

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: P332841

Luminaire Tested: **S124DIW-S1195D770U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332841
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIW-S1195D770U835-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 770 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8390.4 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Direct

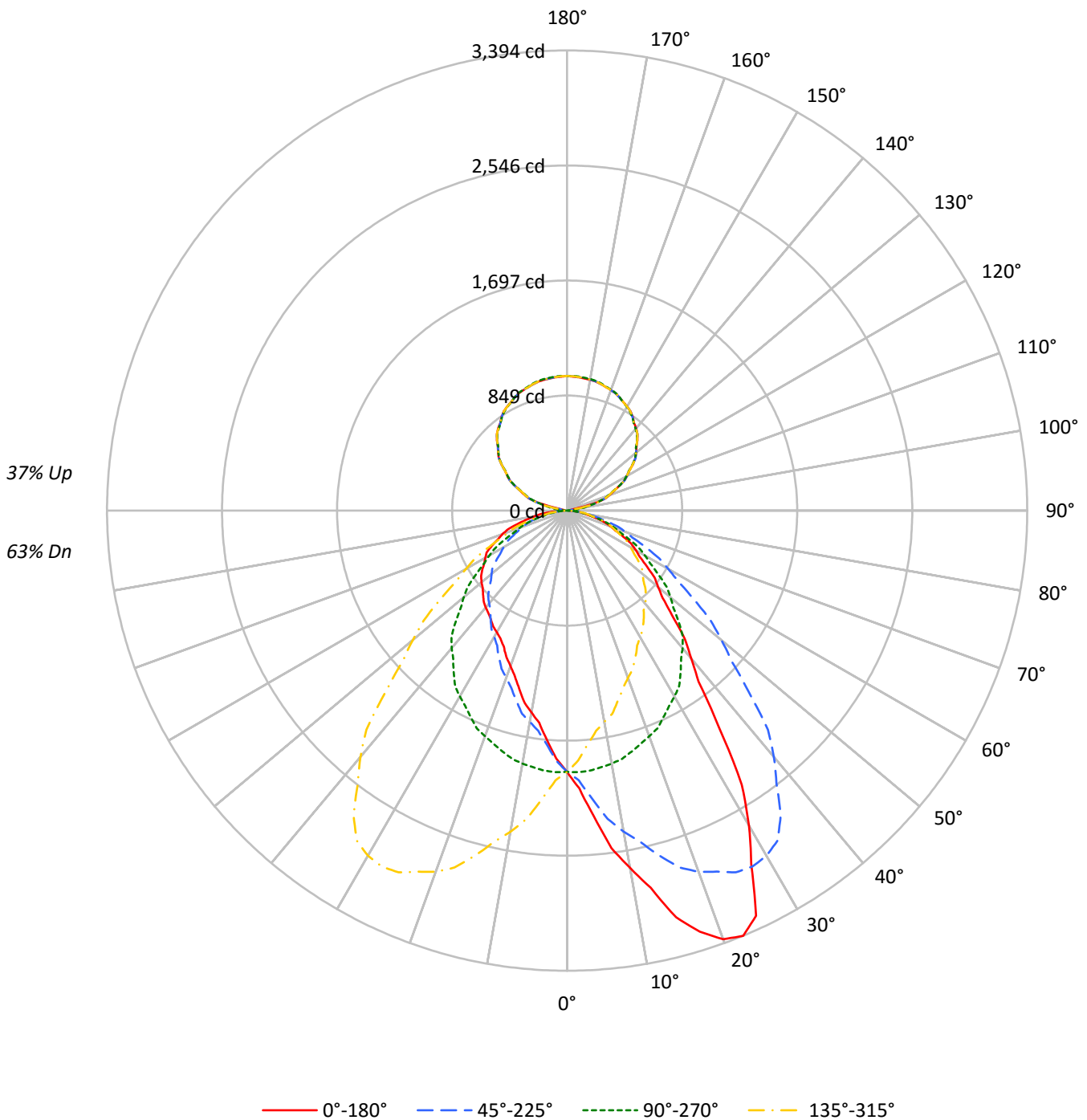
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	110	110	110	104	104	104	104	91	91	91	79	79	79	68	68	68	63
1	101	97	93	89	95	91	88	85	80	78	75	70	68	67	61	60	58	54
2	92	85	79	74	86	80	74	70	71	66	63	62	59	56	54	52	50	46
3	84	75	67	62	79	71	64	59	63	57	53	55	51	48	48	45	43	39
4	77	67	59	52	72	63	56	50	56	50	46	49	45	41	43	40	37	34
5	71	59	51	45	67	56	49	43	50	44	40	44	40	36	39	35	32	29
6	66	54	45	39	62	51	43	38	45	39	35	40	35	32	36	32	29	26
7	61	48	40	35	57	46	39	33	41	35	31	37	32	28	33	29	26	23
8	57	44	36	31	53	42	35	30	38	32	27	34	29	25	30	26	23	21
9	53	40	33	28	50	38	31	27	35	29	25	31	26	23	28	24	21	19
10	49	37	30	25	46	35	29	24	32	26	22	29	24	21	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15560	15560	15560	15560
5°	18323	15600	13768	15600
10°	21939	15531	12396	15531
15°	25957	15374	11384	15374
20°	28905	15214	10481	15214
25°	29372	14978	9857	14978
30°	24993	14752	9660	14752
35°	19215	14384	9662	14384
40°	14977	13951	9844	13951
45°	12488	13300	10009	13300
50°	10991	12504	10349	12504
55°	10069	11553	10766	11553
60°	9436	10700	11267	10700
65°	8785	9746	11683	9746
70°	8028	8802	11948	8802
75°	7171	7745	11803	7745
80°	6011	6346	11432	6346
85°	4437	4585	10948	4585



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.8	2.2
10°-20°	578.8	6.9
20°-30°	917.8	10.9
30°-40°	1021.3	12.2
40°-50°	929.7	11.1
50°-60°	759.7	9.1
60°-70°	542.4	6.5
70°-80°	298.7	3.6
80°-90°	84.4	1.0
90°-100°	33.9	0.4
100°-110°	216.4	2.6
110°-120°	414.0	4.9
120°-130°	525.6	6.3
130°-140°	562.3	6.7
140°-150°	525.8	6.3
150°-160°	424.0	5.1
160°-170°	273.5	3.3
170°-180°	94.3	1.1
0°-30°	1684.3	20.1
0°-40°	2705.6	32.2
0°-60°	4395.1	52.4
0°-90°	5320.5	63.4
90°-120°	664.4	7.9
90°-150°	2278.1	27.2
90°-180°	3070.0	36.6
0°-180°	8390.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1927	1927	1927	1927	1927	
5°	2261	1925	1699	1925	2261	230
15°	3106	1840	1362	1840	3106	878
25°	3297	1682	1107	1682	3297	1454
35°	1950	1460	980	1460	1950	1238
45°	1094	1165	877	1165	1094	862
55°	715	821	765	821	715	646
65°	460	510	612	510	460	455
75°	230	248	378	248	230	244
85°	48	50	118	50	48	59
90°	22	2	22	2	22	11
95°	22	41	22	41	22	17
105°	212	223	212	223	212	185
115°	420	417	420	417	420	416
125°	591	586	591	586	591	526
135°	733	727	733	727	733	564
145°	843	839	843	839	843	527
155°	919	920	919	920	919	424
165°	966	970	966	970	966	273
175°	986	992	986	992	986	94
180°	992	992	992	992	992	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	2051.3	2050.6	2044.3	2043.0	2038.5	2032.8	2031.5	2021.3	2000.8	1991.2	1988.7
5°	2261.1	2277.1	2256.3	2252.3	2249.9	2223.6	2210.0	2194.0	2157.3	2135.8	2119.0
7.5°	2511.5	2513.4	2504.3	2497.0	2476.7	2453.7	2419.2	2382.5	2338.7	2293.2	2258.9
10°	2676.3	2682.7	2672.3	2670.7	2630.0	2604.4	2553.3	2510.2	2460.7	2405.6	2355.3
12.5°	2850.0	2841.1	2835.8	2801.6	2794.1	2747.5	2688.1	2643.7	2567.4	2504.0	2437.1
15°	3105.8	3088.3	3077.1	3030.0	3006.8	2942.1	2879.1	2830.4	2730.6	2635.6	2563.7
17.5°	3255.9	3273.5	3247.6	3228.3	3168.4	3123.1	3058.6	2956.4	2878.3	2760.3	2669.6
20°	3364.5	3366.1	3351.7	3331.8	3284.7	3227.2	3156.9	3045.1	2951.7	2834.4	2709.8
22.5°	3393.9	3394.2	3388.1	3369.5	3333.8	3287.2	3216.3	3123.1	3009.9	2882.3	2757.7
25°	3297.4	3294.2	3301.4	3322.2	3308.6	3294.2	3253.5	3184.1	3078.7	2943.7	2809.6
27.5°	2939.1	2961.1	3001.7	3052.8	3102.0	3139.5	3150.1	3135.8	3070.5	2959.6	2819.0
30°	2681.1	2708.2	2738.6	2789.6	2888.7	2945.3	3007.6	3054.7	3028.4	2939.8	2808.8
32.5°	2397.5	2404.2	2449.2	2507.3	2598.0	2707.1	2805.8	2901.4	2933.2	2886.7	2777.5
35°	1949.7	1960.9	2009.6	2067.1	2178.1	2311.4	2459.9	2592.4	2701.8	2745.7	2689.8
37.5°	1591.1	1623.2	1657.5	1719.3	1817.0	1937.1	2091.4	2262.9	2425.9	2535.1	2553.6
40°	1421.2	1441.1	1465.9	1513.0	1596.0	1714.2	1846.7	2043.1	2216.4	2372.9	2424.0
42.5°	1287.0	1298.7	1313.9	1356.5	1419.7	1537.3	1658.3	1831.1	2005.0	2192.1	2277.7
45°	1093.8	1105.8	1131.3	1156.1	1204.0	1285.4	1398.0	1540.1	1715.0	1895.4	2053.5
47.5°	954.3	961.9	977.1	1003.6	1044.3	1098.0	1189.6	1308.3	1470.4	1645.5	1814.0
50°	875.1	881.4	893.4	917.4	948.5	996.4	1071.5	1182.4	1309.4	1485.8	1651.1
52.5°	812.5	815.0	823.8	840.1	864.8	905.1	966.7	1058.5	1176.5	1333.8	1498.5
55°	715.4	718.6	726.6	738.5	760.1	785.6	832.7	901.4	1004.4	1140.9	1283.8
57.5°	635.5	637.8	644.5	649.1	666.8	687.6	723.8	772.9	850.9	966.7	1094.3
60°	584.4	582.8	590.8	594.8	606.8	624.4	652.3	699.4	767.3	860.7	978.1
62.5°	534.6	532.4	539.1	544.4	551.2	566.2	589.1	626.0	681.0	765.5	866.9
65°	459.9	456.7	460.7	467.1	473.5	481.4	498.2	530.9	574.9	635.5	713.0
67.5°	384.8	388.2	388.8	392.0	395.7	406.6	418.0	441.2	472.2	520.7	586.4
70°	340.1	340.9	344.1	344.1	346.5	356.1	365.7	379.2	409.6	454.3	507.8
72.5°	295.4	298.8	297.5	300.0	301.8	308.2	315.2	328.1	354.0	387.2	432.4
75°	229.9	232.3	232.3	233.1	235.5	237.9	243.5	253.1	271.5	296.2	327.3
77.5°	167.7	168.0	169.1	172.0	172.0	175.8	180.0	187.6	196.7	213.7	232.7
80°	129.3	130.9	130.1	131.7	131.7	134.9	136.5	146.1	150.1	161.3	176.4
82.5°	94.9	96.4	96.3	98.5	99.8	100.4	102.7	106.5	110.5	120.4	126.6
85°	47.9	49.5	47.9	49.5	51.9	52.7	55.1	55.9	59.1	61.5	67.1
87.5°	18.5	20.4	20.3	20.9	22.1	22.6	23.0	22.2	24.5	25.0	27.3
90°	22.3	21.9	21.6	21.3	20.9	20.3	19.3	18.3	17.3	16.3	15.0
92.5°	20.5	20.4	20.4	20.3	20.2	19.7	18.7	17.7	16.7	15.7	14.4
95°	21.5	21.4	21.2	21.0	20.9	20.3	19.3	18.3	17.3	16.3	16.2
97.5°	20.8	20.6	20.5	20.3	20.1	20.0	19.9	19.8	19.7	19.6	38.0
100°	20.8	20.6	20.5	20.3	20.1	21.4	24.2	27.1	29.9	32.7	55.4
102.5°	21.4	21.3	21.3	21.3	21.2	36.4	66.6	96.9	127.1	157.4	160.3
105°	211.6	217.5	223.4	229.4	235.3	237.5	236.0	234.6	233.1	231.6	230.8
107.5°	294.8	294.2	293.6	293.0	292.3	291.7	290.9	290.2	289.5	288.7	287.6
110°	331.1	330.6	330.1	329.6	329.1	328.7	328.3	328.0	327.7	327.3	326.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	367.3	366.7	366.0	365.4	364.8	364.5	364.6	364.6	364.7	364.8	364.3
115°	420.1	420.1	420.1	420.1	420.1	420.0	419.6	419.3	419.0	418.6	418.8
117.5°	473.9	473.9	474.0	474.1	474.1	474.2	474.3	474.3	474.4	474.5	474.1
120°	507.7	508.1	508.4	508.7	509.0	509.0	508.7	508.4	508.1	507.7	507.9
122.5°	541.0	541.3	541.6	542.0	542.3	542.4	542.2	542.0	541.8	541.6	541.3
125°	590.9	590.7	590.5	590.4	590.2	589.9	589.4	588.9	588.4	587.9	588.2
127.5°	634.7	634.8	634.9	635.1	635.2	635.3	635.4	635.5	635.6	635.7	634.9
130°	664.3	664.3	664.3	664.3	664.3	664.3	664.1	663.9	663.8	663.6	663.1
132.5°	691.7	691.8	691.9	692.1	692.2	692.2	692.0	691.8	691.7	691.5	690.9
135°	732.6	732.3	732.0	731.6	731.3	731.0	730.7	730.3	730.0	729.7	729.0
137.5°	767.7	767.8	767.9	768.0	768.1	767.9	767.6	767.2	766.8	766.5	765.8
140°	792.0	791.9	791.7	791.5	791.4	791.0	790.5	790.0	789.5	789.1	788.7
142.5°	812.2	812.2	812.1	812.1	812.1	811.9	811.5	811.2	810.8	810.4	810.2
145°	843.2	842.9	842.6	842.2	841.9	841.7	841.5	841.3	841.2	841.0	841.0
147.5°	868.9	868.8	868.6	868.4	868.3	868.1	868.0	867.8	867.7	867.6	867.7
150°	885.5	885.4	885.2	885.1	884.9	884.8	884.8	884.8	884.8	884.8	885.0
152.5°	899.8	899.9	900.0	900.1	900.2	900.1	899.8	899.6	899.3	899.1	899.4
155°	919.0	919.4	919.9	920.4	920.9	920.8	920.2	919.5	918.9	918.2	918.7
157.5°	935.0	935.8	936.7	937.6	938.4	938.4	937.6	936.7	935.8	935.0	935.5
160°	945.7	946.7	947.7	948.6	949.6	949.6	948.6	947.7	946.7	945.7	945.8
162.5°	954.0	955.1	956.2	957.4	958.5	958.5	957.5	956.6	955.6	954.6	954.7
165°	965.7	967.2	968.7	970.2	971.7	971.7	970.4	969.1	967.8	966.5	966.5
167.5°	974.5	976.1	977.8	979.4	981.1	981.2	979.7	978.3	976.8	975.4	975.5
170°	979.8	981.5	983.1	984.8	986.4	986.6	985.3	983.9	982.6	981.3	981.1
172.5°	982.8	984.6	986.4	988.1	989.9	990.1	988.8	987.5	986.2	984.9	984.7
175°	986.5	988.5	990.5	992.4	994.4	994.7	993.2	991.7	990.2	988.7	988.6
177.5°	988.9	990.5	992.0	993.6	995.2	995.5	994.4	993.4	992.3	991.2	991.0
180°	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	1989.3	1980.4	1974.0	1968.9	1954.8	1946.5	1940.1	1931.2	1921.0	1910.1	1896.7
5°	2102.2	2075.1	2055.1	2024.8	1996.0	1972.1	1947.3	1925.0	1897.8	1868.3	1846.7
7.5°	2220.9	2180.5	2128.7	2083.9	2033.4	1989.5	1950.2	1910.0	1868.1	1827.6	1790.4
10°	2296.2	2244.3	2186.8	2119.0	2055.1	1998.4	1945.7	1894.6	1845.1	1795.6	1753.3
12.5°	2377.4	2312.7	2227.7	2148.4	2076.8	2001.0	1937.4	1874.8	1815.1	1763.1	1713.7
15°	2486.3	2392.8	2294.6	2188.4	2094.2	2005.6	1918.6	1839.5	1772.5	1703.8	1655.9
17.5°	2553.2	2437.6	2325.3	2214.3	2100.3	1988.5	1894.6	1803.5	1719.5	1651.3	1590.9
20°	2597.2	2482.3	2342.5	2231.6	2095.8	1980.9	1872.3	1770.9	1683.1	1610.4	1548.1
22.5°	2635.6	2502.7	2363.0	2216.9	2081.8	1959.8	1841.0	1738.9	1649.2	1572.7	1513.0
25°	2656.3	2503.8	2352.1	2206.8	2053.5	1909.0	1801.2	1681.5	1585.6	1505.0	1441.1
27.5°	2658.6	2495.5	2323.9	2162.4	2004.2	1869.6	1733.5	1626.5	1527.0	1441.8	1380.5
30°	2651.5	2481.5	2297.0	2122.2	1963.3	1817.2	1699.0	1582.5	1481.1	1396.4	1332.5
32.5°	2629.2	2452.1	2262.5	2077.5	1912.8	1769.9	1647.9	1537.1	1438.3	1354.9	1287.8
35°	2564.5	2389.6	2187.6	1995.2	1826.8	1682.3	1572.1	1459.5	1360.5	1281.5	1216.8
37.5°	2463.4	2305.3	2100.0	1900.9	1735.4	1590.3	1481.1	1379.3	1290.1	1209.8	1143.5
40°	2375.3	2236.4	2030.4	1836.3	1657.5	1519.4	1417.2	1323.8	1235.1	1159.3	1096.2
42.5°	2273.7	2152.7	1962.7	1757.1	1584.7	1445.9	1346.3	1262.4	1178.9	1108.8	1045.8
45°	2092.6	2012.8	1834.0	1643.9	1464.3	1333.3	1238.3	1164.9	1094.6	1026.0	973.3
47.5°	1884.4	1844.8	1694.2	1513.8	1343.2	1214.2	1131.8	1064.0	1002.3	944.2	897.7
50°	1744.5	1725.4	1595.2	1421.2	1258.3	1136.9	1053.9	995.6	942.9	891.8	847.9
52.5°	1606.6	1605.9	1488.6	1329.2	1178.5	1061.6	979.2	924.7	879.1	837.5	798.1
55°	1395.6	1418.0	1326.2	1184.0	1049.1	943.7	869.5	820.8	788.8	754.5	725.0
57.5°	1201.9	1239.0	1163.3	1038.1	925.5	828.4	763.8	727.2	693.2	672.4	650.9
60°	1075.5	1110.6	1051.5	946.1	839.9	756.9	695.4	662.7	633.1	618.8	603.6
62.5°	963.0	994.3	950.6	852.9	760.7	680.9	629.0	597.5	577.6	561.9	551.9
65°	802.4	828.8	791.2	720.2	641.1	577.3	534.9	510.2	491.0	484.6	473.5
67.5°	648.6	672.6	652.3	591.9	528.5	480.2	447.1	423.3	412.0	406.4	398.4
70°	557.3	581.2	559.7	507.0	458.3	417.6	386.4	372.9	360.9	358.5	347.3
72.5°	480.0	496.3	474.7	433.5	391.9	357.5	333.4	319.2	313.0	308.7	302.6
75°	360.1	374.5	360.1	328.1	298.6	274.7	253.9	248.3	241.1	238.7	234.7
77.5°	254.9	267.3	256.3	236.3	214.3	195.8	184.6	177.4	175.8	171.7	173.6
80°	194.8	202.8	192.4	178.8	161.3	148.5	140.5	136.5	131.7	130.1	133.3
82.5°	139.9	143.4	138.1	129.0	115.9	107.6	102.2	97.6	96.6	96.9	96.9
85°	72.7	71.9	71.1	63.1	59.1	53.5	50.3	49.5	48.7	50.3	51.9
87.5°	27.0	27.4	26.5	23.6	21.3	19.1	18.1	17.1	18.1	19.1	20.1
90°	13.7	12.4	11.1	9.5	7.7	5.9	4.0	2.2	4.0	5.9	7.7
92.5°	13.1	11.8	10.5	9.7	9.6	9.6	9.5	9.4	9.5	9.6	9.6
95°	16.0	15.8	15.7	18.4	24.0	29.6	35.2	40.8	35.2	29.6	24.0
97.5°	56.4	74.8	93.2	100.7	97.2	93.7	90.2	86.7	90.2	93.7	97.2
100°	78.2	101.0	123.7	133.6	130.6	127.7	124.7	121.7	124.7	127.7	130.6
102.5°	163.3	166.3	169.2	169.6	167.5	165.3	163.1	160.9	163.1	165.3	167.5
105°	229.9	229.1	228.3	227.4	226.4	225.4	224.4	223.4	224.4	225.4	226.4
107.5°	286.5	285.4	284.3	283.5	283.0	282.5	282.0	281.5	282.0	282.5	283.0
110°	325.4	324.4	323.4	322.6	322.2	321.7	321.2	320.7	321.2	321.7	322.2



TEST NUMBER: P332841

CATALOG NUMBER: S124DIW-S1195D770U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	363.8	363.4	362.9	362.2	361.3	360.5	359.6	358.7	359.6	360.5	361.3
115°	419.0	419.1	419.3	419.1	418.6	418.2	417.7	417.2	417.7	418.2	418.6
117.5°	473.7	473.4	473.0	472.5	471.8	471.2	470.5	469.9	470.5	471.2	471.8
120°	508.1	508.2	508.4	508.1	507.5	506.8	506.2	505.5	506.2	506.8	507.5
122.5°	541.1	540.9	540.6	540.3	539.9	539.5	539.1	538.8	539.1	539.5	539.9
125°	588.6	588.9	589.2	589.0	588.4	587.7	587.1	586.4	587.1	587.7	588.4
127.5°	634.2	633.4	632.7	632.2	632.0	631.9	631.7	631.5	631.7	631.9	632.0
130°	662.6	662.1	661.6	661.3	661.1	661.0	660.8	660.6	660.8	661.0	661.1
132.5°	690.3	689.6	689.0	688.5	688.2	688.0	687.7	687.4	687.7	688.0	688.2
135°	728.3	727.7	727.0	726.8	726.9	727.1	727.3	727.4	727.3	727.1	726.9
137.5°	765.0	764.3	763.6	763.2	763.1	763.1	763.0	762.9	763.0	763.1	763.1
140°	788.4	788.1	787.7	787.4	787.1	786.7	786.4	786.1	786.4	786.7	787.1
142.5°	810.0	809.8	809.6	809.2	808.6	808.1	807.5	806.9	807.5	808.1	808.6
145°	841.0	841.0	841.0	840.8	840.3	839.8	839.3	838.8	839.3	839.8	840.3
147.5°	867.9	868.1	868.2	867.9	866.9	866.0	865.1	864.2	865.1	866.0	866.9
150°	885.1	885.3	885.5	885.2	884.6	883.9	883.2	882.6	883.2	883.9	884.6
152.5°	899.7	899.9	900.2	900.1	899.6	899.1	898.5	898.0	898.5	899.1	899.6
155°	919.2	919.7	920.2	920.4	920.2	920.0	919.9	919.7	919.9	920.0	920.2
157.5°	936.1	936.7	937.2	937.6	937.7	937.8	937.9	938.0	937.9	937.8	937.7
160°	946.0	946.2	946.3	946.7	947.2	947.7	948.1	948.6	948.1	947.7	947.2
162.5°	954.9	955.1	955.2	955.6	956.3	956.9	957.5	958.1	957.5	956.9	956.3
165°	966.5	966.5	966.5	966.9	967.7	968.5	969.3	970.2	969.3	968.5	967.7
167.5°	975.6	975.7	975.8	976.2	977.1	978.0	978.8	979.7	978.8	978.0	977.1
170°	981.0	980.8	980.6	981.1	982.0	983.0	984.0	985.0	984.0	983.0	982.0
172.5°	984.5	984.4	984.2	984.6	985.6	986.6	987.6	988.6	987.6	986.6	985.6
175°	988.4	988.2	988.1	988.5	989.5	990.5	991.4	992.4	991.4	990.5	989.5
177.5°	990.7	990.5	990.2	990.5	991.4	992.4	993.3	994.2	993.3	992.4	991.4
180°	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4



TEST NUMBER: P332841

CATALOG NUMBER: S124DIW-S1195D770U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	1890.3	1884.6	1876.3	1864.8	1855.2	1845.0	1842.4	1838.6	1846.2	1839.9	1837.9
5°	1828.4	1811.6	1790.0	1765.3	1750.9	1730.2	1726.2	1718.2	1710.2	1709.4	1701.4
7.5°	1762.7	1738.1	1709.9	1684.6	1661.3	1638.7	1623.8	1620.6	1608.8	1601.9	1593.9
10°	1720.6	1690.2	1657.5	1633.6	1606.4	1582.5	1565.7	1556.1	1548.1	1539.3	1531.4
12.5°	1670.8	1638.5	1611.5	1585.6	1553.4	1535.2	1507.6	1491.0	1489.4	1489.5	1468.8
15°	1612.8	1580.9	1539.3	1502.6	1485.0	1449.9	1434.7	1415.6	1403.6	1391.6	1382.1
17.5°	1546.5	1506.8	1474.3	1432.2	1398.7	1370.7	1350.8	1339.3	1321.2	1304.3	1292.0
20°	1505.0	1462.7	1428.4	1383.6	1346.9	1312.6	1295.8	1279.9	1266.3	1251.9	1238.3
22.5°	1462.8	1418.6	1376.6	1333.2	1299.0	1262.8	1246.6	1224.9	1212.0	1204.0	1190.4
25°	1396.4	1348.5	1300.6	1259.1	1224.0	1192.0	1170.5	1153.7	1139.3	1132.9	1124.2
27.5°	1324.2	1276.7	1230.4	1183.2	1143.3	1120.2	1102.9	1090.3	1082.0	1073.5	1069.6
30°	1278.3	1228.8	1179.3	1135.3	1098.6	1075.5	1059.5	1050.7	1044.3	1040.3	1036.3
32.5°	1231.6	1182.8	1130.7	1090.6	1057.7	1037.1	1025.0	1016.2	1013.0	1011.6	1010.2
35°	1156.9	1107.4	1059.5	1023.6	992.4	984.4	974.1	969.3	967.7	973.3	975.7
37.5°	1084.6	1038.6	994.5	959.7	939.3	927.6	924.1	924.2	930.0	934.9	940.7
40°	1037.9	993.2	951.7	921.4	902.2	895.0	893.4	897.4	903.8	909.4	915.8
42.5°	992.6	948.5	910.8	882.4	869.0	862.4	863.4	867.4	876.3	883.2	892.8
45°	922.2	885.4	848.7	825.6	814.4	816.0	816.0	823.2	831.9	842.3	852.7
47.5°	855.9	818.9	788.7	769.2	763.4	762.0	766.5	775.9	788.5	801.3	815.8
50°	811.2	776.1	749.7	732.1	725.8	728.2	734.5	743.3	758.5	774.5	789.6
52.5°	765.8	733.9	709.5	693.2	688.7	693.0	699.4	713.3	726.6	743.8	762.2
55°	695.4	668.3	649.1	637.1	635.5	637.9	645.1	660.3	679.4	701.0	718.6
57.5°	625.3	602.6	585.1	576.8	577.6	579.8	591.6	609.7	630.1	653.1	675.8
60°	578.0	557.3	542.9	536.5	537.3	542.1	556.5	573.3	598.8	621.2	645.1
62.5°	533.3	515.1	501.4	495.7	494.5	505.1	518.8	536.2	561.8	586.7	612.5
65°	461.5	447.1	435.9	432.7	435.1	443.1	460.7	483.8	505.4	531.7	558.9
67.5°	391.2	379.4	371.7	373.2	376.1	387.9	402.6	422.5	447.0	474.3	501.1
70°	346.5	335.3	328.9	329.7	334.5	348.9	361.7	381.6	408.0	435.9	458.3
72.5°	300.5	293.2	287.4	290.8	295.6	305.5	321.4	341.4	364.6	390.6	414.2
75°	230.7	230.7	227.5	229.9	237.1	246.7	258.7	279.4	302.6	323.4	342.5
77.5°	171.2	169.4	171.5	174.4	178.5	189.9	203.6	218.4	235.9	256.6	272.4
80°	130.9	131.7	135.7	140.5	142.1	150.9	165.3	178.8	192.4	210.0	225.2
82.5°	98.4	99.2	101.2	107.3	108.9	118.3	127.6	141.2	153.5	165.3	177.9
85°	53.5	53.5	57.5	59.9	63.9	70.3	75.8	83.8	95.0	103.0	115.0
87.5°	22.3	22.6	25.5	27.0	29.2	32.6	34.1	41.3	44.1	47.5	53.4
90°	9.5	11.1	12.4	13.7	15.0	16.3	17.3	18.3	19.3	20.3	20.9
92.5°	9.7	10.5	11.8	13.1	14.4	15.7	16.7	17.7	18.7	19.7	20.2
95°	18.4	15.7	15.8	16.0	16.2	16.3	17.3	18.3	19.3	20.3	20.9
97.5°	100.7	93.2	74.8	56.4	38.0	19.6	19.7	19.8	19.9	20.0	20.1
100°	133.6	123.7	101.0	78.2	55.4	32.7	29.9	27.1	24.2	21.4	20.1
102.5°	169.6	169.2	166.3	163.3	160.3	157.4	127.1	96.9	66.6	36.4	21.2
105°	227.4	228.3	229.1	229.9	230.8	231.6	233.1	234.6	236.0	237.5	235.3
107.5°	283.5	284.3	285.4	286.5	287.6	288.7	289.5	290.2	290.9	291.7	292.3
110°	322.6	323.4	324.4	325.4	326.4	327.3	327.7	328.0	328.3	328.7	329.1



TEST NUMBER: P332841

CATALOG NUMBER: S124DIW-S1195D770U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	362.2	362.9	363.4	363.8	364.3	364.8	364.7	364.6	364.6	364.5	364.8
115°	419.1	419.3	419.1	419.0	418.8	418.6	419.0	419.3	419.6	420.0	420.1
117.5°	472.5	473.0	473.4	473.7	474.1	474.5	474.4	474.3	474.3	474.2	474.1
120°	508.1	508.4	508.2	508.1	507.9	507.7	508.1	508.4	508.7	509.0	509.0
122.5°	540.3	540.6	540.9	541.1	541.3	541.6	541.8	542.0	542.2	542.4	542.3
125°	589.0	589.2	588.9	588.6	588.2	587.9	588.4	588.9	589.4	589.9	590.2
127.5°	632.2	632.7	633.4	634.2	634.9	635.7	635.6	635.5	635.4	635.3	635.2
130°	661.3	661.6	662.1	662.6	663.1	663.6	663.8	663.9	664.1	664.3	664.3
132.5°	688.5	689.0	689.6	690.3	690.9	691.5	691.7	691.8	692.0	692.2	692.2
135°	726.8	727.0	727.7	728.3	729.0	729.7	730.0	730.3	730.7	731.0	731.3
137.5°	763.2	763.6	764.3	765.0	765.8	766.5	766.8	767.2	767.6	767.9	768.1
140°	787.4	787.7	788.1	788.4	788.7	789.1	789.5	790.0	790.5	791.0	791.4
142.5°	809.2	809.6	809.8	810.0	810.2	810.4	810.8	811.2	811.5	811.9	812.1
145°	840.8	841.0	841.0	841.0	841.0	841.0	841.2	841.3	841.5	841.7	841.9
147.5°	867.9	868.2	868.1	867.9	867.7	867.6	867.7	867.8	868.0	868.1	868.3
150°	885.2	885.5	885.3	885.1	885.0	884.8	884.8	884.8	884.8	884.8	884.9
152.5°	900.1	900.2	899.9	899.7	899.4	899.1	899.3	899.6	899.8	900.1	900.2
155°	920.4	920.2	919.7	919.2	918.7	918.2	918.9	919.5	920.2	920.8	920.9
157.5°	937.6	937.2	936.7	936.1	935.5	935.0	935.8	936.7	937.6	938.4	938.4
160°	946.7	946.3	946.2	946.0	945.8	945.7	946.7	947.7	948.6	949.6	949.6
162.5°	955.6	955.2	955.1	954.9	954.7	954.6	955.6	956.6	957.5	958.5	958.5
165°	966.9	966.5	966.5	966.5	966.5	966.5	967.8	969.1	970.4	971.7	971.7
167.5°	976.2	975.8	975.7	975.6	975.5	975.4	976.8	978.3	979.7	981.2	981.1
170°	981.1	980.6	980.8	981.0	981.1	981.3	982.6	983.9	985.3	986.6	986.4
172.5°	984.6	984.2	984.4	984.5	984.7	984.9	986.2	987.5	988.8	990.1	989.9
175°	988.5	988.1	988.2	988.4	988.6	988.7	990.2	991.7	993.2	994.7	994.4
177.5°	990.5	990.2	990.5	990.7	991.0	991.2	992.3	993.4	994.4	995.5	995.2
180°	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4



TEST NUMBER: P332841

CATALOG NUMBER: S124DIW-S1195D770U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	1836.7	1835.4	1830.9	1830.3	1830.9	1835.4	1836.7	1837.9	1839.9	1846.2	1838.6
5°	1696.6	1692.6	1690.2	1699.0	1690.2	1692.6	1696.6	1701.4	1709.4	1710.2	1718.2
7.5°	1591.1	1587.9	1580.9	1578.6	1580.9	1587.9	1591.1	1593.9	1601.9	1608.8	1620.6
10°	1523.4	1520.2	1513.8	1512.2	1513.8	1520.2	1523.4	1531.4	1539.3	1548.1	1556.1
12.5°	1458.2	1451.8	1450.6	1452.2	1450.6	1451.8	1458.2	1468.8	1489.5	1489.4	1491.0
15°	1371.7	1368.5	1359.7	1362.1	1359.7	1368.5	1371.7	1382.1	1391.6	1403.6	1415.6
17.5°	1286.4	1282.6	1271.9	1281.3	1271.9	1282.6	1286.4	1292.0	1304.3	1321.2	1339.3
20°	1232.7	1226.4	1220.8	1220.0	1220.8	1226.4	1232.7	1238.3	1251.9	1266.3	1279.9
22.5°	1181.6	1175.9	1175.4	1170.2	1175.4	1175.9	1181.6	1190.4	1204.0	1212.0	1224.9
25°	1117.8	1112.2	1110.6	1106.6	1110.6	1112.2	1117.8	1124.2	1132.9	1139.3	1153.7
27.5°	1068.8	1066.0	1063.2	1064.4	1063.2	1066.0	1068.8	1069.6	1073.5	1082.0	1090.3
30°	1038.7	1037.9	1036.3	1036.3	1036.3	1037.9	1038.7	1036.3	1040.3	1044.3	1050.7
32.5°	1013.8	1013.7	1014.6	1014.6	1014.6	1013.7	1013.8	1010.2	1011.6	1013.0	1016.2
35°	978.9	981.2	982.8	980.4	982.8	981.2	978.9	975.7	973.3	967.7	969.3
37.5°	947.2	949.6	951.9	954.6	951.9	949.6	947.2	940.7	934.9	930.0	924.2
40°	923.0	928.6	930.1	934.1	930.1	928.6	923.0	915.8	909.4	903.8	897.4
42.5°	900.0	906.2	910.3	911.1	910.3	906.2	900.0	892.8	883.2	876.3	867.4
45°	864.7	871.1	876.7	876.7	876.7	871.1	864.7	852.7	842.3	831.9	823.2
47.5°	828.1	837.4	843.0	844.4	843.0	837.4	828.1	815.8	801.3	788.5	775.9
50°	803.2	814.4	820.0	824.0	820.0	814.4	803.2	789.6	774.5	758.5	743.3
52.5°	778.9	790.1	797.6	799.7	797.6	790.1	778.9	762.2	743.8	726.6	713.3
55°	736.9	752.9	761.7	764.9	761.7	752.9	736.9	718.6	701.0	679.4	660.3
57.5°	697.3	712.0	722.2	724.6	722.2	712.0	697.3	675.8	653.1	630.1	609.7
60°	666.7	682.6	695.4	697.8	695.4	682.6	666.7	645.1	621.2	598.8	573.3
62.5°	635.4	652.0	663.5	669.7	663.5	652.0	635.4	612.5	586.7	561.8	536.2
65°	581.2	598.0	609.2	611.6	609.2	598.0	581.2	558.9	531.7	505.4	483.8
67.5°	522.2	538.9	546.3	550.9	546.3	538.9	522.2	501.1	474.3	447.0	422.5
70°	480.6	494.2	502.2	506.2	502.2	494.2	480.6	458.3	435.9	408.0	381.6
72.5°	433.4	447.6	456.9	457.6	456.9	447.6	433.4	414.2	390.6	364.6	341.4
75°	360.9	373.7	378.4	378.4	378.4	373.7	360.9	342.5	323.4	302.6	279.4
77.5°	285.7	292.2	298.3	299.6	298.3	292.2	285.7	272.4	256.6	235.9	218.4
80°	237.1	241.1	245.9	245.9	245.9	241.1	237.1	225.2	210.0	192.4	178.8
82.5°	187.3	190.7	195.5	194.8	195.5	190.7	187.3	177.9	165.3	153.5	141.2
85°	113.4	120.6	119.8	118.2	119.8	120.6	113.4	115.0	103.0	95.0	83.8
87.5°	55.4	56.1	58.0	59.4	58.0	56.1	55.4	53.4	47.5	44.1	41.3
90°	21.3	21.6	21.9	22.3	21.9	21.6	21.3	20.9	20.3	19.3	18.3
92.5°	20.3	20.4	20.4	20.5	20.4	20.4	20.3	20.2	19.7	18.7	17.7
95°	21.0	21.2	21.4	21.5	21.4	21.2	21.0	20.9	20.3	19.3	18.3
97.5°	20.3	20.5	20.6	20.8	20.6	20.5	20.3	20.1	20.0	19.9	19.8
100°	20.3	20.5	20.6	20.8	20.6	20.5	20.3	20.1	21.4	24.2	27.1
102.5°	21.3	21.3	21.3	21.4	21.3	21.3	21.3	21.2	36.4	66.6	96.9
105°	229.4	223.4	217.5	211.6	217.5	223.4	229.4	235.3	237.5	236.0	234.6
107.5°	293.0	293.6	294.2	294.8	294.2	293.6	293.0	292.3	291.7	290.9	290.2
110°	329.6	330.1	330.6	331.1	330.6	330.1	329.6	329.1	328.7	328.3	328.0



TEST NUMBER: P332841

CATALOG NUMBER: S124DIW-S1195D770U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	365.4	366.0	366.7	367.3	366.7	366.0	365.4	364.8	364.5	364.6	364.6
115°	420.1	420.1	420.1	420.1	420.1	420.1	420.1	420.1	420.0	419.6	419.3
117.5°	474.1	474.0	473.9	473.9	473.9	474.0	474.1	474.1	474.2	474.3	474.3
120°	508.7	508.4	508.1	507.7	508.1	508.4	508.7	509.0	509.0	508.7	508.4
122.5°	542.0	541.6	541.3	541.0	541.3	541.6	542.0	542.3	542.4	542.2	542.0
125°	590.4	590.5	590.7	590.9	590.7	590.5	590.4	590.2	589.9	589.4	588.9
127.5°	635.1	634.9	634.8	634.7	634.8	634.9	635.1	635.2	635.3	635.4	635.5
130°	664.3	664.3	664.3	664.3	664.3	664.3	664.3	664.3	664.3	664.1	663.9
132.5°	692.1	691.9	691.8	691.7	691.8	691.9	692.1	692.2	692.2	692.0	691.8
135°	731.6	732.0	732.3	732.6	732.3	732.0	731.6	731.3	731.0	730.7	730.3
137.5°	768.0	767.9	767.8	767.7	767.8	767.9	768.0	768.1	767.9	767.6	767.2
140°	791.5	791.7	791.9	792.0	791.9	791.7	791.5	791.4	791.0	790.5	790.0
142.5°	812.1	812.1	812.2	812.2	812.2	812.1	812.1	812.1	811.9	811.5	811.2
145°	842.2	842.6	842.9	843.2	842.9	842.6	842.2	841.9	841.7	841.5	841.3
147.5°	868.4	868.6	868.8	868.9	868.8	868.6	868.4	868.3	868.1	868.0	867.8
150°	885.1	885.2	885.4	885.5	885.4	885.2	885.1	884.9	884.8	884.8	884.8
152.5°	900.1	900.0	899.9	899.8	899.9	900.0	900.1	900.2	900.1	899.8	899.6
155°	920.4	919.9	919.4	919.0	919.4	919.9	920.4	920.9	920.8	920.2	919.5
157.5°	937.6	936.7	935.8	935.0	935.8	936.7	937.6	938.4	938.4	937.6	936.7
160°	948.6	947.7	946.7	945.7	946.7	947.7	948.6	949.6	949.6	948.6	947.7
162.5°	957.4	956.2	955.1	954.0	955.1	956.2	957.4	958.5	958.5	957.5	956.6
165°	970.2	968.7	967.2	965.7	967.2	968.7	970.2	971.7	971.7	970.4	969.1
167.5°	979.4	977.8	976.1	974.5	976.1	977.8	979.4	981.1	981.2	979.7	978.3
170°	984.8	983.1	981.5	979.8	981.5	983.1	984.8	986.4	986.6	985.3	983.9
172.5°	988.1	986.4	984.6	982.8	984.6	986.4	988.1	989.9	990.1	988.8	987.5
175°	992.4	990.5	988.5	986.5	988.5	990.5	992.4	994.4	994.7	993.2	991.7
177.5°	993.6	992.0	990.5	988.9	990.5	992.0	993.6	995.2	995.5	994.4	993.4
180°	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4



TEST NUMBER: P332841

CATALOG NUMBER: S124DIW-S1195D770U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	1842.4	1845.0	1855.2	1864.8	1876.3	1884.6	1890.3	1896.7	1910.1	1921.0	1931.2
5°	1726.2	1730.2	1750.9	1765.3	1790.0	1811.6	1828.4	1846.7	1868.3	1897.8	1925.0
7.5°	1623.8	1638.7	1661.3	1684.6	1709.9	1738.1	1762.7	1790.4	1827.6	1868.1	1910.0
10°	1565.7	1582.5	1606.4	1633.6	1657.5	1690.2	1720.6	1753.3	1795.6	1845.1	1894.6
12.5°	1507.6	1535.2	1553.4	1585.6	1611.5	1638.5	1670.8	1713.7	1763.1	1815.1	1874.8
15°	1434.7	1449.9	1485.0	1502.6	1539.3	1580.9	1612.8	1655.9	1703.8	1772.5	1839.5
17.5°	1350.8	1370.7	1398.7	1432.2	1474.3	1506.8	1546.5	1590.9	1651.3	1719.5	1803.5
20°	1295.8	1312.6	1346.9	1383.6	1428.4	1462.7	1505.0	1548.1	1610.4	1683.1	1770.9
22.5°	1246.6	1262.8	1299.0	1333.2	1376.6	1418.6	1462.8	1513.0	1572.7	1649.2	1738.9
25°	1170.5	1192.0	1224.0	1259.1	1300.6	1348.5	1396.4	1441.1	1505.0	1585.6	1681.5
27.5°	1102.9	1120.2	1143.3	1183.2	1230.4	1276.7	1324.2	1380.5	1441.8	1527.0	1626.5
30°	1059.5	1075.5	1098.6	1135.3	1179.3	1228.8	1278.3	1332.5	1396.4	1481.1	1582.5
32.5°	1025.0	1037.1	1057.7	1090.6	1130.7	1182.8	1231.6	1287.8	1354.9	1438.3	1537.1
35°	974.1	984.4	992.4	1023.6	1059.5	1107.4	1156.9	1216.8	1281.5	1360.5	1459.5
37.5°	924.1	927.6	939.3	959.7	994.5	1038.6	1084.6	1143.5	1209.8	1290.1	1379.3
40°	893.4	895.0	902.2	921.4	951.7	993.2	1037.9	1096.2	1159.3	1235.1	1323.8
42.5°	863.4	862.4	869.0	882.4	910.8	948.5	992.6	1045.8	1108.8	1178.9	1262.4
45°	816.0	816.0	814.4	825.6	848.7	885.4	922.2	973.3	1026.0	1094.6	1164.9
47.5°	766.5	762.0	763.4	769.2	788.7	818.9	855.9	897.7	944.2	1002.3	1064.0
50°	734.5	728.2	725.8	732.1	749.7	776.1	811.2	847.9	891.8	942.9	995.6
52.5°	699.4	693.0	688.7	693.2	709.5	733.9	765.8	798.1	837.5	879.1	924.7
55°	645.1	637.9	635.5	637.1	649.1	668.3	695.4	725.0	754.5	788.8	820.8
57.5°	591.6	579.8	577.6	576.8	585.1	602.6	625.3	650.9	672.4	693.2	727.2
60°	556.5	542.1	537.3	536.5	542.9	557.3	578.0	603.6	618.8	633.1	662.7
62.5°	518.8	505.1	494.5	495.7	501.4	515.1	533.3	551.9	561.9	577.6	597.5
65°	460.7	443.1	435.1	432.7	435.9	447.1	461.5	473.5	484.6	491.0	510.2
67.5°	402.6	387.9	376.1	373.2	371.7	379.4	391.2	398.4	406.4	412.0	423.3
70°	361.7	348.9	334.5	329.7	328.9	335.3	346.5	347.3	358.5	360.9	372.9
72.5°	321.4	305.5	295.6	290.8	287.4	293.2	300.5	302.6	308.7	313.0	319.2
75°	258.7	246.7	237.1	229.9	227.5	230.7	230.7	234.7	238.7	241.1	248.3
77.5°	203.6	189.9	178.5	174.4	171.5	169.4	171.2	173.6	171.7	175.8	177.4
80°	165.3	150.9	142.1	140.5	135.7	131.7	130.9	133.3	130.1	131.7	136.5
82.5°	127.6	118.3	108.9	107.3	101.2	99.2	98.4	96.9	96.9	96.6	97.6
85°	75.8	70.3	63.9	59.9	57.5	53.5	53.5	51.9	50.3	48.7	49.5
87.5°	34.1	32.6	29.2	27.0	25.5	22.6	22.3	20.1	19.1	18.1	17.1
90°	17.3	16.3	15.0	13.7	12.4	11.1	9.5	7.7	5.9	4.0	2.2
92.5°	16.7	15.7	14.4	13.1	11.8	10.5	9.7	9.6	9.6	9.5	9.4
95°	17.3	16.3	16.2	16.0	15.8	15.7	18.4	24.0	29.6	35.2	40.8
97.5°	19.7	19.6	38.0	56.4	74.8	93.2	100.7	97.2	93.7	90.2	86.7
100°	29.9	32.7	55.4	78.2	101.0	123.7	133.6	130.6	127.7	124.7	121.7
102.5°	127.1	157.4	160.3	163.3	166.3	169.2	169.6	167.5	165.3	163.1	160.9
105°	233.1	231.6	230.8	229.9	229.1	228.3	227.4	226.4	225.4	224.4	223.4
107.5°	289.5	288.7	287.6	286.5	285.4	284.3	283.5	283.0	282.5	282.0	281.5
110°	327.7	327.3	326.4	325.4	324.4	323.4	322.6	322.2	321.7	321.2	320.7



TEST NUMBER: P332841

CATALOG NUMBER: S124DIW-S1195D770U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	364.7	364.8	364.3	363.8	363.4	362.9	362.2	361.3	360.5	359.6	358.7
115°	419.0	418.6	418.8	419.0	419.1	419.3	419.1	418.6	418.2	417.7	417.2
117.5°	474.4	474.5	474.1	473.7	473.4	473.0	472.5	471.8	471.2	470.5	469.9
120°	508.1	507.7	507.9	508.1	508.2	508.4	508.1	507.5	506.8	506.2	505.5
122.5°	541.8	541.6	541.3	541.1	540.9	540.6	540.3	539.9	539.5	539.1	538.8
125°	588.4	587.9	588.2	588.6	588.9	589.2	589.0	588.4	587.7	587.1	586.4
127.5°	635.6	635.7	634.9	634.2	633.4	632.7	632.2	632.0	631.9	631.7	631.5
130°	663.8	663.6	663.1	662.6	662.1	661.6	661.3	661.1	661.0	660.8	660.6
132.5°	691.7	691.5	690.9	690.3	689.6	689.0	688.5	688.2	688.0	687.7	687.4
135°	730.0	729.7	729.0	728.3	727.7	727.0	726.8	726.9	727.1	727.3	727.4
137.5°	766.8	766.5	765.8	765.0	764.3	763.6	763.2	763.1	763.1	763.0	762.9
140°	789.5	789.1	788.7	788.4	788.1	787.7	787.4	787.1	786.7	786.4	786.1
142.5°	810.8	810.4	810.2	810.0	809.8	809.6	809.2	808.6	808.1	807.5	806.9
145°	841.2	841.0	841.0	841.0	841.0	841.0	840.8	840.3	839.8	839.3	838.8
147.5°	867.7	867.6	867.7	867.9	868.1	868.2	867.9	866.9	866.0	865.1	864.2
150°	884.8	884.8	885.0	885.1	885.3	885.5	885.2	884.6	883.9	883.2	882.6
152.5°	899.3	899.1	899.4	899.7	899.9	900.2	900.1	899.6	899.1	898.5	898.0
155°	918.9	918.2	918.7	919.2	919.7	920.2	920.4	920.2	920.0	919.9	919.7
157.5°	935.8	935.0	935.5	936.1	936.7	937.2	937.6	937.7	937.8	937.9	938.0
160°	946.7	945.7	945.8	946.0	946.2	946.3	946.7	947.2	947.7	948.1	948.6
162.5°	955.6	954.6	954.7	954.9	955.1	955.2	955.6	956.3	956.9	957.5	958.1
165°	967.8	966.5	966.5	966.5	966.5	966.5	966.9	967.7	968.5	969.3	970.2
167.5°	976.8	975.4	975.5	975.6	975.7	975.8	976.2	977.1	978.0	978.8	979.7
170°	982.6	981.3	981.1	981.0	980.8	980.6	981.1	982.0	983.0	984.0	985.0
172.5°	986.2	984.9	984.7	984.5	984.4	984.2	984.6	985.6	986.6	987.6	988.6
175°	990.2	988.7	988.6	988.4	988.2	988.1	988.5	989.5	990.5	991.4	992.4
177.5°	992.3	991.2	991.0	990.7	990.5	990.2	990.5	991.4	992.4	993.3	994.2
180°	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4



TEST NUMBER: P332841

CATALOG NUMBER: S124DIW-S1195D770U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	1940.1	1946.5	1954.8	1968.9	1974.0	1980.4	1989.3	1988.7	1991.2	2000.8	2021.3
5°	1947.3	1972.1	1996.0	2024.8	2055.1	2075.1	2102.2	2119.0	2135.8	2157.3	2194.0
7.5°	1950.2	1989.5	2033.4	2083.9	2128.7	2180.5	2220.9	2258.9	2293.2	2338.7	2382.5
10°	1945.7	1998.4	2055.1	2119.0	2186.8	2244.3	2296.2	2355.3	2405.6	2460.7	2510.2
12.5°	1937.4	2001.0	2076.8	2148.4	2227.7	2312.7	2377.4	2437.1	2504.0	2567.4	2643.7
15°	1918.6	2005.6	2094.2	2188.4	2294.6	2392.8	2486.3	2563.7	2635.6	2730.6	2830.4
17.5°	1894.6	1988.5	2100.3	2214.3	2325.3	2437.6	2553.2	2669.6	2760.3	2878.3	2956.4
20°	1872.3	1980.9	2095.8	2231.6	2342.5	2482.3	2597.2	2709.8	2834.4	2951.7	3045.1
22.5°	1841.0	1959.8	2081.8	2216.9	2363.0	2502.7	2635.6	2757.7	2882.3	3009.9	3123.1
25°	1801.2	1909.0	2053.5	2206.8	2352.1	2503.8	2656.3	2809.6	2943.7	3078.7	3184.1
27.5°	1733.5	1869.6	2004.2	2162.4	2323.9	2495.5	2658.6	2819.0	2959.6	3070.5	3135.8
30°	1699.0	1817.2	1963.3	2122.2	2297.0	2481.5	2651.5	2808.8	2939.8	3028.4	3054.7
32.5°	1647.9	1769.9	1912.8	2077.5	2262.5	2452.1	2629.2	2777.5	2886.7	2933.2	2901.4
35°	1572.1	1682.3	1826.8	1995.2	2187.6	2389.6	2564.5	2689.8	2745.7	2701.8	2592.4
37.5°	1481.1	1590.3	1735.4	1900.9	2100.0	2305.3	2463.4	2553.6	2535.1	2425.9	2262.9
40°	1417.2	1519.4	1657.5	1836.3	2030.4	2236.4	2375.3	2424.0	2372.9	2216.4	2043.1
42.5°	1346.3	1445.9	1584.7	1757.1	1962.7	2152.7	2273.7	2277.7	2192.1	2005.0	1831.1
45°	1238.3	1333.3	1464.3	1643.9	1834.0	2012.8	2092.6	2053.5	1895.4	1715.0	1540.1
47.5°	1131.8	1214.2	1343.2	1513.8	1694.2	1844.8	1884.4	1814.0	1645.5	1470.4	1308.3
50°	1053.9	1136.9	1258.3	1421.2	1595.2	1725.4	1744.5	1651.1	1485.8	1309.4	1182.4
52.5°	979.2	1061.6	1178.5	1329.2	1488.6	1605.9	1606.6	1498.5	1333.8	1176.5	1058.5
55°	869.5	943.7	1049.1	1184.0	1326.2	1418.0	1395.6	1283.8	1140.9	1004.4	901.4
57.5°	763.8	828.4	925.5	1038.1	1163.3	1239.0	1201.9	1094.3	966.7	850.9	772.9
60°	695.4	756.9	839.9	946.1	1051.5	1110.6	1075.5	978.1	860.7	767.3	699.4
62.5°	629.0	680.9	760.7	852.9	950.6	994.3	963.0	866.9	765.5	681.0	626.0
65°	534.9	577.3	641.1	720.2	791.2	828.8	802.4	713.0	635.5	574.9	530.9
67.5°	447.1	480.2	528.5	591.9	652.3	672.6	648.6	586.4	520.7	472.2	441.2
70°	386.4	417.6	458.3	507.0	559.7	581.2	557.3	507.8	454.3	409.6	379.2
72.5°	333.4	357.5	391.9	433.5	474.7	496.3	480.0	432.4	387.2	354.0	328.1
75°	253.9	274.7	298.6	328.1	360.1	374.5	360.1	327.3	296.2	271.5	253.1
77.5°	184.6	195.8	214.3	236.3	256.3	267.3	254.9	232.7	213.7	196.7	187.6
80°	140.5	148.5	161.3	178.8	192.4	202.8	194.8	176.4	161.3	150.1	146.1
82.5°	102.2	107.6	115.9	129.0	138.1	143.4	139.9	126.6	120.4	110.5	106.5
85°	50.3	53.5	59.1	63.1	71.1	71.9	72.7	67.1	61.5	59.1	55.9
87.5°	18.1	19.1	21.3	23.6	26.5	27.4	27.0	27.3	25.0	24.5	22.2
90°	4.0	5.9	7.7	9.5	11.1	12.4	13.7	15.0	16.3	17.3	18.3
92.5°	9.5	9.6	9.6	9.7	10.5	11.8	13.1	14.4	15.7	16.7	17.7
95°	35.2	29.6	24.0	18.4	15.7	15.8	16.0	16.2	16.3	17.3	18.3
97.5°	90.2	93.7	97.2	100.7	93.2	74.8	56.4	38.0	19.6	19.7	19.8
100°	124.7	127.7	130.6	133.6	123.7	101.0	78.2	55.4	32.7	29.9	27.1
102.5°	163.1	165.3	167.5	169.6	169.2	166.3	163.3	160.3	157.4	127.1	96.9
105°	224.4	225.4	226.4	227.4	228.3	229.1	229.9	230.8	231.6	233.1	234.6
107.5°	282.0	282.5	283.0	283.5	284.3	285.4	286.5	287.6	288.7	289.5	290.2
110°	321.2	321.7	322.2	322.6	323.4	324.4	325.4	326.4	327.3	327.7	328.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	359.6	360.5	361.3	362.2	362.9	363.4	363.8	364.3	364.8	364.7	364.6
115°	417.7	418.2	418.6	419.1	419.3	419.1	419.0	418.8	418.6	419.0	419.3
117.5°	470.5	471.2	471.8	472.5	473.0	473.4	473.7	474.1	474.5	474.4	474.3
120°	506.2	506.8	507.5	508.1	508.4	508.2	508.1	507.9	507.7	508.1	508.4
122.5°	539.1	539.5	539.9	540.3	540.6	540.9	541.1	541.3	541.6	541.8	542.0
125°	587.1	587.7	588.4	589.0	589.2	588.9	588.6	588.2	587.9	588.4	588.9
127.5°	631.7	631.9	632.0	632.2	632.7	633.4	634.2	634.9	635.7	635.6	635.5
130°	660.8	661.0	661.1	661.3	661.6	662.1	662.6	663.1	663.6	663.8	663.9
132.5°	687.7	688.0	688.2	688.5	689.0	689.6	690.3	690.9	691.5	691.7	691.8
135°	727.3	727.1	726.9	726.8	727.0	727.7	728.3	729.0	729.7	730.0	730.3
137.5°	763.0	763.1	763.1	763.2	763.6	764.3	765.0	765.8	766.5	766.8	767.2
140°	786.4	786.7	787.1	787.4	787.7	788.1	788.4	788.7	789.1	789.5	790.0
142.5°	807.5	808.1	808.6	809.2	809.6	809.8	810.0	810.2	810.4	810.8	811.2
145°	839.3	839.8	840.3	840.8	841.0	841.0	841.0	841.0	841.0	841.2	841.3
147.5°	865.1	866.0	866.9	867.9	868.2	868.1	867.9	867.7	867.6	867.7	867.8
150°	883.2	883.9	884.6	885.2	885.5	885.3	885.1	885.0	884.8	884.8	884.8
152.5°	898.5	899.1	899.6	900.1	900.2	899.9	899.7	899.4	899.1	899.3	899.6
155°	919.9	920.0	920.2	920.4	920.2	919.7	919.2	918.7	918.2	918.9	919.5
157.5°	937.9	937.8	937.7	937.6	937.2	936.7	936.1	935.5	935.0	935.8	936.7
160°	948.1	947.7	947.2	946.7	946.3	946.2	946.0	945.8	945.7	946.7	947.7
162.5°	957.5	956.9	956.3	955.6	955.2	955.1	954.9	954.7	954.6	955.6	956.6
165°	969.3	968.5	967.7	966.9	966.5	966.5	966.5	966.5	966.5	967.8	969.1
167.5°	978.8	978.0	977.1	976.2	975.8	975.7	975.6	975.5	975.4	976.8	978.3
170°	984.0	983.0	982.0	981.1	980.6	980.8	981.0	981.1	981.3	982.6	983.9
172.5°	987.6	986.6	985.6	984.6	984.2	984.4	984.5	984.7	984.9	986.2	987.5
175°	991.4	990.5	989.5	988.5	988.1	988.2	988.4	988.6	988.7	990.2	991.7
177.5°	993.3	992.4	991.4	990.5	990.2	990.5	990.7	991.0	991.2	992.3	993.4
180°	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4



TEST NUMBER: P332841

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	2031.5	2032.8	2038.5	2043.0	2044.3	2050.6	2051.3
5°	2210.0	2223.6	2249.9	2252.3	2256.3	2277.1	2261.1
7.5°	2419.2	2453.7	2476.7	2497.0	2504.3	2513.4	2511.5
10°	2553.3	2604.4	2630.0	2670.7	2672.3	2682.7	2676.3
12.5°	2688.1	2747.5	2794.1	2801.6	2835.8	2841.1	2850.0
15°	2879.1	2942.1	3006.8	3030.0	3077.1	3088.3	3105.8
17.5°	3058.6	3123.1	3168.4	3228.3	3247.6	3273.5	3255.9
20°	3156.9	3227.2	3284.7	3331.8	3351.7	3366.1	3364.5
22.5°	3216.3	3287.2	3333.8	3369.5	3388.1	3394.2	3393.9
25°	3253.5	3294.2	3308.6	3322.2	3301.4	3294.2	3297.4
27.5°	3150.1	3139.5	3102.0	3052.8	3001.7	2961.1	2939.1
30°	3007.6	2945.3	2888.7	2789.6	2738.6	2708.2	2681.1
32.5°	2805.8	2707.1	2598.0	2507.3	2449.2	2404.2	2397.5
35°	2459.9	2311.4	2178.1	2067.1	2009.6	1960.9	1949.7
37.5°	2091.4	1937.1	1817.0	1719.3	1657.5	1623.2	1591.1
40°	1846.7	1714.2	1596.0	1513.0	1465.9	1441.1	1421.2
42.5°	1658.3	1537.3	1419.7	1356.5	1313.9	1298.7	1287.0
45°	1398.0	1285.4	1204.0	1156.1	1131.3	1105.8	1093.8
47.5°	1189.6	1098.0	1044.3	1003.6	977.1	961.9	954.3
50°	1071.5	996.4	948.5	917.4	893.4	881.4	875.1
52.5°	966.7	905.1	864.8	840.1	823.8	815.0	812.5
55°	832.7	785.6	760.1	738.5	726.6	718.6	715.4
57.5°	723.8	687.6	666.8	649.1	644.5	637.8	635.5
60°	652.3	624.4	606.8	594.8	590.8	582.8	584.4
62.5°	589.1	566.2	551.2	544.4	539.1	532.4	534.6
65°	498.2	481.4	473.5	467.1	460.7	456.7	459.9
67.5°	418.0	406.6	395.7	392.0	388.8	388.2	384.8
70°	365.7	356.1	346.5	344.1	344.1	340.9	340.1
72.5°	315.2	308.2	301.8	300.0	297.5	298.8	295.4
75°	243.5	237.9	235.5	233.1	232.3	232.3	229.9
77.5°	180.0	175.8	172.0	172.0	169.1	168.0	167.7
80°	136.5	134.9	131.7	131.7	130.1	130.9	129.3
82.5°	102.7	100.4	99.8	98.5	96.3	96.4	94.9
85°	55.1	52.7	51.9	49.5	47.9	49.5	47.9
87.5°	23.0	22.6	22.1	20.9	20.3	20.4	18.5
90°	19.3	20.3	20.9	21.3	21.6	21.9	22.3
92.5°	18.7	19.7	20.2	20.3	20.4	20.4	20.5
95°	19.3	20.3	20.9	21.0	21.2	21.4	21.5
97.5°	19.9	20.0	20.1	20.3	20.5	20.6	20.8
100°	24.2	21.4	20.1	20.3	20.5	20.6	20.8
102.5°	66.6	36.4	21.2	21.3	21.3	21.3	21.4
105°	236.0	237.5	235.3	229.4	223.4	217.5	211.6
107.5°	290.9	291.7	292.3	293.0	293.6	294.2	294.8
110°	328.3	328.7	329.1	329.6	330.1	330.6	331.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	364.6	364.5	364.8	365.4	366.0	366.7	367.3
115°	419.6	420.0	420.1	420.1	420.1	420.1	420.1
117.5°	474.3	474.2	474.1	474.1	474.0	473.9	473.9
120°	508.7	509.0	509.0	508.7	508.4	508.1	507.7
122.5°	542.2	542.4	542.3	542.0	541.6	541.3	541.0
125°	589.4	589.9	590.2	590.4	590.5	590.7	590.9
127.5°	635.4	635.3	635.2	635.1	634.9	634.8	634.7
130°	664.1	664.3	664.3	664.3	664.3	664.3	664.3
132.5°	692.0	692.2	692.2	692.1	691.9	691.8	691.7
135°	730.7	731.0	731.3	731.6	732.0	732.3	732.6
137.5°	767.6	767.9	768.1	768.0	767.9	767.8	767.7
140°	790.5	791.0	791.4	791.5	791.7	791.9	792.0
142.5°	811.5	811.9	812.1	812.1	812.1	812.2	812.2
145°	841.5	841.7	841.9	842.2	842.6	842.9	843.2
147.5°	868.0	868.1	868.3	868.4	868.6	868.8	868.9
150°	884.8	884.8	884.9	885.1	885.2	885.4	885.5
152.5°	899.8	900.1	900.2	900.1	900.0	899.9	899.8
155°	920.2	920.8	920.9	920.4	919.9	919.4	919.0
157.5°	937.6	938.4	938.4	937.6	936.7	935.8	935.0
160°	948.6	949.6	949.6	948.6	947.7	946.7	945.7
162.5°	957.5	958.5	958.5	957.4	956.2	955.1	954.0
165°	970.4	971.7	971.7	970.2	968.7	967.2	965.7
167.5°	979.7	981.2	981.1	979.4	977.8	976.1	974.5
170°	985.3	986.6	986.4	984.8	983.1	981.5	979.8
172.5°	988.8	990.1	989.9	988.1	986.4	984.6	982.8
175°	993.2	994.7	994.4	992.4	990.5	988.5	986.5
177.5°	994.4	995.5	995.2	993.6	992.0	990.5	988.9
180°	992.4	992.4	992.4	992.4	992.4	992.4	992.4

(END OF REPORT)