.9	320.2	319.5	318.7
135°	339.2	339.4	339.5	339.7	339.8	339.5	338.8	338.1	337.4	336.7	336.0
137.5°	354.8	355.0	355.3	355.5	355.7	355.5	354.8	354.1	353.4	352.6	351.9
140°	364.4	364.8	365.2	365.5	365.9	365.7	365.1	364.4	363.8	363.0	362.3
142.5°	373.8	374.2	374.6	374.9	375.3	375.2	374.6	374.0	373.3	372.7	371.8
145°	386.9	387.3	387.7	388.0	388.4	388.3	387.8	387.3	386.8	386.3	385.1
147.5°	398.5	398.8	399.1	399.4	399.7	399.7	399.3	398.9	398.5	398.2	397.0
150°	405.6	405.9	406.3	406.7	407.0	407.0	406.5	406.1	405.7	405.3	404.0
152.5°	411.5	412.0	412.5	412.9	413.4	413.4	413.0	412.6	412.1	411.7	410.6
155°	419.9	420.5	421.1	421.6	422.2	422.3	421.8	421.4	421.0	420.5	419.7
157.5°	427.6	428.1	428.7	429.2	429.8	429.8	429.4	428.9	428.4	427.9	427.3
160°	432.0	432.5	433.0	433.5	434.0	434.0	433.6	433.2	432.7	432.3	431.9
162.5°	435.7	436.3	436.9	437.5	438.2	438.2	437.7	437.2	436.8	436.3	435.9
165°	441.1	441.6	442.1	442.6	443.1	443.1	442.6	442.1	441.6	441.1	440.9
167.5°	444.5	445.2	445.9	446.6	447.2	447.3	446.8	446.3	445.8	445.2	445.0
170°	446.7	447.4	448.0	448.7	449.3	449.4	448.9	448.4	447.9	447.4	447.2
172.5°	448.3	448.9	449.6	450.2	450.9	450.9	450.4	449.9	449.4	448.9	448.8
175°	449.6	450.3	451.1	451.8	452.5	452.6	452.1	451.6	451.1	450.6	450.5
177.5°	450.5	451.0	451.5	452.0	452.5	452.6	452.2	451.8	451.4	451.0	450.9
180°	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2



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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°	19.7	19.5	19.4	20.5	18.5	18.4	15.7	13.7	13.2	12.7	11.7
90°	5.4	4.7	4.2	3.5	2.7	1.9	1.1	0.3	1.1	1.9	2.7
92.5°	7.0	6.7	6.5	6.3	6.4	6.5	6.6	6.6	6.6	6.5	6.4
95°	11.7	11.2	10.7	11.6	14.0	16.5	18.8	21.2	18.8	16.5	14.0
97.5°	14.6	13.5	12.3	15.1	21.9	28.6	35.3	42.1	35.3	28.6	21.9
100°	16.2	14.9	13.6	18.1	28.0	37.9	47.9	57.8	47.9	37.9	28.0
102.5°	39.8	50.1	60.4	66.7	68.8	70.8	72.9	75.0	72.9	70.8	68.8
105°	59.6	79.4	99.2	108.0	105.8	103.6	101.4	99.3	101.4	103.6	105.8
107.5°	75.4	99.2	122.9	133.9	132.2	130.4	128.7	126.8	128.7	130.4	132.2
110°	99.1	120.1	141.0	150.8	149.3	147.7	146.1	144.6	146.1	147.7	149.3



TEST NUMBER: P331420-840

CATALOG NUMBER: S122DIP-S1005D330U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	154.5	159.7	164.8	166.7	165.4	164.1	162.7	161.4	162.7	164.1	165.4
115°	197.8	196.0	194.2	192.7	191.5	190.3	188.9	187.7	188.9	190.3	191.5
117.5°	220.7	219.4	218.1	216.8	215.5	214.1	212.7	211.4	212.7	214.1	215.5
120°	236.7	235.4	234.1	232.9	231.9	230.8	229.6	228.5	229.6	230.8	231.9
122.5°	251.9	250.4	249.0	247.8	246.6	245.5	244.4	243.2	244.4	245.5	246.6
125°	273.2	271.8	270.4	269.2	268.3	267.3	266.4	265.5	266.4	267.3	268.3
127.5°	293.0	291.9	290.8	289.8	288.8	287.7	286.7	285.6	286.7	287.7	288.8
130°	305.7	304.9	304.1	303.1	301.9	300.7	299.6	298.4	299.6	300.7	301.9
132.5°	317.9	317.1	316.3	315.5	314.5	313.5	312.5	311.5	312.5	313.5	314.5
135°	335.4	334.7	334.1	333.2	331.9	330.8	329.6	328.5	329.6	330.8	331.9
137.5°	351.1	350.4	349.7	348.9	348.1	347.3	346.5	345.7	346.5	347.3	348.1
140°	361.5	360.7	359.9	359.2	358.6	358.0	357.5	356.9	357.5	358.0	358.6
142.5°	370.9	370.0	369.1	368.4	367.9	367.3	366.8	366.3	366.8	367.3	367.9
145°	383.8	382.5	381.3	380.7	380.8	380.9	381.0	381.0	381.0	380.9	380.8
147.5°	395.8	394.5	393.2	392.8	393.0	393.3	393.6	393.9	393.6	393.3	393.0
150°	402.9	401.7	400.6	400.2	400.7	401.2	401.7	402.2	401.7	401.2	400.7
152.5°	409.5	408.4	407.3	407.1	407.6	408.2	408.8	409.3	408.8	408.2	407.6
155°	418.8	418.0	417.1	417.0	417.6	418.3	418.9	419.6	418.9	418.3	417.6
157.5°	426.7	426.1	425.5	425.4	426.0	426.5	427.1	427.6	427.1	426.5	426.0
160°	431.4	431.0	430.6	430.6	431.0	431.4	431.9	432.3	431.9	431.4	431.0
162.5°	435.5	435.0	434.7	434.7	435.2	435.7	436.1	436.5	436.1	435.7	435.2
165°	440.7	440.5	440.3	440.4	440.8	441.2	441.7	442.1	441.7	441.2	440.8
167.5°	444.8	444.6	444.4	444.5	444.9	445.5	445.9	446.3	445.9	445.5	444.9
170°	447.1	446.9	446.8	446.9	447.4	447.8	448.2	448.7	448.2	447.8	447.4
172.5°	448.6	448.5	448.3	448.5	448.9	449.3	449.8	450.2	449.8	449.3	448.9
175°	450.3	450.2	450.0	450.2	450.7	451.2	451.7	452.2	451.7	451.2	450.7
177.5°	450.9	450.8	450.8	450.9	451.3	451.7	452.1	452.5	452.1	451.7	451.3
180°	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2



TEST NUMBER: P331420-840

CATALOG NUMBER: S122DIP-S1005D330U840-4F0-1E-UDD-A

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°	11.2	10.7	10.2	10.4	9.9	9.4	8.8	8.9	9.0	7.8	7.9
90°	3.5	4.2	4.7	5.4	6.0	6.6	6.9	7.3	7.6	8.0	8.3
92.5°	6.3	6.5	6.7	7.0	7.3	7.6	7.8	8.0	8.2	8.3	8.5
95°	11.6	10.7	11.2	11.7	12.2	12.7	13.1	13.4	13.8	14.1	14.3
97.5°	15.1	12.3	13.5	14.6	15.9	17.1	17.4	17.7	17.9	18.2	18.4
100°	18.1	13.6	14.9	16.2	17.4	18.6	19.2	19.8	20.4	20.9	21.3
102.5°	66.7	60.4	50.1	39.8	29.5	19.1	19.9	20.6	21.4	22.1	22.6
105°	108.0	99.2	79.4	59.6	39.7	19.9	20.7	21.5	22.3	23.1	23.6
107.5°	133.9	122.9	99.2	75.4	51.6	27.9	27.1	26.3	25.4	24.6	24.3
110°	150.8	141.0	120.1	99.1	78.1	57.2	49.9	42.6	35.3	28.1	24.6



TEST NUMBER: P331420-840

CATALOG NUMBER: S122DIP-S1005D330U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	166.7	164.8	159.7	154.5	149.3	144.1	117.6	91.2	64.7	38.3	25.1
115°	192.7	194.2	196.0	197.8	199.7	201.5	167.8	134.3	100.7	67.1	47.7
117.5°	216.8	218.1	219.4	220.7	221.9	223.2	215.0	206.9	198.7	190.7	178.0
120°	232.9	234.1	235.4	236.7	238.0	239.3	240.2	241.1	242.0	242.8	238.3
122.5°	247.8	249.0	250.4	251.9	253.4	254.8	255.3	255.8	256.3	256.8	256.1
125°	269.2	270.4	271.8	273.2	274.5	275.9	276.4	276.9	277.4	277.9	278.3
127.5°	289.8	290.8	291.9	293.0	294.0	295.0	295.7	296.5	297.2	297.9	298.3
130°	303.1	304.1	304.9	305.7	306.5	307.3	308.0	308.8	309.6	310.4	310.8
132.5°	315.5	316.3	317.1	317.9	318.7	319.5	320.2	320.9	321.5	322.2	322.6
135°	333.2	334.1	334.7	335.4	336.0	336.7	337.4	338.1	338.8	339.5	339.8
137.5°	348.9	349.7	350.4	351.1	351.9	352.6	353.4	354.1	354.8	355.5	355.7
140°	359.2	359.9	360.7	361.5	362.3	363.0	363.8	364.4	365.1	365.7	365.9
142.5°	368.4	369.1	370.0	370.9	371.8	372.7	373.3	374.0	374.6	375.2	375.3
145°	380.7	381.3	382.5	383.8	385.1	386.3	386.8	387.3	387.8	388.3	388.4
147.5°	392.8	393.2	394.5	395.8	397.0	398.2	398.5	398.9	399.3	399.7	399.7
150°	400.2	400.6	401.7	402.9	404.0	405.3	405.7	406.1	406.5	407.0	407.0
152.5°	407.1	407.3	408.4	409.5	410.6	411.7	412.1	412.6	413.0	413.4	413.4
155°	417.0	417.1	418.0	418.8	419.7	420.5	421.0	421.4	421.8	422.3	422.2
157.5°	425.4	425.5	426.1	426.7	427.3	427.9	428.4	428.9	429.4	429.8	429.8
160°	430.6	430.6	431.0	431.4	431.9	432.3	432.7	433.2	433.6	434.0	434.0
162.5°	434.7	434.7	435.0	435.5	435.9	436.3	436.8	437.2	437.7	438.2	438.2
165°	440.4	440.3	440.5	440.7	440.9	441.1	441.6	442.1	442.6	443.1	443.1
167.5°	444.5	444.4	444.6	444.8	445.0	445.2	445.8	446.3	446.8	447.3	447.2
170°	446.9	446.8	446.9	447.1	447.2	447.4	447.9	448.4	448.9	449.4	449.3
172.5°	448.5	448.3	448.5	448.6	448.8	448.9	449.4	449.9	450.4	450.9	450.9
175°	450.2	450.0	450.2	450.3	450.5	450.6	451.1	451.6	452.1	452.6	452.5
177.5°	450.9	450.8	450.8	450.9	450.9	451.0	451.4	451.8	452.2	452.6	452.5
180°	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2



TEST NUMBER: P331420-840

CATALOG NUMBER: S122DIP-S1005D330U840-4F0-1E-UDD-A

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°	7.9	7.3	7.3	6.8	7.3	7.3	7.9	7.9	7.8	9.0	8.9
90°	8.4	8.5	8.7	8.8	8.7	8.5	8.4	8.3	8.0	7.6	7.3
92.5°	8.6	8.7	8.7	8.8	8.7	8.7	8.6	8.5	8.3	8.2	8.0
95°	14.2	14.1	14.1	14.0	14.1	14.1	14.2	14.3	14.1	13.8	13.4
97.5°	18.5	18.6	18.7	18.8	18.7	18.6	18.5	18.4	18.2	17.9	17.7
100°	21.4	21.6	21.7	21.9	21.7	21.6	21.4	21.3	20.9	20.4	19.8
102.5°	22.8	23.0	23.2	23.4	23.2	23.0	22.8	22.6	22.1	21.4	20.6
105°	23.9	24.2	24.5	24.8	24.5	24.2	23.9	23.6	23.1	22.3	21.5
107.5°	24.6	24.9	25.2	25.5	25.2	24.9	24.6	24.3	24.6	25.4	26.3
110°	24.9	25.2	25.5	25.8	25.5	25.2	24.9	24.6	28.1	35.3	42.6



TEST NUMBER: P331420-840

CATALOG NUMBER: S122DIP-S1005D330U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	25.3	25.5	25.9	26.1	25.9	25.5	25.3	25.1	38.3	64.7	91.2
115°	42.4	37.3	32.0	26.8	32.0	37.3	42.4	47.7	67.1	100.7	134.3
117.5°	160.9	143.7	126.5	109.4	126.5	143.7	160.9	178.0	190.7	198.7	206.9
120°	228.5	218.7	208.9	199.1	208.9	218.7	228.5	238.3	242.8	242.0	241.1
122.5°	254.3	252.4	250.4	248.5	250.4	252.4	254.3	256.1	256.8	256.3	255.8
125°	278.5	278.7	278.9	279.1	278.9	278.7	278.5	278.3	277.9	277.4	276.9
127.5°	298.4	298.4	298.4	298.5	298.4	298.4	298.4	298.3	297.9	297.2	296.5
130°	310.7	310.6	310.6	310.5	310.6	310.6	310.7	310.8	310.4	309.6	308.8
132.5°	322.4	322.4	322.3	322.2	322.3	322.4	322.4	322.6	322.2	321.5	320.9
135°	339.7	339.5	339.4	339.2	339.4	339.5	339.7	339.8	339.5	338.8	338.1
137.5°	355.5	355.3	355.0	354.8	355.0	355.3	355.5	355.7	355.5	354.8	354.1
140°	365.5	365.2	364.8	364.4	364.8	365.2	365.5	365.9	365.7	365.1	364.4
142.5°	374.9	374.6	374.2	373.8	374.2	374.6	374.9	375.3	375.2	374.6	374.0
145°	388.0	387.7	387.3	386.9	387.3	387.7	388.0	388.4	388.3	387.8	387.3
147.5°	399.4	399.1	398.8	398.5	398.8	399.1	399.4	399.7	399.7	399.3	398.9
150°	406.7	406.3	405.9	405.6	405.9	406.3	406.7	407.0	407.0	406.5	406.1
152.5°	412.9	412.5	412.0	411.5	412.0	412.5	412.9	413.4	413.4	413.0	412.6
155°	421.6	421.1	420.5	419.9	420.5	421.1	421.6	422.2	422.3	421.8	421.4
157.5°	429.2	428.7	428.1	427.6	428.1	428.7	429.2	429.8	429.8	429.4	428.9
160°	433.5	433.0	432.5	432.0	432.5	433.0	433.5	434.0	434.0	433.6	433.2
162.5°	437.5	436.9	436.3	435.7	436.3	436.9	437.5	438.2	438.2	437.7	437.2
165°	442.6	442.1	441.6	441.1	441.6	442.1	442.6	443.1	443.1	442.6	442.1
167.5°	446.6	445.9	445.2	444.5	445.2	445.9	446.6	447.2	447.3	446.8	446.3
170°	448.7	448.0	447.4	446.7	447.4	448.0	448.7	449.3	449.4	448.9	448.4
172.5°	450.2	449.6	448.9	448.3	448.9	449.6	450.2	450.9	450.9	450.4	449.9
175°	451.8	451.1	450.3	449.6	450.3	451.1	451.8	452.5	452.6	452.1	451.6
177.5°	452.0	451.5	451.0	450.5	451.0	451.5	452.0	452.5	452.6	452.2	451.8
180°	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2



TEST NUMBER: P331420-840

CATALOG NUMBER: S122DIP-S1005D330U840-4F0-1E-UDD-A

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°	8.8	9.4	9.9	10.4	10.2	10.7	11.2	11.7	12.7	13.2	13.7
90°	6.9	6.6	6.0	5.4	4.7	4.2	3.5	2.7	1.9	1.1	0.3
92.5°	7.8	7.6	7.3	7.0	6.7	6.5	6.3	6.4	6.5	6.6	6.6
95°	13.1	12.7	12.2	11.7	11.2	10.7	11.6	14.0	16.5	18.8	21.2
97.5°	17.4	17.1	15.9	14.6	13.5	12.3	15.1	21.9	28.6	35.3	42.1
100°	19.2	18.6	17.4	16.2	14.9	13.6	18.1	28.0	37.9	47.9	57.8
102.5°	19.9	19.1	29.5	39.8	50.1	60.4	66.7	68.8	70.8	72.9	75.0
105°	20.7	19.9	39.7	59.6	79.4	99.2	108.0	105.8	103.6	101.4	99.3
107.5°	27.1	27.9	51.6	75.4	99.2	122.9	133.9	132.2	130.4	128.7	126.8
110°	49.9	57.2	78.1	99.1	120.1	141.0	150.8	149.3	147.7	146.1	144.6



TEST NUMBER: P331420-840

CATALOG NUMBER: S122DIP-S1005D330U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	117.6	144.1	149.3	154.5	159.7	164.8	166.7	165.4	164.1	162.7	161.4
115°	167.8	201.5	199.7	197.8	196.0	194.2	192.7	191.5	190.3	188.9	187.7
117.5°	215.0	223.2	221.9	220.7	219.4	218.1	216.8	215.5	214.1	212.7	211.4
120°	240.2	239.3	238.0	236.7	235.4	234.1	232.9	231.9	230.8	229.6	228.5
122.5°	255.3	254.8	253.4	251.9	250.4	249.0	247.8	246.6	245.5	244.4	243.2
125°	276.4	275.9	274.5	273.2	271.8	270.4	269.2	268.3	267.3	266.4	265.5
127.5°	295.7	295.0	294.0	293.0	291.9	290.8	289.8	288.8	287.7	286.7	285.6
130°	308.0	307.3	306.5	305.7	304.9	304.1	303.1	301.9	300.7	299.6	298.4
132.5°	320.2	319.5	318.7	317.9	317.1	316.3	315.5	314.5	313.5	312.5	311.5
135°	337.4	336.7	336.0	335.4	334.7	334.1	333.2	331.9	330.8	329.6	328.5
137.5°	353.4	352.6	351.9	351.1	350.4	349.7	348.9	348.1	347.3	346.5	345.7
140°	363.8	363.0	362.3	361.5	360.7	359.9	359.2	358.6	358.0	357.5	356.9
142.5°	373.3	372.7	371.8	370.9	370.0	369.1	368.4	367.9	367.3	366.8	366.3
145°	386.8	386.3	385.1	383.8	382.5	381.3	380.7	380.8	380.9	381.0	381.0
147.5°	398.5	398.2	397.0	395.8	394.5	393.2	392.8	393.0	393.3	393.6	393.9
150°	405.7	405.3	404.0	402.9	401.7	400.6	400.2	400.7	401.2	401.7	402.2
152.5°	412.1	411.7	410.6	409.5	408.4	407.3	407.1	407.6	408.2	408.8	409.3
155°	421.0	420.5	419.7	418.8	418.0	417.1	417.0	417.6	418.3	418.9	419.6
157.5°	428.4	427.9	427.3	426.7	426.1	425.5	425.4	426.0	426.5	427.1	427.6
160°	432.7	432.3	431.9	431.4	431.0	430.6	430.6	431.0	431.4	431.9	432.3
162.5°	436.8	436.3	435.9	435.5	435.0	434.7	434.7	435.2	435.7	436.1	436.5
165°	441.6	441.1	440.9	440.7	440.5	440.3	440.4	440.8	441.2	441.7	442.1
167.5°	445.8	445.2	445.0	444.8	444.6	444.4	444.5	444.9	445.5	445.9	446.3
170°	447.9	447.4	447.2	447.1	446.9	446.8	446.9	447.4	447.8	448.2	448.7
172.5°	449.4	448.9	448.8	448.6	448.5	448.3	448.5	448.9	449.3	449.8	450.2
175°	451.1	450.6	450.5	450.3	450.2	450.0	450.2	450.7	451.2	451.7	452.2
177.5°	451.4	451.0	450.9	450.9	450.8	450.8	450.9	451.3	451.7	452.1	452.5
180°	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2



TEST NUMBER: P331420-840

CATALOG NUMBER: S122DIP-S1005D330U840-4F0-1E-UDD-A

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°	15.7	18.4	18.5	20.5	19.4	19.5	19.7	19.2	18.7	18.1	17.6
90°	1.1	1.9	2.7	3.5	4.2	4.7	5.4	6.0	6.6	6.9	7.3
92.5°	6.6	6.5	6.4	6.3	6.5	6.7	7.0	7.3	7.6	7.8	8.0
95°	18.8	16.5	14.0	11.6	10.7	11.2	11.7	12.2	12.7	13.1	13.4
97.5°	35.3	28.6	21.9	15.1	12.3	13.5	14.6	15.9	17.1	17.4	17.7
100°	47.9	37.9	28.0	18.1	13.6	14.9	16.2	17.4	18.6	19.2	19.8
102.5°	72.9	70.8	68.8	66.7	60.4	50.1	39.8	29.5	19.1	19.9	20.6
105°	101.4	103.6	105.8	108.0	99.2	79.4	59.6	39.7	19.9	20.7	21.5
107.5°	128.7	130.4	132.2	133.9	122.9	99.2	75.4	51.6	27.9	27.1	26.3
110°	146.1	147.7	149.3	150.8	141.0	120.1	99.1	78.1	57.2	49.9	42.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	162.7	164.1	165.4	166.7	164.8	159.7	154.5	149.3	144.1	117.6	91.2
115°	188.9	190.3	191.5	192.7	194.2	196.0	197.8	199.7	201.5	167.8	134.3
117.5°	212.7	214.1	215.5	216.8	218.1	219.4	220.7	221.9	223.2	215.0	206.9
120°	229.6	230.8	231.9	232.9	234.1	235.4	236.7	238.0	239.3	240.2	241.1
122.5°	244.4	245.5	246.6	247.8	249.0	250.4	251.9	253.4	254.8	255.3	255.8
125°	266.4	267.3	268.3	269.2	270.4	271.8	273.2	274.5	275.9	276.4	276.9
127.5°	286.7	287.7	288.8	289.8	290.8	291.9	293.0	294.0	295.0	295.7	296.5
130°	299.6	300.7	301.9	303.1	304.1	304.9	305.7	306.5	307.3	308.0	308.8
132.5°	312.5	313.5	314.5	315.5	316.3	317.1	317.9	318.7	319.5	320.2	320.9
135°	329.6	330.8	331.9	333.2	334.1	334.7	335.4	336.0	336.7	337.4	338.1
137.5°	346.5	347.3	348.1	348.9	349.7	350.4	351.1	351.9	352.6	353.4	354.1
140°	357.5	358.0	358.6	359.2	359.9	360.7	361.5	362.3	363.0	363.8	364.4
142.5°	366.8	367.3	367.9	368.4	369.1	370.0	370.9	371.8	372.7	373.3	374.0
145°	381.0	380.9	380.8	380.7	381.3	382.5	383.8	385.1	386.3	386.8	387.3
147.5°	393.6	393.3	393.0	392.8	393.2	394.5	395.8	397.0	398.2	398.5	398.9
150°	401.7	401.2	400.7	400.2	400.6	401.7	402.9	404.0	405.3	405.7	406.1
152.5°	408.8	408.2	407.6	407.1	407.3	408.4	409.5	410.6	411.7	412.1	412.6
155°	418.9	418.3	417.6	417.0	417.1	418.0	418.8	419.7	420.5	421.0	421.4
157.5°	427.1	426.5	426.0	425.4	425.5	426.1	426.7	427.3	427.9	428.4	428.9
160°	431.9	431.4	431.0	430.6	430.6	431.0	431.4	431.9	432.3	432.7	433.2
162.5°	436.1	435.7	435.2	434.7	434.7	435.0	435.5	435.9	436.3	436.8	437.2
165°	441.7	441.2	440.8	440.4	440.3	440.5	440.7	440.9	441.1	441.6	442.1
167.5°	445.9	445.5	444.9	444.5	444.4	444.6	444.8	445.0	445.2	445.8	446.3
170°	448.2	447.8	447.4	446.9	446.8	446.9	447.1	447.2	447.4	447.9	448.4
172.5°	449.8	449.3	448.9	448.5	448.3	448.5	448.6	448.8	448.9	449.4	449.9
175°	451.7	451.2	450.7	450.2	450.0	450.2	450.3	450.5	450.6	451.1	451.6
177.5°	452.1	451.7	451.3	450.9	450.8	450.8	450.9	450.9	451.0	451.4	451.8
180°	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2



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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°	18.3	18.3	17.8	17.8	18.4	17.9	17.9
90°	7.6	8.0	8.3	8.4	8.5	8.7	8.8
92.5°	8.2	8.3	8.5	8.6	8.7	8.7	8.8
95°	13.8	14.1	14.3	14.2	14.1	14.1	14.0
97.5°	17.9	18.2	18.4	18.5	18.6	18.7	18.8
100°	20.4	20.9	21.3	21.4	21.6	21.7	21.9
102.5°	21.4	22.1	22.6	22.8	23.0	23.2	23.4
105°	22.3	23.1	23.6	23.9	24.2	24.5	24.8
107.5°	25.4	24.6	24.3	24.6	24.9	25.2	25.5
110°	35.3	28.1	24.6	24.9	25.2	25.5	25.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	64.7	38.3	25.1	25.3	25.5	25.9	26.1
115°	100.7	67.1	47.7	42.4	37.3	32.0	26.8
117.5°	198.7	190.7	178.0	160.9	143.7	126.5	109.4
120°	242.0	242.8	238.3	228.5	218.7	208.9	199.1
122.5°	256.3	256.8	256.1	254.3	252.4	250.4	248.5
125°	277.4	277.9	278.3	278.5	278.7	278.9	279.1
127.5°	297.2	297.9	298.3	298.4	298.4	298.4	298.5
130°	309.6	310.4	310.8	310.7	310.6	310.6	310.5
132.5°	321.5	322.2	322.6	322.4	322.4	322.3	322.2
135°	338.8	339.5	339.8	339.7	339.5	339.4	339.2
137.5°	354.8	355.5	355.7	355.5	355.3	355.0	354.8
140°	365.1	365.7	365.9	365.5	365.2	364.8	364.4
142.5°	374.6	375.2	375.3	374.9	374.6	374.2	373.8
145°	387.8	388.3	388.4	388.0	387.7	387.3	386.9
147.5°	399.3	399.7	399.7	399.4	399.1	398.8	398.5
150°	406.5	407.0	407.0	406.7	406.3	405.9	405.6
152.5°	413.0	413.4	413.4	412.9	412.5	412.0	411.5
155°	421.8	422.3	422.2	421.6	421.1	420.5	419.9
157.5°	429.4	429.8	429.8	429.2	428.7	428.1	427.6
160°	433.6	434.0	434.0	433.5	433.0	432.5	432.0
162.5°	437.7	438.2	438.2	437.5	436.9	436.3	435.7
165°	442.6	443.1	443.1	442.6	442.1	441.6	441.1
167.5°	446.8	447.3	447.2	446.6	445.9	445.2	444.5
170°	448.9	449.4	449.3	448.7	448.0	447.4	446.7
172.5°	450.4	450.9	450.9	450.2	449.6	448.9	448.3
175°	452.1	452.6	452.5	451.8	451.1	450.3	449.6
177.5°	452.2	452.6	452.5	452.0	451.5	451.0	450.5
180°	451.2	451.2	451.2	451.2	451.2	451.2	451.2

(END OF REPORT)