

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: P332679-930

Luminaire Tested: **S124DIP-S1195D590U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332679-930
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: S124DIP-S1195D590U930-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 590 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6260.7 lumens
Efficiency: N/A
Efficacy: 113.6 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

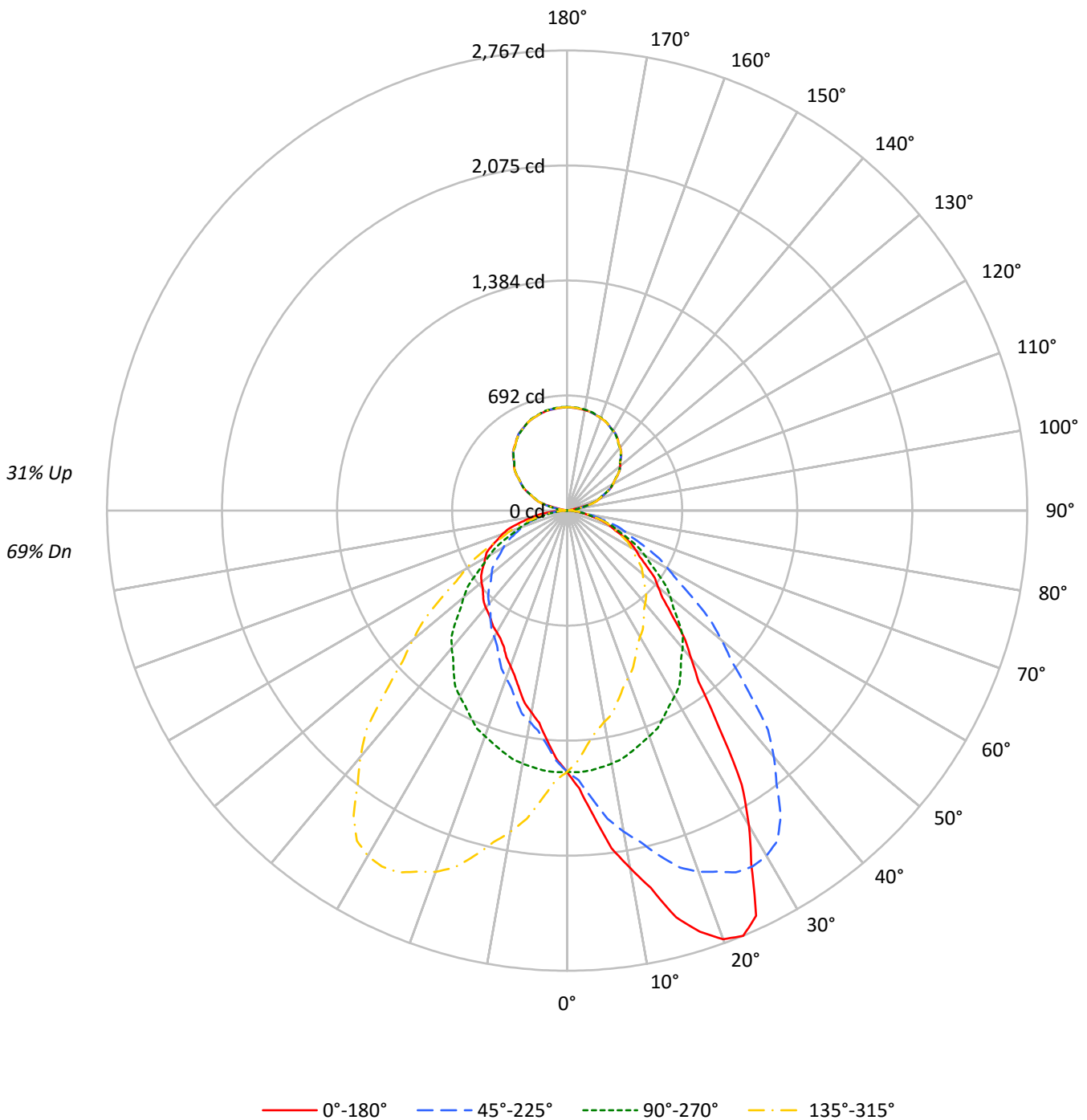
Input Watts (W): 55.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	69
1	102	98	94	91	97	93	89	86	83	80	78	74	72	70	66	64	63	59
2	94	86	80	75	88	82	76	71	73	69	65	65	62	59	58	56	54	50
3	86	76	69	63	81	72	65	60	65	60	55	58	54	50	52	49	46	43
4	78	68	59	53	74	64	57	51	58	52	47	52	47	44	47	43	40	37
5	72	60	52	46	68	58	50	44	52	46	41	47	42	38	42	38	35	32
6	67	54	46	40	63	52	44	39	47	41	36	43	37	34	38	34	31	28
7	62	49	41	36	58	47	40	34	43	37	32	39	34	30	35	31	28	25
8	58	45	37	32	54	43	36	31	39	33	29	36	30	27	32	28	25	23
9	54	41	34	28	51	39	32	28	36	30	26	33	28	24	30	26	22	20
10	50	38	31	26	48	36	29	25	33	27	23	30	25	22	28	24	20	19

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	2.4
10°-20°	471.9	7.5
20°-30°	748.2	12.0
30°-40°	832.7	13.3
40°-50°	758.0	12.1
50°-60°	619.4	9.9
60°-70°	442.2	7.1
70°-80°	243.5	3.9
80°-90°	68.3	1.1
90°-100°	21.3	0.3
100°-110°	135.6	2.2
110°-120°	259.4	4.1
120°-130°	329.3	5.3
130°-140°	352.3	5.6
140°-150°	329.4	5.3
150°-160°	265.7	4.2
160°-170°	171.4	2.7
170°-180°	59.1	0.9
0°-30°	1373.2	21.9
0°-40°	2205.9	35.2
0°-60°	3583.3	57.2
0°-90°	4337.3	69.3
90°-120°	416.3	6.6
90°-150°	1427.3	22.8
90°-180°	1923.0	30.7
0°-180°	6260.7	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°	14	1	14	1	14	8
95°	14	26	14	26	14	11
105°	133	140	133	140	133	116
115°	263	261	263	261	263	261
125°	370	367	370	367	370	330
135°	459	456	459	456	459	353
145°	528	526	528	526	528	330
155°	576	576	576	576	576	265
165°	605	608	605	608	605	171
175°	618	622	618	622	618	59
180°	622	622	622	622	622	



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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°	14.3	15.7	15.7	16.2	17.2	17.6	18.0	17.4	19.3	19.7	21.7
90°	13.9	13.8	13.5	13.4	13.1	12.7	12.1	11.5	10.8	10.2	9.4
92.5°	12.8	12.8	12.7	12.7	12.6	12.3	11.7	11.1	10.5	9.9	9.0
95°	13.5	13.4	13.3	13.2	13.0	12.7	12.1	11.5	10.8	10.2	10.1
97.5°	13.0	12.9	12.8	12.7	12.6	12.6	12.5	12.4	12.3	12.3	23.8
100°	13.0	12.9	12.8	12.7	12.6	13.5	15.2	17.0	18.7	20.5	34.7
102.5°	13.4	13.4	13.4	13.4	13.3	22.7	41.7	60.7	79.7	98.6	100.4
105°	132.6	136.2	140.0	143.7	147.4	148.8	147.9	147.0	146.0	145.1	144.6
107.5°	184.7	184.3	183.9	183.5	183.1	182.7	182.3	181.8	181.4	180.9	180.2
110°	207.4	207.1	206.8	206.5	206.2	205.9	205.7	205.5	205.3	205.1	204.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	230.1	229.8	229.3	228.9	228.5	228.4	228.4	228.4	228.5	228.5	228.3
115°	263.3	263.3	263.3	263.3	263.3	263.1	262.9	262.7	262.5	262.3	262.4
117.5°	296.9	296.9	297.0	297.0	297.1	297.1	297.2	297.2	297.3	297.3	297.0
120°	318.1	318.3	318.5	318.7	318.9	318.9	318.7	318.5	318.3	318.1	318.2
122.5°	338.9	339.2	339.3	339.6	339.7	339.8	339.7	339.6	339.4	339.3	339.2
125°	370.2	370.1	370.0	369.9	369.8	369.6	369.2	368.9	368.7	368.4	368.5
127.5°	397.6	397.7	397.8	397.9	397.9	398.0	398.1	398.2	398.2	398.3	397.8
130°	416.2	416.2	416.2	416.2	416.2	416.2	416.0	416.0	415.9	415.8	415.5
132.5°	433.3	433.4	433.5	433.6	433.7	433.7	433.6	433.5	433.3	433.3	432.8
135°	459.0	458.9	458.6	458.4	458.2	458.0	457.8	457.5	457.4	457.1	456.7
137.5°	480.9	481.0	481.1	481.2	481.2	481.1	480.9	480.7	480.5	480.2	479.8
140°	496.2	496.1	496.0	495.9	495.8	495.6	495.3	495.0	494.6	494.4	494.2
142.5°	508.9	508.8	508.8	508.8	508.8	508.7	508.4	508.2	508.0	507.8	507.6
145°	528.3	528.2	527.9	527.7	527.5	527.3	527.3	527.1	527.0	526.9	526.9
147.5°	544.4	544.3	544.2	544.1	544.0	543.9	543.8	543.7	543.6	543.6	543.6
150°	554.8	554.7	554.6	554.5	554.4	554.3	554.3	554.3	554.3	554.3	554.5
152.5°	563.8	563.8	563.9	563.9	564.0	563.9	563.8	563.6	563.5	563.3	563.5
155°	575.8	576.1	576.3	576.7	577.0	576.9	576.5	576.1	575.7	575.3	575.6
157.5°	585.8	586.4	586.9	587.4	587.9	587.9	587.4	586.9	586.4	585.8	586.1
160°	592.5	593.1	593.7	594.4	595.0	595.0	594.4	593.7	593.1	592.5	592.6
162.5°	597.7	598.4	599.1	599.8	600.5	600.5	599.9	599.3	598.7	598.1	598.2
165°	605.0	606.0	606.9	607.8	608.8	608.9	608.0	607.2	606.3	605.5	605.5
167.5°	610.6	611.6	612.6	613.7	614.7	614.7	613.8	612.9	612.0	611.1	611.1
170°	613.9	614.9	616.0	617.0	618.0	618.2	617.3	616.4	615.6	614.8	614.7
172.5°	615.7	616.9	618.0	619.1	620.2	620.4	619.5	618.7	617.9	617.0	616.9
175°	618.1	619.3	620.5	621.8	623.1	623.2	622.2	621.3	620.4	619.5	619.4
177.5°	619.5	620.5	621.6	622.6	623.5	623.7	623.1	622.4	621.7	621.0	620.9
180°	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8



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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°	21.5	21.9	21.2	18.9	17.1	15.3	14.6	13.8	14.6	15.3	16.1
90°	8.6	7.7	6.9	6.0	4.8	3.7	2.5	1.4	2.5	3.7	4.8
92.5°	8.2	7.4	6.5	6.1	6.0	6.0	6.0	5.9	6.0	6.0	6.0
95°	10.0	9.9	9.8	11.5	15.0	18.6	22.1	25.6	22.1	18.6	15.0
97.5°	35.4	46.9	58.4	63.1	60.9	58.7	56.5	54.3	56.5	58.7	60.9
100°	49.0	63.3	77.5	83.7	81.9	80.0	78.1	76.2	78.1	80.0	81.9
102.5°	102.3	104.2	106.1	106.3	104.9	103.5	102.2	100.9	102.2	103.5	104.9
105°	144.1	143.6	143.0	142.4	141.9	141.2	140.6	140.0	140.6	141.2	141.9
107.5°	179.5	178.8	178.1	177.6	177.2	177.0	176.7	176.3	176.7	177.0	177.2
110°	203.8	203.3	202.6	202.1	201.9	201.5	201.2	200.9	201.2	201.5	201.9



TEST NUMBER: P332679-930

CATALOG NUMBER: S124DIP-S1195D590U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	228.0	227.6	227.4	227.0	226.4	225.8	225.3	224.7	225.3	225.8	226.4
115°	262.5	262.6	262.7	262.6	262.3	262.0	261.7	261.4	261.7	262.0	262.3
117.5°	296.9	296.6	296.4	296.0	295.6	295.2	294.8	294.4	294.8	295.2	295.6
120°	318.3	318.5	318.5	318.4	318.0	317.6	317.2	316.7	317.2	317.6	318.0
122.5°	339.0	338.9	338.8	338.5	338.3	338.0	337.8	337.5	337.8	338.0	338.3
125°	368.8	368.9	369.2	369.1	368.7	368.3	367.8	367.4	367.8	368.3	368.7
127.5°	397.3	396.9	396.4	396.1	396.0	395.9	395.7	395.7	395.7	395.9	396.0
130°	415.2	414.8	414.5	414.3	414.3	414.1	414.0	413.9	414.0	414.1	414.3
132.5°	432.4	432.1	431.7	431.4	431.2	431.0	430.8	430.6	430.8	431.0	431.2
135°	456.3	455.9	455.5	455.3	455.4	455.6	455.7	455.8	455.7	455.6	455.4
137.5°	479.3	478.8	478.4	478.2	478.1	478.1	478.0	478.0	478.0	478.1	478.1
140°	494.0	493.7	493.5	493.3	493.1	492.9	492.7	492.5	492.7	492.9	493.1
142.5°	507.5	507.4	507.3	507.0	506.6	506.3	505.9	505.6	505.9	506.3	506.6
145°	526.9	526.9	526.9	526.8	526.4	526.1	525.9	525.5	525.9	526.1	526.4
147.5°	543.8	543.9	544.0	543.7	543.2	542.6	542.0	541.4	542.0	542.6	543.2
150°	554.6	554.6	554.8	554.6	554.2	553.8	553.3	552.9	553.3	553.8	554.2
152.5°	563.7	563.9	564.0	563.9	563.6	563.3	563.0	562.6	563.0	563.3	563.6
155°	575.9	576.3	576.5	576.7	576.5	576.4	576.3	576.3	576.3	576.4	576.5
157.5°	586.5	586.9	587.2	587.4	587.5	587.5	587.6	587.7	587.6	587.5	587.5
160°	592.7	592.8	592.9	593.1	593.5	593.7	594.0	594.4	594.0	593.7	593.5
162.5°	598.3	598.3	598.5	598.8	599.2	599.5	599.9	600.3	599.9	599.5	599.2
165°	605.5	605.5	605.5	605.8	606.3	606.8	607.3	607.8	607.3	606.8	606.3
167.5°	611.2	611.3	611.3	611.6	612.2	612.7	613.3	613.8	613.3	612.7	612.2
170°	614.6	614.5	614.4	614.7	615.3	615.9	616.5	617.2	616.5	615.9	615.3
172.5°	616.9	616.8	616.6	616.9	617.5	618.2	618.7	619.4	618.7	618.2	617.5
175°	619.3	619.1	619.1	619.3	620.0	620.5	621.2	621.8	621.2	620.5	620.0
177.5°	620.7	620.5	620.4	620.6	621.2	621.7	622.3	622.9	622.3	621.7	621.2
180°	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8



TEST NUMBER: P332679-930

CATALOG NUMBER: S124DIP-S1195D590U930-4F0-1E-UDD-A

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°	17.9	18.0	20.3	21.5	23.2	26.0	27.1	33.0	35.2	38.0	42.7
90°	6.0	6.9	7.7	8.6	9.4	10.2	10.8	11.5	12.1	12.7	13.1
92.5°	6.1	6.5	7.4	8.2	9.0	9.9	10.5	11.1	11.7	12.3	12.6
95°	11.5	9.8	9.9	10.0	10.1	10.2	10.8	11.5	12.1	12.7	13.0
97.5°	63.1	58.4	46.9	35.4	23.8	12.3	12.3	12.4	12.5	12.6	12.6
100°	83.7	77.5	63.3	49.0	34.7	20.5	18.7	17.0	15.2	13.5	12.6
102.5°	106.3	106.1	104.2	102.3	100.4	98.6	79.7	60.7	41.7	22.7	13.3
105°	142.4	143.0	143.6	144.1	144.6	145.1	146.0	147.0	147.9	148.8	147.4
107.5°	177.6	178.1	178.8	179.5	180.2	180.9	181.4	181.8	182.3	182.7	183.1
110°	202.1	202.6	203.3	203.8	204.5	205.1	205.3	205.5	205.7	205.9	206.2



TEST NUMBER: P332679-930

CATALOG NUMBER: S124DIP-S1195D590U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	227.0	227.4	227.6	228.0	228.3	228.5	228.5	228.4	228.4	228.4	228.5
115°	262.6	262.7	262.6	262.5	262.4	262.3	262.5	262.7	262.9	263.1	263.3
117.5°	296.0	296.4	296.6	296.9	297.0	297.3	297.3	297.2	297.2	297.1	297.1
120°	318.4	318.5	318.5	318.3	318.2	318.1	318.3	318.5	318.7	318.9	318.9
122.5°	338.5	338.8	338.9	339.0	339.2	339.3	339.4	339.6	339.7	339.8	339.7
125°	369.1	369.2	368.9	368.8	368.5	368.4	368.7	368.9	369.2	369.6	369.8
127.5°	396.1	396.4	396.9	397.3	397.8	398.3	398.2	398.2	398.1	398.0	397.9
130°	414.3	414.5	414.8	415.2	415.5	415.8	415.9	416.0	416.0	416.2	416.2
132.5°	431.4	431.7	432.1	432.4	432.8	433.3	433.3	433.5	433.6	433.7	433.7
135°	455.3	455.5	455.9	456.3	456.7	457.1	457.4	457.5	457.8	458.0	458.2
137.5°	478.2	478.4	478.8	479.3	479.8	480.2	480.5	480.7	480.9	481.1	481.2
140°	493.3	493.5	493.7	494.0	494.2	494.4	494.6	495.0	495.3	495.6	495.8
142.5°	507.0	507.3	507.4	507.5	507.6	507.8	508.0	508.2	508.4	508.7	508.8
145°	526.8	526.9	526.9	526.9	526.9	526.9	527.0	527.1	527.3	527.3	527.5
147.5°	543.7	544.0	543.9	543.8	543.6	543.6	543.6	543.7	543.8	543.9	544.0
150°	554.6	554.8	554.6	554.6	554.5	554.3	554.3	554.3	554.3	554.3	554.4
152.5°	563.9	564.0	563.9	563.7	563.5	563.3	563.5	563.6	563.8	563.9	564.0
155°	576.7	576.5	576.3	575.9	575.6	575.3	575.7	576.1	576.5	576.9	577.0
157.5°	587.4	587.2	586.9	586.5	586.1	585.8	586.4	586.9	587.4	587.9	587.9
160°	593.1	592.9	592.8	592.7	592.6	592.5	593.1	593.7	594.4	595.0	595.0
162.5°	598.8	598.5	598.3	598.3	598.2	598.1	598.7	599.3	599.9	600.5	600.5
165°	605.8	605.5	605.5	605.5	605.5	605.5	606.3	607.2	608.0	608.9	608.8
167.5°	611.6	611.3	611.3	611.2	611.1	611.1	612.0	612.9	613.8	614.7	614.7
170°	614.7	614.4	614.5	614.6	614.7	614.8	615.6	616.4	617.3	618.2	618.0
172.5°	616.9	616.6	616.8	616.9	616.9	617.0	617.9	618.7	619.5	620.4	620.2
175°	619.3	619.1	619.1	619.3	619.4	619.5	620.4	621.3	622.2	623.2	623.1
177.5°	620.6	620.4	620.5	620.7	620.9	621.0	621.7	622.4	623.1	623.7	623.5
180°	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8



TEST NUMBER: P332679-930

CATALOG NUMBER: S124DIP-S1195D590U930-4F0-1E-UDD-A

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°	44.4	44.9	46.5	47.6	46.5	44.9	44.4	42.7	38.0	35.2	33.0
90°	13.4	13.5	13.8	13.9	13.8	13.5	13.4	13.1	12.7	12.1	11.5
92.5°	12.7	12.7	12.8	12.8	12.8	12.7	12.7	12.6	12.3	11.7	11.1
95°	13.2	13.3	13.4	13.5	13.4	13.3	13.2	13.0	12.7	12.1	11.5
97.5°	12.7	12.8	12.9	13.0	12.9	12.8	12.7	12.6	12.6	12.5	12.4
100°	12.7	12.8	12.9	13.0	12.9	12.8	12.7	12.6	13.5	15.2	17.0
102.5°	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.3	22.7	41.7	60.7
105°	143.7	140.0	136.2	132.6	136.2	140.0	143.7	147.4	148.8	147.9	147.0
107.5°	183.5	183.9	184.3	184.7	184.3	183.9	183.5	183.1	182.7	182.3	181.8
110°	206.5	206.8	207.1	207.4	207.1	206.8	206.5	206.2	205.9	205.7	205.5



TEST NUMBER: P332679-930

CATALOG NUMBER: S124DIP-S1195D590U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	228.9	229.3	229.8	230.1	229.8	229.3	228.9	228.5	228.4	228.4	228.4
115°	263.3	263.3	263.3	263.3	263.3	263.3	263.3	263.3	263.1	262.9	262.7
117.5°	297.0	297.0	296.9	296.9	296.9	297.0	297.0	297.1	297.1	297.2	297.2
120°	318.7	318.5	318.3	318.1	318.3	318.5	318.7	318.9	318.9	318.7	318.5
122.5°	339.6	339.3	339.2	338.9	339.2	339.3	339.6	339.7	339.8	339.7	339.6
125°	369.9	370.0	370.1	370.2	370.1	370.0	369.9	369.8	369.6	369.2	368.9
127.5°	397.9	397.8	397.7	397.6	397.7	397.8	397.9	397.9	398.0	398.1	398.2
130°	416.2	416.2	416.2	416.2	416.2	416.2	416.2	416.2	416.2	416.0	416.0
132.5°	433.6	433.5	433.4	433.3	433.4	433.5	433.6	433.7	433.7	433.6	433.5
135°	458.4	458.6	458.9	459.0	458.9	458.6	458.4	458.2	458.0	457.8	457.5
137.5°	481.2	481.1	481.0	480.9	481.0	481.1	481.2	481.2	481.1	480.9	480.7
140°	495.9	496.0	496.1	496.2	496.1	496.0	495.9	495.8	495.6	495.3	495.0
142.5°	508.8	508.8	508.8	508.9	508.8	508.8	508.8	508.8	508.7	508.4	508.2
145°	527.7	527.9	528.2	528.3	528.2	527.9	527.7	527.5	527.3	527.3	527.1
147.5°	544.1	544.2	544.3	544.4	544.3	544.2	544.1	544.0	543.9	543.8	543.7
150°	554.5	554.6	554.7	554.8	554.7	554.6	554.5	554.4	554.3	554.3	554.3
152.5°	563.9	563.9	563.8	563.8	563.8	563.9	563.9	564.0	563.9	563.8	563.6
155°	576.7	576.3	576.1	575.8	576.1	576.3	576.7	577.0	576.9	576.5	576.1
157.5°	587.4	586.9	586.4	585.8	586.4	586.9	587.4	587.9	587.9	587.4	586.9
160°	594.4	593.7	593.1	592.5	593.1	593.7	594.4	595.0	595.0	594.4	593.7
162.5°	599.8	599.1	598.4	597.7	598.4	599.1	599.8	600.5	600.5	599.9	599.3
165°	607.8	606.9	606.0	605.0	606.0	606.9	607.8	608.8	608.9	608.0	607.2
167.5°	613.7	612.6	611.6	610.6	611.6	612.6	613.7	614.7	614.7	613.8	612.9
170°	617.0	616.0	614.9	613.9	614.9	616.0	617.0	618.0	618.2	617.3	616.4
172.5°	619.1	618.0	616.9	615.7	616.9	618.0	619.1	620.2	620.4	619.5	618.7
175°	621.8	620.5	619.3	618.1	619.3	620.5	621.8	623.1	623.2	622.2	621.3
177.5°	622.6	621.6	620.5	619.5	620.5	621.6	622.6	623.5	623.7	623.1	622.4
180°	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8



TEST NUMBER: P332679-930

CATALOG NUMBER: S124DIP-S1195D590U930-4F0-1E-UDD-A

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°	27.1	26.0	23.2	21.5	20.3	18.0	17.9	16.1	15.3	14.6	13.8
90°	10.8	10.2	9.4	8.6	7.7	6.9	6.0	4.8	3.7	2.5	1.4
92.5°	10.5	9.9	9.0	8.2	7.4	6.5	6.1	6.0	6.0	6.0	5.9
95°	10.8	10.2	10.1	10.0	9.9	9.8	11.5	15.0	18.6	22.1	25.6
97.5°	12.3	12.3	23.8	35.4	46.9	58.4	63.1	60.9	58.7	56.5	54.3
100°	18.7	20.5	34.7	49.0	63.3	77.5	83.7	81.9	80.0	78.1	76.2
102.5°	79.7	98.6	100.4	102.3	104.2	106.1	106.3	104.9	103.5	102.2	100.9
105°	146.0	145.1	144.6	144.1	143.6	143.0	142.4	141.9	141.2	140.6	140.0
107.5°	181.4	180.9	180.2	179.5	178.8	178.1	177.6	177.2	177.0	176.7	176.3
110°	205.3	205.1	204.5	203.8	203.3	202.6	202.1	201.9	201.5	201.2	200.9



TEST NUMBER: P332679-930

CATALOG NUMBER: S124DIP-S1195D590U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	228.5	228.5	228.3	228.0	227.6	227.4	227.0	226.4	225.8	225.3	224.7
115°	262.5	262.3	262.4	262.5	262.6	262.7	262.6	262.3	262.0	261.7	261.4
117.5°	297.3	297.3	297.0	296.9	296.6	296.4	296.0	295.6	295.2	294.8	294.4
120°	318.3	318.1	318.2	318.3	318.5	318.5	318.4	318.0	317.6	317.2	316.7
122.5°	339.4	339.3	339.2	339.0	338.9	338.8	338.5	338.3	338.0	337.8	337.5
125°	368.7	368.4	368.5	368.8	368.9	369.2	369.1	368.7	368.3	367.8	367.4
127.5°	398.2	398.3	397.8	397.3	396.9	396.4	396.1	396.0	395.9	395.7	395.7
130°	415.9	415.8	415.5	415.2	414.8	414.5	414.3	414.3	414.1	414.0	413.9
132.5°	433.3	433.3	432.8	432.4	432.1	431.7	431.4	431.2	431.0	430.8	430.6
135°	457.4	457.1	456.7	456.3	455.9	455.5	455.3	455.4	455.6	455.7	455.8
137.5°	480.5	480.2	479.8	479.3	478.8	478.4	478.2	478.1	478.1	478.0	478.0
140°	494.6	494.4	494.2	494.0	493.7	493.5	493.3	493.1	492.9	492.7	492.5
142.5°	508.0	507.8	507.6	507.5	507.4	507.3	507.0	506.6	506.3	505.9	505.6
145°	527.0	526.9	526.9	526.9	526.9	526.9	526.8	526.4	526.1	525.9	525.5
147.5°	543.6	543.6	543.6	543.8	543.9	544.0	543.7	543.2	542.6	542.0	541.4
150°	554.3	554.3	554.5	554.6	554.6	554.8	554.6	554.2	553.8	553.3	552.9
152.5°	563.5	563.3	563.5	563.7	563.9	564.0	563.9	563.6	563.3	563.0	562.6
155°	575.7	575.3	575.6	575.9	576.3	576.5	576.7	576.5	576.4	576.3	576.3
157.5°	586.4	585.8	586.1	586.5	586.9	587.2	587.4	587.5	587.5	587.6	587.7
160°	593.1	592.5	592.6	592.7	592.8	592.9	593.1	593.5	593.7	594.0	594.4
162.5°	598.7	598.1	598.2	598.3	598.3	598.5	598.8	599.2	599.5	599.9	600.3
165°	606.3	605.5	605.5	605.5	605.5	605.5	605.8	606.3	606.8	607.3	607.8
167.5°	612.0	611.1	611.1	611.2	611.3	611.3	611.6	612.2	612.7	613.3	613.8
170°	615.6	614.8	614.7	614.6	614.5	614.4	614.7	615.3	615.9	616.5	617.2
172.5°	617.9	617.0	616.9	616.9	616.8	616.6	616.9	617.5	618.2	618.7	619.4
175°	620.4	619.5	619.4	619.3	619.1	619.1	619.3	620.0	620.5	621.2	621.8
177.5°	621.7	621.0	620.9	620.7	620.5	620.4	620.6	621.2	621.7	622.3	622.9
180°	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8



TEST NUMBER: P332679-930

CATALOG NUMBER: S124DIP-S1195D590U930-4F0-1E-UDD-A

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°	14.6	15.3	17.1	18.9	21.2	21.9	21.5	21.7	19.7	19.3	17.4
90°	2.5	3.7	4.8	6.0	6.9	7.7	8.6	9.4	10.2	10.8	11.5
92.5°	6.0	6.0	6.0	6.1	6.5	7.4	8.2	9.0	9.9	10.5	11.1
95°	22.1	18.6	15.0	11.5	9.8	9.9	10.0	10.1	10.2	10.8	11.5
97.5°	56.5	58.7	60.9	63.1	58.4	46.9	35.4	23.8	12.3	12.3	12.4
100°	78.1	80.0	81.9	83.7	77.5	63.3	49.0	34.7	20.5	18.7	17.0
102.5°	102.2	103.5	104.9	106.3	106.1	104.2	102.3	100.4	98.6	79.7	60.7
105°	140.6	141.2	141.9	142.4	143.0	143.6	144.1	144.6	145.1	146.0	147.0
107.5°	176.7	177.0	177.2	177.6	178.1	178.8	179.5	180.2	180.9	181.4	181.8
110°	201.2	201.5	201.9	202.1	202.6	203.3	203.8	204.5	205.1	205.3	205.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	225.3	225.8	226.4	227.0	227.4	227.6	228.0	228.3	228.5	228.5	228.4
115°	261.7	262.0	262.3	262.6	262.7	262.6	262.5	262.4	262.3	262.5	262.7
117.5°	294.8	295.2	295.6	296.0	296.4	296.6	296.9	297.0	297.3	297.3	297.2
120°	317.2	317.6	318.0	318.4	318.5	318.5	318.3	318.2	318.1	318.3	318.5
122.5°	337.8	338.0	338.3	338.5	338.8	338.9	339.0	339.2	339.3	339.4	339.6
125°	367.8	368.3	368.7	369.1	369.2	368.9	368.8	368.5	368.4	368.7	368.9
127.5°	395.7	395.9	396.0	396.1	396.4	396.9	397.3	397.8	398.3	398.2	398.2
130°	414.0	414.1	414.3	414.3	414.5	414.8	415.2	415.5	415.8	415.9	416.0
132.5°	430.8	431.0	431.2	431.4	431.7	432.1	432.4	432.8	433.3	433.3	433.5
135°	455.7	455.6	455.4	455.3	455.5	455.9	456.3	456.7	457.1	457.4	457.5
137.5°	478.0	478.1	478.1	478.2	478.4	478.8	479.3	479.8	480.2	480.5	480.7
140°	492.7	492.9	493.1	493.3	493.5	493.7	494.0	494.2	494.4	494.6	495.0
142.5°	505.9	506.3	506.6	507.0	507.3	507.4	507.5	507.6	507.8	508.0	508.2
145°	525.9	526.1	526.4	526.8	526.9	526.9	526.9	526.9	526.9	527.0	527.1
147.5°	542.0	542.6	543.2	543.7	544.0	543.9	543.8	543.6	543.6	543.6	543.7
150°	553.3	553.8	554.2	554.6	554.8	554.6	554.6	554.5	554.3	554.3	554.3
152.5°	563.0	563.3	563.6	563.9	564.0	563.9	563.7	563.5	563.3	563.5	563.6
155°	576.3	576.4	576.5	576.7	576.5	576.3	575.9	575.6	575.3	575.7	576.1
157.5°	587.6	587.5	587.5	587.4	587.2	586.9	586.5	586.1	585.8	586.4	586.9
160°	594.0	593.7	593.5	593.1	592.9	592.8	592.7	592.6	592.5	593.1	593.7
162.5°	599.9	599.5	599.2	598.8	598.5	598.3	598.3	598.2	598.1	598.7	599.3
165°	607.3	606.8	606.3	605.8	605.5	605.5	605.5	605.5	605.5	606.3	607.2
167.5°	613.3	612.7	612.2	611.6	611.3	611.3	611.2	611.1	611.1	612.0	612.9
170°	616.5	615.9	615.3	614.7	614.4	614.5	614.6	614.7	614.8	615.6	616.4
172.5°	618.7	618.2	617.5	616.9	616.6	616.8	616.9	616.9	617.0	617.9	618.7
175°	621.2	620.5	620.0	619.3	619.1	619.1	619.3	619.4	619.5	620.4	621.3
177.5°	622.3	621.7	621.2	620.6	620.4	620.5	620.7	620.9	621.0	621.7	622.4
180°	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8



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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°	18.0	17.6	17.2	16.2	15.7	15.7	14.3
90°	12.1	12.7	13.1	13.4	13.5	13.8	13.9
92.5°	11.7	12.3	12.6	12.7	12.7	12.8	12.8
95°	12.1	12.7	13.0	13.2	13.3	13.4	13.5
97.5°	12.5	12.6	12.6	12.7	12.8	12.9	13.0
100°	15.2	13.5	12.6	12.7	12.8	12.9	13.0
102.5°	41.7	22.7	13.3	13.4	13.4	13.4	13.4
105°	147.9	148.8	147.4	143.7	140.0	136.2	132.6
107.5°	182.3	182.7	183.1	183.5	183.9	184.3	184.7
110°	205.7	205.9	206.2	206.5	206.8	207.1	207.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	228.4	228.4	228.5	228.9	229.3	229.8	230.1
115°	262.9	263.1	263.3	263.3	263.3	263.3	263.3
117.5°	297.2	297.1	297.1	297.0	297.0	296.9	296.9
120°	318.7	318.9	318.9	318.7	318.5	318.3	318.1
122.5°	339.7	339.8	339.7	339.6	339.3	339.2	338.9
125°	369.2	369.6	369.8	369.9	370.0	370.1	370.2
127.5°	398.1	398.0	397.9	397.9	397.8	397.7	397.6
130°	416.0	416.2	416.2	416.2	416.2	416.2	416.2
132.5°	433.6	433.7	433.7	433.6	433.5	433.4	433.3
135°	457.8	458.0	458.2	458.4	458.6	458.9	459.0
137.5°	480.9	481.1	481.2	481.2	481.1	481.0	480.9
140°	495.3	495.6	495.8	495.9	496.0	496.1	496.2
142.5°	508.4	508.7	508.8	508.8	508.8	508.8	508.9
145°	527.3	527.3	527.5	527.7	527.9	528.2	528.3
147.5°	543.8	543.9	544.0	544.1	544.2	544.3	544.4
150°	554.3	554.3	554.4	554.5	554.6	554.7	554.8
152.5°	563.8	563.9	564.0	563.9	563.9	563.8	563.8
155°	576.5	576.9	577.0	576.7	576.3	576.1	575.8
157.5°	587.4	587.9	587.9	587.4	586.9	586.4	585.8
160°	594.4	595.0	595.0	594.4	593.7	593.1	592.5
162.5°	599.9	600.5	600.5	599.8	599.1	598.4	597.7
165°	608.0	608.9	608.8	607.8	606.9	606.0	605.0
167.5°	613.8	614.7	614.7	613.7	612.6	611.6	610.6
170°	617.3	618.2	618.0	617.0	616.0	614.9	613.9
172.5°	619.5	620.4	620.2	619.1	618.0	616.9	615.7
175°	622.2	623.2	623.1	621.8	620.5	619.3	618.1
177.5°	623.1	623.7	623.5	622.6	621.6	620.5	619.5
180°	621.8	621.8	621.8	621.8	621.8	621.8	621.8

(END OF REPORT)