

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: P331422-940

Luminaire Tested: **S122DIP-S1005D330U940-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331422-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIP-S1005D330U940-4F0-1E-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: 5064.4 lumens
Efficiency: N/A
Efficacy: 101.7 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

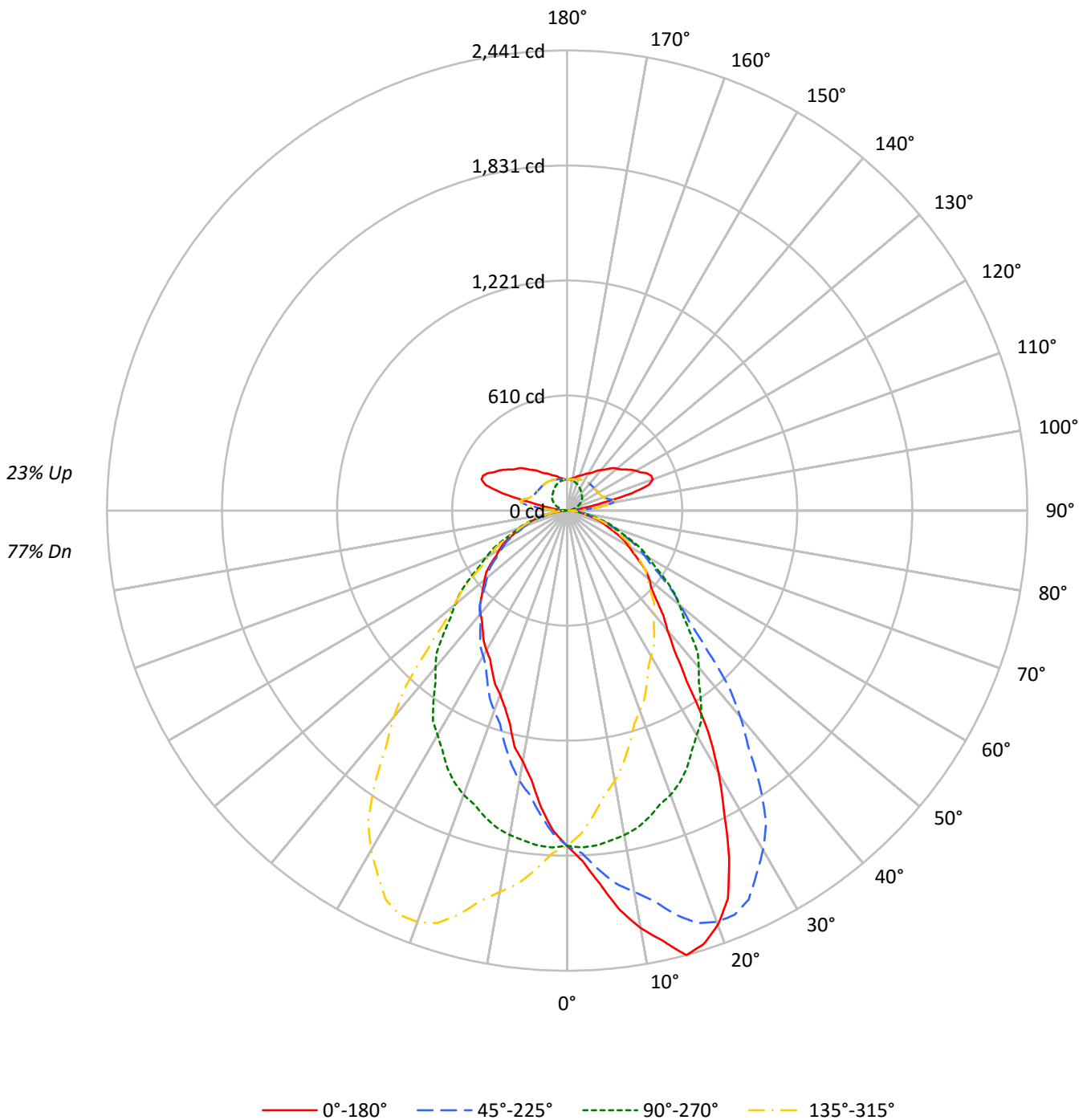
Input Watts (W): 49.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	28709	28709	28709	28709
5°	32185	28896	25606	28896
10°	36882	28658	22161	28658
15°	40802	28134	19579	28134
20°	40180	27569	17849	27569
25°	36230	26820	16751	26820
30°	29940	25620	15951	25620
35°	21821	24366	15382	24366
40°	17428	22885	15066	22885
45°	15230	21174	14636	21174
50°	14315	19515	14350	19515
55°	13196	17833	13965	17833
60°	12093	16043	13372	16043
65°	11018	14437	12791	14437
70°	10003	12873	11939	12873
75°	8865	11123	10574	11123
80°	7624	9214	8517	9214
85°	6836	6836	5076	6836



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.3	3.3
10°-20°	492.3	9.7
20°-30°	714.5	14.1
30°-40°	754.0	14.9
40°-50°	667.6	13.2
50°-60°	532.7	10.5
60°-70°	362.1	7.1
70°-80°	185.6	3.7
80°-90°	46.2	0.9
90°-100°	65.5	1.3
100°-110°	222.3	4.4
110°-120°	236.2	4.7
120°-130°	194.4	3.8
130°-140°	156.1	3.1
140°-150°	118.0	2.3
150°-160°	82.9	1.6
160°-170°	48.8	1.0
170°-180°	15.9	0.3
0°-30°	1376.1	27.2
0°-40°	2130.1	42.1
0°-60°	3330.4	65.8
0°-90°	3924.4	77.5
90°-120°	524.0	10.3
90°-150°	992.5	19.6
90°-180°	1140.0	22.5
0°-180°	5064.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1778	1778	1778	1778	1778	
5°	1986	1783	1580	1783	1986	198
15°	2441	1683	1171	1683	2441	674
25°	2034	1506	940	1506	2034	919
35°	1107	1236	780	1236	1107	720
45°	667	927	641	927	667	524
55°	469	634	496	634	469	420
65°	288	378	335	378	288	287
75°	142	178	170	178	142	152
85°	37	37	27	37	37	41
90°	10	0	10	0	10	7
95°	36	11	36	11	36	47
105°	355	38	355	38	355	344
115°	467	68	467	68	467	458
125°	379	94	379	94	379	343
135°	314	111	314	111	314	244
145°	251	127	251	127	251	159
155°	211	144	211	144	211	98
165°	185	157	185	157	185	53
175°	167	164	167	164	167	16
180°	164	164	164	164	164	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1860.1	1860.6	1861.7	1853.0	1851.9	1851.9	1844.2	1837.7	1830.1	1819.6	1820.8
5°	1985.8	1993.3	1996.1	1987.9	1975.6	1974.2	1962.7	1943.5	1925.7	1911.4	1901.1
7.5°	2135.9	2138.9	2132.3	2121.5	2112.3	2095.9	2074.3	2053.1	2023.5	1996.3	1976.0
10°	2249.6	2253.7	2242.1	2226.4	2213.4	2194.3	2162.8	2130.7	2091.8	2054.2	2024.1
12.5°	2336.0	2346.1	2331.2	2329.1	2306.9	2280.6	2243.2	2227.0	2172.1	2119.8	2087.6
15°	2441.0	2440.3	2441.7	2428.7	2412.3	2408.2	2368.6	2325.5	2248.3	2217.5	2164.2
17.5°	2410.7	2421.0	2425.8	2425.6	2425.3	2422.7	2409.9	2382.7	2344.0	2294.2	2232.7
20°	2338.5	2352.2	2354.2	2369.9	2378.8	2390.4	2395.2	2387.6	2363.7	2322.1	2268.8
22.5°	2227.0	2230.8	2237.2	2261.6	2280.9	2310.1	2325.2	2350.5	2341.4	2320.9	2276.4
25°	2033.7	2026.9	2050.8	2063.1	2107.5	2153.9	2187.5	2224.4	2257.2	2277.0	2264.0
27.5°	1801.6	1791.4	1827.2	1859.8	1896.0	1946.2	1998.4	2060.0	2111.3	2175.4	2197.4
30°	1605.9	1612.0	1646.2	1681.1	1735.7	1806.8	1865.5	1933.2	2006.3	2078.1	2128.0
32.5°	1394.9	1418.5	1440.1	1493.5	1541.7	1621.0	1707.0	1791.6	1882.8	1964.4	2041.7
35°	1107.1	1134.3	1164.5	1203.4	1271.0	1349.6	1433.7	1547.8	1672.2	1783.6	1875.2
37.5°	931.8	927.5	944.7	972.9	1027.6	1091.1	1187.8	1300.6	1447.0	1577.9	1707.0
40°	826.9	824.1	836.4	862.4	904.1	950.6	1035.3	1134.3	1270.3	1430.3	1584.0
42.5°	754.7	756.3	763.2	781.5	810.0	848.3	911.8	996.0	1120.6	1271.2	1436.5
45°	667.0	671.7	679.3	688.1	704.5	736.0	771.5	831.7	930.1	1055.8	1218.4
47.5°	603.8	604.0	611.6	619.4	629.1	646.8	675.8	713.5	783.0	885.4	1025.2
50°	569.9	565.2	570.6	576.8	587.0	599.3	618.4	654.0	700.4	783.1	900.0
52.5°	528.3	528.5	533.4	535.7	544.9	557.2	574.7	599.3	641.4	706.1	802.1
55°	468.8	472.2	474.9	479.0	487.2	496.1	509.8	526.2	559.0	607.5	678.6
57.5°	412.8	413.8	416.6	424.4	429.5	437.7	450.8	465.7	487.0	522.9	576.3
60°	374.5	374.5	380.0	383.3	390.2	398.4	408.7	423.0	442.1	471.5	514.6
62.5°	339.5	338.9	341.2	346.7	352.0	359.6	369.8	382.0	400.0	426.1	461.5
65°	288.4	287.0	291.1	292.5	297.9	305.5	313.7	326.6	341.0	360.2	391.6
67.5°	239.2	240.9	243.0	245.6	248.6	256.5	262.0	271.2	283.3	299.2	320.5
70°	211.9	211.9	211.9	213.9	218.0	222.1	227.6	235.1	246.7	260.4	279.5
72.5°	181.2	183.4	185.6	184.4	189.6	192.0	198.6	202.9	213.9	222.7	239.6
75°	142.1	142.1	142.1	145.5	147.6	149.6	153.7	157.8	163.4	174.2	183.2
77.5°	106.0	105.8	106.5	107.3	109.5	111.9	113.2	116.8	121.9	127.0	134.5
80°	82.0	83.4	84.1	85.4	85.4	86.8	87.5	92.3	95.7	99.1	103.9
82.5°	63.4	63.7	63.8	64.1	64.6	65.5	67.2	68.8	70.0	72.9	76.5
85°	36.9	36.2	36.2	37.5	36.9	36.9	38.3	39.6	39.6	40.3	42.4
87.5°	16.3	16.3	16.9	16.3	16.3	16.8	16.7	16.2	16.9	17.5	17.9
90°	10.4	10.4	10.4	10.4	10.4	10.1	9.5	10.1	10.4	10.7	10.4
92.5°	17.5	17.9	17.7	18.7	19.0	21.0	23.5	27.5	34.6	40.9	40.4
95°	35.9	35.6	36.6	39.1	43.2	50.1	63.3	82.6	108.1	123.5	109.3
97.5°	70.7	73.4	77.9	85.7	100.8	123.5	157.6	192.6	221.1	210.8	158.8
100°	112.8	118.5	127.6	141.2	167.3	205.5	248.6	287.7	294.3	248.9	171.4
102.5°	198.5	206.2	217.6	240.7	269.1	309.5	341.1	349.9	321.5	250.1	166.6
105°	355.1	359.4	373.0	392.5	412.1	422.5	418.4	382.8	317.3	233.4	157.2
107.5°	453.6	459.4	462.2	463.2	460.7	445.5	412.8	359.1	289.6	215.5	152.6
110°	483.3	483.7	480.8	474.8	461.3	435.4	395.1	338.7	272.2	207.0	151.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	482.8	481.1	475.7	465.7	446.9	417.2	374.2	320.0	260.1	201.4	151.8
115°	467.3	464.4	456.2	441.8	419.4	386.9	345.6	297.1	245.1	195.4	153.1
117.5°	439.4	437.0	428.5	413.1	390.3	359.9	322.4	279.8	235.7	192.3	155.4
120°	421.6	418.4	409.3	394.5	372.4	343.8	310.3	271.3	230.6	190.6	156.9
122.5°	402.9	400.3	392.2	377.6	357.8	331.9	300.2	264.5	226.3	189.6	158.6
125°	379.1	376.5	368.6	356.7	338.4	314.8	287.0	254.6	220.3	187.8	161.3
127.5°	358.1	356.1	349.3	338.0	322.1	300.3	274.2	244.8	214.5	186.7	164.0
130°	346.3	343.8	337.4	326.7	311.3	290.5	265.6	238.5	210.8	186.2	166.0
132.5°	333.9	331.6	325.8	315.1	300.0	280.4	257.5	232.5	207.8	185.9	168.1
135°	314.1	312.9	307.2	296.8	283.2	265.6	244.8	224.0	203.5	185.6	170.5
137.5°	294.7	292.8	287.8	278.9	266.5	251.2	234.7	217.3	200.5	185.5	172.6
140°	281.3	279.5	274.7	266.5	256.5	242.6	228.1	212.9	198.8	185.3	173.6
142.5°	268.0	267.6	263.4	255.9	246.4	234.8	222.3	209.5	197.1	185.3	174.3
145°	250.7	249.9	246.7	241.3	233.8	224.6	214.9	204.5	194.7	184.6	175.1
147.5°	236.4	235.8	233.6	229.3	223.1	216.4	208.8	200.6	192.3	183.5	175.4
150°	227.8	227.5	225.6	221.8	217.0	211.4	204.8	197.9	190.3	182.7	175.1
152.5°	220.5	220.4	219.0	215.8	212.0	207.1	201.5	195.1	188.5	181.5	174.7
155°	210.8	211.4	210.2	207.9	204.5	201.0	196.3	191.3	185.3	179.2	173.9
157.5°	202.5	202.5	202.0	200.1	197.7	194.9	191.0	186.8	182.2	177.0	172.5
160°	197.2	197.2	196.9	195.4	193.1	190.9	187.4	184.0	179.9	175.5	171.7
162.5°	192.2	192.4	192.2	191.1	188.9	187.2	184.2	181.2	177.9	174.2	170.9
165°	184.9	185.3	185.3	184.0	182.7	181.5	179.2	177.1	174.5	171.7	169.5
167.5°	178.3	178.6	178.7	178.0	177.5	176.3	174.8	173.1	171.3	169.5	168.1
170°	174.2	174.9	175.1	174.2	173.9	173.3	172.0	171.1	169.5	168.3	167.3
172.5°	170.9	171.3	171.7	171.2	170.9	170.5	169.5	168.8	167.7	166.7	166.3
175°	166.7	167.3	167.6	167.3	167.3	167.0	166.7	166.4	165.4	165.1	164.8
177.5°	164.1	164.6	164.9	164.9	164.9	164.9	164.6	164.6	164.1	163.8	164.1
180°	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1824.6	1820.2	1817.5	1807.7	1798.8	1790.1	1787.4	1788.5	1776.5	1765.0	1760.1
5°	1895.7	1882.0	1869.0	1850.6	1828.7	1804.7	1792.4	1782.9	1759.0	1733.0	1718.0
7.5°	1959.4	1939.8	1914.8	1880.1	1848.2	1810.6	1786.7	1765.5	1730.5	1693.9	1671.5
10°	1998.1	1971.5	1939.4	1897.0	1858.1	1812.3	1780.1	1748.0	1707.0	1663.3	1635.9
12.5°	2031.5	1995.6	1964.0	1909.6	1863.5	1806.2	1768.2	1722.9	1679.7	1627.7	1601.0
15°	2110.9	2044.6	1984.5	1923.0	1866.3	1786.3	1743.9	1683.1	1626.4	1562.2	1531.4
17.5°	2172.3	2097.7	2003.0	1924.9	1858.8	1770.2	1708.0	1635.1	1568.1	1494.7	1452.9
20°	2207.3	2121.8	2020.0	1927.1	1847.8	1746.7	1679.0	1604.5	1526.0	1443.2	1398.2
22.5°	2228.0	2138.2	2037.6	1918.9	1826.0	1727.5	1642.4	1560.8	1481.1	1391.9	1344.6
25°	2234.6	2152.6	2046.0	1912.1	1798.6	1687.2	1584.7	1505.5	1409.1	1325.7	1256.7
27.5°	2202.1	2143.3	2040.8	1899.2	1767.0	1636.8	1522.5	1432.7	1331.1	1240.5	1171.2
30°	2162.1	2128.0	2028.2	1886.1	1741.9	1601.8	1476.0	1374.2	1273.1	1181.5	1110.4
32.5°	2100.4	2093.0	2005.3	1867.5	1715.1	1557.6	1427.5	1324.5	1212.5	1122.5	1054.7
35°	1979.1	2011.8	1956.5	1826.0	1664.6	1494.5	1353.7	1236.2	1120.1	1033.9	970.4
37.5°	1816.4	1897.8	1883.4	1765.1	1596.6	1425.9	1270.5	1147.6	1037.0	950.0	887.7
40°	1704.3	1808.2	1823.2	1718.7	1548.5	1372.9	1208.2	1085.8	977.9	898.7	835.7
42.5°	1584.0	1705.4	1746.7	1662.9	1496.0	1317.1	1152.4	1025.7	918.8	841.8	786.0
45°	1382.4	1543.0	1617.6	1569.7	1408.5	1225.3	1055.8	927.3	830.3	757.9	714.8
47.5°	1194.0	1369.5	1469.6	1452.7	1311.0	1129.6	962.1	838.7	744.3	686.5	648.0
50°	1060.6	1241.0	1361.9	1367.4	1241.0	1061.2	893.1	776.9	690.2	636.2	604.8
52.5°	944.7	1116.9	1248.8	1277.7	1162.8	990.2	831.3	715.8	639.4	589.8	561.6
55°	793.4	939.0	1085.2	1138.4	1046.2	882.3	735.3	633.5	561.7	527.5	502.9
57.5°	659.6	781.0	916.0	974.9	918.0	777.7	639.9	551.4	493.3	463.3	444.4
60°	589.1	684.7	805.0	875.4	826.2	701.2	580.9	496.8	449.0	422.3	404.6
62.5°	523.4	608.2	709.9	774.3	747.4	629.5	521.8	447.6	406.4	381.3	368.5
65°	431.9	498.8	577.5	636.9	619.1	529.6	441.5	377.9	345.1	325.3	315.0
67.5°	355.6	404.0	458.5	510.6	496.2	432.8	362.0	312.5	288.1	271.0	264.8
70°	307.6	344.4	393.0	434.6	423.0	371.0	315.0	272.7	251.5	237.1	231.0
72.5°	261.6	291.9	329.0	363.0	355.2	312.0	265.3	233.3	217.0	203.8	198.8
75°	197.5	220.7	243.3	265.8	263.8	230.3	203.0	178.3	165.4	155.2	153.1
77.5°	145.8	158.8	174.2	187.5	183.8	164.7	143.2	129.1	119.6	112.7	111.6
80°	111.4	118.9	129.8	139.4	134.6	126.4	109.3	99.1	92.3	85.4	82.7
82.5°	80.8	88.3	94.9	100.0	96.4	88.7	78.2	71.2	67.1	62.4	61.3
85°	42.4	46.5	49.2	50.6	49.2	44.4	39.6	36.9	33.5	31.5	30.8
87.5°	18.1	17.7	17.4	18.3	16.5	16.3	13.9	12.1	11.8	11.4	10.4
90°	8.5	6.3	4.7	3.7	3.1	2.5	1.2	0.4	1.2	2.5	3.1
92.5°	31.5	21.4	14.3	11.3	9.2	7.8	5.5	3.8	5.5	7.8	9.2
95°	72.8	45.4	30.9	23.3	18.3	15.4	12.3	11.1	12.3	15.4	18.3
97.5°	98.1	59.8	41.6	33.1	27.3	23.0	19.6	17.9	19.6	23.0	27.3
100°	103.3	64.9	48.2	39.4	33.1	28.0	25.2	24.3	25.2	28.0	33.1
102.5°	103.6	69.5	54.0	45.2	38.6	33.6	30.8	30.1	30.8	33.6	38.6
105°	105.2	77.2	62.4	53.6	46.6	41.9	39.7	38.4	39.7	41.9	46.6
107.5°	109.6	85.2	70.8	61.9	55.0	50.6	48.5	47.5	48.5	50.6	55.0
110°	113.1	90.4	76.6	67.4	60.8	56.7	54.8	53.6	54.8	56.7	60.8



TEST NUMBER: P331422-940

CATALOG NUMBER: S122DIP-S1005D330U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	116.9	95.5	82.1	72.7	66.3	62.5	60.4	59.1	60.4	62.5	66.3
115°	122.5	103.3	89.8	81.3	75.0	71.2	69.3	67.8	69.3	71.2	75.0
117.5°	128.6	110.6	98.1	89.3	83.2	79.8	77.9	76.7	77.9	79.8	83.2
120°	132.7	115.7	103.3	94.5	88.2	85.4	83.5	82.2	83.5	85.4	88.2
122.5°	136.2	120.4	108.9	99.8	93.5	90.4	88.5	87.6	88.5	90.4	93.5
125°	141.8	127.6	116.3	107.5	101.1	97.4	95.5	94.5	95.5	97.4	101.1
127.5°	147.0	134.3	123.2	114.1	108.2	104.0	101.3	100.0	101.3	104.0	108.2
130°	150.3	138.3	127.2	118.5	112.2	107.7	104.6	103.3	104.6	107.7	112.2
132.5°	153.6	141.9	131.3	122.5	115.9	111.3	107.9	106.4	107.9	111.3	115.9
135°	157.8	146.9	136.7	128.0	120.6	115.9	112.2	110.9	112.2	115.9	120.6
137.5°	161.1	150.9	140.9	132.7	125.6	120.5	116.7	115.2	116.7	120.5	125.6
140°	162.9	153.1	143.7	135.5	128.6	123.5	119.8	118.5	119.8	123.5	128.6
142.5°	164.4	154.9	145.7	138.0	131.3	126.3	122.8	121.7	122.8	126.3	131.3
145°	166.4	157.6	149.0	142.1	135.8	131.1	128.0	126.6	128.0	131.1	135.8
147.5°	167.5	159.7	151.7	145.5	140.3	135.9	132.9	132.0	132.9	135.9	140.3
150°	167.9	160.7	153.5	147.8	143.0	138.9	136.4	135.5	136.4	138.9	143.0
152.5°	168.2	161.7	155.2	150.1	145.5	142.0	139.5	139.0	139.5	142.0	145.5
155°	168.5	163.2	157.8	153.1	149.6	146.2	144.3	144.0	144.3	146.2	149.6
157.5°	168.5	164.3	159.7	155.8	153.0	150.0	148.5	148.1	148.5	150.0	153.0
160°	168.5	164.8	161.0	157.6	155.0	152.5	151.2	150.9	151.2	152.5	155.0
162.5°	168.3	165.1	161.8	159.1	156.8	154.8	153.5	153.7	153.5	154.8	156.8
165°	167.6	165.4	162.6	160.7	159.1	157.2	156.6	156.9	156.6	157.2	159.1
167.5°	167.2	165.3	163.3	162.1	161.0	159.7	159.2	159.5	159.2	159.7	161.0
170°	166.7	165.1	163.5	162.6	161.9	161.0	160.7	161.3	160.7	161.0	161.9
172.5°	165.9	164.9	163.8	163.1	162.7	161.8	161.9	162.3	161.9	161.8	162.7
175°	165.1	164.4	163.8	163.5	163.5	162.9	163.2	163.5	163.2	162.9	163.5
177.5°	164.6	164.1	163.8	163.8	163.8	163.4	163.5	164.1	163.5	163.4	163.8
180°	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8



TEST NUMBER: P331422-940

CATALOG NUMBER: S122DIP-S1005D330U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1754.6	1751.3	1739.8	1733.8	1724.0	1714.7	1708.7	1711.5	1713.6	1712.5	1710.8
5°	1704.3	1691.3	1671.5	1654.4	1642.1	1619.6	1610.0	1605.3	1601.2	1596.3	1591.5
7.5°	1644.4	1624.0	1595.5	1571.2	1548.2	1520.2	1504.2	1494.7	1484.8	1474.0	1464.5
10°	1601.8	1573.1	1543.0	1508.9	1481.6	1456.3	1433.7	1418.6	1405.0	1392.0	1382.4
12.5°	1557.0	1523.9	1486.7	1440.0	1409.9	1373.7	1370.3	1343.8	1322.4	1314.4	1303.1
15°	1485.6	1439.1	1392.0	1336.7	1312.8	1280.0	1259.5	1238.9	1220.5	1207.5	1204.1
17.5°	1404.6	1344.4	1297.5	1257.8	1218.6	1185.0	1166.1	1149.7	1134.5	1117.1	1114.8
20°	1342.8	1290.8	1239.7	1204.8	1164.5	1130.2	1107.1	1090.7	1077.6	1067.4	1058.5
22.5°	1284.3	1227.4	1180.5	1142.5	1102.7	1075.0	1056.8	1040.9	1030.1	1018.8	1010.4
25°	1190.4	1146.0	1094.8	1051.7	1018.9	1001.1	986.1	972.4	965.6	958.1	948.5
27.5°	1108.3	1058.9	1010.9	977.6	948.8	933.1	922.4	913.1	906.7	902.3	896.9
30°	1050.3	1000.4	962.9	930.1	906.2	890.5	883.6	878.2	870.6	867.9	865.1
32.5°	994.5	949.6	917.5	889.0	866.2	856.0	849.7	844.8	838.9	836.2	830.7
35°	915.7	878.2	846.7	831.0	812.5	803.6	798.9	792.0	786.6	783.8	783.1
37.5°	841.5	808.9	788.2	767.9	760.2	754.7	748.1	743.5	741.9	741.5	740.7
40°	793.4	766.7	748.3	731.9	728.4	720.2	714.8	710.7	710.7	711.4	710.7
42.5°	749.7	725.8	709.4	695.3	691.3	686.3	680.9	680.6	681.7	684.0	681.7
45°	683.4	666.3	654.7	647.8	640.3	635.5	634.8	636.9	637.6	638.3	640.3
47.5°	622.4	611.1	600.6	593.0	589.8	588.9	588.1	591.7	594.9	596.2	599.3
50°	586.3	573.4	564.5	559.6	557.0	555.5	557.0	561.1	563.7	567.2	569.3
52.5°	545.9	536.7	530.6	526.9	525.8	526.6	526.9	531.5	535.9	537.2	538.1
55°	490.0	483.1	481.8	475.6	478.3	477.7	481.1	483.8	487.9	492.0	492.7
57.5°	434.2	428.7	425.1	425.6	426.4	429.4	432.3	437.1	441.5	445.9	446.2
60°	397.1	394.3	392.3	392.3	393.6	397.7	401.1	405.9	408.7	411.3	413.4
62.5°	363.1	360.4	358.4	359.4	363.0	365.4	369.4	372.0	374.8	377.5	378.4
65°	309.6	308.2	310.2	311.7	312.3	315.8	320.5	322.5	325.3	326.6	331.4
67.5°	260.2	260.5	260.2	262.2	266.1	266.9	271.4	276.3	276.8	279.4	282.5
70°	226.9	228.3	229.6	231.0	234.4	235.8	239.2	241.2	244.0	246.0	248.1
72.5°	196.3	196.5	197.9	197.6	200.5	203.5	206.3	208.4	211.2	213.7	215.8
75°	151.1	151.1	152.4	153.1	156.5	159.9	159.3	160.6	163.4	166.0	167.5
77.5°	110.3	108.8	110.3	111.0	112.1	114.9	115.5	117.4	120.6	119.6	121.1
80°	84.1	82.0	84.1	84.7	84.7	88.2	88.2	89.5	91.6	89.5	91.6
82.5°	60.0	59.0	60.5	60.7	61.8	61.9	63.0	63.3	65.4	64.4	65.4
85°	30.1	29.4	30.1	29.4	30.1	30.8	30.8	30.1	30.1	31.5	29.4
87.5°	10.1	9.7	9.5	9.9	9.7	9.3	8.6	8.6	8.5	7.5	7.6
90°	3.7	4.7	6.3	8.5	10.4	10.7	10.4	10.1	9.5	10.1	10.4
92.5°	11.3	14.3	21.4	31.5	40.4	40.9	34.6	27.5	23.5	21.0	19.0
95°	23.3	30.9	45.4	72.8	109.3	123.5	108.1	82.6	63.3	50.1	43.2
97.5°	33.1	41.6	59.8	98.1	158.8	210.8	221.1	192.6	157.6	123.5	100.8
100°	39.4	48.2	64.9	103.3	171.4	248.9	294.3	287.7	248.6	205.5	167.3
102.5°	45.2	54.0	69.5	103.6	166.6	250.1	321.5	349.9	341.1	309.5	269.1
105°	53.6	62.4	77.2	105.2	157.2	233.4	317.3	382.8	418.4	422.5	412.1
107.5°	61.9	70.8	85.2	109.6	152.6	215.5	289.6	359.1	412.8	445.5	460.7
110°	67.4	76.6	90.4	113.1	151.6	207.0	272.2	338.7	395.1	435.4	461.3



TEST NUMBER: P331422-940

CATALOG NUMBER: S122DIP-S1005D330U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	72.7	82.1	95.5	116.9	151.8	201.4	260.1	320.0	374.2	417.2	446.9
115°	81.3	89.8	103.3	122.5	153.1	195.4	245.1	297.1	345.6	386.9	419.4
117.5°	89.3	98.1	110.6	128.6	155.4	192.3	235.7	279.8	322.4	359.9	390.3
120°	94.5	103.3	115.7	132.7	156.9	190.6	230.6	271.3	310.3	343.8	372.4
122.5°	99.8	108.9	120.4	136.2	158.6	189.6	226.3	264.5	300.2	331.9	357.8
125°	107.5	116.3	127.6	141.8	161.3	187.8	220.3	254.6	287.0	314.8	338.4
127.5°	114.1	123.2	134.3	147.0	164.0	186.7	214.5	244.8	274.2	300.3	322.1
130°	118.5	127.2	138.3	150.3	166.0	186.2	210.8	238.5	265.6	290.5	311.3
132.5°	122.5	131.3	141.9	153.6	168.1	185.9	207.8	232.5	257.5	280.4	300.0
135°	128.0	136.7	146.9	157.8	170.5	185.6	203.5	224.0	244.8	265.6	283.2
137.5°	132.7	140.9	150.9	161.1	172.6	185.5	200.5	217.3	234.7	251.2	266.5
140°	135.5	143.7	153.1	162.9	173.6	185.3	198.8	212.9	228.1	242.6	256.5
142.5°	138.0	145.7	154.9	164.4	174.3	185.3	197.1	209.5	222.3	234.8	246.4
145°	142.1	149.0	157.6	166.4	175.1	184.6	194.7	204.5	214.9	224.6	233.8
147.5°	145.5	151.7	159.7	167.5	175.4	183.5	192.3	200.6	208.8	216.4	223.1
150°	147.8	153.5	160.7	167.9	175.1	182.7	190.3	197.9	204.8	211.4	217.0
152.5°	150.1	155.2	161.7	168.2	174.7	181.5	188.5	195.1	201.5	207.1	212.0
155°	153.1	157.8	163.2	168.5	173.9	179.2	185.3	191.3	196.3	201.0	204.5
157.5°	155.8	159.7	164.3	168.5	172.5	177.0	182.2	186.8	191.0	194.9	197.7
160°	157.6	161.0	164.8	168.5	171.7	175.5	179.9	184.0	187.4	190.9	193.1
162.5°	159.1	161.8	165.1	168.3	170.9	174.2	177.9	181.2	184.2	187.2	188.9
165°	160.7	162.6	165.4	167.6	169.5	171.7	174.5	177.1	179.2	181.5	182.7
167.5°	162.1	163.3	165.3	167.2	168.1	169.5	171.3	173.1	174.8	176.3	177.5
170°	162.6	163.5	165.1	166.7	167.3	168.3	169.5	171.1	172.0	173.3	173.9
172.5°	163.1	163.8	164.9	165.9	166.3	166.7	167.7	168.8	169.5	170.5	170.9
175°	163.5	163.8	164.4	165.1	164.8	165.1	165.4	166.4	166.7	167.0	167.3
177.5°	163.8	163.8	164.1	164.6	164.1	163.8	164.1	164.6	164.6	164.9	164.9
180°	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8



TEST NUMBER: P331422-940

CATALOG NUMBER: S122DIP-S1005D330U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1705.4	1704.3	1704.3	1699.4	1704.3	1704.3	1705.4	1710.8	1712.5	1713.6	1711.5
5°	1582.0	1579.9	1576.5	1579.9	1576.5	1579.9	1582.0	1591.5	1596.3	1601.2	1605.3
7.5°	1459.9	1451.7	1450.5	1442.4	1450.5	1451.7	1459.9	1464.5	1474.0	1484.8	1494.7
10°	1370.8	1365.4	1364.7	1351.7	1364.7	1365.4	1370.8	1382.4	1392.0	1405.0	1418.6
12.5°	1303.1	1289.9	1292.5	1285.0	1292.5	1289.9	1303.1	1303.1	1314.4	1322.4	1343.8
15°	1185.6	1185.6	1182.9	1171.3	1182.9	1185.6	1185.6	1204.1	1207.5	1220.5	1238.9
17.5°	1101.4	1099.9	1093.4	1096.6	1093.4	1099.9	1101.4	1114.8	1117.1	1134.5	1149.7
20°	1051.0	1047.0	1038.8	1038.8	1038.8	1047.0	1051.0	1058.5	1067.4	1077.6	1090.7
22.5°	1003.4	1003.2	994.4	997.2	994.4	1003.2	1003.4	1010.4	1018.8	1030.1	1040.9
25°	947.8	942.4	938.3	940.3	938.3	942.4	947.8	948.5	958.1	965.6	972.4
27.5°	895.1	892.1	891.8	886.2	891.8	892.1	895.1	896.9	902.3	906.7	913.1
30°	864.4	857.6	859.0	855.6	859.0	857.6	864.4	865.1	867.9	870.6	878.2
32.5°	829.5	827.0	825.6	822.8	825.6	827.0	829.5	830.7	836.2	838.9	844.8
35°	781.8	782.5	779.0	780.4	779.0	782.5	781.8	783.1	783.8	786.6	792.0
37.5°	740.1	742.3	740.7	741.0	740.7	742.3	740.1	740.7	741.5	741.9	743.5
40°	712.7	712.7	712.7	714.8	712.7	712.7	712.7	710.7	711.4	710.7	710.7
42.5°	686.5	685.5	684.3	684.2	684.3	685.5	686.5	681.7	684.0	681.7	680.6
45°	641.7	643.7	644.4	641.0	644.4	643.7	641.7	640.3	638.3	637.6	636.9
47.5°	601.1	601.4	601.1	604.1	601.1	601.4	601.1	599.3	596.2	594.9	591.7
50°	572.7	571.3	572.7	571.3	572.7	571.3	572.7	569.3	567.2	563.7	561.1
52.5°	542.6	542.9	542.1	541.8	542.1	542.9	542.6	538.1	537.2	535.9	531.5
55°	495.4	496.8	496.1	496.1	496.1	496.8	495.4	492.7	492.0	487.9	483.8
57.5°	446.7	447.9	448.8	445.9	448.8	447.9	446.7	446.2	445.9	441.5	437.1
60°	412.8	416.2	415.4	414.1	415.4	416.2	412.8	413.4	411.3	408.7	405.9
62.5°	381.6	382.8	382.7	382.5	382.7	382.8	381.6	378.4	377.5	374.8	372.0
65°	333.5	334.8	332.8	334.8	332.8	334.8	333.5	331.4	326.6	325.3	322.5
67.5°	281.7	282.1	283.6	284.5	283.6	282.1	281.7	282.5	279.4	276.8	276.3
70°	249.4	248.8	250.8	252.9	250.8	248.8	249.4	248.1	246.0	244.0	241.2
72.5°	215.5	217.0	216.3	217.8	216.3	217.0	215.5	215.8	213.7	211.2	208.4
75°	166.0	168.1	167.5	169.5	167.5	168.1	166.0	167.5	166.0	163.4	160.6
77.5°	120.0	120.3	120.0	121.1	120.0	120.3	120.0	121.1	119.6	120.6	117.4
80°	91.6	90.2	88.8	91.6	88.8	90.2	91.6	91.6	89.5	91.6	89.5
82.5°	63.7	64.5	63.1	63.1	63.1	64.5	63.7	65.4	64.4	65.4	63.3
85°	29.4	28.7	27.4	27.4	27.4	28.7	29.4	29.4	31.5	30.1	30.1
87.5°	7.6	7.0	7.0	6.4	7.0	7.0	7.6	7.6	7.5	8.5	8.6
90°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.1	9.5	10.1
92.5°	18.7	17.7	17.9	17.5	17.9	17.7	18.7	19.0	21.0	23.5	27.5
95°	39.1	36.6	35.6	35.9	35.6	36.6	39.1	43.2	50.1	63.3	82.6
97.5°	85.7	77.9	73.4	70.7	73.4	77.9	85.7	100.8	123.5	157.6	192.6
100°	141.2	127.6	118.5	112.8	118.5	127.6	141.2	167.3	205.5	248.6	287.7
102.5°	240.7	217.6	206.2	198.5	206.2	217.6	240.7	269.1	309.5	341.1	349.9
105°	392.5	373.0	359.4	355.1	359.4	373.0	392.5	412.1	422.5	418.4	382.8
107.5°	463.2	462.2	459.4	453.6	459.4	462.2	463.2	460.7	445.5	412.8	359.1
110°	474.8	480.8	483.7	483.3	483.7	480.8	474.8	461.3	435.4	395.1	338.7



TEST NUMBER: P331422-940

CATALOG NUMBER: S122DIP-S1005D330U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	465.7	475.7	481.1	482.8	481.1	475.7	465.7	446.9	417.2	374.2	320.0
115°	441.8	456.2	464.4	467.3	464.4	456.2	441.8	419.4	386.9	345.6	297.1
117.5°	413.1	428.5	437.0	439.4	437.0	428.5	413.1	390.3	359.9	322.4	279.8
120°	394.5	409.3	418.4	421.6	418.4	409.3	394.5	372.4	343.8	310.3	271.3
122.5°	377.6	392.2	400.3	402.9	400.3	392.2	377.6	357.8	331.9	300.2	264.5
125°	356.7	368.6	376.5	379.1	376.5	368.6	356.7	338.4	314.8	287.0	254.6
127.5°	338.0	349.3	356.1	358.1	356.1	349.3	338.0	322.1	300.3	274.2	244.8
130°	326.7	337.4	343.8	346.3	343.8	337.4	326.7	311.3	290.5	265.6	238.5
132.5°	315.1	325.8	331.6	333.9	331.6	325.8	315.1	300.0	280.4	257.5	232.5
135°	296.8	307.2	312.9	314.1	312.9	307.2	296.8	283.2	265.6	244.8	224.0
137.5°	278.9	287.8	292.8	294.7	292.8	287.8	278.9	266.5	251.2	234.7	217.3
140°	266.5	274.7	279.5	281.3	279.5	274.7	266.5	256.5	242.6	228.1	212.9
142.5°	255.9	263.4	267.6	268.0	267.6	263.4	255.9	246.4	234.8	222.3	209.5
145°	241.3	246.7	249.9	250.7	249.9	246.7	241.3	233.8	224.6	214.9	204.5
147.5°	229.3	233.6	235.8	236.4	235.8	233.6	229.3	223.1	216.4	208.8	200.6
150°	221.8	225.6	227.5	227.8	227.5	225.6	221.8	217.0	211.4	204.8	197.9
152.5°	215.8	219.0	220.4	220.5	220.4	219.0	215.8	212.0	207.1	201.5	195.1
155°	207.9	210.2	211.4	210.8	211.4	210.2	207.9	204.5	201.0	196.3	191.3
157.5°	200.1	202.0	202.5	202.5	202.5	202.0	200.1	197.7	194.9	191.0	186.8
160°	195.4	196.9	197.2	197.2	197.2	196.9	195.4	193.1	190.9	187.4	184.0
162.5°	191.1	192.2	192.4	192.2	192.4	192.2	191.1	188.9	187.2	184.2	181.2
165°	184.0	185.3	185.3	184.9	185.3	185.3	184.0	182.7	181.5	179.2	177.1
167.5°	178.0	178.7	178.6	178.3	178.6	178.7	178.0	177.5	176.3	174.8	173.1
170°	174.2	175.1	174.9	174.2	174.9	175.1	174.2	173.9	173.3	172.0	171.1
172.5°	171.2	171.7	171.3	170.9	171.3	171.7	171.2	170.9	170.5	169.5	168.8
175°	167.3	167.6	167.3	166.7	167.3	167.6	167.3	167.3	167.0	166.7	166.4
177.5°	164.9	164.9	164.6	164.1	164.6	164.9	164.9	164.9	164.9	164.6	164.6
180°	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8



TEST NUMBER: P331422-940

CATALOG NUMBER: S122DIP-S1005D330U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1708.7	1714.7	1724.0	1733.8	1739.8	1751.3	1754.6	1760.1	1765.0	1776.5	1788.5
5°	1610.0	1619.6	1642.1	1654.4	1671.5	1691.3	1704.3	1718.0	1733.0	1759.0	1782.9
7.5°	1504.2	1520.2	1548.2	1571.2	1595.5	1624.0	1644.4	1671.5	1693.9	1730.5	1765.5
10°	1433.7	1456.3	1481.6	1508.9	1543.0	1573.1	1601.8	1635.9	1663.3	1707.0	1748.0
12.5°	1370.3	1373.7	1409.9	1440.0	1486.7	1523.9	1557.0	1601.0	1627.7	1679.7	1722.9
15°	1259.5	1280.0	1312.8	1336.7	1392.0	1439.1	1485.6	1531.4	1562.2	1626.4	1683.1
17.5°	1166.1	1185.0	1218.6	1257.8	1297.5	1344.4	1404.6	1452.9	1494.7	1568.1	1635.1
20°	1107.1	1130.2	1164.5	1204.8	1239.7	1290.8	1342.8	1398.2	1443.2	1526.0	1604.5
22.5°	1056.8	1075.0	1102.7	1142.5	1180.5	1227.4	1284.3	1344.6	1391.9	1481.1	1560.8
25°	986.1	1001.1	1018.9	1051.7	1094.8	1146.0	1190.4	1256.7	1325.7	1409.1	1505.5
27.5°	922.4	933.1	948.8	977.6	1010.9	1058.9	1108.3	1171.2	1240.5	1331.1	1432.7
30°	883.6	890.5	906.2	930.1	962.9	1000.4	1050.3	1110.4	1181.5	1273.1	1374.2
32.5°	849.7	856.0	866.2	889.0	917.5	949.6	994.5	1054.7	1122.5	1212.5	1324.5
35°	798.9	803.6	812.5	831.0	846.7	878.2	915.7	970.4	1033.9	1120.1	1236.2
37.5°	748.1	754.7	760.2	767.9	788.2	808.9	841.5	887.7	950.0	1037.0	1147.6
40°	714.8	720.2	728.4	731.9	748.3	766.7	793.4	835.7	898.7	977.9	1085.8
42.5°	680.9	686.3	691.3	695.3	709.4	725.8	749.7	786.0	841.8	918.8	1025.7
45°	634.8	635.5	640.3	647.8	654.7	666.3	683.4	714.8	757.9	830.3	927.3
47.5°	588.1	588.9	589.8	593.0	600.6	611.1	622.4	648.0	686.5	744.3	838.7
50°	557.0	555.5	557.0	559.6	564.5	573.4	586.3	604.8	636.2	690.2	776.9
52.5°	526.9	526.6	525.8	526.9	530.6	536.7	545.9	561.6	589.8	639.4	715.8
55°	481.1	477.7	478.3	475.6	481.8	483.1	490.0	502.9	527.5	561.7	633.5
57.5°	432.3	429.4	426.4	425.6	425.1	428.7	434.2	444.4	463.3	493.3	551.4
60°	401.1	397.7	393.6	392.3	392.3	394.3	397.1	404.6	422.3	449.0	496.8
62.5°	369.4	365.4	363.0	359.4	358.4	360.4	363.1	368.5	381.3	406.4	447.6
65°	320.5	315.8	312.3	311.7	310.2	308.2	309.6	315.0	325.3	345.1	377.9
67.5°	271.4	266.9	266.1	262.2	260.2	260.5	260.2	264.8	271.0	288.1	312.5
70°	239.2	235.8	234.4	231.0	229.6	228.3	226.9	231.0	237.1	251.5	272.7
72.5°	206.3	203.5	200.5	197.6	197.9	196.5	196.3	198.8	203.8	217.0	233.3
75°	159.3	159.9	156.5	153.1	152.4	151.1	151.1	153.1	155.2	165.4	178.3
77.5°	115.5	114.9	112.1	111.0	110.3	108.8	110.3	111.6	112.7	119.6	129.1
80°	88.2	88.2	84.7	84.7	84.1	82.0	84.1	82.7	85.4	92.3	99.1
82.5°	63.0	61.9	61.8	60.7	60.5	59.0	60.0	61.3	62.4	67.1	71.2
85°	30.8	30.8	30.1	29.4	30.1	29.4	30.1	30.8	31.5	33.5	36.9
87.5°	8.6	9.3	9.7	9.9	9.5	9.7	10.1	10.4	11.4	11.8	12.1
90°	10.4	10.7	10.4	8.5	6.3	4.7	3.7	3.1	2.5	1.2	0.4
92.5°	34.6	40.9	40.4	31.5	21.4	14.3	11.3	9.2	7.8	5.5	3.8
95°	108.1	123.5	109.3	72.8	45.4	30.9	23.3	18.3	15.4	12.3	11.1
97.5°	221.1	210.8	158.8	98.1	59.8	41.6	33.1	27.3	23.0	19.6	17.9
100°	294.3	248.9	171.4	103.3	64.9	48.2	39.4	33.1	28.0	25.2	24.3
102.5°	321.5	250.1	166.6	103.6	69.5	54.0	45.2	38.6	33.6	30.8	30.1
105°	317.3	233.4	157.2	105.2	77.2	62.4	53.6	46.6	41.9	39.7	38.4
107.5°	289.6	215.5	152.6	109.6	85.2	70.8	61.9	55.0	50.6	48.5	47.5
110°	272.2	207.0	151.6	113.1	90.4	76.6	67.4	60.8	56.7	54.8	53.6



TEST NUMBER: P331422-940

CATALOG NUMBER: S122DIP-S1005D330U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	260.1	201.4	151.8	116.9	95.5	82.1	72.7	66.3	62.5	60.4	59.1
115°	245.1	195.4	153.1	122.5	103.3	89.8	81.3	75.0	71.2	69.3	67.8
117.5°	235.7	192.3	155.4	128.6	110.6	98.1	89.3	83.2	79.8	77.9	76.7
120°	230.6	190.6	156.9	132.7	115.7	103.3	94.5	88.2	85.4	83.5	82.2
122.5°	226.3	189.6	158.6	136.2	120.4	108.9	99.8	93.5	90.4	88.5	87.6
125°	220.3	187.8	161.3	141.8	127.6	116.3	107.5	101.1	97.4	95.5	94.5
127.5°	214.5	186.7	164.0	147.0	134.3	123.2	114.1	108.2	104.0	101.3	100.0
130°	210.8	186.2	166.0	150.3	138.3	127.2	118.5	112.2	107.7	104.6	103.3
132.5°	207.8	185.9	168.1	153.6	141.9	131.3	122.5	115.9	111.3	107.9	106.4
135°	203.5	185.6	170.5	157.8	146.9	136.7	128.0	120.6	115.9	112.2	110.9
137.5°	200.5	185.5	172.6	161.1	150.9	140.9	132.7	125.6	120.5	116.7	115.2
140°	198.8	185.3	173.6	162.9	153.1	143.7	135.5	128.6	123.5	119.8	118.5
142.5°	197.1	185.3	174.3	164.4	154.9	145.7	138.0	131.3	126.3	122.8	121.7
145°	194.7	184.6	175.1	166.4	157.6	149.0	142.1	135.8	131.1	128.0	126.6
147.5°	192.3	183.5	175.4	167.5	159.7	151.7	145.5	140.3	135.9	132.9	132.0
150°	190.3	182.7	175.1	167.9	160.7	153.5	147.8	143.0	138.9	136.4	135.5
152.5°	188.5	181.5	174.7	168.2	161.7	155.2	150.1	145.5	142.0	139.5	139.0
155°	185.3	179.2	173.9	168.5	163.2	157.8	153.1	149.6	146.2	144.3	144.0
157.5°	182.2	177.0	172.5	168.5	164.3	159.7	155.8	153.0	150.0	148.5	148.1
160°	179.9	175.5	171.7	168.5	164.8	161.0	157.6	155.0	152.5	151.2	150.9
162.5°	177.9	174.2	170.9	168.3	165.1	161.8	159.1	156.8	154.8	153.5	153.7
165°	174.5	171.7	169.5	167.6	165.4	162.6	160.7	159.1	157.2	156.6	156.9
167.5°	171.3	169.5	168.1	167.2	165.3	163.3	162.1	161.0	159.7	159.2	159.5
170°	169.5	168.3	167.3	166.7	165.1	163.5	162.6	161.9	161.0	160.7	161.3
172.5°	167.7	166.7	166.3	165.9	164.9	163.8	163.1	162.7	161.8	161.9	162.3
175°	165.4	165.1	164.8	165.1	164.4	163.8	163.5	163.5	162.9	163.2	163.5
177.5°	164.1	163.8	164.1	164.6	164.1	163.8	163.8	163.8	163.4	163.5	164.1
180°	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8



TEST NUMBER: P331422-940

CATALOG NUMBER: S122DIP-S1005D330U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1787.4	1790.1	1798.8	1807.7	1817.5	1820.2	1824.6	1820.8	1819.6	1830.1	1837.7
5°	1792.4	1804.7	1828.7	1850.6	1869.0	1882.0	1895.7	1901.1	1911.4	1925.7	1943.5
7.5°	1786.7	1810.6	1848.2	1880.1	1914.8	1939.8	1959.4	1976.0	1996.3	2023.5	2053.1
10°	1780.1	1812.3	1858.1	1897.0	1939.4	1971.5	1998.1	2024.1	2054.2	2091.8	2130.7
12.5°	1768.2	1806.2	1863.5	1909.6	1964.0	1995.6	2031.5	2087.6	2119.8	2172.1	2227.0
15°	1743.9	1786.3	1866.3	1923.0	1984.5	2044.6	2110.9	2164.2	2217.5	2248.3	2325.5
17.5°	1708.0	1770.2	1858.8	1924.9	2003.0	2097.7	2172.3	2232.7	2294.2	2344.0	2382.7
20°	1679.0	1746.7	1847.8	1927.1	2020.0	2121.8	2207.3	2268.8	2322.1	2363.7	2387.6
22.5°	1642.4	1727.5	1826.0	1918.9	2037.6	2138.2	2228.0	2276.4	2320.9	2341.4	2350.5
25°	1584.7	1687.2	1798.6	1912.1	2046.0	2152.6	2234.6	2264.0	2277.0	2257.2	2224.4
27.5°	1522.5	1636.8	1767.0	1899.2	2040.8	2143.3	2202.1	2197.4	2175.4	2111.3	2060.0
30°	1476.0	1601.8	1741.9	1886.1	2028.2	2128.0	2162.1	2128.0	2078.1	2006.3	1933.2
32.5°	1427.5	1557.6	1715.1	1867.5	2005.3	2093.0	2100.4	2041.7	1964.4	1882.8	1791.6
35°	1353.7	1494.5	1664.6	1826.0	1956.5	2011.8	1979.1	1875.2	1783.6	1672.2	1547.8
37.5°	1270.5	1425.9	1596.6	1765.1	1883.4	1897.8	1816.4	1707.0	1577.9	1447.0	1300.6
40°	1208.2	1372.9	1548.5	1718.7	1823.2	1808.2	1704.3	1584.0	1430.3	1270.3	1134.3
42.5°	1152.4	1317.1	1496.0	1662.9	1746.7	1705.4	1584.0	1436.5	1271.2	1120.6	996.0
45°	1055.8	1225.3	1408.5	1569.7	1617.6	1543.0	1382.4	1218.4	1055.8	930.1	831.7
47.5°	962.1	1129.6	1311.0	1452.7	1469.6	1369.5	1194.0	1025.2	885.4	783.0	713.5
50°	893.1	1061.2	1241.0	1367.4	1361.9	1241.0	1060.6	900.0	783.1	700.4	654.0
52.5°	831.3	990.2	1162.8	1277.7	1248.8	1116.9	944.7	802.1	706.1	641.4	599.3
55°	735.3	882.3	1046.2	1138.4	1085.2	939.0	793.4	678.6	607.5	559.0	526.2
57.5°	639.9	777.7	918.0	974.9	916.0	781.0	659.6	576.3	522.9	487.0	465.7
60°	580.9	701.2	826.2	875.4	805.0	684.7	589.1	514.6	471.5	442.1	423.0
62.5°	521.8	629.5	747.4	774.3	709.9	608.2	523.4	461.5	426.1	400.0	382.0
65°	441.5	529.6	619.1	636.9	577.5	498.8	431.9	391.6	360.2	341.0	326.6
67.5°	362.0	432.8	496.2	510.6	458.5	404.0	355.6	320.5	299.2	283.3	271.2
70°	315.0	371.0	423.0	434.6	393.0	344.4	307.6	279.5	260.4	246.7	235.1
72.5°	265.3	312.0	355.2	363.0	329.0	291.9	261.6	239.6	222.7	213.9	202.9
75°	203.0	230.3	263.8	265.8	243.3	220.7	197.5	183.2	174.2	163.4	157.8
77.5°	143.2	164.7	183.8	187.5	174.2	158.8	145.8	134.5	127.0	121.9	116.8
80°	109.3	126.4	134.6	139.4	129.8	118.9	111.4	103.9	99.1	95.7	92.3
82.5°	78.2	88.7	96.4	100.0	94.9	88.3	80.8	76.5	72.9	70.0	68.8
85°	39.6	44.4	49.2	50.6	49.2	46.5	42.4	42.4	40.3	39.6	39.6
87.5°	13.9	16.3	16.5	18.3	17.4	17.7	18.1	17.9	17.5	16.9	16.2
90°	1.2	2.5	3.1	3.7	4.7	6.3	8.5	10.4	10.7	10.4	10.1
92.5°	5.5	7.8	9.2	11.3	14.3	21.4	31.5	40.4	40.9	34.6	27.5
95°	12.3	15.4	18.3	23.3	30.9	45.4	72.8	109.3	123.5	108.1	82.6
97.5°	19.6	23.0	27.3	33.1	41.6	59.8	98.1	158.8	210.8	221.1	192.6
100°	25.2	28.0	33.1	39.4	48.2	64.9	103.3	171.4	248.9	294.3	287.7
102.5°	30.8	33.6	38.6	45.2	54.0	69.5	103.6	166.6	250.1	321.5	349.9
105°	39.7	41.9	46.6	53.6	62.4	77.2	105.2	157.2	233.4	317.3	382.8
107.5°	48.5	50.6	55.0	61.9	70.8	85.2	109.6	152.6	215.5	289.6	359.1
110°	54.8	56.7	60.8	67.4	76.6	90.4	113.1	151.6	207.0	272.2	338.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	60.4	62.5	66.3	72.7	82.1	95.5	116.9	151.8	201.4	260.1	320.0
115°	69.3	71.2	75.0	81.3	89.8	103.3	122.5	153.1	195.4	245.1	297.1
117.5°	77.9	79.8	83.2	89.3	98.1	110.6	128.6	155.4	192.3	235.7	279.8
120°	83.5	85.4	88.2	94.5	103.3	115.7	132.7	156.9	190.6	230.6	271.3
122.5°	88.5	90.4	93.5	99.8	108.9	120.4	136.2	158.6	189.6	226.3	264.5
125°	95.5	97.4	101.1	107.5	116.3	127.6	141.8	161.3	187.8	220.3	254.6
127.5°	101.3	104.0	108.2	114.1	123.2	134.3	147.0	164.0	186.7	214.5	244.8
130°	104.6	107.7	112.2	118.5	127.2	138.3	150.3	166.0	186.2	210.8	238.5
132.5°	107.9	111.3	115.9	122.5	131.3	141.9	153.6	168.1	185.9	207.8	232.5
135°	112.2	115.9	120.6	128.0	136.7	146.9	157.8	170.5	185.6	203.5	224.0
137.5°	116.7	120.5	125.6	132.7	140.9	150.9	161.1	172.6	185.5	200.5	217.3
140°	119.8	123.5	128.6	135.5	143.7	153.1	162.9	173.6	185.3	198.8	212.9
142.5°	122.8	126.3	131.3	138.0	145.7	154.9	164.4	174.3	185.3	197.1	209.5
145°	128.0	131.1	135.8	142.1	149.0	157.6	166.4	175.1	184.6	194.7	204.5
147.5°	132.9	135.9	140.3	145.5	151.7	159.7	167.5	175.4	183.5	192.3	200.6
150°	136.4	138.9	143.0	147.8	153.5	160.7	167.9	175.1	182.7	190.3	197.9
152.5°	139.5	142.0	145.5	150.1	155.2	161.7	168.2	174.7	181.5	188.5	195.1
155°	144.3	146.2	149.6	153.1	157.8	163.2	168.5	173.9	179.2	185.3	191.3
157.5°	148.5	150.0	153.0	155.8	159.7	164.3	168.5	172.5	177.0	182.2	186.8
160°	151.2	152.5	155.0	157.6	161.0	164.8	168.5	171.7	175.5	179.9	184.0
162.5°	153.5	154.8	156.8	159.1	161.8	165.1	168.3	170.9	174.2	177.9	181.2
165°	156.6	157.2	159.1	160.7	162.6	165.4	167.6	169.5	171.7	174.5	177.1
167.5°	159.2	159.7	161.0	162.1	163.3	165.3	167.2	168.1	169.5	171.3	173.1
170°	160.7	161.0	161.9	162.6	163.5	165.1	166.7	167.3	168.3	169.5	171.1
172.5°	161.9	161.8	162.7	163.1	163.8	164.9	165.9	166.3	166.7	167.7	168.8
175°	163.2	162.9	163.5	163.5	163.8	164.4	165.1	164.8	165.1	165.4	166.4
177.5°	163.5	163.4	163.8	163.8	163.8	164.1	164.6	164.1	163.8	164.1	164.6
180°	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1844.2	1851.9	1851.9	1853.0	1861.7	1860.6	1860.1
5°	1962.7	1974.2	1975.6	1987.9	1996.1	1993.3	1985.8
7.5°	2074.3	2095.9	2112.3	2121.5	2132.3	2138.9	2135.9
10°	2162.8	2194.3	2213.4	2226.4	2242.1	2253.7	2249.6
12.5°	2243.2	2280.6	2306.9	2329.1	2331.2	2346.1	2336.0
15°	2368.6	2408.2	2412.3	2428.7	2441.7	2440.3	2441.0
17.5°	2409.9	2422.7	2425.3	2425.6	2425.8	2421.0	2410.7
20°	2395.2	2390.4	2378.8	2369.9	2354.2	2352.2	2338.5
22.5°	2325.2	2310.1	2280.9	2261.6	2237.2	2230.8	2227.0
25°	2187.5	2153.9	2107.5	2063.1	2050.8	2026.9	2033.7
27.5°	1998.4	1946.2	1896.0	1859.8	1827.2	1791.4	1801.6
30°	1865.5	1806.8	1735.7	1681.1	1646.2	1612.0	1605.9
32.5°	1707.0	1621.0	1541.7	1493.5	1440.1	1418.5	1394.9
35°	1433.7	1349.6	1271.0	1203.4	1164.5	1134.3	1107.1
37.5°	1187.8	1091.1	1027.6	972.9	944.7	927.5	931.8
40°	1035.3	950.6	904.1	862.4	836.4	824.1	826.9
42.5°	911.8	848.3	810.0	781.5	763.2	756.3	754.7
45°	771.5	736.0	704.5	688.1	679.3	671.7	667.0
47.5°	675.8	646.8	629.1	619.4	611.6	604.0	603.8
50°	618.4	599.3	587.0	576.8	570.6	565.2	569.9
52.5°	574.7	557.2	544.9	535.7	533.4	528.5	528.3
55°	509.8	496.1	487.2	479.0	474.9	472.2	468.8
57.5°	450.8	437.7	429.5	424.4	416.6	413.8	412.8
60°	408.7	398.4	390.2	383.3	380.0	374.5	374.5
62.5°	369.8	359.6	352.0	346.7	341.2	338.9	339.5
65°	313.7	305.5	297.9	292.5	291.1	287.0	288.4
67.5°	262.0	256.5	248.6	245.6	243.0	240.9	239.2
70°	227.6	222.1	218.0	213.9	211.9	211.9	211.9
72.5°	198.6	192.0	189.6	184.4	185.6	183.4	181.2
75°	153.7	149.6	147.6	145.5	142.1	142.1	142.1
77.5°	113.2	111.9	109.5	107.3	106.5	105.8	106.0
80°	87.5	86.8	85.4	85.4	84.1	83.4	82.0
82.5°	67.2	65.5	64.6	64.1	63.8	63.7	63.4
85°	38.3	36.9	36.9	37.5	36.2	36.2	36.9
87.5°	16.7	16.8	16.3	16.3	16.9	16.3	16.3
90°	9.5	10.1	10.4	10.4	10.4	10.4	10.4
92.5°	23.5	21.0	19.0	18.7	17.7	17.9	17.5
95°	63.3	50.1	43.2	39.1	36.6	35.6	35.9
97.5°	157.6	123.5	100.8	85.7	77.9	73.4	70.7
100°	248.6	205.5	167.3	141.2	127.6	118.5	112.8
102.5°	341.1	309.5	269.1	240.7	217.6	206.2	198.5
105°	418.4	422.5	412.1	392.5	373.0	359.4	355.1
107.5°	412.8	445.5	460.7	463.2	462.2	459.4	453.6
110°	395.1	435.4	461.3	474.8	480.8	483.7	483.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	374.2	417.2	446.9	465.7	475.7	481.1	482.8
115°	345.6	386.9	419.4	441.8	456.2	464.4	467.3
117.5°	322.4	359.9	390.3	413.1	428.5	437.0	439.4
120°	310.3	343.8	372.4	394.5	409.3	418.4	421.6
122.5°	300.2	331.9	357.8	377.6	392.2	400.3	402.9
125°	287.0	314.8	338.4	356.7	368.6	376.5	379.1
127.5°	274.2	300.3	322.1	338.0	349.3	356.1	358.1
130°	265.6	290.5	311.3	326.7	337.4	343.8	346.3
132.5°	257.5	280.4	300.0	315.1	325.8	331.6	333.9
135°	244.8	265.6	283.2	296.8	307.2	312.9	314.1
137.5°	234.7	251.2	266.5	278.9	287.8	292.8	294.7
140°	228.1	242.6	256.5	266.5	274.7	279.5	281.3
142.5°	222.3	234.8	246.4	255.9	263.4	267.6	268.0
145°	214.9	224.6	233.8	241.3	246.7	249.9	250.7
147.5°	208.8	216.4	223.1	229.3	233.6	235.8	236.4
150°	204.8	211.4	217.0	221.8	225.6	227.5	227.8
152.5°	201.5	207.1	212.0	215.8	219.0	220.4	220.5
155°	196.3	201.0	204.5	207.9	210.2	211.4	210.8
157.5°	191.0	194.9	197.7	200.1	202.0	202.5	202.5
160°	187.4	190.9	193.1	195.4	196.9	197.2	197.2
162.5°	184.2	187.2	188.9	191.1	192.2	192.4	192.2
165°	179.2	181.5	182.7	184.0	185.3	185.3	184.9
167.5°	174.8	176.3	177.5	178.0	178.7	178.6	178.3
170°	172.0	173.3	173.9	174.2	175.1	174.9	174.2
172.5°	169.5	170.5	170.9	171.2	171.7	171.3	170.9
175°	166.7	167.0	167.3	167.3	167.6	167.3	166.7
177.5°	164.6	164.9	164.9	164.9	164.9	164.6	164.1
180°	163.8	163.8	163.8	163.8	163.8	163.8	163.8

(END OF REPORT)