

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: P333431-840

Luminaire Tested: **S125DIW-S1090D470U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333431-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DIW-S1090D470U840-4F0-1E-UDD-A1
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1090 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: 6174.0 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.52
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')
CIE Type: Semi-Direct

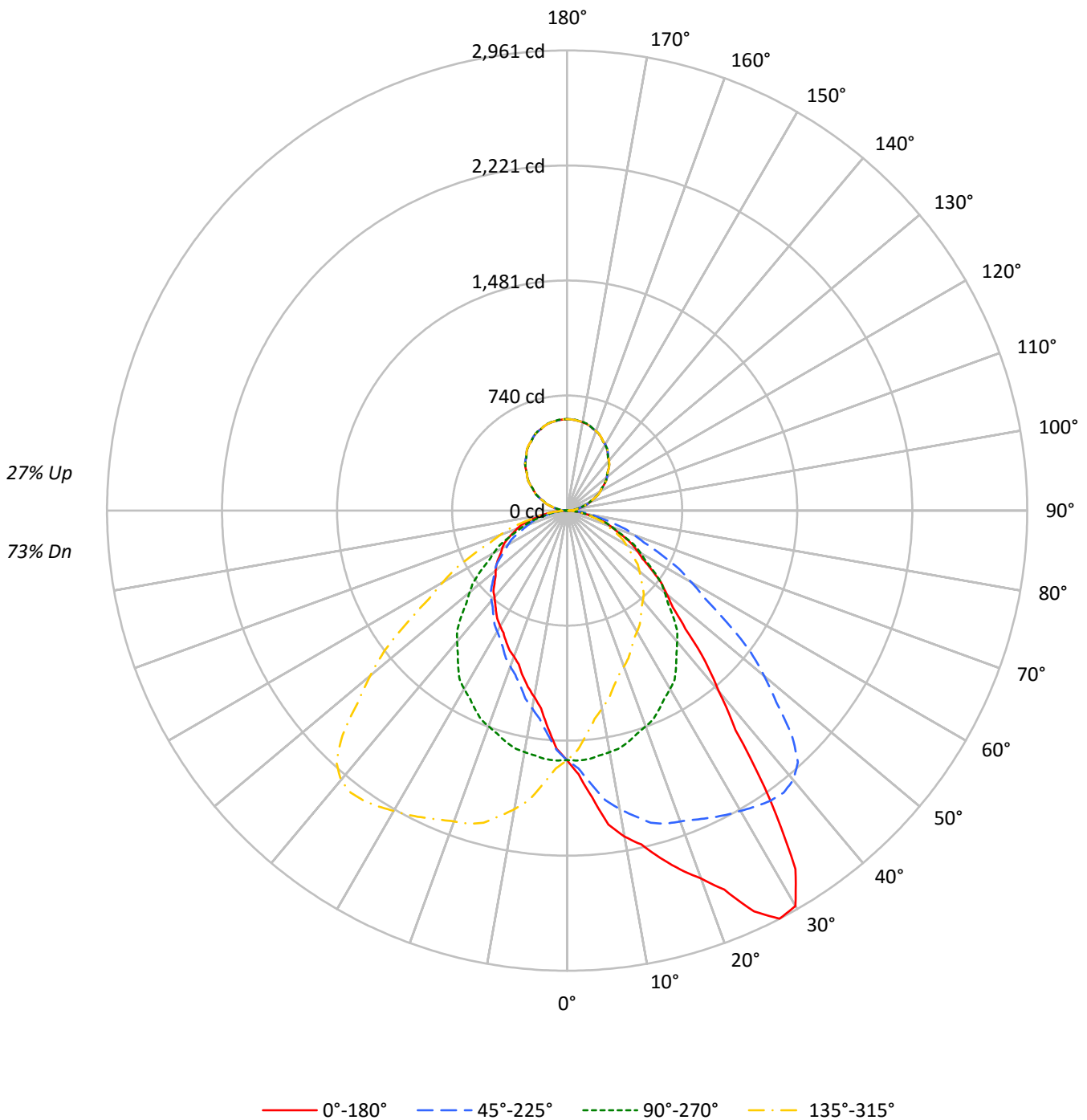
Input Watts (W): 46.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	96	96	96	87	87	87	78	78	78	73
1	103	99	95	92	98	94	91	88	85	83	80	77	75	73	69	68	66	63
2	94	87	81	75	89	83	77	72	75	71	67	68	64	61	61	59	56	53
3	86	77	69	63	82	73	66	61	66	61	57	60	56	52	55	51	48	45
4	79	68	60	54	75	65	58	52	59	53	48	54	49	45	49	45	42	39
5	73	61	53	46	69	58	51	45	53	47	42	49	43	39	44	40	37	34
6	67	55	46	40	64	52	45	39	48	42	37	44	39	35	40	36	32	30
7	62	50	41	36	59	48	40	35	44	37	33	40	35	31	37	32	29	26
8	58	45	37	32	55	43	36	31	40	34	29	37	31	27	34	29	26	24
9	54	41	34	28	51	40	33	28	37	31	26	34	29	25	31	27	23	21
10	51	38	31	26	48	37	30	25	34	28	24	31	26	22	29	24	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10371	10371	10371	10371
5°	12010	10407	9111	10407
10°	13973	10352	7984	10352
15°	15468	10277	7365	10277
20°	17314	10156	6868	10156
25°	20283	10020	6625	10020
30°	21908	9887	6415	9887
35°	18013	9635	6277	9635
40°	12803	9286	6126	9286
45°	9836	8815	6039	8815
50°	8397	8232	6027	8232
55°	7475	7659	6079	7659
60°	6744	7034	6234	7034
65°	6229	6406	6395	6406
70°	5663	5754	6488	5754
75°	5001	5068	6428	5068
80°	4206	4132	5880	4132
85°	3327	2979	4742	2979



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.6	2.5
10°-20°	460.3	7.5
20°-30°	747.4	12.1
30°-40°	911.7	14.8
40°-50°	829.4	13.4
50°-60°	660.6	10.7
60°-70°	460.1	7.5
70°-80°	245.4	4.0
80°-90°	63.2	1.0
90°-100°	39.4	0.6
100°-110°	116.3	1.9
110°-120°	197.1	3.2
120°-130°	259.3	4.2
130°-140°	290.6	4.7
140°-150°	284.8	4.6
150°-160°	239.2	3.9
160°-170°	159.0	2.6
170°-180°	55.6	0.9
0°-30°	1362.3	22.1
0°-40°	2274.0	36.8
0°-60°	3764.0	61.0
0°-90°	4532.8	73.4
90°-120°	352.8	5.7
90°-150°	1187.4	19.2
90°-180°	1641.0	26.6
0°-180°	6174.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1606	1606	1606	1606	1606	
5°	1853	1605	1405	1605	1853	187
15°	2313	1537	1102	1537	2313	662
25°	2846	1406	930	1406	2846	1300
35°	2285	1222	796	1222	2285	1398
45°	1077	965	661	965	1077	862
55°	664	680	540	680	664	598
65°	408	419	418	419	408	405
75°	200	203	258	203	200	216
85°	45	40	64	40	45	52
90°	11	0	11	0	11	8
95°	39	30	39	30	39	40
105°	114	104	114	104	114	120
115°	199	197	199	197	199	197
125°	290	288	290	288	290	259
135°	376	374	376	374	376	290
145°	455	454	455	454	455	284
155°	519	519	519	519	519	239
165°	563	564	563	564	563	159
175°	584	587	584	587	584	56
180°	588	588	588	588	588	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1698.6	1696.4	1694.3	1689.8	1693.1	1683.8	1679.5	1671.8	1662.5	1659.3	1655.5
5°	1852.6	1856.0	1859.5	1845.1	1846.4	1836.9	1815.1	1797.4	1783.1	1764.6	1751.7
7.5°	2038.0	2029.9	2029.3	2020.0	2004.1	1991.3	1968.3	1939.1	1911.0	1878.8	1852.2
10°	2130.7	2131.4	2125.3	2114.4	2097.3	2085.1	2055.1	2026.4	1991.7	1950.8	1921.5
12.5°	2200.5	2203.3	2195.6	2180.9	2172.5	2145.1	2121.6	2087.5	2046.2	2013.5	1968.9
15°	2313.4	2305.9	2300.5	2282.0	2267.8	2239.1	2201.6	2166.2	2121.1	2079.6	2038.0
17.5°	2422.2	2428.1	2417.9	2401.2	2356.7	2323.3	2273.0	2224.5	2168.5	2112.7	2063.1
20°	2519.2	2524.7	2509.0	2479.7	2426.5	2393.2	2327.0	2264.3	2199.6	2128.0	2073.5
22.5°	2640.3	2635.9	2614.7	2570.2	2524.2	2462.4	2390.9	2314.5	2233.3	2152.5	2080.0
25°	2846.4	2817.7	2804.8	2749.7	2689.0	2598.3	2500.1	2388.3	2287.4	2180.5	2087.8
27.5°	2960.6	2951.6	2937.2	2898.7	2835.0	2738.0	2622.3	2486.1	2343.8	2208.7	2087.4
30°	2937.7	2939.1	2940.4	2928.2	2887.3	2814.4	2699.2	2552.6	2383.6	2231.6	2091.1
32.5°	2734.9	2759.7	2783.4	2811.5	2823.0	2808.9	2736.8	2604.4	2430.4	2257.8	2089.0
35°	2284.7	2292.3	2369.2	2445.6	2549.2	2629.7	2683.5	2624.8	2478.3	2280.0	2086.4
37.5°	1781.5	1818.3	1871.6	1957.8	2107.4	2241.3	2413.5	2492.6	2445.4	2287.2	2081.6
40°	1518.6	1552.7	1587.5	1675.4	1801.5	1963.7	2159.3	2326.3	2365.2	2264.3	2065.3
42.5°	1315.8	1342.8	1381.4	1447.4	1552.9	1696.6	1883.4	2101.6	2235.9	2197.8	2030.9
45°	1076.9	1094.0	1124.0	1176.5	1252.8	1365.2	1530.2	1768.8	1976.7	2045.5	1949.4
47.5°	921.8	921.7	945.0	981.3	1036.3	1131.9	1253.8	1440.8	1662.8	1827.1	1819.5
50°	835.7	832.2	850.6	882.0	925.6	989.1	1105.6	1254.9	1468.1	1654.3	1706.1
52.5°	761.5	761.9	773.3	796.4	832.9	887.1	974.1	1108.7	1291.0	1482.0	1579.5
55°	663.9	661.2	674.1	689.8	716.4	751.8	814.6	917.5	1065.3	1253.4	1380.3
57.5°	574.4	582.0	587.1	598.0	620.2	643.9	696.7	772.2	889.6	1051.1	1185.1
60°	522.1	529.6	533.7	544.6	562.3	582.8	623.7	685.0	783.9	922.9	1055.8
62.5°	475.2	481.1	482.4	492.2	506.8	526.6	558.8	610.4	688.4	810.0	940.2
65°	407.6	407.6	410.3	420.5	427.4	445.0	469.6	507.2	569.9	664.6	775.7
67.5°	342.4	345.7	345.1	349.5	355.8	369.6	387.2	418.1	464.5	533.7	622.6
70°	299.9	302.7	301.9	305.4	312.1	321.0	335.4	364.7	398.1	457.4	533.7
72.5°	261.8	262.9	261.1	265.6	269.6	277.4	293.4	309.0	340.2	390.3	453.0
75°	200.4	201.8	203.1	205.8	210.0	214.0	222.2	237.9	258.3	295.8	336.1
77.5°	150.3	147.6	150.9	150.5	152.8	155.9	163.2	171.5	188.2	212.0	243.1
80°	113.1	113.8	113.8	114.5	118.0	120.0	126.1	132.2	145.2	162.9	184.7
82.5°	82.6	84.4	83.3	84.5	87.4	88.9	92.3	97.4	104.8	118.8	134.5
85°	44.9	41.6	42.9	44.3	44.3	44.9	47.7	49.8	53.8	59.3	65.4
87.5°	15.2	16.4	16.8	16.8	17.3	17.2	19.2	19.1	20.6	22.2	24.2
90°	11.0	10.7	10.4	10.1	9.8	9.4	8.9	8.4	7.9	7.4	6.6
92.5°	21.6	21.4	21.1	20.9	20.7	20.3	19.6	18.9	18.3	17.6	16.7
95°	39.4	39.2	39.0	38.8	38.6	38.1	37.4	36.7	36.0	35.2	34.2
97.5°	59.7	59.6	59.5	59.3	59.2	58.8	58.2	57.5	56.8	56.1	54.7
100°	75.0	74.8	74.6	74.4	74.2	73.7	72.8	71.9	71.0	70.0	68.7
102.5°	90.5	90.2	89.9	89.6	89.3	88.7	87.7	86.6	85.6	84.6	84.0
105°	113.5	113.2	112.9	112.6	112.3	111.8	111.2	110.6	110.0	109.4	108.8
107.5°	137.1	137.1	137.1	137.2	137.2	137.0	136.7	136.4	136.1	135.8	135.4
110°	154.7	154.8	154.9	155.0	155.1	155.0	154.7	154.4	154.1	153.8	153.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	171.9	172.1	172.3	172.5	172.7	172.7	172.5	172.4	172.3	172.1	171.7
115°	199.1	199.2	199.3	199.4	199.5	199.7	199.8	199.9	200.0	200.1	199.9
117.5°	225.6	226.0	226.5	226.9	227.3	227.4	227.3	227.3	227.2	227.1	226.9
120°	244.0	244.4	244.8	245.2	245.6	245.8	245.8	245.8	245.8	245.8	245.7
122.5°	262.3	262.6	263.0	263.3	263.6	263.8	263.9	264.0	264.0	264.1	263.9
125°	289.7	289.8	289.9	290.0	290.1	290.3	290.5	290.7	290.9	291.1	291.0
127.5°	316.1	316.3	316.5	316.7	316.9	317.1	317.2	317.3	317.4	317.5	317.3
130°	333.7	333.9	334.1	334.3	334.5	334.7	334.8	334.9	335.0	335.1	334.9
132.5°	350.1	350.4	350.7	351.0	351.3	351.4	351.5	351.6	351.7	351.8	351.9
135°	375.8	376.2	376.6	377.0	377.4	377.6	377.6	377.6	377.6	377.6	377.5
137.5°	400.8	401.3	401.9	402.4	402.9	403.1	402.9	402.8	402.7	402.6	402.3
140°	417.0	417.5	418.0	418.5	419.0	419.2	419.0	418.8	418.6	418.4	418.1
142.5°	432.3	432.8	433.3	433.8	434.3	434.5	434.4	434.3	434.2	434.1	433.7
145°	455.4	455.8	456.1	456.4	456.7	456.8	456.8	456.8	456.8	456.8	456.5
147.5°	475.1	475.7	476.5	477.2	477.9	478.1	477.9	477.6	477.4	477.2	476.9
150°	489.8	490.0	490.2	490.4	490.6	490.7	490.7	490.7	490.7	490.7	490.3
152.5°	501.8	502.2	502.6	502.9	503.3	503.3	503.1	502.9	502.6	502.4	502.2
155°	519.1	519.6	520.1	520.6	521.1	521.1	520.7	520.3	519.9	519.5	519.4
157.5°	533.4	534.1	534.7	535.4	536.1	536.2	535.8	535.4	535.0	534.6	534.5
160°	543.3	543.8	544.3	544.8	545.3	545.4	545.0	544.6	544.2	543.7	543.6
162.5°	551.7	552.3	552.9	553.5	554.1	554.1	553.6	553.2	552.7	552.2	552.2
165°	563.0	563.6	564.2	564.8	565.4	565.5	565.1	564.7	564.3	563.9	563.8
167.5°	572.0	572.6	573.2	573.8	574.5	574.5	573.9	573.3	572.7	572.1	572.1
170°	576.7	577.4	578.1	578.9	579.6	579.7	579.0	578.3	577.7	577.1	577.1
172.5°	580.8	581.4	582.0	582.6	583.3	583.3	582.7	582.1	581.5	580.9	580.9
175°	584.5	585.2	585.9	586.6	587.3	587.4	586.8	586.1	585.5	584.9	584.9
177.5°	586.7	587.2	587.8	588.4	589.0	589.1	588.5	588.0	587.5	587.0	587.1
180°	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1652.2	1648.4	1644.1	1636.4	1627.1	1622.2	1614.6	1609.7	1599.8	1591.6	1583.0
5°	1736.1	1718.4	1702.0	1680.8	1657.7	1642.6	1625.0	1605.2	1584.8	1563.6	1540.4
7.5°	1822.9	1791.5	1757.5	1720.8	1685.0	1651.9	1620.4	1589.5	1560.6	1525.7	1496.1
10°	1881.3	1841.7	1799.5	1749.7	1701.3	1659.0	1616.1	1578.6	1540.4	1499.5	1463.4
12.5°	1939.5	1886.9	1827.2	1772.6	1714.3	1663.3	1612.9	1565.0	1517.0	1471.8	1429.6
15°	1980.7	1934.4	1879.2	1801.5	1736.1	1665.9	1599.0	1537.0	1479.0	1428.7	1375.5
17.5°	2007.9	1948.1	1888.9	1814.3	1728.6	1650.0	1574.4	1503.4	1438.0	1374.1	1322.8
20°	2012.8	1951.5	1889.5	1816.4	1728.6	1638.6	1563.0	1477.7	1407.5	1341.4	1278.7
22.5°	2011.1	1941.7	1874.1	1799.1	1713.3	1630.4	1538.9	1452.1	1375.9	1310.9	1245.5
25°	1995.8	1921.5	1836.9	1761.3	1676.8	1588.8	1496.1	1406.1	1328.5	1254.2	1189.4
27.5°	1983.0	1886.5	1790.9	1702.6	1621.0	1540.4	1451.7	1359.6	1273.3	1198.1	1137.1
30°	1967.1	1861.5	1753.7	1661.7	1577.9	1499.5	1415.7	1325.8	1235.8	1162.2	1096.7
32.5°	1953.0	1829.9	1716.2	1616.0	1527.2	1451.0	1373.7	1288.1	1199.7	1125.1	1059.7
35°	1925.5	1783.1	1652.9	1539.7	1445.0	1366.7	1301.9	1222.1	1141.0	1068.7	1006.0
37.5°	1890.8	1721.7	1582.1	1463.4	1359.6	1277.0	1216.7	1155.5	1077.6	1007.9	951.3
40°	1863.5	1678.1	1530.2	1408.9	1301.2	1215.3	1159.4	1101.5	1036.7	972.0	912.0
42.5°	1829.2	1638.9	1477.8	1347.3	1240.6	1157.0	1098.3	1049.1	992.0	931.6	876.0
45°	1766.1	1567.7	1393.2	1252.8	1145.1	1062.6	1002.0	965.1	922.2	864.9	817.9
47.5°	1673.2	1482.2	1301.7	1156.8	1045.7	969.3	912.4	877.1	846.9	804.3	761.6
50°	1590.8	1418.5	1235.8	1092.0	980.9	903.8	851.3	819.3	793.3	760.6	724.6
52.5°	1498.7	1338.3	1170.8	1028.6	918.7	842.7	791.3	763.2	741.5	718.1	682.6
55°	1352.3	1216.0	1060.6	925.6	824.0	749.7	704.8	680.2	662.6	644.8	623.0
57.5°	1191.0	1084.4	946.7	823.3	729.8	662.3	620.3	596.4	582.6	573.5	560.7
60°	1077.6	986.3	867.7	755.2	663.9	603.9	563.0	544.6	533.0	525.5	515.9
62.5°	972.4	897.4	787.5	684.9	605.0	548.3	511.8	493.9	482.8	479.2	471.3
65°	817.3	759.3	668.6	583.5	515.3	466.9	436.3	419.2	412.3	408.3	409.0
67.5°	664.4	629.1	556.3	483.6	429.3	388.7	364.2	351.0	347.6	342.1	342.0
70°	571.2	544.6	483.2	419.9	371.4	340.1	318.3	304.7	301.2	298.5	297.9
72.5°	488.9	465.5	412.3	361.5	318.0	290.5	272.5	264.3	258.7	257.1	257.0
75°	367.4	354.5	312.1	272.0	242.0	222.9	210.7	203.1	199.0	198.3	199.0
77.5°	261.2	249.8	223.0	194.5	175.6	161.2	150.8	148.1	143.5	143.7	143.0
80°	196.3	188.8	171.8	149.3	133.6	121.3	115.8	111.1	109.8	107.7	109.8
82.5°	142.3	134.3	122.7	108.4	95.4	88.1	82.6	81.1	80.3	79.4	79.8
85°	70.2	70.9	64.0	53.1	47.7	43.6	40.2	40.2	39.5	38.9	39.5
87.5°	25.1	23.9	21.6	19.8	17.0	15.1	14.4	14.8	13.3	12.9	13.6
90°	5.9	5.2	4.4	3.7	2.9	2.1	1.3	0.5	1.3	2.1	2.9
92.5°	15.9	14.9	14.0	13.3	12.8	12.2	11.6	11.1	11.6	12.2	12.8
95°	33.2	32.2	31.2	30.6	30.4	30.2	30.0	29.8	30.0	30.2	30.4
97.5°	53.3	51.9	50.5	49.8	49.7	49.6	49.5	49.4	49.5	49.6	49.7
100°	67.4	66.0	64.7	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
102.5°	83.3	82.7	82.0	81.5	81.1	80.7	80.2	79.8	80.2	80.7	81.1
105°	108.2	107.6	106.9	106.4	105.8	105.3	104.8	104.3	104.8	105.3	105.8
107.5°	134.9	134.4	134.0	133.5	133.0	132.5	132.0	131.5	132.0	132.5	133.0
110°	153.2	152.9	152.6	152.2	151.7	151.2	150.7	150.2	150.7	151.2	151.7



TEST NUMBER: P333431-840

CATALOG NUMBER: S125DIW-S1090D470U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	171.4	171.0	170.6	170.3	170.0	169.7	169.5	169.2	169.5	169.7	170.0
115°	199.7	199.4	199.2	198.9	198.5	198.1	197.6	197.2	197.6	198.1	198.5
117.5°	226.7	226.6	226.4	226.2	226.0	225.8	225.6	225.5	225.6	225.8	226.0
120°	245.6	245.5	245.4	245.1	244.6	244.1	243.6	243.1	243.6	244.1	244.6
122.5°	263.6	263.3	263.1	262.8	262.7	262.5	262.3	262.1	262.3	262.5	262.7
125°	290.9	290.8	290.7	290.3	289.7	289.1	288.5	287.9	288.5	289.1	289.7
127.5°	317.2	317.1	317.0	316.8	316.4	316.1	315.7	315.4	315.7	316.1	316.4
130°	334.7	334.5	334.3	333.9	333.4	332.9	332.3	331.8	332.3	332.9	333.4
132.5°	351.9	352.0	352.0	351.6	350.8	350.0	349.1	348.3	349.1	350.0	350.8
135°	377.4	377.3	377.2	376.9	376.3	375.7	375.1	374.4	375.1	375.7	376.3
137.5°	402.1	401.9	401.7	401.3	400.7	400.1	399.5	398.9	399.5	400.1	400.7
140°	417.8	417.5	417.2	416.7	416.2	415.7	415.2	414.7	415.2	415.7	416.2
142.5°	433.3	432.9	432.5	432.1	431.7	431.3	430.8	430.4	430.8	431.3	431.7
145°	456.2	455.9	455.6	455.2	454.8	454.4	454.0	453.6	454.0	454.4	454.8
147.5°	476.7	476.4	476.2	475.9	475.6	475.4	475.2	475.0	475.2	475.4	475.6
150°	489.9	489.5	489.1	488.9	489.0	489.1	489.2	489.3	489.2	489.1	489.0
152.5°	502.1	501.9	501.7	501.6	501.4	501.3	501.2	501.0	501.2	501.3	501.4
155°	519.3	519.2	519.1	519.1	519.1	519.1	519.1	519.1	519.1	519.1	519.1
157.5°	534.4	534.3	534.2	534.2	534.5	534.7	534.9	535.1	534.9	534.7	534.5
160°	543.5	543.4	543.3	543.4	543.7	544.0	544.4	544.7	544.4	544.0	543.7
162.5°	552.1	552.1	552.1	552.2	552.4	552.7	552.9	553.1	552.9	552.7	552.4
165°	563.7	563.6	563.5	563.5	563.7	563.9	564.1	564.3	564.1	563.9	563.7
167.5°	572.1	572.1	572.1	572.3	572.7	573.1	573.5	573.9	573.5	573.1	572.7
170°	577.1	577.1	577.1	577.3	577.7	578.1	578.6	579.0	578.6	578.1	577.7
172.5°	580.9	580.9	580.9	581.1	581.5	581.9	582.3	582.7	582.3	581.9	581.5
175°	584.9	584.9	584.9	585.1	585.5	585.9	586.3	586.8	586.3	585.9	585.5
177.5°	587.2	587.3	587.3	587.5	587.9	588.2	588.5	588.9	588.5	588.2	587.9
180°	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1



TEST NUMBER: P333431-840

CATALOG NUMBER: S125DIW-S1090D470U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1578.0	1572.1	1567.1	1556.2	1550.2	1542.1	1535.5	1542.6	1535.0	1538.2	1533.4
5°	1528.8	1509.7	1496.1	1476.3	1459.4	1443.6	1432.1	1430.0	1424.5	1421.8	1413.6
7.5°	1469.7	1445.8	1422.4	1396.4	1374.6	1352.4	1338.3	1326.6	1318.8	1308.6	1301.6
10°	1434.8	1402.7	1375.5	1344.1	1316.9	1293.0	1273.9	1264.4	1255.6	1242.5	1237.8
12.5°	1391.7	1358.6	1325.3	1291.8	1265.6	1239.0	1222.6	1208.2	1202.0	1187.5	1186.0
15°	1340.1	1290.3	1257.6	1223.5	1187.4	1165.6	1152.0	1136.2	1129.4	1119.2	1111.7
17.5°	1278.4	1234.0	1193.1	1157.8	1126.8	1108.4	1091.6	1080.8	1069.0	1062.4	1050.1
20°	1233.8	1191.4	1150.5	1113.1	1089.2	1068.0	1054.4	1044.2	1032.0	1028.5	1016.3
22.5°	1196.1	1149.4	1110.2	1078.7	1052.7	1028.9	1014.1	1007.1	998.7	988.2	985.7
25°	1134.9	1086.5	1053.1	1021.8	998.6	976.7	966.5	957.7	949.5	942.0	939.3
27.5°	1082.0	1038.7	999.1	970.8	950.6	930.7	921.7	910.9	904.9	898.9	891.5
30°	1044.9	1000.6	965.8	938.6	916.8	899.1	889.5	882.0	876.6	871.1	867.0
32.5°	1006.7	965.7	932.0	905.3	883.5	870.1	861.7	856.4	850.4	843.8	838.7
35°	956.3	911.3	878.6	855.5	838.4	828.2	818.6	813.9	807.0	807.0	801.5
37.5°	899.5	860.6	831.7	810.6	795.3	786.2	775.8	772.5	768.2	765.3	763.4
40°	865.7	829.5	802.2	781.1	764.8	757.3	749.1	743.7	740.9	737.5	736.1
42.5°	830.7	796.3	770.1	750.6	736.4	730.0	722.4	718.5	713.1	708.6	707.8
45°	777.7	744.3	720.4	704.8	692.5	685.0	680.2	672.1	669.3	663.9	663.2
47.5°	727.4	695.4	672.0	659.1	648.3	642.2	634.7	626.5	623.4	620.7	620.4
50°	689.8	660.5	638.6	626.4	616.2	607.3	599.9	594.4	592.3	592.3	593.7
52.5°	651.7	626.6	608.1	593.1	583.5	574.0	567.1	563.8	560.7	564.0	566.4
55°	595.7	570.5	556.8	542.6	533.0	522.1	518.7	517.4	515.3	520.8	523.5
57.5°	536.5	518.9	502.9	488.7	480.1	473.8	469.2	468.4	472.2	474.8	483.6
60°	499.0	478.5	464.1	453.2	443.0	439.0	437.6	436.3	439.0	446.5	458.1
62.5°	457.5	440.9	425.5	417.3	409.8	402.9	402.7	403.5	409.0	417.6	429.1
65°	396.7	382.3	372.1	362.6	356.5	352.3	353.8	356.5	362.6	374.2	387.2
67.5°	335.0	325.2	316.0	308.2	302.4	302.4	303.8	307.8	315.1	328.4	340.2
70°	295.2	284.3	276.7	273.4	268.5	265.8	269.9	276.7	282.9	295.2	305.4
72.5°	255.3	246.1	240.2	237.9	235.8	233.7	235.0	242.4	250.6	263.0	274.8
75°	196.3	192.9	188.8	186.1	184.0	185.4	186.7	193.6	200.4	213.4	227.0
77.5°	143.3	139.8	137.2	136.6	135.5	136.2	140.0	145.0	151.7	161.2	171.5
80°	108.4	107.0	105.6	104.9	104.9	105.6	111.1	114.5	120.7	129.5	137.6
82.5°	79.0	78.1	77.9	77.7	78.3	78.4	81.7	86.1	91.2	97.9	104.9
85°	41.6	40.2	42.2	42.9	41.6	43.6	44.9	47.7	49.8	53.1	56.6
87.5°	14.3	15.7	15.2	15.9	16.1	17.3	16.9	19.1	20.3	21.5	21.0
90°	3.7	4.4	5.2	5.9	6.6	7.4	7.9	8.4	8.9	9.4	9.8
92.5°	13.3	14.0	14.9	15.9	16.7	17.6	18.3	18.9	19.6	20.3	20.7
95°	30.6	31.2	32.2	33.2	34.2	35.2	36.0	36.7	37.4	38.1	38.6
97.5°	49.8	50.5	51.9	53.3	54.7	56.1	56.8	57.5	58.2	58.8	59.2
100°	64.1	64.7	66.0	67.4	68.7	70.0	71.0	71.9	72.8	73.7	74.2
102.5°	81.5	82.0	82.7	83.3	84.0	84.6	85.6	86.6	87.7	88.7	89.3
105°	106.4	106.9	107.6	108.2	108.8	109.4	110.0	110.6	111.2	111.8	112.3
107.5°	133.5	134.0	134.4	134.9	135.4	135.8	136.1	136.4	136.7	137.0	137.2
110°	152.2	152.6	152.9	153.2	153.5	153.8	154.1	154.4	154.7	155.0	155.1



TEST NUMBER: P333431-840

CATALOG NUMBER: S125DIW-S1090D470U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	170.3	170.6	171.0	171.4	171.7	172.1	172.3	172.4	172.5	172.7	172.7
115°	198.9	199.2	199.4	199.7	199.9	200.1	200.0	199.9	199.8	199.7	199.5
117.5°	226.2	226.4	226.6	226.7	226.9	227.1	227.2	227.3	227.3	227.4	227.3
120°	245.1	245.4	245.5	245.6	245.7	245.8	245.8	245.8	245.8	245.8	245.6
122.5°	262.8	263.1	263.3	263.6	263.9	264.1	264.0	264.0	263.9	263.8	263.6
125°	290.3	290.7	290.8	290.9	291.0	291.1	290.9	290.7	290.5	290.3	290.1
127.5°	316.8	317.0	317.1	317.2	317.3	317.5	317.4	317.3	317.2	317.1	316.9
130°	333.9	334.3	334.5	334.7	334.9	335.1	335.0	334.9	334.8	334.7	334.5
132.5°	351.6	352.0	352.0	351.9	351.9	351.8	351.7	351.6	351.5	351.4	351.3
135°	376.9	377.2	377.3	377.4	377.5	377.6	377.6	377.6	377.6	377.6	377.4
137.5°	401.3	401.7	401.9	402.1	402.3	402.6	402.7	402.8	402.9	403.1	402.9
140°	416.7	417.2	417.5	417.8	418.1	418.4	418.6	418.8	419.0	419.2	419.0
142.5°	432.1	432.5	432.9	433.3	433.7	434.1	434.2	434.3	434.4	434.5	434.3
145°	455.2	455.6	455.9	456.2	456.5	456.8	456.8	456.8	456.8	456.8	456.7
147.5°	475.9	476.2	476.4	476.7	476.9	477.2	477.4	477.6	477.9	478.1	477.9
150°	488.9	489.1	489.5	489.9	490.3	490.7	490.7	490.7	490.7	490.7	490.6
152.5°	501.6	501.7	501.9	502.1	502.2	502.4	502.6	502.9	503.1	503.3	503.3
155°	519.1	519.1	519.2	519.3	519.4	519.5	519.9	520.3	520.7	521.1	521.1
157.5°	534.2	534.2	534.3	534.4	534.5	534.6	535.0	535.4	535.8	536.2	536.1
160°	543.4	543.3	543.4	543.5	543.6	543.7	544.2	544.6	545.0	545.4	545.3
162.5°	552.2	552.1	552.1	552.1	552.2	552.2	552.7	553.2	553.6	554.1	554.1
165°	563.5	563.5	563.6	563.7	563.8	563.9	564.3	564.7	565.1	565.5	565.4
167.5°	572.3	572.1	572.1	572.1	572.1	572.1	572.7	573.3	573.9	574.5	574.5
170°	577.3	577.1	577.1	577.1	577.1	577.1	577.7	578.3	579.0	579.7	579.6
172.5°	581.1	580.9	580.9	580.9	580.9	580.9	581.5	582.1	582.7	583.3	583.3
175°	585.1	584.9	584.9	584.9	584.9	584.9	585.5	586.1	586.8	587.4	587.3
177.5°	587.5	587.3	587.3	587.2	587.1	587.0	587.5	588.0	588.5	589.1	589.0
180°	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1



TEST NUMBER: P333431-840

CATALOG NUMBER: S125DIW-S1090D470U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1530.0	1533.9	1530.7	1535.0	1530.7	1533.9	1530.0	1533.4	1538.2	1535.0	1542.6
5°	1410.3	1404.1	1408.2	1405.4	1408.2	1404.1	1410.3	1413.6	1421.8	1424.5	1430.0
7.5°	1299.6	1293.7	1287.0	1283.8	1287.0	1293.7	1299.6	1301.6	1308.6	1318.8	1326.6
10°	1230.3	1222.8	1222.1	1217.4	1222.1	1222.8	1230.3	1237.8	1242.5	1255.6	1264.4
12.5°	1179.6	1172.7	1164.9	1162.9	1164.9	1172.7	1179.6	1186.0	1187.5	1202.0	1208.2
15°	1107.6	1102.2	1097.4	1101.5	1097.4	1102.2	1107.6	1111.7	1119.2	1129.4	1136.2
17.5°	1047.7	1043.3	1042.5	1037.4	1042.5	1043.3	1047.7	1050.1	1062.4	1069.0	1080.8
20°	1010.2	1006.7	1008.1	999.3	1008.1	1006.7	1010.2	1016.3	1028.5	1032.0	1044.2
22.5°	980.2	973.5	972.7	970.9	972.7	973.5	980.2	985.7	988.2	998.7	1007.1
25°	933.1	929.7	926.3	929.7	926.3	929.7	933.1	939.3	942.0	949.5	957.7
27.5°	892.1	888.0	887.1	887.5	887.1	888.0	892.1	891.5	898.9	904.9	910.9
30°	867.0	860.2	860.9	860.2	860.9	860.2	867.0	867.0	871.1	876.6	882.0
32.5°	839.7	835.1	834.1	832.9	834.1	835.1	839.7	838.7	843.8	850.4	856.4
35°	799.5	799.5	796.1	796.1	796.1	799.5	799.5	801.5	807.0	807.0	813.9
37.5°	761.7	761.0	759.0	759.3	759.0	761.0	761.7	763.4	765.3	768.2	772.5
40°	733.4	732.8	730.6	726.6	730.6	732.8	733.4	736.1	737.5	740.9	743.7
42.5°	706.1	703.9	702.9	701.6	702.9	703.9	706.1	707.8	708.6	713.1	718.5
45°	663.2	663.2	661.9	661.2	661.9	663.2	663.2	663.2	663.9	669.3	672.1
47.5°	621.5	622.7	625.3	624.9	625.3	622.7	621.5	620.4	620.7	623.4	626.5
50°	596.4	597.1	599.2	599.9	599.2	597.1	596.4	593.7	592.3	592.3	594.4
52.5°	568.6	572.6	575.1	574.7	575.1	572.6	568.6	566.4	564.0	560.7	563.8
55°	529.6	534.4	539.2	539.9	539.2	534.4	529.6	523.5	520.8	515.3	517.4
57.5°	491.0	497.7	502.7	504.4	502.7	497.7	491.0	483.6	474.8	472.2	468.4
60°	464.8	473.7	479.9	482.6	479.9	473.7	464.8	458.1	446.5	439.0	436.3
62.5°	439.8	449.7	455.9	456.4	455.9	449.7	439.8	429.1	417.6	409.0	403.5
65°	398.7	409.0	414.4	418.5	414.4	409.0	398.7	387.2	374.2	362.6	356.5
67.5°	354.6	364.8	370.8	374.1	370.8	364.8	354.6	340.2	328.4	315.1	307.8
70°	322.4	332.6	340.8	343.6	340.8	332.6	322.4	305.4	295.2	282.9	276.7
72.5°	290.7	299.9	306.5	309.7	306.5	299.9	290.7	274.8	263.0	250.6	242.4
75°	235.8	248.1	254.3	257.6	254.3	248.1	235.8	227.0	213.4	200.4	193.6
77.5°	181.9	193.0	196.7	198.4	196.7	193.0	181.9	171.5	161.2	151.7	145.0
80°	145.8	152.7	157.4	158.1	157.4	152.7	145.8	137.6	129.5	120.7	114.5
82.5°	112.1	117.8	119.3	121.1	119.3	117.8	112.1	104.9	97.9	91.2	86.1
85°	61.3	64.0	64.7	64.0	64.7	64.0	61.3	56.6	53.1	49.8	47.7
87.5°	22.2	21.7	21.8	22.9	21.8	21.7	22.2	21.0	21.5	20.3	19.1
90°	10.1	10.4	10.7	11.0	10.7	10.4	10.1	9.8	9.4	8.9	8.4
92.5°	20.9	21.1	21.4	21.6	21.4	21.1	20.9	20.7	20.3	19.6	18.9
95°	38.8	39.0	39.2	39.4	39.2	39.0	38.8	38.6	38.1	37.4	36.7
97.5°	59.3	59.5	59.6	59.7	59.6	59.5	59.3	59.2	58.8	58.2	57.5
100°	74.4	74.6	74.8	75.0	74.8	74.6	74.4	74.2	73.7	72.8	71.9
102.5°	89.6	89.9	90.2	90.5	90.2	89.9	89.6	89.3	88.7	87.7	86.6
105°	112.6	112.9	113.2	113.5	113.2	112.9	112.6	112.3	111.8	111.2	110.6
107.5°	137.2	137.1	137.1	137.1	137.1	137.1	137.2	137.2	137.0	136.7	136.4
110°	155.0	154.9	154.8	154.7	154.8	154.9	155.0	155.1	155.0	154.7	154.4



TEST NUMBER: P333431-840

CATALOG NUMBER: S125DIW-S1090D470U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	172.5	172.3	172.1	171.9	172.1	172.3	172.5	172.7	172.7	172.5	172.4
115°	199.4	199.3	199.2	199.1	199.2	199.3	199.4	199.5	199.7	199.8	199.9
117.5°	226.9	226.5	226.0	225.6	226.0	226.5	226.9	227.3	227.4	227.3	227.3
120°	245.2	244.8	244.4	244.0	244.4	244.8	245.2	245.6	245.8	245.8	245.8
122.5°	263.3	263.0	262.6	262.3	262.6	263.0	263.3	263.6	263.8	263.9	264.0
125°	290.0	289.9	289.8	289.7	289.8	289.9	290.0	290.1	290.3	290.5	290.7
127.5°	316.7	316.5	316.3	316.1	316.3	316.5	316.7	316.9	317.1	317.2	317.3
130°	334.3	334.1	333.9	333.7	333.9	334.1	334.3	334.5	334.7	334.8	334.9
132.5°	351.0	350.7	350.4	350.1	350.4	350.7	351.0	351.3	351.4	351.5	351.6
135°	377.0	376.6	376.2	375.8	376.2	376.6	377.0	377.4	377.6	377.6	377.6
137.5°	402.4	401.9	401.3	400.8	401.3	401.9	402.4	402.9	403.1	402.9	402.8
140°	418.5	418.0	417.5	417.0	417.5	418.0	418.5	419.0	419.2	419.0	418.8
142.5°	433.8	433.3	432.8	432.3	432.8	433.3	433.8	434.3	434.5	434.4	434.3
145°	456.4	456.1	455.8	455.4	455.8	456.1	456.4	456.7	456.8	456.8	456.8
147.5°	477.2	476.5	475.7	475.1	475.7	476.5	477.2	477.9	478.1	477.9	477.6
150°	490.4	490.2	490.0	489.8	490.0	490.2	490.4	490.6	490.7	490.7	490.7
152.5°	502.9	502.6	502.2	501.8	502.2	502.6	502.9	503.3	503.3	503.1	502.9
155°	520.6	520.1	519.6	519.1	519.6	520.1	520.6	521.1	521.1	520.7	520.3
157.5°	535.4	534.7	534.1	533.4	534.1	534.7	535.4	536.1	536.2	535.8	535.4
160°	544.8	544.3	543.8	543.3	543.8	544.3	544.8	545.3	545.4	545.0	544.6
162.5°	553.5	552.9	552.3	551.7	552.3	552.9	553.5	554.1	554.1	553.6	553.2
165°	564.8	564.2	563.6	563.0	563.6	564.2	564.8	565.4	565.5	565.1	564.7
167.5°	573.8	573.2	572.6	572.0	572.6	573.2	573.8	574.5	574.5	573.9	573.3
170°	578.9	578.1	577.4	576.7	577.4	578.1	578.9	579.6	579.7	579.0	578.3
172.5°	582.6	582.0	581.4	580.8	581.4	582.0	582.6	583.3	583.3	582.7	582.1
175°	586.6	585.9	585.2	584.5	585.2	585.9	586.6	587.3	587.4	586.8	586.1
177.5°	588.4	587.8	587.2	586.7	587.2	587.8	588.4	589.0	589.1	588.5	588.0
180°	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1



TEST NUMBER: P333431-840

CATALOG NUMBER: S125DIW-S1090D470U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1535.5	1542.1	1550.2	1556.2	1567.1	1572.1	1578.0	1583.0	1591.6	1599.8	1609.7
5°	1432.1	1443.6	1459.4	1476.3	1496.1	1509.7	1528.8	1540.4	1563.6	1584.8	1605.2
7.5°	1338.3	1352.4	1374.6	1396.4	1422.4	1445.8	1469.7	1496.1	1525.7	1560.6	1589.5
10°	1273.9	1293.0	1316.9	1344.1	1375.5	1402.7	1434.8	1463.4	1499.5	1540.4	1578.6
12.5°	1222.6	1239.0	1265.6	1291.8	1325.3	1358.6	1391.7	1429.6	1471.8	1517.0	1565.0
15°	1152.0	1165.6	1187.4	1223.5	1257.6	1290.3	1340.1	1375.5	1428.7	1479.0	1537.0
17.5°	1091.6	1108.4	1126.8	1157.8	1193.1	1234.0	1278.4	1322.8	1374.1	1438.0	1503.4
20°	1054.4	1068.0	1089.2	1113.1	1150.5	1191.4	1233.8	1278.7	1341.4	1407.5	1477.7
22.5°	1014.1	1028.9	1052.7	1078.7	1110.2	1149.4	1196.1	1245.5	1310.9	1375.9	1452.1
25°	966.5	976.7	998.6	1021.8	1053.1	1086.5	1134.9	1189.4	1254.2	1328.5	1406.1
27.5°	921.7	930.7	950.6	970.8	999.1	1038.7	1082.0	1137.1	1198.1	1273.3	1359.6
30°	889.5	899.1	916.8	938.6	965.8	1000.6	1044.9	1096.7	1162.2	1235.8	1325.8
32.5°	861.7	870.1	883.5	905.3	932.0	965.7	1006.7	1059.7	1125.1	1199.7	1288.1
35°	818.6	828.2	838.4	855.5	878.6	911.3	956.3	1006.0	1068.7	1141.0	1222.1
37.5°	775.8	786.2	795.3	810.6	831.7	860.6	899.5	951.3	1007.9	1077.6	1155.5
40°	749.1	757.3	764.8	781.1	802.2	829.5	865.7	912.0	972.0	1036.7	1101.5
42.5°	722.4	730.0	736.4	750.6	770.1	796.3	830.7	876.0	931.6	992.0	1049.1
45°	680.2	685.0	692.5	704.8	720.4	744.3	777.7	817.9	864.9	922.2	965.1
47.5°	634.7	642.2	648.3	659.1	672.0	695.4	727.4	761.6	804.3	846.9	877.1
50°	599.9	607.3	616.2	626.4	638.6	660.5	689.8	724.6	760.6	793.3	819.3
52.5°	567.1	574.0	583.5	593.1	608.1	626.6	651.7	682.6	718.1	741.5	763.2
55°	518.7	522.1	533.0	542.6	556.8	570.5	595.7	623.0	644.8	662.6	680.2
57.5°	469.2	473.8	480.1	488.7	502.9	518.9	536.5	560.7	573.5	582.6	596.4
60°	437.6	439.0	443.0	453.2	464.1	478.5	499.0	515.9	525.5	533.0	544.6
62.5°	402.7	402.9	409.8	417.3	425.5	440.9	457.5	471.3	479.2	482.8	493.9
65°	353.8	352.3	356.5	362.6	372.1	382.3	396.7	409.0	408.3	412.3	419.2
67.5°	303.8	302.4	302.4	308.2	316.0	325.2	335.0	342.0	342.1	347.6	351.0
70°	269.9	265.8	268.5	273.4	276.7	284.3	295.2	297.9	298.5	301.2	304.7
72.5°	235.0	233.7	235.8	237.9	240.2	246.1	255.3	257.0	257.1	258.7	264.3
75°	186.7	185.4	184.0	186.1	188.8	192.9	196.3	199.0	198.3	199.0	203.1
77.5°	140.0	136.2	135.5	136.6	137.2	139.8	143.3	143.0	143.7	143.5	148.1
80°	111.1	105.6	104.9	104.9	105.6	107.0	108.4	109.8	107.7	109.8	111.1
82.5°	81.7	78.4	78.3	77.7	77.9	78.1	79.0	79.8	79.4	80.3	81.1
85°	44.9	43.6	41.6	42.9	42.2	40.2	41.6	39.5	38.9	39.5	40.2
87.5°	16.9	17.3	16.1	15.9	15.2	15.7	14.3	13.6	12.9	13.3	14.8
90°	7.9	7.4	6.6	5.9	5.2	4.4	3.7	2.9	2.1	1.3	0.5
92.5°	18.3	17.6	16.7	15.9	14.9	14.0	13.3	12.8	12.2	11.6	11.1
95°	36.0	35.2	34.2	33.2	32.2	31.2	30.6	30.4	30.2	30.0	29.8
97.5°	56.8	56.1	54.7	53.3	51.9	50.5	49.8	49.7	49.6	49.5	49.4
100°	71.0	70.0	68.7	67.4	66.0	64.7	64.1	64.1	64.1	64.1	64.1
102.5°	85.6	84.6	84.0	83.3	82.7	82.0	81.5	81.1	80.7	80.2	79.8
105°	110.0	109.4	108.8	108.2	107.6	106.9	106.4	105.8	105.3	104.8	104.3
107.5°	136.1	135.8	135.4	134.9	134.4	134.0	133.5	133.0	132.5	132.0	131.5
110°	154.1	153.8	153.5	153.2	152.9	152.6	152.2	151.7	151.2	150.7	150.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	172.3	172.1	171.7	171.4	171.0	170.6	170.3	170.0	169.7	169.5	169.2
115°	200.0	200.1	199.9	199.7	199.4	199.2	198.9	198.5	198.1	197.6	197.2
117.5°	227.2	227.1	226.9	226.7	226.6	226.4	226.2	226.0	225.8	225.6	225.5
120°	245.8	245.8	245.7	245.6	245.5	245.4	245.1	244.6	244.1	243.6	243.1
122.5°	264.0	264.1	263.9	263.6	263.3	263.1	262.8	262.7	262.5	262.3	262.1
125°	290.9	291.1	291.0	290.9	290.8	290.7	290.3	289.7	289.1	288.5	287.9
127.5°	317.4	317.5	317.3	317.2	317.1	317.0	316.8	316.4	316.1	315.7	315.4
130°	335.0	335.1	334.9	334.7	334.5	334.3	333.9	333.4	332.9	332.3	331.8
132.5°	351.7	351.8	351.9	351.9	352.0	352.0	351.6	350.8	350.0	349.1	348.3
135°	377.6	377.6	377.5	377.4	377.3	377.2	376.9	376.3	375.7	375.1	374.4
137.5°	402.7	402.6	402.3	402.1	401.9	401.7	401.3	400.7	400.1	399.5	398.9
140°	418.6	418.4	418.1	417.8	417.5	417.2	416.7	416.2	415.7	415.2	414.7
142.5°	434.2	434.1	433.7	433.3	432.9	432.5	432.1	431.7	431.3	430.8	430.4
145°	456.8	456.8	456.5	456.2	455.9	455.6	455.2	454.8	454.4	454.0	453.6
147.5°	477.4	477.2	476.9	476.7	476.4	476.2	475.9	475.6	475.4	475.2	475.0
150°	490.7	490.7	490.3	489.9	489.5	489.1	488.9	489.0	489.1	489.2	489.3
152.5°	502.6	502.4	502.2	502.1	501.9	501.7	501.6	501.4	501.3	501.2	501.0
155°	519.9	519.5	519.4	519.3	519.2	519.1	519.1	519.1	519.1	519.1	519.1
157.5°	535.0	534.6	534.5	534.4	534.3	534.2	534.2	534.5	534.7	534.9	535.1
160°	544.2	543.7	543.6	543.5	543.4	543.3	543.4	543.7	544.0	544.4	544.7
162.5°	552.7	552.2	552.2	552.1	552.1	552.1	552.2	552.4	552.7	552.9	553.1
165°	564.3	563.9	563.8	563.7	563.6	563.5	563.5	563.7	563.9	564.1	564.3
167.5°	572.7	572.1	572.1	572.1	572.1	572.1	572.3	572.7	573.1	573.5	573.9
170°	577.7	577.1	577.1	577.1	577.1	577.1	577.3	577.7	578.1	578.6	579.0
172.5°	581.5	580.9	580.9	580.9	580.9	580.9	581.1	581.5	581.9	582.3	582.7
175°	585.5	584.9	584.9	584.9	584.9	584.9	585.1	585.5	585.9	586.3	586.8
177.5°	587.5	587.0	587.1	587.2	587.3	587.3	587.5	587.9	588.2	588.5	588.9
180°	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1



TEST NUMBER: P333431-840

CATALOG NUMBER: S125DIW-S1090D470U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1614.6	1622.2	1627.1	1636.4	1644.1	1648.4	1652.2	1655.5	1659.3	1662.5	1671.8
5°	1625.0	1642.6	1657.7	1680.8	1702.0	1718.4	1736.1	1751.7	1764.6	1783.1	1797.4
7.5°	1620.4	1651.9	1685.0	1720.8	1757.5	1791.5	1822.9	1852.2	1878.8	1911.0	1939.1
10°	1616.1	1659.0	1701.3	1749.7	1799.5	1841.7	1881.3	1921.5	1950.8	1991.7	2026.4
12.5°	1612.9	1663.3	1714.3	1772.6	1827.2	1886.9	1939.5	1968.9	2013.5	2046.2	2087.5
15°	1599.0	1665.9	1736.1	1801.5	1879.2	1934.4	1980.7	2038.0	2079.6	2121.1	2166.2
17.5°	1574.4	1650.0	1728.6	1814.3	1888.9	1948.1	2007.9	2063.1	2112.7	2168.5	2224.5
20°	1563.0	1638.6	1728.6	1816.4	1889.5	1951.5	2012.8	2073.5	2128.0	2199.6	2264.3
22.5°	1538.9	1630.4	1713.3	1799.1	1874.1	1941.7	2011.1	2080.0	2152.5	2233.3	2314.5
25°	1496.1	1588.8	1676.8	1761.3	1836.9	1921.5	1995.8	2087.8	2180.5	2287.4	2388.3
27.5°	1451.7	1540.4	1621.0	1702.6	1790.9	1886.5	1983.0	2087.4	2208.7	2343.8	2486.1
30°	1415.7	1499.5	1577.9	1661.7	1753.7	1861.5	1967.1	2091.1	2231.6	2383.6	2552.6
32.5°	1373.7	1451.0	1527.2	1616.0	1716.2	1829.9	1953.0	2089.0	2257.8	2430.4	2604.4
35°	1301.9	1366.7	1445.0	1539.7	1652.9	1783.1	1925.5	2086.4	2280.0	2478.3	2624.8
37.5°	1216.7	1277.0	1359.6	1463.4	1582.1	1721.7	1890.8	2081.6	2287.2	2445.4	2492.6
40°	1159.4	1215.3	1301.2	1408.9	1530.2	1678.1	1863.5	2065.3	2264.3	2365.2	2326.3
42.5°	1098.3	1157.0	1240.6	1347.3	1477.8	1638.9	1829.2	2030.9	2197.8	2235.9	2101.6
45°	1002.0	1062.6	1145.1	1252.8	1393.2	1567.7	1766.1	1949.4	2045.5	1976.7	1768.8
47.5°	912.4	969.3	1045.7	1156.8	1301.7	1482.2	1673.2	1819.5	1827.1	1662.8	1440.8
50°	851.3	903.8	980.9	1092.0	1235.8	1418.5	1590.8	1706.1	1654.3	1468.1	1254.9
52.5°	791.3	842.7	918.7	1028.6	1170.8	1338.3	1498.7	1579.5	1482.0	1291.0	1108.7
55°	704.8	749.7	824.0	925.6	1060.6	1216.0	1352.3	1380.3	1253.4	1065.3	917.5
57.5°	620.3	662.3	729.8	823.3	946.7	1084.4	1191.0	1185.1	1051.1	889.6	772.2
60°	563.0	603.9	663.9	755.2	867.7	986.3	1077.6	1055.8	922.9	783.9	685.0
62.5°	511.8	548.3	605.0	684.9	787.5	897.4	972.4	940.2	810.0	688.4	610.4
65°	436.3	466.9	515.3	583.5	668.6	759.3	817.3	775.7	664.6	569.9	507.2
67.5°	364.2	388.7	429.3	483.6	556.3	629.1	664.4	622.6	533.7	464.5	418.1
70°	318.3	340.1	371.4	419.9	483.2	544.6	571.2	533.7	457.4	398.1	364.7
72.5°	272.5	290.5	318.0	361.5	412.3	465.5	488.9	453.0	390.3	340.2	309.0
75°	210.7	222.9	242.0	272.0	312.1	354.5	367.4	336.1	295.8	258.3	237.9
77.5°	150.8	161.2	175.6	194.5	223.0	249.8	261.2	243.1	212.0	188.2	171.5
80°	115.8	121.3	133.6	149.3	171.8	188.8	196.3	184.7	162.9	145.2	132.2
82.5°	82.6	88.1	95.4	108.4	122.7	134.3	142.3	134.5	118.8	104.8	97.4
85°	40.2	43.6	47.7	53.1	64.0	70.9	70.2	65.4	59.3	53.8	49.8
87.5°	14.4	15.1	17.0	19.8	21.6	23.9	25.1	24.2	22.2	20.6	19.1
90°	1.3	2.1	2.9	3.7	4.4	5.2	5.9	6.6	7.4	7.9	8.4
92.5°	11.6	12.2	12.8	13.3	14.0	14.9	15.9	16.7	17.6	18.3	18.9
95°	30.0	30.2	30.4	30.6	31.2	32.2	33.2	34.2	35.2	36.0	36.7
97.5°	49.5	49.6	49.7	49.8	50.5	51.9	53.3	54.7	56.1	56.8	57.5
100°	64.1	64.1	64.1	64.1	64.7	66.0	67.4	68.7	70.0	71.0	71.9
102.5°	80.2	80.7	81.1	81.5	82.0	82.7	83.3	84.0	84.6	85.6	86.6
105°	104.8	105.3	105.8	106.4	106.9	107.6	108.2	108.8	109.4	110.0	110.6
107.5°	132.0	132.5	133.0	133.5	134.0	134.4	134.9	135.4	135.8	136.1	136.4
110°	150.7	151.2	151.7	152.2	152.6	152.9	153.2	153.5	153.8	154.1	154.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	169.5	169.7	170.0	170.3	170.6	171.0	171.4	171.7	172.1	172.3	172.4
115°	197.6	198.1	198.5	198.9	199.2	199.4	199.7	199.9	200.1	200.0	199.9
117.5°	225.6	225.8	226.0	226.2	226.4	226.6	226.7	226.9	227.1	227.2	227.3
120°	243.6	244.1	244.6	245.1	245.4	245.5	245.6	245.7	245.8	245.8	245.8
122.5°	262.3	262.5	262.7	262.8	263.1	263.3	263.6	263.9	264.1	264.0	264.0
125°	288.5	289.1	289.7	290.3	290.7	290.8	290.9	291.0	291.1	290.9	290.7
127.5°	315.7	316.1	316.4	316.8	317.0	317.1	317.2	317.3	317.5	317.4	317.3
130°	332.3	332.9	333.4	333.9	334.3	334.5	334.7	334.9	335.1	335.0	334.9
132.5°	349.1	350.0	350.8	351.6	352.0	352.0	351.9	351.9	351.8	351.7	351.6
135°	375.1	375.7	376.3	376.9	377.2	377.3	377.4	377.5	377.6	377.6	377.6
137.5°	399.5	400.1	400.7	401.3	401.7	401.9	402.1	402.3	402.6	402.7	402.8
140°	415.2	415.7	416.2	416.7	417.2	417.5	417.8	418.1	418.4	418.6	418.8
142.5°	430.8	431.3	431.7	432.1	432.5	432.9	433.3	433.7	434.1	434.2	434.3
145°	454.0	454.4	454.8	455.2	455.6	455.9	456.2	456.5	456.8	456.8	456.8
147.5°	475.2	475.4	475.6	475.9	476.2	476.4	476.7	476.9	477.2	477.4	477.6
150°	489.2	489.1	489.0	488.9	489.1	489.5	489.9	490.3	490.7	490.7	490.7
152.5°	501.2	501.3	501.4	501.6	501.7	501.9	502.1	502.2	502.4	502.6	502.9
155°	519.1	519.1	519.1	519.1	519.1	519.2	519.3	519.4	519.5	519.9	520.3
157.5°	534.9	534.7	534.5	534.2	534.2	534.3	534.4	534.5	534.6	535.0	535.4
160°	544.4	544.0	543.7	543.4	543.3	543.4	543.5	543.6	543.7	544.2	544.6
162.5°	552.9	552.7	552.4	552.2	552.1	552.1	552.1	552.2	552.2	552.7	553.2
165°	564.1	563.9	563.7	563.5	563.5	563.6	563.7	563.8	563.9	564.3	564.7
167.5°	573.5	573.1	572.7	572.3	572.1	572.1	572.1	572.1	572.1	572.7	573.3
170°	578.6	578.1	577.7	577.3	577.1	577.1	577.1	577.1	577.1	577.7	578.3
172.5°	582.3	581.9	581.5	581.1	580.9	580.9	580.9	580.9	580.9	581.5	582.1
175°	586.3	585.9	585.5	585.1	584.9	584.9	584.9	584.9	584.9	585.5	586.1
177.5°	588.5	588.2	587.9	587.5	587.3	587.3	587.2	587.1	587.0	587.5	588.0
180°	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1679.5	1683.8	1693.1	1689.8	1694.3	1696.4	1698.6
5°	1815.1	1836.9	1846.4	1845.1	1859.5	1856.0	1852.6
7.5°	1968.3	1991.3	2004.1	2020.0	2029.3	2029.9	2038.0
10°	2055.1	2085.1	2097.3	2114.4	2125.3	2131.4	2130.7
12.5°	2121.6	2145.1	2172.5	2180.9	2195.6	2203.3	2200.5
15°	2201.6	2239.1	2267.8	2282.0	2300.5	2305.9	2313.4
17.5°	2273.0	2323.3	2356.7	2401.2	2417.9	2428.1	2422.2
20°	2327.0	2393.2	2426.5	2479.7	2509.0	2524.7	2519.2
22.5°	2390.9	2462.4	2524.2	2570.2	2614.7	2635.9	2640.3
25°	2500.1	2598.3	2689.0	2749.7	2804.8	2817.7	2846.4
27.5°	2622.3	2738.0	2835.0	2898.7	2937.2	2951.6	2960.6
30°	2699.2	2814.4	2887.3	2928.2	2940.4	2939.1	2937.7
32.5°	2736.8	2808.9	2823.0	2811.5	2783.4	2759.7	2734.9
35°	2683.5	2629.7	2549.2	2445.6	2369.2	2292.3	2284.7
37.5°	2413.5	2241.3	2107.4	1957.8	1871.6	1818.3	1781.5
40°	2159.3	1963.7	1801.5	1675.4	1587.5	1552.7	1518.6
42.5°	1883.4	1696.6	1552.9	1447.4	1381.4	1342.8	1315.8
45°	1530.2	1365.2	1252.8	1176.5	1124.0	1094.0	1076.9
47.5°	1253.8	1131.9	1036.3	981.3	945.0	921.7	921.8
50°	1105.6	989.1	925.6	882.0	850.6	832.2	835.7
52.5°	974.1	887.1	832.9	796.4	773.3	761.9	761.5
55°	814.6	751.8	716.4	689.8	674.1	661.2	663.9
57.5°	696.7	643.9	620.2	598.0	587.1	582.0	574.4
60°	623.7	582.8	562.3	544.6	533.7	529.6	522.1
62.5°	558.8	526.6	506.8	492.2	482.4	481.1	475.2
65°	469.6	445.0	427.4	420.5	410.3	407.6	407.6
67.5°	387.2	369.6	355.8	349.5	345.1	345.7	342.4
70°	335.4	321.0	312.1	305.4	301.9	302.7	299.9
72.5°	293.4	277.4	269.6	265.6	261.1	262.9	261.8
75°	222.2	214.0	210.0	205.8	203.1	201.8	200.4
77.5°	163.2	155.9	152.8	150.5	150.9	147.6	150.3
80°	126.1	120.0	118.0	114.5	113.8	113.8	113.1
82.5°	92.3	88.9	87.4	84.5	83.3	84.4	82.6
85°	47.7	44.9	44.3	44.3	42.9	41.6	44.9
87.5°	19.2	17.2	17.3	16.8	16.8	16.4	15.2
90°	8.9	9.4	9.8	10.1	10.4	10.7	11.0
92.5°	19.6	20.3	20.7	20.9	21.1	21.4	21.6
95°	37.4	38.1	38.6	38.8	39.0	39.2	39.4
97.5°	58.2	58.8	59.2	59.3	59.5	59.6	59.7
100°	72.8	73.7	74.2	74.4	74.6	74.8	75.0
102.5°	87.7	88.7	89.3	89.6	89.9	90.2	90.5
105°	111.2	111.8	112.3	112.6	112.9	113.2	113.5
107.5°	136.7	137.0	137.2	137.2	137.1	137.1	137.1
110°	154.7	155.0	155.1	155.0	154.9	154.8	154.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	172.5	172.7	172.7	172.5	172.3	172.1	171.9
115°	199.8	199.7	199.5	199.4	199.3	199.2	199.1
117.5°	227.3	227.4	227.3	226.9	226.5	226.0	225.6
120°	245.8	245.8	245.6	245.2	244.8	244.4	244.0
122.5°	263.9	263.8	263.6	263.3	263.0	262.6	262.3
125°	290.5	290.3	290.1	290.0	289.9	289.8	289.7
127.5°	317.2	317.1	316.9	316.7	316.5	316.3	316.1
130°	334.8	334.7	334.5	334.3	334.1	333.9	333.7
132.5°	351.5	351.4	351.3	351.0	350.7	350.4	350.1
135°	377.6	377.6	377.4	377.0	376.6	376.2	375.8
137.5°	402.9	403.1	402.9	402.4	401.9	401.3	400.8
140°	419.0	419.2	419.0	418.5	418.0	417.5	417.0
142.5°	434.4	434.5	434.3	433.8	433.3	432.8	432.3
145°	456.8	456.8	456.7	456.4	456.1	455.8	455.4
147.5°	477.9	478.1	477.9	477.2	476.5	475.7	475.1
150°	490.7	490.7	490.6	490.4	490.2	490.0	489.8
152.5°	503.1	503.3	503.3	502.9	502.6	502.2	501.8
155°	520.7	521.1	521.1	520.6	520.1	519.6	519.1
157.5°	535.8	536.2	536.1	535.4	534.7	534.1	533.4
160°	545.0	545.4	545.3	544.8	544.3	543.8	543.3
162.5°	553.6	554.1	554.1	553.5	552.9	552.3	551.7
165°	565.1	565.5	565.4	564.8	564.2	563.6	563.0
167.5°	573.9	574.5	574.5	573.8	573.2	572.6	572.0
170°	579.0	579.7	579.6	578.9	578.1	577.4	576.7
172.5°	582.7	583.3	583.3	582.6	582.0	581.4	580.8
175°	586.8	587.4	587.3	586.6	585.9	585.2	584.5
177.5°	588.5	589.1	589.0	588.4	587.8	587.2	586.7
180°	588.1	588.1	588.1	588.1	588.1	588.1	588.1

(END OF REPORT)