

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P331440-940

Luminaire Tested: **SA2XXDIP-C1005D725U940-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331440-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C1005D725U940-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 725 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

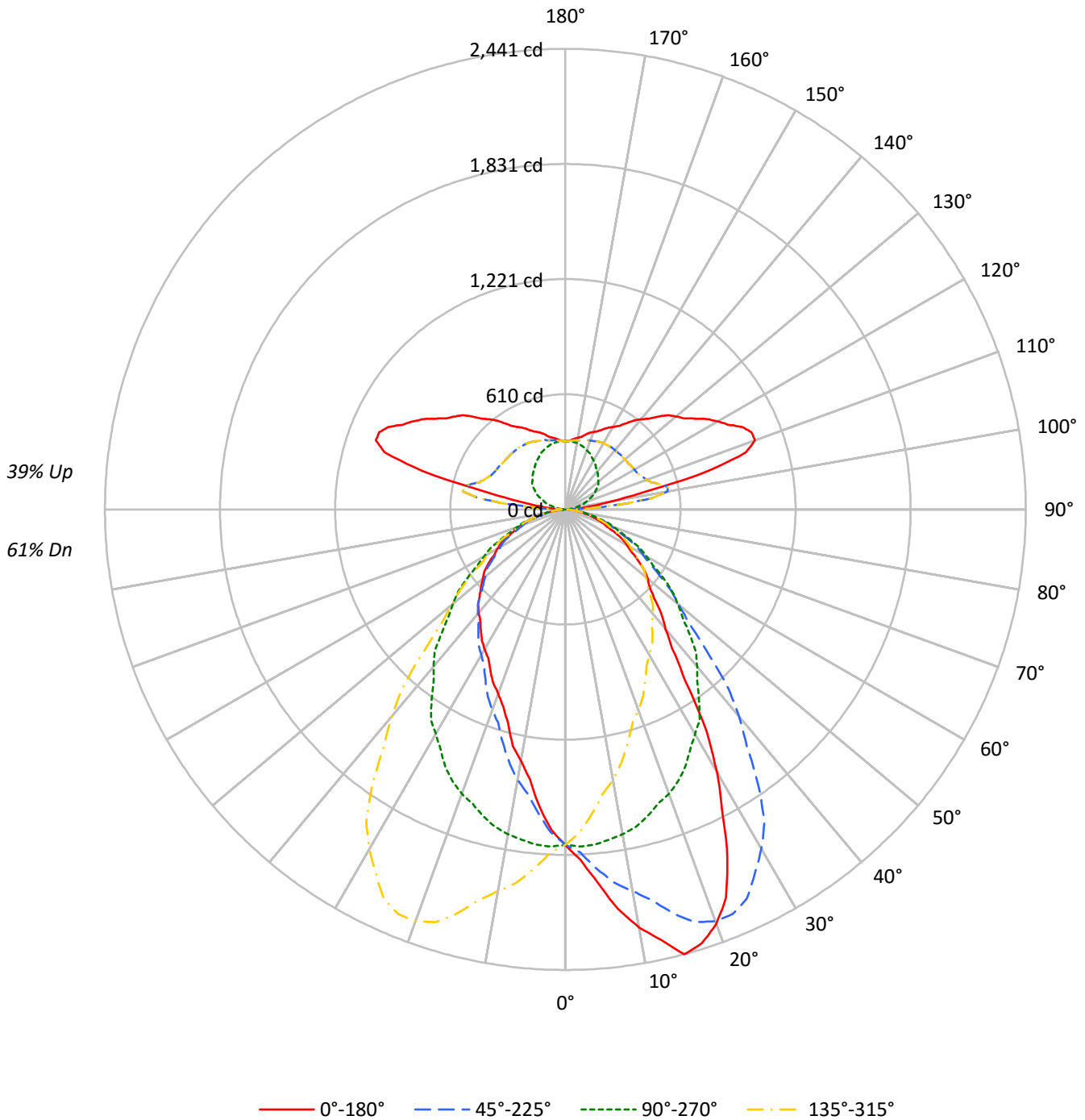
Lumens per Lamp: N/A
Luminaire Lumens: 6448.4 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 60.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	101	97	93	90	94	91	87	84	79	77	75	69	67	66	59	58	57	52
2	92	85	79	74	86	80	75	70	70	66	63	61	58	56	53	51	49	45
3	85	75	68	62	79	71	65	59	62	58	54	55	51	48	47	45	42	39
4	78	67	59	53	73	63	56	51	56	50	46	49	45	42	43	40	37	34
5	72	60	52	46	67	57	50	44	50	45	40	44	40	36	39	35	33	30
6	66	54	46	41	62	51	44	39	46	40	36	40	36	32	36	32	29	26
7	61	49	41	36	57	47	40	34	42	36	32	37	32	29	33	29	26	24
8	57	45	37	32	54	43	36	31	38	32	28	34	29	26	30	26	24	21
9	53	41	34	29	50	39	32	28	35	30	26	31	27	23	28	24	21	19
10	50	38	31	26	47	36	30	25	33	27	23	29	25	21	26	22	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	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	2.6
10°-20°	492.3	7.6
20°-30°	714.5	11.1
30°-40°	754.0	11.7
40°-50°	667.6	10.4
50°-60°	532.7	8.3
60°-70°	362.1	5.6
70°-80°	185.6	2.9
80°-90°	48.0	0.7
90°-100°	144.9	2.2
100°-110°	491.8	7.6
110°-120°	522.5	8.1
120°-130°	430.1	6.7
130°-140°	345.4	5.4
140°-150°	261.0	4.0
150°-160°	183.4	2.8
160°-170°	108.0	1.7
170°-180°	35.1	0.5
0°-30°	1376.1	21.3
0°-40°	2130.1	33.0
0°-60°	3330.4	51.6
0°-90°	3926.1	60.9
90°-120°	1159.2	18.0
90°-150°	2195.7	34.1
90°-180°	2522.0	39.1
0°-180°	6448.4	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°	23	1	23	1	23	14
95°	80	24	80	24	80	103
105°	786	85	786	85	786	760
115°	1034	150	1034	150	1034	1012
125°	839	209	839	209	839	758
135°	695	245	695	245	695	540
145°	555	280	555	280	555	352
155°	466	318	466	318	466	218
165°	409	347	409	347	409	117
175°	369	362	369	362	369	36
180°	362	362	362	362	362	



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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°	18.8	18.8	19.4	18.8	18.8	19.3	18.9	18.6	19.4	20.1	20.4
90°	23.0	23.0	23.0	23.0	23.0	22.3	21.0	22.3	23.0	23.7	23.0
92.5°	38.6	39.8	39.1	41.4	42.0	46.3	52.2	60.8	76.5	90.6	89.3
95°	79.5	78.7	80.9	86.4	95.5	110.8	140.1	182.6	239.1	273.2	241.9
97.5°	156.4	162.3	172.5	189.6	222.9	273.2	348.7	426.1	489.4	466.5	351.3
100°	249.5	262.1	282.3	312.3	370.1	454.5	550.0	636.4	651.0	550.6	379.2
102.5°	439.2	456.1	481.3	532.5	595.4	684.7	754.7	774.2	711.2	553.5	368.6
105°	785.6	795.3	825.3	868.5	911.8	934.8	925.7	846.9	702.0	516.5	347.9
107.5°	1003.4	1016.5	1022.4	1024.8	1019.4	985.6	913.1	794.5	640.7	476.9	337.5
110°	1069.3	1070.0	1063.7	1050.4	1020.5	963.3	874.1	749.3	602.3	458.0	335.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1068.2	1064.4	1052.6	1030.4	988.7	923.2	827.8	708.1	575.5	445.7	335.8
115°	1033.8	1027.4	1009.3	977.2	927.7	856.0	764.6	657.3	542.3	432.2	338.8
117.5°	972.2	967.0	947.9	914.0	863.5	796.2	713.4	619.1	521.4	425.6	343.8
120°	932.6	925.7	905.4	872.7	823.9	760.5	686.6	600.1	510.2	421.7	347.1
122.5°	891.4	885.6	867.5	835.4	791.6	734.2	664.3	585.1	500.8	419.5	351.1
125°	838.6	832.9	815.6	789.1	748.6	696.3	635.0	563.2	487.2	415.4	356.9
127.5°	792.3	787.8	772.8	748.0	712.7	664.4	606.5	541.6	474.7	413.0	362.9
130°	766.1	760.5	746.5	722.8	688.7	642.7	587.6	527.6	466.4	412.0	367.4
132.5°	738.7	733.7	720.9	697.2	663.6	620.4	569.8	514.2	459.7	411.4	371.8
135°	695.0	692.1	679.7	656.7	626.6	587.6	541.6	495.6	450.3	410.5	377.1
137.5°	652.0	647.8	636.9	617.1	589.7	555.7	519.2	480.7	443.7	410.5	381.8
140°	622.5	618.3	607.8	589.7	567.4	536.7	504.7	471.2	439.9	409.8	384.1
142.5°	592.9	592.1	582.7	566.3	545.1	519.4	491.9	463.4	436.0	409.8	385.8
145°	554.8	552.8	545.8	534.0	517.2	497.0	475.4	452.4	430.8	408.5	387.5
147.5°	522.9	521.7	516.9	507.5	493.7	478.8	462.0	443.9	425.5	406.0	388.2
150°	504.0	503.3	499.1	490.7	480.3	467.7	453.1	437.7	421.0	404.3	387.5
152.5°	487.8	487.7	484.6	477.3	469.1	458.3	445.9	431.6	417.1	401.5	386.5
155°	466.4	467.7	464.9	460.0	452.4	444.7	434.3	423.1	409.8	396.6	384.8
157.5°	448.1	448.1	446.8	442.7	437.3	431.3	422.6	413.2	403.1	391.6	381.6
160°	436.3	436.3	435.7	432.2	427.3	422.4	414.7	407.1	398.1	388.3	379.9
162.5°	425.2	425.8	425.1	422.7	417.9	414.0	407.5	400.9	393.5	385.5	378.3
165°	409.2	409.8	409.8	407.1	404.3	401.5	396.6	391.7	386.2	379.9	375.1
167.5°	394.4	395.2	395.4	393.9	392.6	390.0	386.7	383.0	378.9	375.1	371.8
170°	385.5	386.8	387.5	385.5	384.8	383.3	380.6	378.5	375.1	372.2	370.1
172.5°	378.3	379.1	379.8	378.8	378.1	377.3	375.1	373.4	371.1	368.9	367.9
175°	368.7	370.1	370.9	370.1	370.1	369.4	368.7	368.0	366.0	365.2	364.5
177.5°	363.0	364.2	364.7	364.7	364.7	364.7	364.2	364.2	363.0	362.5	363.0
180°	362.5	362.5	362.5	362.5	362.5	362.5	362.5	362.5	362.5	362.5	362.5



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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°	20.2	19.2	18.5	19.2	17.2	16.9	14.3	12.1	12.0	12.0	11.2
90°	18.8	13.9	10.4	8.4	7.0	5.6	2.8	0.7	2.8	5.6	7.0
92.5°	69.6	47.4	31.7	25.1	20.3	17.3	12.3	8.5	12.3	17.3	20.3
95°	161.0	100.4	68.3	51.5	40.4	34.2	27.2	24.4	27.2	34.2	40.4
97.5°	217.0	132.4	92.1	73.2	60.4	50.9	43.5	39.8	43.5	50.9	60.4
100°	228.6	143.6	106.6	87.1	73.2	62.1	55.7	53.7	55.7	62.1	73.2
102.5°	229.2	153.6	119.5	100.0	85.4	74.3	68.0	66.5	68.0	74.3	85.4
105°	232.8	170.8	138.0	118.5	103.2	92.7	87.8	85.1	87.8	92.7	103.2
107.5°	242.5	188.3	156.6	136.9	121.7	112.1	107.4	105.1	107.4	112.1	121.7
110°	250.2	200.0	169.4	149.2	134.6	125.5	121.3	118.5	121.3	125.5	134.6



TEST NUMBER: P331440-940

CATALOG NUMBER: SA2XXDIP-C1005D725U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	258.6	211.2	181.6	160.9	146.8	138.3	133.6	130.7	133.6	138.3	146.8
115°	271.2	228.6	198.7	179.9	165.9	157.6	153.4	149.9	153.4	157.6	165.9
117.5°	284.5	244.7	217.0	197.4	184.0	176.6	172.5	169.7	172.5	176.6	184.0
120°	293.5	255.8	228.6	209.1	195.2	188.9	184.8	181.9	184.8	188.9	195.2
122.5°	301.3	266.4	240.9	220.8	206.9	200.0	195.9	193.7	195.9	200.0	206.9
125°	313.7	282.3	257.2	237.7	223.7	215.3	211.2	209.1	211.2	215.3	223.7
127.5°	325.2	297.1	272.7	252.6	239.2	230.1	224.2	221.4	224.2	230.1	239.2
130°	332.5	306.0	281.6	262.1	248.2	238.4	231.4	228.6	231.4	238.4	248.2
132.5°	339.7	313.8	290.5	271.0	256.5	246.2	238.7	235.3	238.7	246.2	256.5
135°	349.2	324.9	302.6	283.0	267.0	256.5	248.2	245.4	248.2	256.5	267.0
137.5°	356.5	333.8	311.7	293.6	277.7	266.5	258.2	254.9	258.2	266.5	277.7
140°	360.3	338.8	317.9	299.7	284.4	273.2	264.8	262.1	264.8	273.2	284.4
142.5°	363.7	342.7	322.4	305.3	290.5	279.4	271.6	269.3	271.6	279.4	290.5
145°	368.0	348.6	329.7	314.3	300.4	290.0	283.0	280.2	283.0	290.0	300.4
147.5°	370.4	353.3	335.6	321.9	310.3	300.7	294.0	291.9	294.0	300.7	310.3
150°	371.5	355.5	339.5	326.9	316.5	307.4	301.8	299.7	301.8	307.4	316.5
152.5°	372.1	357.8	343.4	331.9	322.0	314.1	308.5	307.6	308.5	314.1	322.0
155°	372.9	361.1	349.2	338.8	331.1	323.4	319.2	318.5	319.2	323.4	331.1
157.5°	372.9	363.5	353.4	344.6	338.5	331.8	328.4	327.8	328.4	331.8	338.5
160°	372.9	364.5	356.1	348.6	343.0	337.3	334.6	333.9	334.6	337.3	343.0
162.5°	372.4	365.2	357.8	351.9	346.9	342.4	339.6	340.0	339.6	342.4	346.9
165°	370.9	366.0	359.7	355.5	352.0	347.9	346.4	347.1	346.4	347.9	352.0
167.5°	369.9	365.8	361.2	358.6	356.1	353.4	352.1	353.0	352.1	353.4	356.1
170°	368.7	365.2	361.8	359.7	358.3	356.1	355.5	356.9	355.5	356.1	358.3
172.5°	367.0	364.7	362.3	360.8	360.0	357.8	358.3	359.1	358.3	357.8	360.0
175°	365.2	363.8	362.5	361.8	361.8	360.3	361.1	361.8	361.1	360.3	361.8
177.5°	364.2	363.0	362.5	362.5	362.5	361.3	361.9	363.0	361.9	361.3	362.5
180°	362.5	362.5	362.5	362.5	362.5	362.5	362.5	362.5	362.5	362.5	362.5



TEST NUMBER: P331440-940

CATALOG NUMBER: SA2XXDIP-C1005D725U940-4F0-1E-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°	11.0	10.9	11.0	11.9	12.2	11.9	11.1	11.1	10.7	9.9	10.1
90°	8.4	10.4	13.9	18.8	23.0	23.7	23.0	22.3	21.0	22.3	23.0
92.5°	25.1	31.7	47.4	69.6	89.3	90.6	76.5	60.8	52.2	46.3	42.0
95°	51.5	68.3	100.4	161.0	241.9	273.2	239.1	182.6	140.1	110.8	95.5
97.5°	73.2	92.1	132.4	217.0	351.3	466.5	489.4	426.1	348.7	273.2	222.9
100°	87.1	106.6	143.6	228.6	379.2	550.6	651.0	636.4	550.0	454.5	370.1
102.5°	100.0	119.5	153.6	229.2	368.6	553.5	711.2	774.2	754.7	684.7	595.4
105°	118.5	138.0	170.8	232.8	347.9	516.5	702.0	846.9	925.7	934.8	911.8
107.5°	136.9	156.6	188.3	242.5	337.5	476.9	640.7	794.5	913.1	985.6	1019.4
110°	149.2	169.4	200.0	250.2	335.3	458.0	602.3	749.3	874.1	963.3	1020.5



TEST NUMBER: P331440-940

CATALOG NUMBER: SA2XXDIP-C1005D725U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	160.9	181.6	211.2	258.6	335.8	445.7	575.5	708.1	827.8	923.2	988.7
115°	179.9	198.7	228.6	271.2	338.8	432.2	542.3	657.3	764.6	856.0	927.7
117.5°	197.4	217.0	244.7	284.5	343.8	425.6	521.4	619.1	713.4	796.2	863.5
120°	209.1	228.6	255.8	293.5	347.1	421.7	510.2	600.1	686.6	760.5	823.9
122.5°	220.8	240.9	266.4	301.3	351.1	419.5	500.8	585.1	664.3	734.2	791.6
125°	237.7	257.2	282.3	313.7	356.9	415.4	487.2	563.2	635.0	696.3	748.6
127.5°	252.6	272.7	297.1	325.2	362.9	413.0	474.7	541.6	606.5	664.4	712.7
130°	262.1	281.6	306.0	332.5	367.4	412.0	466.4	527.6	587.6	642.7	688.7
132.5°	271.0	290.5	313.8	339.7	371.8	411.4	459.7	514.2	569.8	620.4	663.6
135°	283.0	302.6	324.9	349.2	377.1	410.5	450.3	495.6	541.6	587.6	626.6
137.5°	293.6	311.7	333.8	356.5	381.8	410.5	443.7	480.7	519.2	555.7	589.7
140°	299.7	317.9	338.8	360.3	384.1	409.8	439.9	471.2	504.7	536.7	567.4
142.5°	305.3	322.4	342.7	363.7	385.8	409.8	436.0	463.4	491.9	519.4	545.1
145°	314.3	329.7	348.6	368.0	387.5	408.5	430.8	452.4	475.4	497.0	517.2
147.5°	321.9	335.6	353.3	370.4	388.2	406.0	425.5	443.9	462.0	478.8	493.7
150°	326.9	339.5	355.5	371.5	387.5	404.3	421.0	437.7	453.1	467.7	480.3
152.5°	331.9	343.4	357.8	372.1	386.5	401.5	417.1	431.6	445.9	458.3	469.1
155°	338.8	349.2	361.1	372.9	384.8	396.6	409.8	423.1	434.3	444.7	452.4
157.5°	344.6	353.4	363.5	372.9	381.6	391.6	403.1	413.2	422.6	431.3	437.3
160°	348.6	356.1	364.5	372.9	379.9	388.3	398.1	407.1	414.7	422.4	427.3
162.5°	351.9	357.8	365.2	372.4	378.3	385.5	393.5	400.9	407.5	414.0	417.9
165°	355.5	359.7	366.0	370.9	375.1	379.9	386.2	391.7	396.6	401.5	404.3
167.5°	358.6	361.2	365.8	369.9	371.8	375.1	378.9	383.0	386.7	390.0	392.6
170°	359.7	361.8	365.2	368.7	370.1	372.2	375.1	378.5	380.6	383.3	384.8
172.5°	360.8	362.3	364.7	367.0	367.9	368.9	371.1	373.4	375.1	377.3	378.1
175°	361.8	362.5	363.8	365.2	364.5	365.2	366.0	368.0	368.7	369.4	370.1
177.5°	362.5	362.5	363.0	364.2	363.0	362.5	363.0	364.2	364.2	364.7	364.7
180°	362.5	362.5	362.5	362.5	362.5	362.5	362.5	362.5	362.5	362.5	362.5



TEST NUMBER: P331440-940

CATALOG NUMBER: SA2XXDIP-C1005D725U940-4F0-1E-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°	10.1	9.5	9.5	9.0	9.5	9.5	10.1	10.1	9.9	10.7	11.1
90°	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	22.3	21.0	22.3
92.5°	41.4	39.1	39.8	38.6	39.8	39.1	41.4	42.0	46.3	52.2	60.8
95°	86.4	80.9	78.7	79.5	78.7	80.9	86.4	95.5	110.8	140.1	182.6
97.5°	189.6	172.5	162.3	156.4	162.3	172.5	189.6	222.9	273.2	348.7	426.1
100°	312.3	282.3	262.1	249.5	262.1	282.3	312.3	370.1	454.5	550.0	636.4
102.5°	532.5	481.3	456.1	439.2	456.1	481.3	532.5	595.4	684.7	754.7	774.2
105°	868.5	825.3	795.3	785.6	795.3	825.3	868.5	911.8	934.8	925.7	846.9
107.5°	1024.8	1022.4	1016.5	1003.4	1016.5	1022.4	1024.8	1019.4	985.6	913.1	794.5
110°	1050.4	1063.7	1070.0	1069.3	1070.0	1063.7	1050.4	1020.5	963.3	874.1	749.3



TEST NUMBER: P331440-940

CATALOG NUMBER: SA2XXDIP-C1005D725U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1030.4	1052.6	1064.4	1068.2	1064.4	1052.6	1030.4	988.7	923.2	827.8	708.1
115°	977.2	1009.3	1027.4	1033.8	1027.4	1009.3	977.2	927.7	856.0	764.6	657.3
117.5°	914.0	947.9	967.0	972.2	967.0	947.9	914.0	863.5	796.2	713.4	619.1
120°	872.7	905.4	925.7	932.6	925.7	905.4	872.7	823.9	760.5	686.6	600.1
122.5°	835.4	867.5	885.6	891.4	885.6	867.5	835.4	791.6	734.2	664.3	585.1
125°	789.1	815.6	832.9	838.6	832.9	815.6	789.1	748.6	696.3	635.0	563.2
127.5°	748.0	772.8	787.8	792.3	787.8	772.8	748.0	712.7	664.4	606.5	541.6
130°	722.8	746.5	760.5	766.1	760.5	746.5	722.8	688.7	642.7	587.6	527.6
132.5°	697.2	720.9	733.7	738.7	733.7	720.9	697.2	663.6	620.4	569.8	514.2
135°	656.7	679.7	692.1	695.0	692.1	679.7	656.7	626.6	587.6	541.6	495.6
137.5°	617.1	636.9	647.8	652.0	647.8	636.9	617.1	589.7	555.7	519.2	480.7
140°	589.7	607.8	618.3	622.5	618.3	607.8	589.7	567.4	536.7	504.7	471.2
142.5°	566.3	582.7	592.1	592.9	592.1	582.7	566.3	545.1	519.4	491.9	463.4
145°	534.0	545.8	552.8	554.8	552.8	545.8	534.0	517.2	497.0	475.4	452.4
147.5°	507.5	516.9	521.7	522.9	521.7	516.9	507.5	493.7	478.8	462.0	443.9
150°	490.7	499.1	503.3	504.0	503.3	499.1	490.7	480.3	467.7	453.1	437.7
152.5°	477.3	484.6	487.7	487.8	487.7	484.6	477.3	469.1	458.3	445.9	431.6
155°	460.0	464.9	467.7	466.4	467.7	464.9	460.0	452.4	444.7	434.3	423.1
157.5°	442.7	446.8	448.1	448.1	448.1	446.8	442.7	437.3	431.3	422.6	413.2
160°	432.2	435.7	436.3	436.3	436.3	435.7	432.2	427.3	422.4	414.7	407.1
162.5°	422.7	425.1	425.8	425.2	425.8	425.1	422.7	417.9	414.0	407.5	400.9
165°	407.1	409.8	409.8	409.2	409.8	409.8	407.1	404.3	401.5	396.6	391.7
167.5°	393.9	395.4	395.2	394.4	395.2	395.4	393.9	392.6	390.0	386.7	383.0
170°	385.5	387.5	386.8	385.5	386.8	387.5	385.5	384.8	383.3	380.6	378.5
172.5°	378.8	379.8	379.1	378.3	379.1	379.8	378.8	378.1	377.3	375.1	373.4
175°	370.1	370.9	370.1	368.7	370.1	370.9	370.1	370.1	369.4	368.7	368.0
177.5°	364.7	364.7	364.2	363.0	364.2	364.7	364.7	364.7	364.7	364.2	364.2
180°	362.5	362.5	362.5	362.5	362.5	362.5	362.5	362.5	362.5	362.5	362.5



TEST NUMBER: P331440-940

CATALOG NUMBER: SA2XXDIP-C1005D725U940-4F0-1E-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°	11.1	11.9	12.2	11.9	11.0	10.9	11.0	11.2	12.0	12.0	12.1
90°	23.0	23.7	23.0	18.8	13.9	10.4	8.4	7.0	5.6	2.8	0.7
92.5°	76.5	90.6	89.3	69.6	47.4	31.7	25.1	20.3	17.3	12.3	8.5
95°	239.1	273.2	241.9	161.0	100.4	68.3	51.5	40.4	34.2	27.2	24.4
97.5°	489.4	466.5	351.3	217.0	132.4	92.1	73.2	60.4	50.9	43.5	39.8
100°	651.0	550.6	379.2	228.6	143.6	106.6	87.1	73.2	62.1	55.7	53.7
102.5°	711.2	553.5	368.6	229.2	153.6	119.5	100.0	85.4	74.3	68.0	66.5
105°	702.0	516.5	347.9	232.8	170.8	138.0	118.5	103.2	92.7	87.8	85.1
107.5°	640.7	476.9	337.5	242.5	188.3	156.6	136.9	121.7	112.1	107.4	105.1
110°	602.3	458.0	335.3	250.2	200.0	169.4	149.2	134.6	125.5	121.3	118.5



TEST NUMBER: P331440-940

CATALOG NUMBER: SA2XXDIP-C1005D725U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	575.5	445.7	335.8	258.6	211.2	181.6	160.9	146.8	138.3	133.6	130.7
115°	542.3	432.2	338.8	271.2	228.6	198.7	179.9	165.9	157.6	153.4	149.9
117.5°	521.4	425.6	343.8	284.5	244.7	217.0	197.4	184.0	176.6	172.5	169.7
120°	510.2	421.7	347.1	293.5	255.8	228.6	209.1	195.2	188.9	184.8	181.9
122.5°	500.8	419.5	351.1	301.3	266.4	240.9	220.8	206.9	200.0	195.9	193.7
125°	487.2	415.4	356.9	313.7	282.3	257.2	237.7	223.7	215.3	211.2	209.1
127.5°	474.7	413.0	362.9	325.2	297.1	272.7	252.6	239.2	230.1	224.2	221.4
130°	466.4	412.0	367.4	332.5	306.0	281.6	262.1	248.2	238.4	231.4	228.6
132.5°	459.7	411.4	371.8	339.7	313.8	290.5	271.0	256.5	246.2	238.7	235.3
135°	450.3	410.5	377.1	349.2	324.9	302.6	283.0	267.0	256.5	248.2	245.4
137.5°	443.7	410.5	381.8	356.5	333.8	311.7	293.6	277.7	266.5	258.2	254.9
140°	439.9	409.8	384.1	360.3	338.8	317.9	299.7	284.4	273.2	264.8	262.1
142.5°	436.0	409.8	385.8	363.7	342.7	322.4	305.3	290.5	279.4	271.6	269.3
145°	430.8	408.5	387.5	368.0	348.6	329.7	314.3	300.4	290.0	283.0	280.2
147.5°	425.5	406.0	388.2	370.4	353.3	335.6	321.9	310.3	300.7	294.0	291.9
150°	421.0	404.3	387.5	371.5	355.5	339.5	326.9	316.5	307.4	301.8	299.7
152.5°	417.1	401.5	386.5	372.1	357.8	343.4	331.9	322.0	314.1	308.5	307.6
155°	409.8	396.6	384.8	372.9	361.1	349.2	338.8	331.1	323.4	319.2	318.5
157.5°	403.1	391.6	381.6	372.9	363.5	353.4	344.6	338.5	331.8	328.4	327.8
160°	398.1	388.3	379.9	372.9	364.5	356.1	348.6	343.0	337.3	334.6	333.9
162.5°	393.5	385.5	378.3	372.4	365.2	357.8	351.9	346.9	342.4	339.6	340.0
165°	386.2	379.9	375.1	370.9	366.0	359.7	355.5	352.0	347.9	346.4	347.1
167.5°	378.9	375.1	371.8	369.9	365.8	361.2	358.6	356.1	353.4	352.1	353.0
170°	375.1	372.2	370.1	368.7	365.2	361.8	359.7	358.3	356.1	355.5	356.9
172.5°	371.1	368.9	367.9	367.0	364.7	362.3	360.8	360.0	357.8	358.3	359.1
175°	366.0	365.2	364.5	365.2	363.8	362.5	361.8	361.8	360.3	361.1	361.8
177.5°	363.0	362.5	363.0	364.2	363.0	362.5	362.5	362.5	361.3	361.9	363.0
180°	362.5	362.5	362.5	362.5	362.5	362.5	362.5	362.5	362.5	362.5	362.5



TEST NUMBER: P331440-940

CATALOG NUMBER: SA2XXDIP-C1005D725U940-4F0-1E-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°	14.3	16.9	17.2	19.2	18.5	19.2	20.2	20.4	20.1	19.4	18.6
90°	2.8	5.6	7.0	8.4	10.4	13.9	18.8	23.0	23.7	23.0	22.3
92.5°	12.3	17.3	20.3	25.1	31.7	47.4	69.6	89.3	90.6	76.5	60.8
95°	27.2	34.2	40.4	51.5	68.3	100.4	161.0	241.9	273.2	239.1	182.6
97.5°	43.5	50.9	60.4	73.2	92.1	132.4	217.0	351.3	466.5	489.4	426.1
100°	55.7	62.1	73.2	87.1	106.6	143.6	228.6	379.2	550.6	651.0	636.4
102.5°	68.0	74.3	85.4	100.0	119.5	153.6	229.2	368.6	553.5	711.2	774.2
105°	87.8	92.7	103.2	118.5	138.0	170.8	232.8	347.9	516.5	702.0	846.9
107.5°	107.4	112.1	121.7	136.9	156.6	188.3	242.5	337.5	476.9	640.7	794.5
110°	121.3	125.5	134.6	149.2	169.4	200.0	250.2	335.3	458.0	602.3	749.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	133.6	138.3	146.8	160.9	181.6	211.2	258.6	335.8	445.7	575.5	708.1
115°	153.4	157.6	165.9	179.9	198.7	228.6	271.2	338.8	432.2	542.3	657.3
117.5°	172.5	176.6	184.0	197.4	217.0	244.7	284.5	343.8	425.6	521.4	619.1
120°	184.8	188.9	195.2	209.1	228.6	255.8	293.5	347.1	421.7	510.2	600.1
122.5°	195.9	200.0	206.9	220.8	240.9	266.4	301.3	351.1	419.5	500.8	585.1
125°	211.2	215.3	223.7	237.7	257.2	282.3	313.7	356.9	415.4	487.2	563.2
127.5°	224.2	230.1	239.2	252.6	272.7	297.1	325.2	362.9	413.0	474.7	541.6
130°	231.4	238.4	248.2	262.1	281.6	306.0	332.5	367.4	412.0	466.4	527.6
132.5°	238.7	246.2	256.5	271.0	290.5	313.8	339.7	371.8	411.4	459.7	514.2
135°	248.2	256.5	267.0	283.0	302.6	324.9	349.2	377.1	410.5	450.3	495.6
137.5°	258.2	266.5	277.7	293.6	311.7	333.8	356.5	381.8	410.5	443.7	480.7
140°	264.8	273.2	284.4	299.7	317.9	338.8	360.3	384.1	409.8	439.9	471.2
142.5°	271.6	279.4	290.5	305.3	322.4	342.7	363.7	385.8	409.8	436.0	463.4
145°	283.0	290.0	300.4	314.3	329.7	348.6	368.0	387.5	408.5	430.8	452.4
147.5°	294.0	300.7	310.3	321.9	335.6	353.3	370.4	388.2	406.0	425.5	443.9
150°	301.8	307.4	316.5	326.9	339.5	355.5	371.5	387.5	404.3	421.0	437.7
152.5°	308.5	314.1	322.0	331.9	343.4	357.8	372.1	386.5	401.5	417.1	431.6
155°	319.2	323.4	331.1	338.8	349.2	361.1	372.9	384.8	396.6	409.8	423.1
157.5°	328.4	331.8	338.5	344.6	353.4	363.5	372.9	381.6	391.6	403.1	413.2
160°	334.6	337.3	343.0	348.6	356.1	364.5	372.9	379.9	388.3	398.1	407.1
162.5°	339.6	342.4	346.9	351.9	357.8	365.2	372.4	378.3	385.5	393.5	400.9
165°	346.4	347.9	352.0	355.5	359.7	366.0	370.9	375.1	379.9	386.2	391.7
167.5°	352.1	353.4	356.1	358.6	361.2	365.8	369.9	371.8	375.1	378.9	383.0
170°	355.5	356.1	358.3	359.7	361.8	365.2	368.7	370.1	372.2	375.1	378.5
172.5°	358.3	357.8	360.0	360.8	362.3	364.7	367.0	367.9	368.9	371.1	373.4
175°	361.1	360.3	361.8	361.8	362.5	363.8	365.2	364.5	365.2	366.0	368.0
177.5°	361.9	361.3	362.5	362.5	362.5	363.0	364.2	363.0	362.5	363.0	364.2
180°	362.5	362.5	362.5	362.5	362.5	362.5	362.5	362.5	362.5	362.5	362.5



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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°	18.9	19.3	18.8	18.8	19.4	18.8	18.8
90°	21.0	22.3	23.0	23.0	23.0	23.0	23.0
92.5°	52.2	46.3	42.0	41.4	39.1	39.8	38.6
95°	140.1	110.8	95.5	86.4	80.9	78.7	79.5
97.5°	348.7	273.2	222.9	189.6	172.5	162.3	156.4
100°	550.0	454.5	370.1	312.3	282.3	262.1	249.5
102.5°	754.7	684.7	595.4	532.5	481.3	456.1	439.2
105°	925.7	934.8	911.8	868.5	825.3	795.3	785.6
107.5°	913.1	985.6	1019.4	1024.8	1022.4	1016.5	1003.4
110°	874.1	963.3	1020.5	1050.4	1063.7	1070.0	1069.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	827.8	923.2	988.7	1030.4	1052.6	1064.4	1068.2
115°	764.6	856.0	927.7	977.2	1009.3	1027.4	1033.8
117.5°	713.4	796.2	863.5	914.0	947.9	967.0	972.2
120°	686.6	760.5	823.9	872.7	905.4	925.7	932.6
122.5°	664.3	734.2	791.6	835.4	867.5	885.6	891.4
125°	635.0	696.3	748.6	789.1	815.6	832.9	838.6
127.5°	606.5	664.4	712.7	748.0	772.8	787.8	792.3
130°	587.6	642.7	688.7	722.8	746.5	760.5	766.1
132.5°	569.8	620.4	663.6	697.2	720.9	733.7	738.7
135°	541.6	587.6	626.6	656.7	679.7	692.1	695.0
137.5°	519.2	555.7	589.7	617.1	636.9	647.8	652.0
140°	504.7	536.7	567.4	589.7	607.8	618.3	622.5
142.5°	491.9	519.4	545.1	566.3	582.7	592.1	592.9
145°	475.4	497.0	517.2	534.0	545.8	552.8	554.8
147.5°	462.0	478.8	493.7	507.5	516.9	521.7	522.9
150°	453.1	467.7	480.3	490.7	499.1	503.3	504.0
152.5°	445.9	458.3	469.1	477.3	484.6	487.7	487.8
155°	434.3	444.7	452.4	460.0	464.9	467.7	466.4
157.5°	422.6	431.3	437.3	442.7	446.8	448.1	448.1
160°	414.7	422.4	427.3	432.2	435.7	436.3	436.3
162.5°	407.5	414.0	417.9	422.7	425.1	425.8	425.2
165°	396.6	401.5	404.3	407.1	409.8	409.8	409.2
167.5°	386.7	390.0	392.6	393.9	395.4	395.2	394.4
170°	380.6	383.3	384.8	385.5	387.5	386.8	385.5
172.5°	375.1	377.3	378.1	378.8	379.8	379.1	378.3
175°	368.7	369.4	370.1	370.1	370.9	370.1	368.7
177.5°	364.2	364.7	364.7	364.7	364.7	364.2	363.0
180°	362.5	362.5	362.5	362.5	362.5	362.5	362.5

(END OF REPORT)