

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: P331429-940

Luminaire Tested: **S122DIP-S1005D530U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331429-940  
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-S1005D530U940-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 530 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5809.2 lumens  
Efficiency: N/A  
Efficacy: 105.4 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

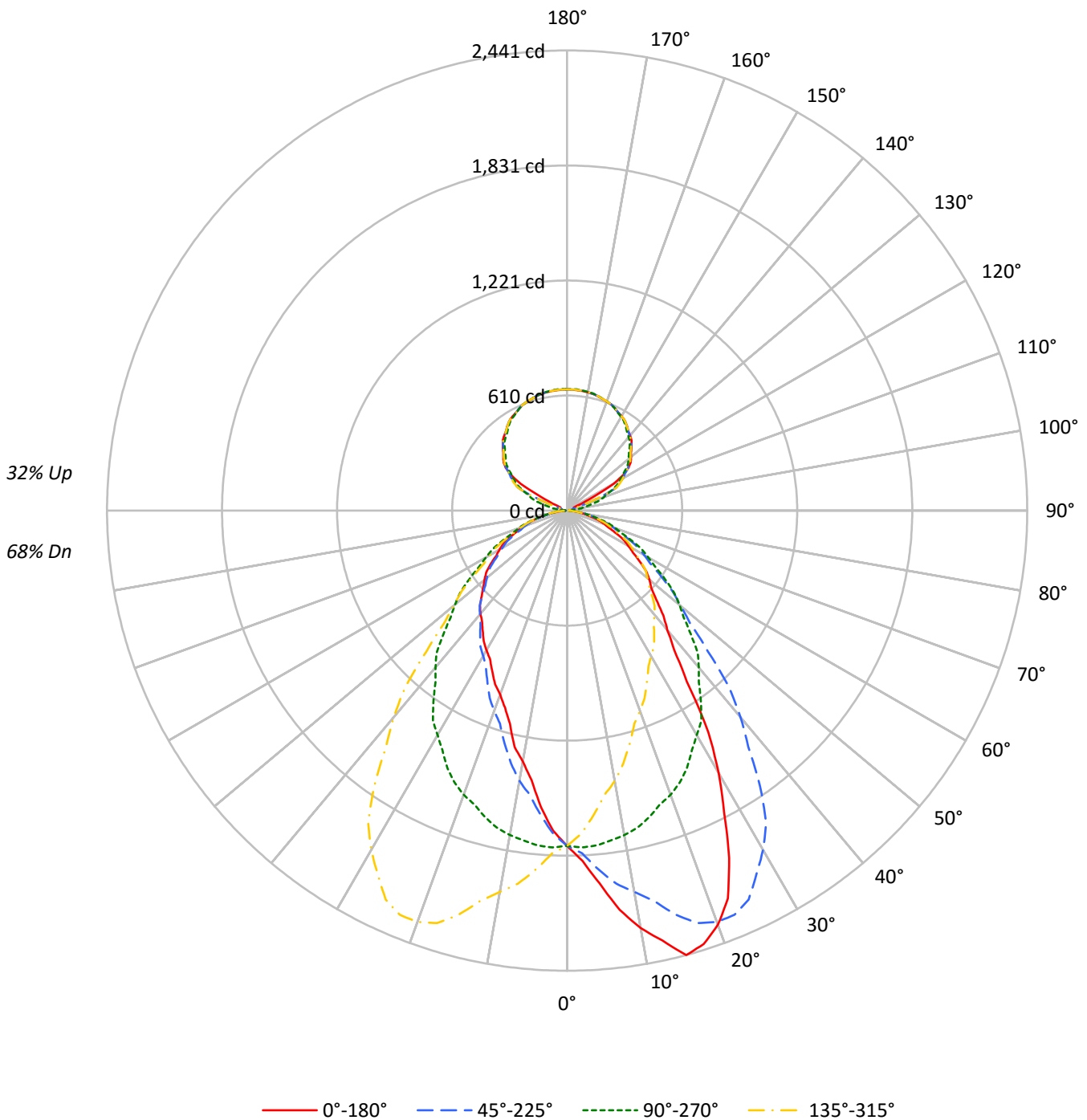
Input Watts (W): 55.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	68				
1	102	98	94	91	96	93	90	87	83	80	78	73	72	70	65	64	62	58				
2	94	87	81	75	88	82	77	72	73	69	66	65	62	59	58	56	53	50				
3	86	77	69	64	81	73	66	61	65	60	56	58	54	51	52	49	46	43				
4	79	68	61	55	74	65	58	53	58	53	48	52	48	44	47	43	40	37				
5	73	61	53	47	69	58	51	46	53	47	42	47	43	39	43	39	36	33				
6	67	55	47	42	64	53	46	40	48	42	37	43	38	35	39	35	32	29				
7	63	50	42	37	59	48	41	36	44	38	33	40	35	31	36	32	29	26				
8	58	46	38	33	55	44	37	32	40	34	30	36	31	28	33	29	26	24				
9	55	42	35	30	52	40	34	29	37	31	27	34	29	25	31	26	24	22				
10	51	39	32	27	48	37	31	26	34	29	25	31	26	23	28	24	22	20				

**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	2.9
10°-20°	492.3	8.5
20°-30°	714.5	12.3
30°-40°	754.0	13.0
40°-50°	667.6	11.5
50°-60°	532.7	9.2
60°-70°	362.1	6.2
70°-80°	185.6	3.2
80°-90°	46.3	0.8
90°-100°	21.5	0.4
100°-110°	78.7	1.4
110°-120°	210.3	3.6
120°-130°	347.1	6.0
130°-140°	369.2	6.4
140°-150°	343.1	5.9
150°-160°	275.9	4.7
160°-170°	177.8	3.1
170°-180°	61.2	1.1
0°-30°	1376.1	23.7
0°-40°	2130.1	36.7
0°-60°	3330.4	57.3
0°-90°	3924.5	67.6
90°-120°	310.4	5.3
90°-150°	1369.9	23.6
90°-180°	1885.0	32.4
0°-180°	5809.2	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°	13	0	13	0	13	7
95°	20	30	20	30	20	19
105°	35	141	35	141	35	37
115°	38	268	38	268	38	96
125°	398	378	398	378	398	344
135°	484	468	484	468	484	373
145°	551	543	551	543	551	345
155°	598	598	598	598	598	276
165°	629	630	629	630	629	177
175°	641	644	641	644	641	61
180°	643	643	643	643	643	



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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°	16.8	16.7	17.2	16.6	16.6	17.0	16.9	16.3	16.8	17.2	17.6
90°	12.6	12.4	12.1	11.9	11.8	11.4	10.9	10.3	9.8	9.3	8.5
92.5°	12.6	12.5	12.3	12.2	12.0	11.9	11.6	11.3	11.1	10.8	10.3
95°	20.0	20.2	20.2	20.3	20.4	20.2	19.7	19.2	18.6	18.2	17.4
97.5°	26.8	26.6	26.5	26.3	26.2	25.9	25.5	25.1	24.7	24.3	22.6
100°	31.2	30.9	30.8	30.6	30.3	29.9	29.0	28.2	27.4	26.5	24.8
102.5°	33.4	33.1	32.8	32.5	32.3	31.6	30.5	29.4	28.4	27.3	42.0
105°	35.4	35.0	34.5	34.2	33.7	32.9	31.8	30.7	29.5	28.4	56.6
107.5°	36.4	35.9	35.6	35.1	34.8	35.1	36.3	37.5	38.6	39.8	73.6
110°	36.7	36.4	35.9	35.5	35.1	40.0	50.4	60.7	71.1	81.4	111.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	37.1	36.8	36.5	36.1	35.8	54.5	92.2	129.9	167.6	205.5	212.8
115°	38.2	45.6	53.1	60.5	67.9	95.6	143.5	191.4	239.2	287.1	284.5
117.5°	155.8	180.3	204.7	229.2	253.7	271.7	283.3	294.9	306.5	318.0	316.3
120°	283.8	297.8	311.8	325.7	339.7	346.1	344.8	343.6	342.3	341.1	339.2
122.5°	354.2	357.0	359.6	362.4	365.1	366.0	365.3	364.5	363.8	363.1	361.1
125°	397.9	397.6	397.3	397.0	396.6	396.1	395.4	394.7	394.0	393.2	391.3
127.5°	425.4	425.3	425.3	425.3	425.2	424.6	423.6	422.5	421.4	420.4	418.9
130°	442.6	442.6	442.7	442.8	443.0	442.5	441.3	440.1	439.1	437.9	436.8
132.5°	459.3	459.4	459.5	459.6	459.7	459.3	458.3	457.4	456.4	455.4	454.2
135°	483.5	483.8	483.9	484.1	484.4	483.9	482.9	481.9	480.8	479.7	478.8
137.5°	505.6	506.0	506.2	506.6	506.9	506.7	505.6	504.6	503.6	502.6	501.5
140°	519.3	519.9	520.4	520.8	521.4	521.2	520.2	519.3	518.4	517.5	516.3
142.5°	532.7	533.2	533.8	534.3	534.8	534.7	533.8	533.0	532.1	531.3	529.9
145°	551.4	552.0	552.5	553.0	553.5	553.4	552.7	552.0	551.3	550.5	548.8
147.5°	567.9	568.4	568.8	569.3	569.6	569.6	569.1	568.6	568.0	567.5	565.7
150°	578.0	578.5	579.0	579.5	580.1	580.0	579.3	578.7	578.1	577.5	575.9
152.5°	586.6	587.2	587.9	588.6	589.2	589.3	588.7	588.1	587.5	586.8	585.2
155°	598.4	599.3	600.1	600.9	601.7	601.9	601.3	600.7	600.0	599.4	598.2
157.5°	609.3	610.1	610.9	611.7	612.6	612.6	611.9	611.2	610.5	609.8	608.9
160°	615.6	616.4	617.2	617.9	618.6	618.6	618.0	617.3	616.8	616.2	615.5
162.5°	620.9	621.8	622.7	623.6	624.5	624.6	623.8	623.1	622.4	621.7	621.2
165°	628.7	629.5	630.2	630.9	631.6	631.6	630.9	630.2	629.5	628.7	628.4
167.5°	633.6	634.5	635.5	636.4	637.4	637.5	636.8	636.0	635.3	634.5	634.3
170°	636.6	637.6	638.5	639.4	640.3	640.4	639.7	639.0	638.3	637.6	637.3
172.5°	638.8	639.8	640.7	641.7	642.6	642.7	641.9	641.2	640.5	639.8	639.5
175°	640.8	641.9	642.8	643.9	645.0	645.1	644.4	643.6	642.9	642.2	641.9
177.5°	642.0	642.7	643.5	644.3	645.0	645.1	644.5	643.9	643.4	642.7	642.7
180°	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1



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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°	17.9	17.7	17.6	18.5	16.6	16.4	14.0	12.1	11.8	11.5	10.6
90°	7.7	6.9	6.0	5.0	3.8	2.8	1.6	0.4	1.6	2.8	3.8
92.5°	10.0	9.5	9.2	9.0	9.1	9.2	9.3	9.4	9.3	9.2	9.1
95°	16.7	16.0	15.2	16.6	20.0	23.5	26.8	30.2	26.8	23.5	20.0
97.5°	21.0	19.3	17.6	21.6	31.2	40.8	50.4	60.0	50.4	40.8	31.2
100°	23.0	21.2	19.5	25.7	39.9	54.0	68.2	82.4	68.2	54.0	39.9
102.5°	56.7	71.4	86.1	95.0	97.9	100.9	104.0	106.9	104.0	100.9	97.9
105°	84.9	113.1	141.3	153.9	150.8	147.7	144.5	141.4	144.5	147.7	150.8
107.5°	107.5	141.3	175.1	190.8	188.3	185.8	183.3	180.8	183.3	185.8	188.3
110°	141.2	171.1	201.0	214.8	212.7	210.5	208.3	206.2	208.3	210.5	212.7





TEST NUMBER: P331429-940

CATALOG NUMBER: S122DIP-S1005D530U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	220.2	227.6	235.0	237.6	235.8	233.8	231.9	230.0	231.9	233.8	235.8
115°	282.0	279.4	276.8	274.6	272.9	271.1	269.3	267.6	269.3	271.1	272.9
117.5°	314.5	312.7	310.9	309.1	307.1	305.1	303.2	301.2	303.2	305.1	307.1
120°	337.4	335.6	333.7	332.0	330.4	328.9	327.3	325.7	327.3	328.9	330.4
122.5°	359.0	357.0	355.0	353.1	351.5	349.9	348.2	346.6	348.2	349.9	351.5
125°	389.3	387.4	385.4	383.7	382.4	381.0	379.7	378.4	379.7	381.0	382.4
127.5°	417.5	416.0	414.6	413.0	411.5	410.1	408.6	407.1	408.6	410.1	411.5
130°	435.6	434.5	433.4	431.9	430.3	428.6	427.0	425.3	427.0	428.6	430.3
132.5°	453.2	452.0	450.8	449.6	448.2	446.7	445.3	444.0	445.3	446.7	448.2
135°	478.0	477.0	476.1	474.7	473.1	471.4	469.8	468.1	469.8	471.4	473.1
137.5°	500.5	499.4	498.4	497.2	496.1	494.9	493.7	492.7	493.7	494.9	496.1
140°	515.2	514.1	512.9	511.9	511.1	510.3	509.4	508.6	509.4	510.3	511.1
142.5°	528.6	527.4	526.0	525.0	524.2	523.5	522.8	522.0	522.8	523.5	524.2
145°	547.0	545.3	543.5	542.7	542.8	542.9	543.0	543.1	543.0	542.9	542.8
147.5°	564.0	562.2	560.5	559.8	560.3	560.6	561.0	561.4	561.0	560.6	560.3
150°	574.2	572.6	570.9	570.4	571.1	571.9	572.6	573.3	572.6	571.9	571.1
152.5°	583.7	582.1	580.5	580.1	580.9	581.8	582.6	583.4	582.6	581.8	580.9
155°	596.9	595.7	594.4	594.2	595.2	596.1	597.1	598.0	597.1	596.1	595.2
157.5°	608.1	607.2	606.4	606.3	607.1	607.9	608.7	609.4	608.7	607.9	607.1
160°	614.9	614.3	613.7	613.7	614.3	614.9	615.5	616.2	615.5	614.9	614.3
162.5°	620.6	620.1	619.6	619.6	620.2	620.8	621.4	622.1	621.4	620.8	620.2
165°	628.0	627.8	627.5	627.6	628.2	628.8	629.5	630.1	629.5	628.8	628.2
167.5°	634.0	633.6	633.4	633.6	634.2	634.8	635.4	636.1	635.4	634.8	634.2
170°	637.1	636.9	636.7	636.9	637.6	638.2	638.8	639.4	638.8	638.2	637.6
172.5°	639.4	639.2	638.9	639.2	639.8	640.4	641.1	641.7	641.1	640.4	639.8
175°	641.8	641.6	641.4	641.6	642.4	643.1	643.8	644.5	643.8	643.1	642.4
177.5°	642.6	642.5	642.4	642.7	643.3	643.8	644.4	645.0	644.4	643.8	643.3
180°	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1



TEST NUMBER: P331429-940

CATALOG NUMBER: S122DIP-S1005D530U940-4F0-1E-UDD-A

**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°	10.3	10.0	9.5	9.7	9.4	9.0	8.6	8.6	8.7	7.8	7.8
90°	5.0	6.0	6.9	7.7	8.5	9.3	9.8	10.3	10.9	11.4	11.8
92.5°	9.0	9.2	9.5	10.0	10.3	10.8	11.1	11.3	11.6	11.9	12.0
95°	16.6	15.2	16.0	16.7	17.4	18.2	18.6	19.2	19.7	20.2	20.4
97.5°	21.6	17.6	19.3	21.0	22.6	24.3	24.7	25.1	25.5	25.9	26.2
100°	25.7	19.5	21.2	23.0	24.8	26.5	27.4	28.2	29.0	29.9	30.3
102.5°	95.0	86.1	71.4	56.7	42.0	27.3	28.4	29.4	30.5	31.6	32.3
105°	153.9	141.3	113.1	84.9	56.6	28.4	29.5	30.7	31.8	32.9	33.7
107.5°	190.8	175.1	141.3	107.5	73.6	39.8	38.6	37.5	36.3	35.1	34.8
110°	214.8	201.0	171.1	141.2	111.3	81.4	71.1	60.7	50.4	40.0	35.1



TEST NUMBER: P331429-940

CATALOG NUMBER: S122DIP-S1005D530U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	237.6	235.0	227.6	220.2	212.8	205.5	167.6	129.9	92.2	54.5	35.8
115°	274.6	276.8	279.4	282.0	284.5	287.1	239.2	191.4	143.5	95.6	67.9
117.5°	309.1	310.9	312.7	314.5	316.3	318.0	306.5	294.9	283.3	271.7	253.7
120°	332.0	333.7	335.6	337.4	339.2	341.1	342.3	343.6	344.8	346.1	339.7
122.5°	353.1	355.0	357.0	359.0	361.1	363.1	363.8	364.5	365.3	366.0	365.1
125°	383.7	385.4	387.4	389.3	391.3	393.2	394.0	394.7	395.4	396.1	396.6
127.5°	413.0	414.6	416.0	417.5	418.9	420.4	421.4	422.5	423.6	424.6	425.2
130°	431.9	433.4	434.5	435.6	436.8	437.9	439.1	440.1	441.3	442.5	443.0
132.5°	449.6	450.8	452.0	453.2	454.2	455.4	456.4	457.4	458.3	459.3	459.7
135°	474.7	476.1	477.0	478.0	478.8	479.7	480.8	481.9	482.9	483.9	484.4
137.5°	497.2	498.4	499.4	500.5	501.5	502.6	503.6	504.6	505.6	506.7	506.9
140°	511.9	512.9	514.1	515.2	516.3	517.5	518.4	519.3	520.2	521.2	521.4
142.5°	525.0	526.0	527.4	528.6	529.9	531.3	532.1	533.0	533.8	534.7	534.8
145°	542.7	543.5	545.3	547.0	548.8	550.5	551.3	552.0	552.7	553.4	553.5
147.5°	559.8	560.5	562.2	564.0	565.7	567.5	568.0	568.6	569.1	569.6	569.6
150°	570.4	570.9	572.6	574.2	575.9	577.5	578.1	578.7	579.3	580.0	580.1
152.5°	580.1	580.5	582.1	583.7	585.2	586.8	587.5	588.1	588.7	589.3	589.2
155°	594.2	594.4	595.7	596.9	598.2	599.4	600.0	600.7	601.3	601.9	601.7
157.5°	606.3	606.4	607.2	608.1	608.9	609.8	610.5	611.2	611.9	612.6	612.6
160°	613.7	613.7	614.3	614.9	615.5	616.2	616.8	617.3	618.0	618.6	618.6
162.5°	619.6	619.6	620.1	620.6	621.2	621.7	622.4	623.1	623.8	624.6	624.5
165°	627.6	627.5	627.8	628.0	628.4	628.7	629.5	630.2	630.9	631.6	631.6
167.5°	633.6	633.4	633.6	634.0	634.3	634.5	635.3	636.0	636.8	637.5	637.4
170°	636.9	636.7	636.9	637.1	637.3	637.6	638.3	639.0	639.7	640.4	640.3
172.5°	639.2	638.9	639.2	639.4	639.5	639.8	640.5	641.2	641.9	642.7	642.6
175°	641.6	641.4	641.6	641.8	641.9	642.2	642.9	643.6	644.4	645.1	645.0
177.5°	642.7	642.4	642.5	642.6	642.7	642.7	643.4	643.9	644.5	645.1	645.0
180°	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1



TEST NUMBER: P331429-940

CATALOG NUMBER: S122DIP-S1005D530U940-4F0-1E-UDD-A

**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°	7.8	7.3	7.4	6.9	7.4	7.3	7.8	7.8	7.8	8.7	8.6
90°	11.9	12.1	12.4	12.6	12.4	12.1	11.9	11.8	11.4	10.9	10.3
92.5°	12.2	12.3	12.5	12.6	12.5	12.3	12.2	12.0	11.9	11.6	11.3
95°	20.3	20.2	20.2	20.0	20.2	20.2	20.3	20.4	20.2	19.7	19.2
97.5°	26.3	26.5	26.6	26.8	26.6	26.5	26.3	26.2	25.9	25.5	25.1
100°	30.6	30.8	30.9	31.2	30.9	30.8	30.6	30.3	29.9	29.0	28.2
102.5°	32.5	32.8	33.1	33.4	33.1	32.8	32.5	32.3	31.6	30.5	29.4
105°	34.2	34.5	35.0	35.4	35.0	34.5	34.2	33.7	32.9	31.8	30.7
107.5°	35.1	35.6	35.9	36.4	35.9	35.6	35.1	34.8	35.1	36.3	37.5
110°	35.5	35.9	36.4	36.7	36.4	35.9	35.5	35.1	40.0	50.4	60.7



TEST NUMBER: P331429-940

CATALOG NUMBER: S122DIP-S1005D530U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	36.1	36.5	36.8	37.1	36.8	36.5	36.1	35.8	54.5	92.2	129.9
115°	60.5	53.1	45.6	38.2	45.6	53.1	60.5	67.9	95.6	143.5	191.4
117.5°	229.2	204.7	180.3	155.8	180.3	204.7	229.2	253.7	271.7	283.3	294.9
120°	325.7	311.8	297.8	283.8	297.8	311.8	325.7	339.7	346.1	344.8	343.6
122.5°	362.4	359.6	357.0	354.2	357.0	359.6	362.4	365.1	366.0	365.3	364.5
125°	397.0	397.3	397.6	397.9	397.6	397.3	397.0	396.6	396.1	395.4	394.7
127.5°	425.3	425.3	425.3	425.4	425.3	425.3	425.3	425.2	424.6	423.6	422.5
130°	442.8	442.7	442.6	442.6	442.6	442.7	442.8	443.0	442.5	441.3	440.1
132.5°	459.6	459.5	459.4	459.3	459.4	459.5	459.6	459.7	459.3	458.3	457.4
135°	484.1	483.9	483.8	483.5	483.8	483.9	484.1	484.4	483.9	482.9	481.9
137.5°	506.6	506.2	506.0	505.6	506.0	506.2	506.6	506.9	506.7	505.6	504.6
140°	520.8	520.4	519.9	519.3	519.9	520.4	520.8	521.4	521.2	520.2	519.3
142.5°	534.3	533.8	533.2	532.7	533.2	533.8	534.3	534.8	534.7	533.8	533.0
145°	553.0	552.5	552.0	551.4	552.0	552.5	553.0	553.5	553.4	552.7	552.0
147.5°	569.3	568.8	568.4	567.9	568.4	568.8	569.3	569.6	569.6	569.1	568.6
150°	579.5	579.0	578.5	578.0	578.5	579.0	579.5	580.1	580.0	579.3	578.7
152.5°	588.6	587.9	587.2	586.6	587.2	587.9	588.6	589.2	589.3	588.7	588.1
155°	600.9	600.1	599.3	598.4	599.3	600.1	600.9	601.7	601.9	601.3	600.7
157.5°	611.7	610.9	610.1	609.3	610.1	610.9	611.7	612.6	612.6	611.9	611.2
160°	617.9	617.2	616.4	615.6	616.4	617.2	617.9	618.6	618.6	618.0	617.3
162.5°	623.6	622.7	621.8	620.9	621.8	622.7	623.6	624.5	624.6	623.8	623.1
165°	630.9	630.2	629.5	628.7	629.5	630.2	630.9	631.6	631.6	630.9	630.2
167.5°	636.4	635.5	634.5	633.6	634.5	635.5	636.4	637.4	637.5	636.8	636.0
170°	639.4	638.5	637.6	636.6	637.6	638.5	639.4	640.3	640.4	639.7	639.0
172.5°	641.7	640.7	639.8	638.8	639.8	640.7	641.7	642.6	642.7	641.9	641.2
175°	643.9	642.8	641.9	640.8	641.9	642.8	643.9	645.0	645.1	644.4	643.6
177.5°	644.3	643.5	642.7	642.0	642.7	643.5	644.3	645.0	645.1	644.5	643.9
180°	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1



TEST NUMBER: P331429-940

CATALOG NUMBER: S122DIP-S1005D530U940-4F0-1E-UDD-A

**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	9.0	9.4	9.7	9.5	10.0	10.3	10.6	11.5	11.8	12.1
90°	9.8	9.3	8.5	7.7	6.9	6.0	5.0	3.8	2.8	1.6	0.4
92.5°	11.1	10.8	10.3	10.0	9.5	9.2	9.0	9.1	9.2	9.3	9.4
95°	18.6	18.2	17.4	16.7	16.0	15.2	16.6	20.0	23.5	26.8	30.2
97.5°	24.7	24.3	22.6	21.0	19.3	17.6	21.6	31.2	40.8	50.4	60.0
100°	27.4	26.5	24.8	23.0	21.2	19.5	25.7	39.9	54.0	68.2	82.4
102.5°	28.4	27.3	42.0	56.7	71.4	86.1	95.0	97.9	100.9	104.0	106.9
105°	29.5	28.4	56.6	84.9	113.1	141.3	153.9	150.8	147.7	144.5	141.4
107.5°	38.6	39.8	73.6	107.5	141.3	175.1	190.8	188.3	185.8	183.3	180.8
110°	71.1	81.4	111.3	141.2	171.1	201.0	214.8	212.7	210.5	208.3	206.2



TEST NUMBER: P331429-940

CATALOG NUMBER: S122DIP-S1005D530U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	167.6	205.5	212.8	220.2	227.6	235.0	237.6	235.8	233.8	231.9	230.0
115°	239.2	287.1	284.5	282.0	279.4	276.8	274.6	272.9	271.1	269.3	267.6
117.5°	306.5	318.0	316.3	314.5	312.7	310.9	309.1	307.1	305.1	303.2	301.2
120°	342.3	341.1	339.2	337.4	335.6	333.7	332.0	330.4	328.9	327.3	325.7
122.5°	363.8	363.1	361.1	359.0	357.0	355.0	353.1	351.5	349.9	348.2	346.6
125°	394.0	393.2	391.3	389.3	387.4	385.4	383.7	382.4	381.0	379.7	378.4
127.5°	421.4	420.4	418.9	417.5	416.0	414.6	413.0	411.5	410.1	408.6	407.1
130°	439.1	437.9	436.8	435.6	434.5	433.4	431.9	430.3	428.6	427.0	425.3
132.5°	456.4	455.4	454.2	453.2	452.0	450.8	449.6	448.2	446.7	445.3	444.0
135°	480.8	479.7	478.8	478.0	477.0	476.1	474.7	473.1	471.4	469.8	468.1
137.5°	503.6	502.6	501.5	500.5	499.4	498.4	497.2	496.1	494.9	493.7	492.7
140°	518.4	517.5	516.3	515.2	514.1	512.9	511.9	511.1	510.3	509.4	508.6
142.5°	532.1	531.3	529.9	528.6	527.4	526.0	525.0	524.2	523.5	522.8	522.0
145°	551.3	550.5	548.8	547.0	545.3	543.5	542.7	542.8	542.9	543.0	543.1
147.5°	568.0	567.5	565.7	564.0	562.2	560.5	559.8	560.3	560.6	561.0	561.4
150°	578.1	577.5	575.9	574.2	572.6	570.9	570.4	571.1	571.9	572.6	573.3
152.5°	587.5	586.8	585.2	583.7	582.1	580.5	580.1	580.9	581.8	582.6	583.4
155°	600.0	599.4	598.2	596.9	595.7	594.4	594.2	595.2	596.1	597.1	598.0
157.5°	610.5	609.8	608.9	608.1	607.2	606.4	606.3	607.1	607.9	608.7	609.4
160°	616.8	616.2	615.5	614.9	614.3	613.7	613.7	614.3	614.9	615.5	616.2
162.5°	622.4	621.7	621.2	620.6	620.1	619.6	619.6	620.2	620.8	621.4	622.1
165°	629.5	628.7	628.4	628.0	627.8	627.5	627.6	628.2	628.8	629.5	630.1
167.5°	635.3	634.5	634.3	634.0	633.6	633.4	633.6	634.2	634.8	635.4	636.1
170°	638.3	637.6	637.3	637.1	636.9	636.7	636.9	637.6	638.2	638.8	639.4
172.5°	640.5	639.8	639.5	639.4	639.2	638.9	639.2	639.8	640.4	641.1	641.7
175°	642.9	642.2	641.9	641.8	641.6	641.4	641.6	642.4	643.1	643.8	644.5
177.5°	643.4	642.7	642.7	642.6	642.5	642.4	642.7	643.3	643.8	644.4	645.0
180°	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1



TEST NUMBER: P331429-940

CATALOG NUMBER: S122DIP-S1005D530U940-4F0-1E-UDD-A

**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°	14.0	16.4	16.6	18.5	17.6	17.7	17.9	17.6	17.2	16.8	16.3
90°	1.6	2.8	3.8	5.0	6.0	6.9	7.7	8.5	9.3	9.8	10.3
92.5°	9.3	9.2	9.1	9.0	9.2	9.5	10.0	10.3	10.8	11.1	11.3
95°	26.8	23.5	20.0	16.6	15.2	16.0	16.7	17.4	18.2	18.6	19.2
97.5°	50.4	40.8	31.2	21.6	17.6	19.3	21.0	22.6	24.3	24.7	25.1
100°	68.2	54.0	39.9	25.7	19.5	21.2	23.0	24.8	26.5	27.4	28.2
102.5°	104.0	100.9	97.9	95.0	86.1	71.4	56.7	42.0	27.3	28.4	29.4
105°	144.5	147.7	150.8	153.9	141.3	113.1	84.9	56.6	28.4	29.5	30.7
107.5°	183.3	185.8	188.3	190.8	175.1	141.3	107.5	73.6	39.8	38.6	37.5
110°	208.3	210.5	212.7	214.8	201.0	171.1	141.2	111.3	81.4	71.1	60.7





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	231.9	233.8	235.8	237.6	235.0	227.6	220.2	212.8	205.5	167.6	129.9
115°	269.3	271.1	272.9	274.6	276.8	279.4	282.0	284.5	287.1	239.2	191.4
117.5°	303.2	305.1	307.1	309.1	310.9	312.7	314.5	316.3	318.0	306.5	294.9
120°	327.3	328.9	330.4	332.0	333.7	335.6	337.4	339.2	341.1	342.3	343.6
122.5°	348.2	349.9	351.5	353.1	355.0	357.0	359.0	361.1	363.1	363.8	364.5
125°	379.7	381.0	382.4	383.7	385.4	387.4	389.3	391.3	393.2	394.0	394.7
127.5°	408.6	410.1	411.5	413.0	414.6	416.0	417.5	418.9	420.4	421.4	422.5
130°	427.0	428.6	430.3	431.9	433.4	434.5	435.6	436.8	437.9	439.1	440.1
132.5°	445.3	446.7	448.2	449.6	450.8	452.0	453.2	454.2	455.4	456.4	457.4
135°	469.8	471.4	473.1	474.7	476.1	477.0	478.0	478.8	479.7	480.8	481.9
137.5°	493.7	494.9	496.1	497.2	498.4	499.4	500.5	501.5	502.6	503.6	504.6
140°	509.4	510.3	511.1	511.9	512.9	514.1	515.2	516.3	517.5	518.4	519.3
142.5°	522.8	523.5	524.2	525.0	526.0	527.4	528.6	529.9	531.3	532.1	533.0
145°	543.0	542.9	542.8	542.7	543.5	545.3	547.0	548.8	550.5	551.3	552.0
147.5°	561.0	560.6	560.3	559.8	560.5	562.2	564.0	565.7	567.5	568.0	568.6
150°	572.6	571.9	571.1	570.4	570.9	572.6	574.2	575.9	577.5	578.1	578.7
152.5°	582.6	581.8	580.9	580.1	580.5	582.1	583.7	585.2	586.8	587.5	588.1
155°	597.1	596.1	595.2	594.2	594.4	595.7	596.9	598.2	599.4	600.0	600.7
157.5°	608.7	607.9	607.1	606.3	606.4	607.2	608.1	608.9	609.8	610.5	611.2
160°	615.5	614.9	614.3	613.7	613.7	614.3	614.9	615.5	616.2	616.8	617.3
162.5°	621.4	620.8	620.2	619.6	619.6	620.1	620.6	621.2	621.7	622.4	623.1
165°	629.5	628.8	628.2	627.6	627.5	627.8	628.0	628.4	628.7	629.5	630.2
167.5°	635.4	634.8	634.2	633.6	633.4	633.6	634.0	634.3	634.5	635.3	636.0
170°	638.8	638.2	637.6	636.9	636.7	636.9	637.1	637.3	637.6	638.3	639.0
172.5°	641.1	640.4	639.8	639.2	638.9	639.2	639.4	639.5	639.8	640.5	641.2
175°	643.8	643.1	642.4	641.6	641.4	641.6	641.8	641.9	642.2	642.9	643.6
177.5°	644.4	643.8	643.3	642.7	642.4	642.5	642.6	642.7	642.7	643.4	643.9
180°	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1



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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°	16.9	17.0	16.6	16.6	17.2	16.7	16.8
90°	10.9	11.4	11.8	11.9	12.1	12.4	12.6
92.5°	11.6	11.9	12.0	12.2	12.3	12.5	12.6
95°	19.7	20.2	20.4	20.3	20.2	20.2	20.0
97.5°	25.5	25.9	26.2	26.3	26.5	26.6	26.8
100°	29.0	29.9	30.3	30.6	30.8	30.9	31.2
102.5°	30.5	31.6	32.3	32.5	32.8	33.1	33.4
105°	31.8	32.9	33.7	34.2	34.5	35.0	35.4
107.5°	36.3	35.1	34.8	35.1	35.6	35.9	36.4
110°	50.4	40.0	35.1	35.5	35.9	36.4	36.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	92.2	54.5	35.8	36.1	36.5	36.8	37.1
115°	143.5	95.6	67.9	60.5	53.1	45.6	38.2
117.5°	283.3	271.7	253.7	229.2	204.7	180.3	155.8
120°	344.8	346.1	339.7	325.7	311.8	297.8	283.8
122.5°	365.3	366.0	365.1	362.4	359.6	357.0	354.2
125°	395.4	396.1	396.6	397.0	397.3	397.6	397.9
127.5°	423.6	424.6	425.2	425.3	425.3	425.3	425.4
130°	441.3	442.5	443.0	442.8	442.7	442.6	442.6
132.5°	458.3	459.3	459.7	459.6	459.5	459.4	459.3
135°	482.9	483.9	484.4	484.1	483.9	483.8	483.5
137.5°	505.6	506.7	506.9	506.6	506.2	506.0	505.6
140°	520.2	521.2	521.4	520.8	520.4	519.9	519.3
142.5°	533.8	534.7	534.8	534.3	533.8	533.2	532.7
145°	552.7	553.4	553.5	553.0	552.5	552.0	551.4
147.5°	569.1	569.6	569.6	569.3	568.8	568.4	567.9
150°	579.3	580.0	580.1	579.5	579.0	578.5	578.0
152.5°	588.7	589.3	589.2	588.6	587.9	587.2	586.6
155°	601.3	601.9	601.7	600.9	600.1	599.3	598.4
157.5°	611.9	612.6	612.6	611.7	610.9	610.1	609.3
160°	618.0	618.6	618.6	617.9	617.2	616.4	615.6
162.5°	623.8	624.6	624.5	623.6	622.7	621.8	620.9
165°	630.9	631.6	631.6	630.9	630.2	629.5	628.7
167.5°	636.8	637.5	637.4	636.4	635.5	634.5	633.6
170°	639.7	640.4	640.3	639.4	638.5	637.6	636.6
172.5°	641.9	642.7	642.6	641.7	640.7	639.8	638.8
175°	644.4	645.1	645.0	643.9	642.8	641.9	640.8
177.5°	644.5	645.1	645.0	644.3	643.5	642.7	642.0
180°	643.1	643.1	643.1	643.1	643.1	643.1	643.1

(END OF REPORT)