

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: P332836-930

Luminaire Tested: **S124DIW-S1195D470U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332836-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIW-S1195D470U930-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 470 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5662.2 lumens
Efficiency: N/A
Efficacy: 108.1 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

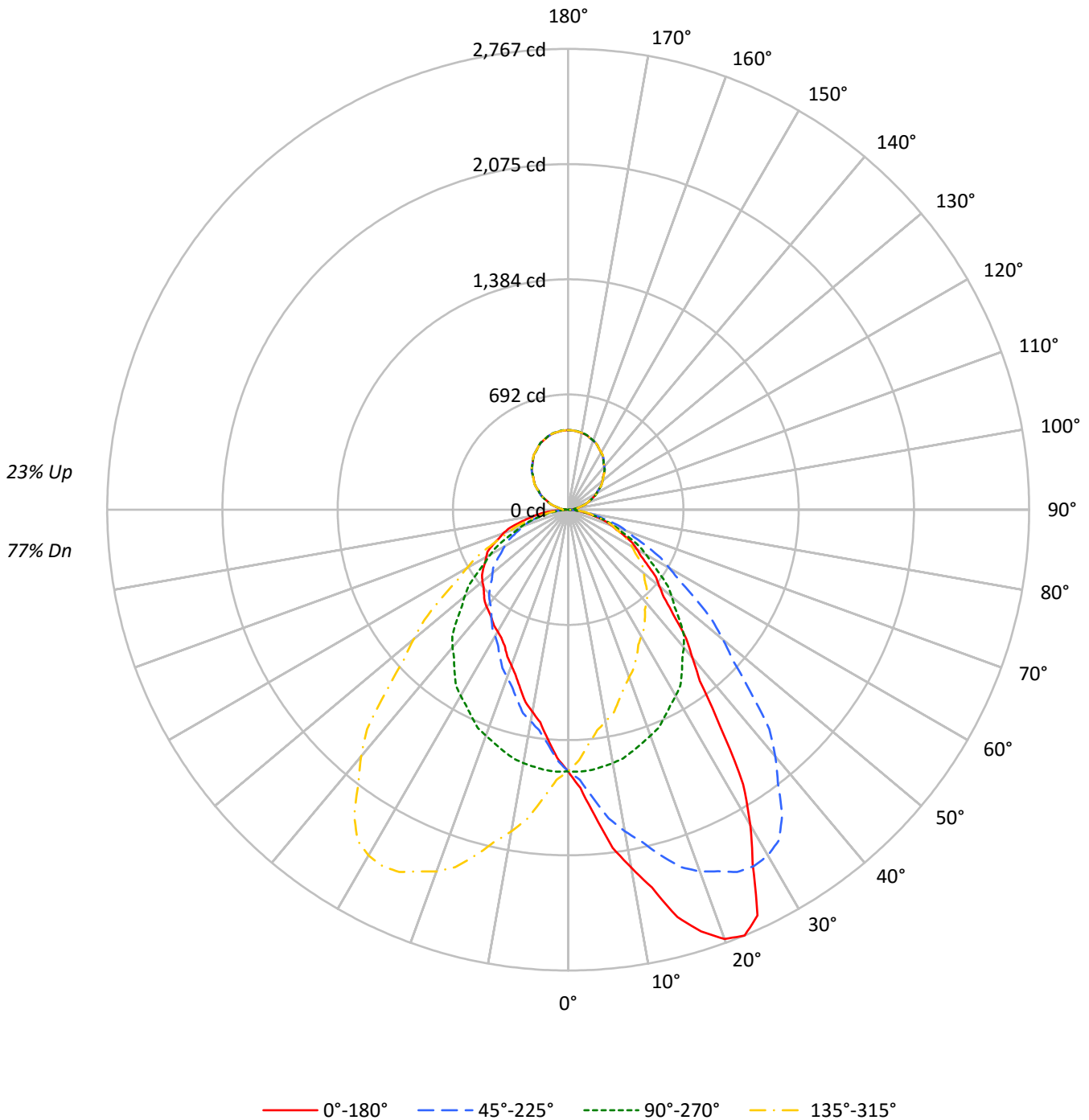
Input Watts (W): 52.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	113	113	113	108	108	108	108	98	98	98	89	89	89	81	81	81	77
1	104	100	96	92	99	95	92	89	87	84	82	79	77	75	72	70	69	65
2	95	88	81	76	90	84	78	73	76	72	68	70	66	63	64	61	58	55
3	87	77	70	64	83	74	67	62	68	62	58	62	58	54	57	53	50	47
4	80	69	61	54	76	66	59	53	61	54	50	56	51	47	51	47	44	41
5	74	62	53	47	70	59	51	46	54	48	43	50	45	41	46	42	38	36
6	68	56	47	41	65	53	46	40	49	43	38	45	40	36	42	37	34	31
7	63	50	42	36	60	49	41	36	45	38	34	42	36	32	38	34	30	28
8	59	46	38	33	56	44	37	32	41	35	30	38	33	29	35	31	27	25
9	55	42	34	29	52	41	33	29	38	32	27	35	30	26	33	28	25	23
10	51	39	31	26	49	38	31	26	35	29	25	33	27	24	30	26	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12686	12686	12686	12686
5°	14939	12719	11225	12719
10°	17887	12663	10107	12663
15°	21163	12534	9281	12534
20°	23566	12404	8546	12404
25°	23947	12211	8036	12211
30°	20377	12027	7876	12027
35°	15666	11727	7877	11727
40°	12211	11374	8026	11374
45°	10182	10843	8161	10843
50°	8961	10194	8437	10194
55°	8210	9419	8777	9419
60°	7694	8724	9185	8724
65°	7163	7947	9524	7947
70°	6545	7176	9741	7176
75°	5845	6313	9623	6313
80°	4900	5174	9321	5174
85°	3622	3742	8929	3742



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.1	2.7
10°-20°	471.9	8.3
20°-30°	748.2	13.2
30°-40°	832.7	14.7
40°-50°	758.0	13.4
50°-60°	619.4	10.9
60°-70°	442.2	7.8
70°-80°	243.5	4.3
80°-90°	67.9	1.2
90°-100°	31.5	0.6
100°-110°	93.3	1.6
110°-120°	158.4	2.8
120°-130°	208.9	3.7
130°-140°	234.6	4.1
140°-150°	230.5	4.1
150°-160°	193.9	3.4
160°-170°	129.0	2.3
170°-180°	45.2	0.8
0°-30°	1373.2	24.3
0°-40°	2205.9	39.0
0°-60°	3583.3	63.3
0°-90°	4336.9	76.6
90°-120°	283.3	5.0
90°-150°	957.2	16.9
90°-180°	1325.0	23.4
0°-180°	5662.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1571	1571	1571	1571	1571	
5°	1844	1570	1385	1570	1844	187
15°	2532	1500	1110	1500	2532	715
25°	2688	1371	902	1371	2688	1185
35°	1590	1190	799	1190	1590	1009
45°	892	950	715	950	892	703
55°	583	669	624	669	583	527
65°	375	416	499	416	375	371
75°	187	202	308	202	187	199
85°	39	40	96	40	39	48
90°	11	1	11	1	11	7
95°	29	22	29	22	29	30
105°	90	86	90	86	90	95
115°	160	161	160	161	160	158
125°	233	235	233	235	233	208
135°	303	303	303	303	303	234
145°	368	368	368	368	368	230
155°	421	421	421	421	421	194
165°	457	458	457	458	457	129
175°	475	477	475	477	475	45
180°	478	478	478	478	478	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4
2.5°	1672.4	1671.9	1666.7	1665.7	1662.0	1657.3	1656.3	1648.0	1631.3	1623.4	1621.4
5°	1843.5	1856.5	1839.6	1836.3	1834.3	1812.9	1801.8	1788.8	1758.8	1741.3	1727.6
7.5°	2047.6	2049.2	2041.8	2035.8	2019.3	2000.5	1972.4	1942.5	1906.7	1869.6	1841.7
10°	2182.0	2187.2	2178.7	2177.4	2144.2	2123.4	2081.7	2046.6	2006.2	1961.3	1920.3
12.5°	2323.6	2316.3	2312.0	2284.1	2278.0	2240.0	2191.6	2155.4	2093.2	2041.5	1987.0
15°	2532.2	2517.9	2508.8	2470.4	2451.4	2398.7	2347.3	2307.6	2226.3	2148.8	2090.2
17.5°	2654.5	2668.9	2647.8	2632.0	2583.2	2546.3	2493.7	2410.4	2346.7	2250.5	2176.5
20°	2743.1	2744.4	2732.6	2716.4	2678.0	2631.1	2573.8	2482.7	2406.5	2310.9	2209.3
22.5°	2767.0	2767.3	2762.3	2747.2	2718.0	2680.1	2622.2	2546.3	2454.0	2349.9	2248.4
25°	2688.4	2685.8	2691.6	2708.6	2697.5	2685.8	2652.6	2596.0	2510.1	2400.0	2290.7
27.5°	2396.2	2414.2	2447.3	2488.9	2529.1	2559.6	2568.3	2556.6	2503.4	2413.0	2298.3
30°	2185.9	2208.0	2232.8	2274.4	2355.2	2401.3	2452.1	2490.5	2469.1	2396.8	2290.0
32.5°	1954.7	1960.1	1996.8	2044.2	2118.1	2207.1	2287.6	2365.5	2391.4	2353.5	2264.5
35°	1589.6	1598.7	1638.4	1685.3	1775.8	1884.5	2005.6	2113.6	2202.8	2238.6	2193.0
37.5°	1297.2	1323.4	1351.4	1401.7	1481.4	1579.3	1705.1	1844.9	1977.8	2066.9	2081.9
40°	1158.7	1174.9	1195.1	1233.5	1301.2	1397.6	1505.6	1665.7	1807.0	1934.6	1976.3
42.5°	1049.3	1058.8	1071.2	1106.0	1157.5	1253.4	1352.0	1492.9	1634.7	1787.2	1857.0
45°	891.8	901.6	922.3	942.6	981.6	1048.0	1139.8	1255.6	1398.2	1545.3	1674.2
47.5°	778.0	784.2	796.6	818.2	851.4	895.2	969.9	1066.7	1198.8	1341.6	1479.0
50°	713.5	718.6	728.4	748.0	773.3	812.4	873.6	964.0	1067.6	1211.4	1346.1
52.5°	662.4	664.5	671.6	684.9	705.1	737.9	788.1	863.0	959.2	1087.4	1221.7
55°	583.3	585.9	592.4	602.1	619.7	640.5	678.9	734.9	818.9	930.2	1046.7
57.5°	518.1	520.0	525.5	529.2	543.6	560.6	590.1	630.1	693.7	788.1	892.2
60°	476.5	475.2	481.7	484.9	494.7	509.1	531.8	570.2	625.6	701.7	797.4
62.5°	435.9	434.1	439.5	443.8	449.4	461.6	480.3	510.4	555.2	624.1	706.8
65°	375.0	372.3	375.6	380.8	386.0	392.5	406.2	432.8	468.7	518.1	581.3
67.5°	313.7	316.5	317.0	319.6	322.6	331.5	340.8	359.7	385.0	424.5	478.1
70°	277.3	277.9	280.5	280.5	282.5	290.3	298.2	309.2	333.9	370.4	414.0
72.5°	240.8	243.6	242.6	244.6	246.1	251.3	257.0	267.5	288.6	315.7	352.5
75°	187.4	189.4	189.4	190.0	192.0	194.0	198.5	206.4	221.4	241.5	266.8
77.5°	136.7	137.0	137.9	140.2	140.2	143.3	146.8	153.0	160.4	174.2	189.7
80°	105.4	106.7	106.1	107.4	107.4	110.0	111.3	119.1	122.4	131.5	143.8
82.5°	77.4	78.6	78.5	80.3	81.4	81.9	83.7	86.8	90.1	98.2	103.2
85°	39.1	40.4	39.1	40.4	42.3	43.0	44.9	45.6	48.2	50.1	54.7
87.5°	13.7	15.2	15.2	15.7	16.6	17.1	17.5	17.0	18.9	19.3	21.3
90°	11.1	10.9	10.8	10.6	10.4	10.1	9.6	9.1	8.6	8.2	7.5
92.5°	16.4	16.3	16.2	16.1	16.0	15.8	15.5	15.2	14.9	14.6	14.2
95°	29.2	29.2	29.2	29.2	29.2	29.0	28.8	28.5	28.3	28.0	27.5
97.5°	45.7	45.7	45.7	45.7	45.7	45.6	45.3	45.0	44.7	44.4	43.7
100°	57.2	57.2	57.2	57.2	57.2	57.2	57.0	56.8	56.7	56.5	55.8
102.5°	70.3	70.2	70.1	70.0	70.0	69.9	69.6	69.4	69.1	69.0	68.2
105°	90.2	89.9	89.7	89.4	89.2	88.9	88.7	88.5	88.1	87.9	87.6
107.5°	109.5	109.5	109.6	109.6	109.6	109.5	109.3	109.0	108.8	108.5	108.5
110°	123.4	123.1	122.9	122.6	122.4	122.4	122.5	122.7	122.9	123.0	123.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	137.5	137.5	137.5	137.5	137.4	137.4	137.4	137.5	137.5	137.5	137.6
115°	159.6	159.7	159.8	159.9	160.0	160.0	160.1	160.2	160.3	160.4	160.5
117.5°	180.6	180.8	180.9	181.1	181.2	181.5	181.7	182.1	182.3	182.5	182.7
120°	196.6	196.4	196.2	196.1	195.9	196.0	196.4	196.8	197.2	197.6	197.9
122.5°	209.9	210.1	210.4	210.8	211.0	211.3	211.6	211.9	212.1	212.5	212.5
125°	232.8	232.9	233.1	233.3	233.4	233.6	233.7	233.9	234.1	234.2	234.3
127.5°	254.0	254.1	254.2	254.4	254.5	254.6	254.8	254.9	255.1	255.3	255.4
130°	267.8	268.2	268.5	268.8	269.1	269.4	269.5	269.7	269.9	270.0	270.0
132.5°	282.7	282.7	282.9	283.0	283.2	283.3	283.5	283.6	283.8	284.0	284.1
135°	303.0	303.2	303.5	303.7	303.9	304.1	304.3	304.4	304.6	304.8	304.8
137.5°	324.3	324.2	324.2	324.2	324.1	324.2	324.4	324.6	324.8	325.1	324.9
140°	337.3	337.4	337.5	337.5	337.6	337.7	337.8	337.9	337.9	338.0	338.0
142.5°	350.3	350.3	350.3	350.3	350.3	350.4	350.4	350.4	350.4	350.4	350.5
145°	367.9	368.2	368.4	368.7	368.9	369.1	369.2	369.2	369.3	369.4	369.3
147.5°	385.9	386.0	386.0	386.1	386.2	386.3	386.3	386.4	386.5	386.5	386.6
150°	396.8	396.9	397.0	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1
152.5°	406.8	407.1	407.2	407.5	407.6	407.7	407.5	407.3	407.1	406.9	406.8
155°	420.8	421.1	421.4	421.8	422.1	422.1	421.8	421.4	421.1	420.8	420.9
157.5°	433.3	433.6	433.8	434.1	434.4	434.4	434.1	433.9	433.7	433.4	433.4
160°	440.3	440.8	441.2	441.6	442.1	442.1	441.9	441.6	441.4	441.2	441.2
162.5°	447.8	448.2	448.6	449.0	449.4	449.4	449.0	448.5	448.1	447.6	447.7
165°	457.4	457.7	458.0	458.4	458.7	458.6	458.1	457.6	457.1	456.6	456.8
167.5°	464.2	464.7	465.3	465.8	466.3	466.3	465.8	465.3	464.8	464.3	464.3
170°	468.1	468.6	469.2	469.8	470.3	470.4	469.9	469.4	469.0	468.5	468.4
172.5°	471.3	471.9	472.5	473.0	473.6	473.6	473.1	472.5	472.0	471.4	471.4
175°	474.7	475.3	475.9	476.5	477.0	477.0	476.5	475.9	475.3	474.7	474.8
177.5°	476.5	477.0	477.6	478.1	478.6	478.7	478.2	477.8	477.3	476.8	476.8
180°	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4
2.5°	1621.9	1614.6	1609.4	1605.2	1593.7	1587.0	1581.8	1574.5	1566.2	1557.3	1546.4
5°	1713.9	1691.8	1675.5	1650.8	1627.3	1607.9	1587.6	1569.5	1547.3	1523.2	1505.6
7.5°	1810.7	1777.8	1735.5	1699.0	1657.8	1622.0	1590.0	1557.2	1523.1	1490.0	1459.7
10°	1872.1	1829.8	1782.9	1727.6	1675.5	1629.3	1586.3	1544.7	1504.3	1464.0	1429.5
12.5°	1938.3	1885.5	1816.2	1751.6	1693.2	1631.4	1579.6	1528.5	1479.8	1437.5	1397.2
15°	2027.1	1950.8	1870.8	1784.2	1707.4	1635.2	1564.2	1499.7	1445.1	1389.1	1350.1
17.5°	2081.6	1987.4	1895.8	1805.3	1712.4	1621.2	1544.7	1470.4	1401.9	1346.3	1297.1
20°	2117.5	2023.8	1909.8	1819.4	1708.7	1615.0	1526.5	1443.8	1372.2	1313.0	1262.2
22.5°	2148.8	2040.4	1926.6	1807.4	1697.3	1597.8	1501.0	1417.7	1344.6	1282.2	1233.5
25°	2165.7	2041.3	1917.7	1799.2	1674.2	1556.4	1468.5	1370.9	1292.7	1227.0	1174.9
27.5°	2167.6	2034.6	1894.7	1763.0	1634.0	1524.3	1413.3	1326.1	1245.0	1175.5	1125.5
30°	2161.8	2023.2	1872.7	1730.2	1600.7	1481.6	1385.2	1290.2	1207.5	1138.5	1086.4
32.5°	2143.6	1999.2	1844.6	1693.8	1559.5	1443.0	1343.5	1253.2	1172.6	1104.6	1049.9
35°	2090.8	1948.2	1783.5	1626.7	1489.4	1371.6	1281.7	1189.9	1109.2	1044.8	992.1
37.5°	2008.4	1879.5	1712.1	1549.8	1414.9	1296.6	1207.5	1124.5	1051.8	986.3	932.3
40°	1936.6	1823.3	1655.4	1497.1	1351.4	1238.8	1155.4	1079.3	1007.0	945.2	893.7
42.5°	1853.7	1755.1	1600.2	1432.6	1292.0	1178.8	1097.6	1029.2	961.2	904.0	852.6
45°	1706.1	1641.0	1495.3	1340.3	1193.8	1087.0	1009.6	949.7	892.4	836.5	793.5
47.5°	1536.4	1504.1	1381.3	1234.2	1095.1	989.9	922.8	867.5	817.2	769.8	731.9
50°	1422.3	1406.7	1300.6	1158.7	1025.9	926.9	859.2	811.7	768.7	727.1	691.3
52.5°	1309.9	1309.3	1213.7	1083.7	960.8	865.5	798.3	753.9	716.7	682.8	650.7
55°	1137.8	1156.1	1081.2	965.3	855.3	769.4	708.9	669.2	643.1	615.1	591.1
57.5°	979.9	1010.2	948.4	846.4	754.6	675.4	622.7	592.9	565.2	548.2	530.7
60°	876.9	905.5	857.3	771.4	684.8	617.1	567.0	540.3	516.2	504.5	492.1
62.5°	785.1	810.7	775.0	695.4	620.2	555.1	512.8	487.1	470.9	458.1	450.0
65°	654.2	675.7	645.1	587.2	522.7	470.7	436.1	416.0	400.3	395.1	386.0
67.5°	528.8	548.4	531.8	482.6	430.9	391.5	364.5	345.1	335.9	331.3	324.8
70°	454.4	473.9	456.3	413.4	373.7	340.5	315.0	304.0	294.2	292.3	283.2
72.5°	391.3	404.6	387.0	353.4	319.5	291.5	271.8	260.2	255.2	251.7	246.7
75°	293.6	305.3	293.6	267.5	243.4	224.0	207.0	202.4	196.6	194.6	191.4
77.5°	207.8	217.9	209.0	192.7	174.7	159.6	150.5	144.6	143.3	140.0	141.5
80°	158.8	165.3	156.9	145.8	131.5	121.1	114.5	111.3	107.4	106.1	108.7
82.5°	114.1	116.9	112.6	105.2	94.5	87.7	83.3	79.6	78.8	79.0	79.0
85°	59.3	58.6	58.0	51.4	48.2	43.6	41.0	40.4	39.7	41.0	42.3
87.5°	21.1	21.5	20.9	18.7	16.9	15.2	14.4	13.8	14.4	15.2	15.9
90°	6.8	6.2	5.5	4.7	3.8	2.9	2.0	1.1	2.0	2.9	3.8
92.5°	13.7	13.3	12.8	12.1	11.0	9.9	9.0	7.9	9.0	9.9	11.0
95°	26.9	26.3	25.8	25.1	24.4	23.6	22.9	22.2	22.9	23.6	24.4
97.5°	43.0	42.4	41.7	41.1	40.5	39.9	39.3	38.7	39.3	39.9	40.5
100°	55.0	54.3	53.6	53.1	52.7	52.3	52.0	51.7	52.0	52.3	52.7
102.5°	67.6	66.9	66.3	65.9	65.7	65.6	65.5	65.3	65.5	65.6	65.7
105°	87.2	86.9	86.6	86.4	86.3	86.3	86.2	86.1	86.2	86.3	86.3
107.5°	108.4	108.4	108.4	108.3	108.2	108.1	107.9	107.9	107.9	108.1	108.2
110°	123.2	123.3	123.4	123.3	123.1	122.9	122.8	122.6	122.8	122.9	123.1



TEST NUMBER: P332836-930

CATALOG NUMBER: S124DIW-S1195D470U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	137.8	137.9	138.1	138.2	138.1	138.1	138.0	138.0	138.0	138.1	138.1
115°	160.7	160.9	161.0	161.1	161.1	161.1	161.1	161.1	161.1	161.1	161.1
117.5°	182.8	183.0	183.0	183.0	183.0	183.0	182.9	182.8	182.9	183.0	183.0
120°	198.1	198.4	198.6	198.6	198.3	198.0	197.6	197.3	197.6	198.0	198.3
122.5°	212.6	212.8	212.9	212.9	212.7	212.6	212.5	212.4	212.5	212.6	212.7
125°	234.4	234.5	234.6	234.6	234.6	234.6	234.6	234.6	234.6	234.6	234.6
127.5°	255.5	255.7	255.8	255.8	255.5	255.3	255.0	254.8	255.0	255.3	255.5
130°	270.0	270.0	270.0	269.9	269.7	269.5	269.2	269.0	269.2	269.5	269.7
132.5°	284.1	284.1	284.2	284.1	284.0	283.8	283.6	283.4	283.6	283.8	284.0
135°	304.8	304.8	304.8	304.5	304.0	303.5	303.0	302.6	303.0	303.5	304.0
137.5°	324.8	324.7	324.5	324.3	324.1	323.8	323.7	323.4	323.7	323.8	324.1
140°	338.0	338.0	338.0	337.9	337.8	337.6	337.5	337.3	337.5	337.6	337.8
142.5°	350.6	350.7	350.7	350.7	350.5	350.3	350.2	350.0	350.2	350.3	350.5
145°	369.2	369.2	369.1	368.9	368.6	368.3	367.9	367.6	367.9	368.3	368.6
147.5°	386.6	386.7	386.8	386.6	386.2	385.8	385.4	385.1	385.4	385.8	386.2
150°	397.1	397.1	397.1	397.0	396.6	396.3	396.0	395.7	396.0	396.3	396.6
152.5°	406.8	406.7	406.7	406.5	406.3	406.1	405.9	405.7	405.9	406.1	406.3
155°	420.9	421.0	421.1	421.2	421.2	421.2	421.2	421.2	421.2	421.2	421.2
157.5°	433.5	433.5	433.5	433.6	433.7	433.9	434.0	434.1	434.0	433.9	433.7
160°	441.3	441.4	441.5	441.6	441.6	441.7	441.8	441.9	441.8	441.7	441.6
162.5°	447.8	447.8	447.9	448.1	448.3	448.5	448.7	449.0	448.7	448.5	448.3
165°	457.0	457.1	457.3	457.5	457.7	458.0	458.2	458.4	458.2	458.0	457.7
167.5°	464.3	464.2	464.2	464.4	464.8	465.1	465.5	465.8	465.5	465.1	464.8
170°	468.3	468.2	468.1	468.3	468.7	469.1	469.5	469.9	469.5	469.1	468.7
172.5°	471.4	471.3	471.3	471.5	471.9	472.2	472.5	472.9	472.5	472.2	471.9
175°	474.9	475.0	475.1	475.3	475.7	476.1	476.5	477.0	476.5	476.1	475.7
177.5°	476.8	476.8	476.8	477.0	477.3	477.6	477.9	478.3	477.9	477.6	477.3
180°	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7



TEST NUMBER: P332836-930

CATALOG NUMBER: S124DIW-S1195D470U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4
2.5°	1541.2	1536.5	1529.7	1520.4	1512.5	1504.2	1502.1	1499.0	1505.2	1500.1	1498.4
5°	1490.7	1477.0	1459.4	1439.2	1427.5	1410.6	1407.4	1400.8	1394.3	1393.7	1387.2
7.5°	1437.1	1417.1	1394.1	1373.5	1354.5	1336.0	1323.9	1321.3	1311.7	1306.0	1299.5
10°	1402.8	1378.0	1351.4	1331.9	1309.7	1290.2	1276.5	1268.7	1262.2	1255.0	1248.5
12.5°	1362.2	1335.9	1313.9	1292.7	1266.5	1251.6	1229.1	1215.6	1214.3	1214.4	1197.5
15°	1314.9	1288.9	1255.0	1225.1	1210.7	1182.1	1169.7	1154.1	1144.4	1134.6	1126.8
17.5°	1260.9	1228.5	1202.0	1167.7	1140.4	1117.5	1101.3	1091.9	1077.2	1063.4	1053.4
20°	1227.0	1192.5	1164.6	1128.0	1098.1	1070.2	1056.5	1043.5	1032.4	1020.7	1009.6
22.5°	1192.6	1156.6	1122.3	1087.0	1059.1	1029.6	1016.4	998.7	988.1	981.6	970.5
25°	1138.5	1099.4	1060.4	1026.5	997.9	971.8	954.3	940.6	928.9	923.7	916.6
27.5°	1079.6	1040.9	1003.1	964.7	932.1	913.3	899.2	888.9	882.2	875.2	872.0
30°	1042.2	1001.8	961.5	925.6	895.7	876.9	863.8	856.6	851.4	848.2	844.9
32.5°	1004.1	964.3	921.9	889.2	862.3	845.5	835.7	828.5	825.9	824.8	823.6
35°	943.2	902.9	863.8	834.5	809.1	802.6	794.2	790.3	789.0	793.5	795.5
37.5°	884.3	846.8	810.8	782.4	765.8	756.3	753.4	753.5	758.2	762.2	767.0
40°	846.2	809.8	775.9	751.2	735.6	729.7	728.4	731.6	736.9	741.4	746.7
42.5°	809.3	773.3	742.6	719.4	708.5	703.1	703.9	707.2	714.4	720.1	727.9
45°	751.9	721.9	691.9	673.1	664.0	665.3	665.3	671.2	678.2	686.7	695.2
47.5°	697.8	667.6	643.0	627.1	622.4	621.3	624.9	632.6	642.9	653.3	665.1
50°	661.4	632.8	611.2	596.9	591.7	593.7	598.8	606.0	618.4	631.4	643.8
52.5°	624.4	598.3	578.5	565.2	561.5	565.0	570.2	581.6	592.4	606.4	621.4
55°	567.0	544.9	529.2	519.4	518.1	520.1	525.9	538.3	553.9	571.5	585.9
57.5°	509.8	491.3	477.0	470.3	470.9	472.7	482.3	497.1	513.7	532.5	551.0
60°	471.2	454.4	442.6	437.4	438.1	442.0	453.7	467.4	488.2	506.5	525.9
62.5°	434.8	420.0	408.8	404.1	403.2	411.8	423.0	437.2	458.0	478.3	499.4
65°	376.3	364.5	355.4	352.8	354.7	361.3	375.6	394.4	412.1	433.5	455.7
67.5°	318.9	309.3	303.0	304.3	306.6	316.3	328.2	344.5	364.4	386.7	408.5
70°	282.5	273.4	268.2	268.8	272.7	284.5	294.9	311.1	332.6	355.4	373.7
72.5°	245.0	239.0	234.3	237.1	241.0	249.1	262.0	278.3	297.3	318.5	337.7
75°	188.1	188.1	185.5	187.4	193.3	201.1	210.9	227.8	246.7	263.7	279.2
77.5°	139.6	138.1	139.8	142.2	145.5	154.8	166.0	178.1	192.3	209.2	222.1
80°	106.7	107.4	110.6	114.5	115.9	123.0	134.8	145.8	156.9	171.2	183.6
82.5°	80.2	80.9	82.5	87.5	88.8	96.4	104.0	115.1	125.1	134.8	145.0
85°	43.6	43.6	46.9	48.8	52.1	57.3	61.8	68.3	77.5	84.0	93.8
87.5°	17.6	17.8	20.0	21.1	22.8	25.6	26.7	32.5	34.7	37.4	42.2
90°	4.7	5.5	6.2	6.8	7.5	8.2	8.6	9.1	9.6	10.1	10.4
92.5°	12.1	12.8	13.3	13.7	14.2	14.6	14.9	15.2	15.5	15.8	16.0
95°	25.1	25.8	26.3	26.9	27.5	28.0	28.3	28.5	28.8	29.0	29.2
97.5°	41.1	41.7	42.4	43.0	43.7	44.4	44.7	45.0	45.3	45.6	45.7
100°	53.1	53.6	54.3	55.0	55.8	56.5	56.7	56.8	57.0	57.2	57.2
102.5°	65.9	66.3	66.9	67.6	68.2	69.0	69.1	69.4	69.6	69.9	70.0
105°	86.4	86.6	86.9	87.2	87.6	87.9	88.1	88.5	88.7	88.9	89.2
107.5°	108.3	108.4	108.4	108.4	108.5	108.5	108.8	109.0	109.3	109.5	109.6
110°	123.3	123.4	123.3	123.2	123.1	123.0	122.9	122.7	122.5	122.4	122.4



TEST NUMBER: P332836-930

CATALOG NUMBER: S124DIW-S1195D470U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	138.2	138.1	137.9	137.8	137.6	137.5	137.5	137.5	137.4	137.4	137.4
115°	161.1	161.0	160.9	160.7	160.5	160.4	160.3	160.2	160.1	160.0	160.0
117.5°	183.0	183.0	183.0	182.8	182.7	182.5	182.3	182.1	181.7	181.5	181.2
120°	198.6	198.6	198.4	198.1	197.9	197.6	197.2	196.8	196.4	196.0	195.9
122.5°	212.9	212.9	212.8	212.6	212.5	212.5	212.1	211.9	211.6	211.3	211.0
125°	234.6	234.6	234.5	234.4	234.3	234.2	234.1	233.9	233.7	233.6	233.4
127.5°	255.8	255.8	255.7	255.5	255.4	255.3	255.1	254.9	254.8	254.6	254.5
130°	269.9	270.0	270.0	270.0	270.0	270.0	269.9	269.7	269.5	269.4	269.1
132.5°	284.1	284.2	284.1	284.1	284.1	284.0	283.8	283.6	283.5	283.3	283.2
135°	304.5	304.8	304.8	304.8	304.8	304.8	304.6	304.4	304.3	304.1	303.9
137.5°	324.3	324.5	324.7	324.8	324.9	325.1	324.8	324.6	324.4	324.2	324.1
140°	337.9	338.0	338.0	338.0	338.0	338.0	337.9	337.9	337.8	337.7	337.6
142.5°	350.7	350.7	350.7	350.6	350.5	350.4	350.4	350.4	350.4	350.4	350.3
145°	368.9	369.1	369.2	369.2	369.3	369.4	369.3	369.2	369.2	369.1	368.9
147.5°	386.6	386.8	386.7	386.6	386.6	386.5	386.5	386.4	386.3	386.3	386.2
150°	397.0	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1
152.5°	406.5	406.7	406.7	406.8	406.8	406.9	407.1	407.3	407.5	407.7	407.6
155°	421.2	421.1	421.0	420.9	420.9	420.8	421.1	421.4	421.8	422.1	422.1
157.5°	433.6	433.5	433.5	433.5	433.4	433.4	433.7	433.9	434.1	434.4	434.4
160°	441.6	441.5	441.4	441.3	441.2	441.2	441.4	441.6	441.9	442.1	442.1
162.5°	448.1	447.9	447.8	447.8	447.7	447.6	448.1	448.5	449.0	449.4	449.4
165°	457.5	457.3	457.1	457.0	456.8	456.6	457.1	457.6	458.1	458.6	458.7
167.5°	464.4	464.2	464.2	464.3	464.3	464.3	464.8	465.3	465.8	466.3	466.3
170°	468.3	468.1	468.2	468.3	468.4	468.5	469.0	469.4	469.9	470.4	470.3
172.5°	471.5	471.3	471.3	471.4	471.4	471.4	472.0	472.5	473.1	473.6	473.6
175°	475.3	475.1	475.0	474.9	474.8	474.7	475.3	475.9	476.5	477.0	477.0
177.5°	477.0	476.8	476.8	476.8	476.8	476.8	477.3	477.8	478.2	478.7	478.6
180°	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7



TEST NUMBER: P332836-930

CATALOG NUMBER: S124DIW-S1195D470U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4
2.5°	1497.5	1496.4	1492.7	1492.2	1492.7	1496.4	1497.5	1498.4	1500.1	1505.2	1499.0
5°	1383.2	1380.0	1378.0	1385.2	1378.0	1380.0	1383.2	1387.2	1393.7	1394.3	1400.8
7.5°	1297.2	1294.6	1288.9	1287.0	1288.9	1294.6	1297.2	1299.5	1306.0	1311.7	1321.3
10°	1242.0	1239.4	1234.2	1232.9	1234.2	1239.4	1242.0	1248.5	1255.0	1262.2	1268.7
12.5°	1188.9	1183.7	1182.7	1184.0	1182.7	1183.7	1188.9	1197.5	1214.4	1214.3	1215.6
15°	1118.3	1115.7	1108.6	1110.5	1108.6	1115.7	1118.3	1126.8	1134.6	1144.4	1154.1
17.5°	1048.8	1045.7	1037.0	1044.6	1037.0	1045.7	1048.8	1053.4	1063.4	1077.2	1091.9
20°	1005.0	999.9	995.3	994.7	995.3	999.9	1005.0	1009.6	1020.7	1032.4	1043.5
22.5°	963.4	958.7	958.3	954.1	958.3	958.7	963.4	970.5	981.6	988.1	998.7
25°	911.3	906.8	905.5	902.2	905.5	906.8	911.3	916.6	923.7	928.9	940.6
27.5°	871.4	869.1	866.8	867.8	866.8	869.1	871.4	872.0	875.2	882.2	888.9
30°	846.9	846.2	844.9	844.9	844.9	846.2	846.9	844.9	848.2	851.4	856.6
32.5°	826.6	826.5	827.2	827.2	827.2	826.5	826.6	823.6	824.8	825.9	828.5
35°	798.1	800.0	801.3	799.3	801.3	800.0	798.1	795.5	793.5	789.0	790.3
37.5°	772.3	774.2	776.1	778.3	776.1	774.2	772.3	767.0	762.2	758.2	753.5
40°	752.5	757.1	758.3	761.6	758.3	757.1	752.5	746.7	741.4	736.9	731.6
42.5°	733.8	738.8	742.2	742.8	742.2	738.8	733.8	727.9	720.1	714.4	707.2
45°	705.0	710.2	714.8	714.8	714.8	710.2	705.0	695.2	686.7	678.2	671.2
47.5°	675.1	682.7	687.3	688.4	687.3	682.7	675.1	665.1	653.3	642.9	632.6
50°	654.8	664.0	668.5	671.8	668.5	664.0	654.8	643.8	631.4	618.4	606.0
52.5°	635.0	644.2	650.3	652.0	650.3	644.2	635.0	621.4	606.4	592.4	581.6
55°	600.8	613.8	621.0	623.6	621.0	613.8	600.8	585.9	571.5	553.9	538.3
57.5°	568.5	580.5	588.8	590.8	588.8	580.5	568.5	551.0	532.5	513.7	497.1
60°	543.6	556.5	567.0	568.9	567.0	556.5	543.6	525.9	506.5	488.2	467.4
62.5°	518.0	531.6	541.0	546.0	541.0	531.6	518.0	499.4	478.3	458.0	437.2
65°	473.9	487.5	496.7	498.6	496.7	487.5	473.9	455.7	433.5	412.1	394.4
67.5°	425.7	439.4	445.4	449.1	445.4	439.4	425.7	408.5	386.7	364.4	344.5
70°	391.8	402.9	409.4	412.7	409.4	402.9	391.8	373.7	355.4	332.6	311.1
72.5°	353.4	364.9	372.5	373.1	372.5	364.9	353.4	337.7	318.5	297.3	278.3
75°	294.2	304.7	308.5	308.5	308.5	304.7	294.2	279.2	263.7	246.7	227.8
77.5°	232.9	238.2	243.2	244.3	243.2	238.2	232.9	222.1	209.2	192.3	178.1
80°	193.3	196.6	200.5	200.5	200.5	196.6	193.3	183.6	171.2	156.9	145.8
82.5°	152.7	155.5	159.4	158.8	159.4	155.5	152.7	145.0	134.8	125.1	115.1
85°	92.5	98.3	97.7	96.4	97.7	98.3	92.5	93.8	84.0	77.5	68.3
87.5°	43.8	44.4	45.9	47.0	45.9	44.4	43.8	42.2	37.4	34.7	32.5
90°	10.6	10.8	10.9	11.1	10.9	10.8	10.6	10.4	10.1	9.6	9.1
92.5°	16.1	16.2	16.3	16.4	16.3	16.2	16.1	16.0	15.8	15.5	15.2
95°	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.0	28.8	28.5
97.5°	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.6	45.3	45.0
100°	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.0	56.8
102.5°	70.0	70.1	70.2	70.3	70.2	70.1	70.0	70.0	69.9	69.6	69.4
105°	89.4	89.7	89.9	90.2	89.9	89.7	89.4	89.2	88.9	88.7	88.5
107.5°	109.6	109.6	109.5	109.5	109.5	109.6	109.6	109.6	109.5	109.3	109.0
110°	122.6	122.9	123.1	123.4	123.1	122.9	122.6	122.4	122.4	122.5	122.7



TEST NUMBER: P332836-930

CATALOG NUMBER: S124DIW-S1195D470U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	137.5	137.5	137.5	137.5	137.5	137.5	137.5	137.4	137.4	137.4	137.5
115°	159.9	159.8	159.7	159.6	159.7	159.8	159.9	160.0	160.0	160.1	160.2
117.5°	181.1	180.9	180.8	180.6	180.8	180.9	181.1	181.2	181.5	181.7	182.1
120°	196.1	196.2	196.4	196.6	196.4	196.2	196.1	195.9	196.0	196.4	196.8
122.5°	210.8	210.4	210.1	209.9	210.1	210.4	210.8	211.0	211.3	211.6	211.9
125°	233.3	233.1	232.9	232.8	232.9	233.1	233.3	233.4	233.6	233.7	233.9
127.5°	254.4	254.2	254.1	254.0	254.1	254.2	254.4	254.5	254.6	254.8	254.9
130°	268.8	268.5	268.2	267.8	268.2	268.5	268.8	269.1	269.4	269.5	269.7
132.5°	283.0	282.9	282.7	282.7	282.7	282.9	283.0	283.2	283.3	283.5	283.6
135°	303.7	303.5	303.2	303.0	303.2	303.5	303.7	303.9	304.1	304.3	304.4
137.5°	324.2	324.2	324.2	324.3	324.2	324.2	324.2	324.1	324.2	324.4	324.6
140°	337.5	337.5	337.4	337.3	337.4	337.5	337.5	337.6	337.7	337.8	337.9
142.5°	350.3	350.3	350.3	350.3	350.3	350.3	350.3	350.3	350.4	350.4	350.4
145°	368.7	368.4	368.2	367.9	368.2	368.4	368.7	368.9	369.1	369.2	369.2
147.5°	386.1	386.0	386.0	385.9	386.0	386.0	386.1	386.2	386.3	386.3	386.4
150°	397.1	397.0	396.9	396.8	396.9	397.0	397.1	397.1	397.1	397.1	397.1
152.5°	407.5	407.2	407.1	406.8	407.1	407.2	407.5	407.6	407.7	407.5	407.3
155°	421.8	421.4	421.1	420.8	421.1	421.4	421.8	422.1	422.1	421.8	421.4
157.5°	434.1	433.8	433.6	433.3	433.6	433.8	434.1	434.4	434.4	434.1	433.9
160°	441.6	441.2	440.8	440.3	440.8	441.2	441.6	442.1	442.1	441.9	441.6
162.5°	449.0	448.6	448.2	447.8	448.2	448.6	449.0	449.4	449.4	449.0	448.5
165°	458.4	458.0	457.7	457.4	457.7	458.0	458.4	458.7	458.6	458.1	457.6
167.5°	465.8	465.3	464.7	464.2	464.7	465.3	465.8	466.3	466.3	465.8	465.3
170°	469.8	469.2	468.6	468.1	468.6	469.2	469.8	470.3	470.4	469.9	469.4
172.5°	473.0	472.5	471.9	471.3	471.9	472.5	473.0	473.6	473.6	473.1	472.5
175°	476.5	475.9	475.3	474.7	475.3	475.9	476.5	477.0	477.0	476.5	475.9
177.5°	478.1	477.6	477.0	476.5	477.0	477.6	478.1	478.6	478.7	478.2	477.8
180°	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7



TEST NUMBER: P332836-930

CATALOG NUMBER: S124DIW-S1195D470U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4
2.5°	1502.1	1504.2	1512.5	1520.4	1529.7	1536.5	1541.2	1546.4	1557.3	1566.2	1574.5
5°	1407.4	1410.6	1427.5	1439.2	1459.4	1477.0	1490.7	1505.6	1523.2	1547.3	1569.5
7.5°	1323.9	1336.0	1354.5	1373.5	1394.1	1417.1	1437.1	1459.7	1490.0	1523.1	1557.2
10°	1276.5	1290.2	1309.7	1331.9	1351.4	1378.0	1402.8	1429.5	1464.0	1504.3	1544.7
12.5°	1229.1	1251.6	1266.5	1292.7	1313.9	1335.9	1362.2	1397.2	1437.5	1479.8	1528.5
15°	1169.7	1182.1	1210.7	1225.1	1255.0	1288.9	1314.9	1350.1	1389.1	1445.1	1499.7
17.5°	1101.3	1117.5	1140.4	1167.7	1202.0	1228.5	1260.9	1297.1	1346.3	1401.9	1470.4
20°	1056.5	1070.2	1098.1	1128.0	1164.6	1192.5	1227.0	1262.2	1313.0	1372.2	1443.8
22.5°	1016.4	1029.6	1059.1	1087.0	1122.3	1156.6	1192.6	1233.5	1282.2	1344.6	1417.7
25°	954.3	971.8	997.9	1026.5	1060.4	1099.4	1138.5	1174.9	1227.0	1292.7	1370.9
27.5°	899.2	913.3	932.1	964.7	1003.1	1040.9	1079.6	1125.5	1175.5	1245.0	1326.1
30°	863.8	876.9	895.7	925.6	961.5	1001.8	1042.2	1086.4	1138.5	1207.5	1290.2
32.5°	835.7	845.5	862.3	889.2	921.9	964.3	1004.1	1049.9	1104.6	1172.6	1253.2
35°	794.2	802.6	809.1	834.5	863.8	902.9	943.2	992.1	1044.8	1109.2	1189.9
37.5°	753.4	756.3	765.8	782.4	810.8	846.8	884.3	932.3	986.3	1051.8	1124.5
40°	728.4	729.7	735.6	751.2	775.9	809.8	846.2	893.7	945.2	1007.0	1079.3
42.5°	703.9	703.1	708.5	719.4	742.6	773.3	809.3	852.6	904.0	961.2	1029.2
45°	665.3	665.3	664.0	673.1	691.9	721.9	751.9	793.5	836.5	892.4	949.7
47.5°	624.9	621.3	622.4	627.1	643.0	667.6	697.8	731.9	769.8	817.2	867.5
50°	598.8	593.7	591.7	596.9	611.2	632.8	661.4	691.3	727.1	768.7	811.7
52.5°	570.2	565.0	561.5	565.2	578.5	598.3	624.4	650.7	682.8	716.7	753.9
55°	525.9	520.1	518.1	519.4	529.2	544.9	567.0	591.1	615.1	643.1	669.2
57.5°	482.3	472.7	470.9	470.3	477.0	491.3	509.8	530.7	548.2	565.2	592.9
60°	453.7	442.0	438.1	437.4	442.6	454.4	471.2	492.1	504.5	516.2	540.3
62.5°	423.0	411.8	403.2	404.1	408.8	420.0	434.8	450.0	458.1	470.9	487.1
65°	375.6	361.3	354.7	352.8	355.4	364.5	376.3	386.0	395.1	400.3	416.0
67.5°	328.2	316.3	306.6	304.3	303.0	309.3	318.9	324.8	331.3	335.9	345.1
70°	294.9	284.5	272.7	268.8	268.2	273.4	282.5	283.2	292.3	294.2	304.0
72.5°	262.0	249.1	241.0	237.1	234.3	239.0	245.0	246.7	251.7	255.2	260.2
75°	210.9	201.1	193.3	187.4	185.5	188.1	188.1	191.4	194.6	196.6	202.4
77.5°	166.0	154.8	145.5	142.2	139.8	138.1	139.6	141.5	140.0	143.3	144.6
80°	134.8	123.0	115.9	114.5	110.6	107.4	106.7	108.7	106.1	107.4	111.3
82.5°	104.0	96.4	88.8	87.5	82.5	80.9	80.2	79.0	79.0	78.8	79.6
85°	61.8	57.3	52.1	48.8	46.9	43.6	43.6	42.3	41.0	39.7	40.4
87.5°	26.7	25.6	22.8	21.1	20.0	17.8	17.6	15.9	15.2	14.4	13.8
90°	8.6	8.2	7.5	6.8	6.2	5.5	4.7	3.8	2.9	2.0	1.1
92.5°	14.9	14.6	14.2	13.7	13.3	12.8	12.1	11.0	9.9	9.0	7.9
95°	28.3	28.0	27.5	26.9	26.3	25.8	25.1	24.4	23.6	22.9	22.2
97.5°	44.7	44.4	43.7	43.0	42.4	41.7	41.1	40.5	39.9	39.3	38.7
100°	56.7	56.5	55.8	55.0	54.3	53.6	53.1	52.7	52.3	52.0	51.7
102.5°	69.1	69.0	68.2	67.6	66.9	66.3	65.9	65.7	65.6	65.5	65.3
105°	88.1	87.9	87.6	87.2	86.9	86.6	86.4	86.3	86.3	86.2	86.1
107.5°	108.8	108.5	108.5	108.4	108.4	108.4	108.3	108.2	108.1	107.9	107.9
110°	122.9	123.0	123.1	123.2	123.3	123.4	123.3	123.1	122.9	122.8	122.6



TEST NUMBER: P332836-930

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	137.5	137.5	137.6	137.8	137.9	138.1	138.2	138.1	138.1	138.0	138.0
115°	160.3	160.4	160.5	160.7	160.9	161.0	161.1	161.1	161.1	161.1	161.1
117.5°	182.3	182.5	182.7	182.8	183.0	183.0	183.0	183.0	183.0	182.9	182.8
120°	197.2	197.6	197.9	198.1	198.4	198.6	198.6	198.3	198.0	197.6	197.3
122.5°	212.1	212.5	212.5	212.6	212.8	212.9	212.9	212.7	212.6	212.5	212.4
125°	234.1	234.2	234.3	234.4	234.5	234.6	234.6	234.6	234.6	234.6	234.6
127.5°	255.1	255.3	255.4	255.5	255.7	255.8	255.8	255.5	255.3	255.0	254.8
130°	269.9	270.0	270.0	270.0	270.0	270.0	269.9	269.7	269.5	269.2	269.0
132.5°	283.8	284.0	284.1	284.1	284.1	284.2	284.1	284.0	283.8	283.6	283.4
135°	304.6	304.8	304.8	304.8	304.8	304.8	304.5	304.0	303.5	303.0	302.6
137.5°	324.8	325.1	324.9	324.8	324.7	324.5	324.3	324.1	323.8	323.7	323.4
140°	337.9	338.0	338.0	338.0	338.0	338.0	337.9	337.8	337.6	337.5	337.3
142.5°	350.4	350.4	350.5	350.6	350.7	350.7	350.7	350.5	350.3	350.2	350.0
145°	369.3	369.4	369.3	369.2	369.2	369.1	368.9	368.6	368.3	367.9	367.6
147.5°	386.5	386.5	386.6	386.6	386.7	386.8	386.6	386.2	385.8	385.4	385.1
150°	397.1	397.1	397.1	397.1	397.1	397.1	397.0	396.6	396.3	396.0	395.7
152.5°	407.1	406.9	406.8	406.8	406.7	406.7	406.5	406.3	406.1	405.9	405.7
155°	421.1	420.8	420.9	420.9	421.0	421.1	421.2	421.2	421.2	421.2	421.2
157.5°	433.7	433.4	433.4	433.5	433.5	433.5	433.6	433.7	433.9	434.0	434.1
160°	441.4	441.2	441.2	441.3	441.4	441.5	441.6	441.6	441.7	441.8	441.9
162.5°	448.1	447.6	447.7	447.8	447.8	447.9	448.1	448.3	448.5	448.7	449.0
165°	457.1	456.6	456.8	457.0	457.1	457.3	457.5	457.7	458.0	458.2	458.4
167.5°	464.8	464.3	464.3	464.3	464.2	464.2	464.4	464.8	465.1	465.5	465.8
170°	469.0	468.5	468.4	468.3	468.2	468.1	468.3	468.7	469.1	469.5	469.9
172.5°	472.0	471.4	471.4	471.4	471.3	471.3	471.5	471.9	472.2	472.5	472.9
175°	475.3	474.7	474.8	474.9	475.0	475.1	475.3	475.7	476.1	476.5	477.0
177.5°	477.3	476.8	476.8	476.8	476.8	476.8	477.0	477.3	477.6	477.9	478.3
180°	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7



TEST NUMBER: P332836-930

CATALOG NUMBER: S124DIW-S1195D470U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4
2.5°	1581.8	1587.0	1593.7	1605.2	1609.4	1614.6	1621.9	1621.4	1623.4	1631.3	1648.0
5°	1587.6	1607.9	1627.3	1650.8	1675.5	1691.8	1713.9	1727.6	1741.3	1758.8	1788.8
7.5°	1590.0	1622.0	1657.8	1699.0	1735.5	1777.8	1810.7	1841.7	1869.6	1906.7	1942.5
10°	1586.3	1629.3	1675.5	1727.6	1782.9	1829.8	1872.1	1920.3	1961.3	2006.2	2046.6
12.5°	1579.6	1631.4	1693.2	1751.6	1816.2	1885.5	1938.3	1987.0	2041.5	2093.2	2155.4
15°	1564.2	1635.2	1707.4	1784.2	1870.8	1950.8	2027.1	2090.2	2148.8	2226.3	2307.6
17.5°	1544.7	1621.2	1712.4	1805.3	1895.8	1987.4	2081.6	2176.5	2250.5	2346.7	2410.4
20°	1526.5	1615.0	1708.7	1819.4	1909.8	2023.8	2117.5	2209.3	2310.9	2406.5	2482.7
22.5°	1501.0	1597.8	1697.3	1807.4	1926.6	2040.4	2148.8	2248.4	2349.9	2454.0	2546.3
25°	1468.5	1556.4	1674.2	1799.2	1917.7	2041.3	2165.7	2290.7	2400.0	2510.1	2596.0
27.5°	1413.3	1524.3	1634.0	1763.0	1894.7	2034.6	2167.6	2298.3	2413.0	2503.4	2556.6
30°	1385.2	1481.6	1600.7	1730.2	1872.7	2023.2	2161.8	2290.0	2396.8	2469.1	2490.5
32.5°	1343.5	1443.0	1559.5	1693.8	1844.6	1999.2	2143.6	2264.5	2353.5	2391.4	2365.5
35°	1281.7	1371.6	1489.4	1626.7	1783.5	1948.2	2090.8	2193.0	2238.6	2202.8	2113.6
37.5°	1207.5	1296.6	1414.9	1549.8	1712.1	1879.5	2008.4	2081.9	2066.9	1977.8	1844.9
40°	1155.4	1238.8	1351.4	1497.1	1655.4	1823.3	1936.6	1976.3	1934.6	1807.0	1665.7
42.5°	1097.6	1178.8	1292.0	1432.6	1600.2	1755.1	1853.7	1857.0	1787.2	1634.7	1492.9
45°	1009.6	1087.0	1193.8	1340.3	1495.3	1641.0	1706.1	1674.2	1545.3	1398.2	1255.6
47.5°	922.8	989.9	1095.1	1234.2	1381.3	1504.1	1536.4	1479.0	1341.6	1198.8	1066.7
50°	859.2	926.9	1025.9	1158.7	1300.6	1406.7	1422.3	1346.1	1211.4	1067.6	964.0
52.5°	798.3	865.5	960.8	1083.7	1213.7	1309.3	1309.9	1221.7	1087.4	959.2	863.0
55°	708.9	769.4	855.3	965.3	1081.2	1156.1	1137.8	1046.7	930.2	818.9	734.9
57.5°	622.7	675.4	754.6	846.4	948.4	1010.2	979.9	892.2	788.1	693.7	630.1
60°	567.0	617.1	684.8	771.4	857.3	905.5	876.9	797.4	701.7	625.6	570.2
62.5°	512.8	555.1	620.2	695.4	775.0	810.7	785.1	706.8	624.1	555.2	510.4
65°	436.1	470.7	522.7	587.2	645.1	675.7	654.2	581.3	518.1	468.7	432.8
67.5°	364.5	391.5	430.9	482.6	531.8	548.4	528.8	478.1	424.5	385.0	359.7
70°	315.0	340.5	373.7	413.4	456.3	473.9	454.4	414.0	370.4	333.9	309.2
72.5°	271.8	291.5	319.5	353.4	387.0	404.6	391.3	352.5	315.7	288.6	267.5
75°	207.0	224.0	243.4	267.5	293.6	305.3	293.6	266.8	241.5	221.4	206.4
77.5°	150.5	159.6	174.7	192.7	209.0	217.9	207.8	189.7	174.2	160.4	153.0
80°	114.5	121.1	131.5	145.8	156.9	165.3	158.8	143.8	131.5	122.4	119.1
82.5°	83.3	87.7	94.5	105.2	112.6	116.9	114.1	103.2	98.2	90.1	86.8
85°	41.0	43.6	48.2	51.4	58.0	58.6	59.3	54.7	50.1	48.2	45.6
87.5°	14.4	15.2	16.9	18.7	20.9	21.5	21.1	21.3	19.3	18.9	17.0
90°	2.0	2.9	3.8	4.7	5.5	6.2	6.8	7.5	8.2	8.6	9.1
92.5°	9.0	9.9	11.0	12.1	12.8	13.3	13.7	14.2	14.6	14.9	15.2
95°	22.9	23.6	24.4	25.1	25.8	26.3	26.9	27.5	28.0	28.3	28.5
97.5°	39.3	39.9	40.5	41.1	41.7	42.4	43.0	43.7	44.4	44.7	45.0
100°	52.0	52.3	52.7	53.1	53.6	54.3	55.0	55.8	56.5	56.7	56.8
102.5°	65.5	65.6	65.7	65.9	66.3	66.9	67.6	68.2	69.0	69.1	69.4
105°	86.2	86.3	86.3	86.4	86.6	86.9	87.2	87.6	87.9	88.1	88.5
107.5°	107.9	108.1	108.2	108.3	108.4	108.4	108.4	108.5	108.5	108.8	109.0
110°	122.8	122.9	123.1	123.3	123.4	123.3	123.2	123.1	123.0	122.9	122.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	138.0	138.1	138.1	138.2	138.1	137.9	137.8	137.6	137.5	137.5	137.5
115°	161.1	161.1	161.1	161.1	161.0	160.9	160.7	160.5	160.4	160.3	160.2
117.5°	182.9	183.0	183.0	183.0	183.0	183.0	182.8	182.7	182.5	182.3	182.1
120°	197.6	198.0	198.3	198.6	198.6	198.4	198.1	197.9	197.6	197.2	196.8
122.5°	212.5	212.6	212.7	212.9	212.9	212.8	212.6	212.5	212.5	212.1	211.9
125°	234.6	234.6	234.6	234.6	234.6	234.5	234.4	234.3	234.2	234.1	233.9
127.5°	255.0	255.3	255.5	255.8	255.8	255.7	255.5	255.4	255.3	255.1	254.9
130°	269.2	269.5	269.7	269.9	270.0	270.0	270.0	270.0	270.0	269.9	269.7
132.5°	283.6	283.8	284.0	284.1	284.2	284.1	284.1	284.1	284.0	283.8	283.6
135°	303.0	303.5	304.0	304.5	304.8	304.8	304.8	304.8	304.8	304.6	304.4
137.5°	323.7	323.8	324.1	324.3	324.5	324.7	324.8	324.9	325.1	324.8	324.6
140°	337.5	337.6	337.8	337.9	338.0	338.0	338.0	338.0	338.0	337.9	337.9
142.5°	350.2	350.3	350.5	350.7	350.7	350.7	350.6	350.5	350.4	350.4	350.4
145°	367.9	368.3	368.6	368.9	369.1	369.2	369.2	369.3	369.4	369.3	369.2
147.5°	385.4	385.8	386.2	386.6	386.8	386.7	386.6	386.6	386.5	386.5	386.4
150°	396.0	396.3	396.6	397.0	397.1	397.1	397.1	397.1	397.1	397.1	397.1
152.5°	405.9	406.1	406.3	406.5	406.7	406.7	406.8	406.8	406.9	407.1	407.3
155°	421.2	421.2	421.2	421.2	421.1	421.0	420.9	420.9	420.8	421.1	421.4
157.5°	434.0	433.9	433.7	433.6	433.5	433.5	433.5	433.4	433.4	433.7	433.9
160°	441.8	441.7	441.6	441.6	441.5	441.4	441.3	441.2	441.2	441.4	441.6
162.5°	448.7	448.5	448.3	448.1	447.9	447.8	447.8	447.7	447.6	448.1	448.5
165°	458.2	458.0	457.7	457.5	457.3	457.1	457.0	456.8	456.6	457.1	457.6
167.5°	465.5	465.1	464.8	464.4	464.2	464.2	464.3	464.3	464.3	464.8	465.3
170°	469.5	469.1	468.7	468.3	468.1	468.2	468.3	468.4	468.5	469.0	469.4
172.5°	472.5	472.2	471.9	471.5	471.3	471.3	471.4	471.4	471.4	472.0	472.5
175°	476.5	476.1	475.7	475.3	475.1	475.0	474.9	474.8	474.7	475.3	475.9
177.5°	477.9	477.6	477.3	477.0	476.8	476.8	476.8	476.8	476.8	477.3	477.8
180°	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4
2.5°	1656.3	1657.3	1662.0	1665.7	1666.7	1671.9	1672.4
5°	1801.8	1812.9	1834.3	1836.3	1839.6	1856.5	1843.5
7.5°	1972.4	2000.5	2019.3	2035.8	2041.8	2049.2	2047.6
10°	2081.7	2123.4	2144.2	2177.4	2178.7	2187.2	2182.0
12.5°	2191.6	2240.0	2278.0	2284.1	2312.0	2316.3	2323.6
15°	2347.3	2398.7	2451.4	2470.4	2508.8	2517.9	2532.2
17.5°	2493.7	2546.3	2583.2	2632.0	2647.8	2668.9	2654.5
20°	2573.8	2631.1	2678.0	2716.4	2732.6	2744.4	2743.1
22.5°	2622.2	2680.1	2718.0	2747.2	2762.3	2767.3	2767.0
25°	2652.6	2685.8	2697.5	2708.6	2691.6	2685.8	2688.4
27.5°	2568.3	2559.6	2529.1	2488.9	2447.3	2414.2	2396.2
30°	2452.1	2401.3	2355.2	2274.4	2232.8	2208.0	2185.9
32.5°	2287.6	2207.1	2118.1	2044.2	1996.8	1960.1	1954.7
35°	2005.6	1884.5	1775.8	1685.3	1638.4	1598.7	1589.6
37.5°	1705.1	1579.3	1481.4	1401.7	1351.4	1323.4	1297.2
40°	1505.6	1397.6	1301.2	1233.5	1195.1	1174.9	1158.7
42.5°	1352.0	1253.4	1157.5	1106.0	1071.2	1058.8	1049.3
45°	1139.8	1048.0	981.6	942.6	922.3	901.6	891.8
47.5°	969.9	895.2	851.4	818.2	796.6	784.2	778.0
50°	873.6	812.4	773.3	748.0	728.4	718.6	713.5
52.5°	788.1	737.9	705.1	684.9	671.6	664.5	662.4
55°	678.9	640.5	619.7	602.1	592.4	585.9	583.3
57.5°	590.1	560.6	543.6	529.2	525.5	520.0	518.1
60°	531.8	509.1	494.7	484.9	481.7	475.2	476.5
62.5°	480.3	461.6	449.4	443.8	439.5	434.1	435.9
65°	406.2	392.5	386.0	380.8	375.6	372.3	375.0
67.5°	340.8	331.5	322.6	319.6	317.0	316.5	313.7
70°	298.2	290.3	282.5	280.5	280.5	277.9	277.3
72.5°	257.0	251.3	246.1	244.6	242.6	243.6	240.8
75°	198.5	194.0	192.0	190.0	189.4	189.4	187.4
77.5°	146.8	143.3	140.2	140.2	137.9	137.0	136.7
80°	111.3	110.0	107.4	107.4	106.1	106.7	105.4
82.5°	83.7	81.9	81.4	80.3	78.5	78.6	77.4
85°	44.9	43.0	42.3	40.4	39.1	40.4	39.1
87.5°	17.5	17.1	16.6	15.7	15.2	15.2	13.7
90°	9.6	10.1	10.4	10.6	10.8	10.9	11.1
92.5°	15.5	15.8	16.0	16.1	16.2	16.3	16.4
95°	28.8	29.0	29.2	29.2	29.2	29.2	29.2
97.5°	45.3	45.6	45.7	45.7	45.7	45.7	45.7
100°	57.0	57.2	57.2	57.2	57.2	57.2	57.2
102.5°	69.6	69.9	70.0	70.0	70.1	70.2	70.3
105°	88.7	88.9	89.2	89.4	89.7	89.9	90.2
107.5°	109.3	109.5	109.6	109.6	109.6	109.5	109.5
110°	122.5	122.4	122.4	122.6	122.9	123.1	123.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	137.4	137.4	137.4	137.5	137.5	137.5	137.5
115°	160.1	160.0	160.0	159.9	159.8	159.7	159.6
117.5°	181.7	181.5	181.2	181.1	180.9	180.8	180.6
120°	196.4	196.0	195.9	196.1	196.2	196.4	196.6
122.5°	211.6	211.3	211.0	210.8	210.4	210.1	209.9
125°	233.7	233.6	233.4	233.3	233.1	232.9	232.8
127.5°	254.8	254.6	254.5	254.4	254.2	254.1	254.0
130°	269.5	269.4	269.1	268.8	268.5	268.2	267.8
132.5°	283.5	283.3	283.2	283.0	282.9	282.7	282.7
135°	304.3	304.1	303.9	303.7	303.5	303.2	303.0
137.5°	324.4	324.2	324.1	324.2	324.2	324.2	324.3
140°	337.8	337.7	337.6	337.5	337.5	337.4	337.3
142.5°	350.4	350.4	350.3	350.3	350.3	350.3	350.3
145°	369.2	369.1	368.9	368.7	368.4	368.2	367.9
147.5°	386.3	386.3	386.2	386.1	386.0	386.0	385.9
150°	397.1	397.1	397.1	397.1	397.0	396.9	396.8
152.5°	407.5	407.7	407.6	407.5	407.2	407.1	406.8
155°	421.8	422.1	422.1	421.8	421.4	421.1	420.8
157.5°	434.1	434.4	434.4	434.1	433.8	433.6	433.3
160°	441.9	442.1	442.1	441.6	441.2	440.8	440.3
162.5°	449.0	449.4	449.4	449.0	448.6	448.2	447.8
165°	458.1	458.6	458.7	458.4	458.0	457.7	457.4
167.5°	465.8	466.3	466.3	465.8	465.3	464.7	464.2
170°	469.9	470.4	470.3	469.8	469.2	468.6	468.1
172.5°	473.1	473.6	473.6	473.0	472.5	471.9	471.3
175°	476.5	477.0	477.0	476.5	475.9	475.3	474.7
177.5°	478.2	478.7	478.6	478.1	477.6	477.0	476.5
180°	477.7	477.7	477.7	477.7	477.7	477.7	477.7

(END OF REPORT)