

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

Luminaire Tested: **S125DIW-S1090D470U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333431
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-S1090D470U835-4F0-1E-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

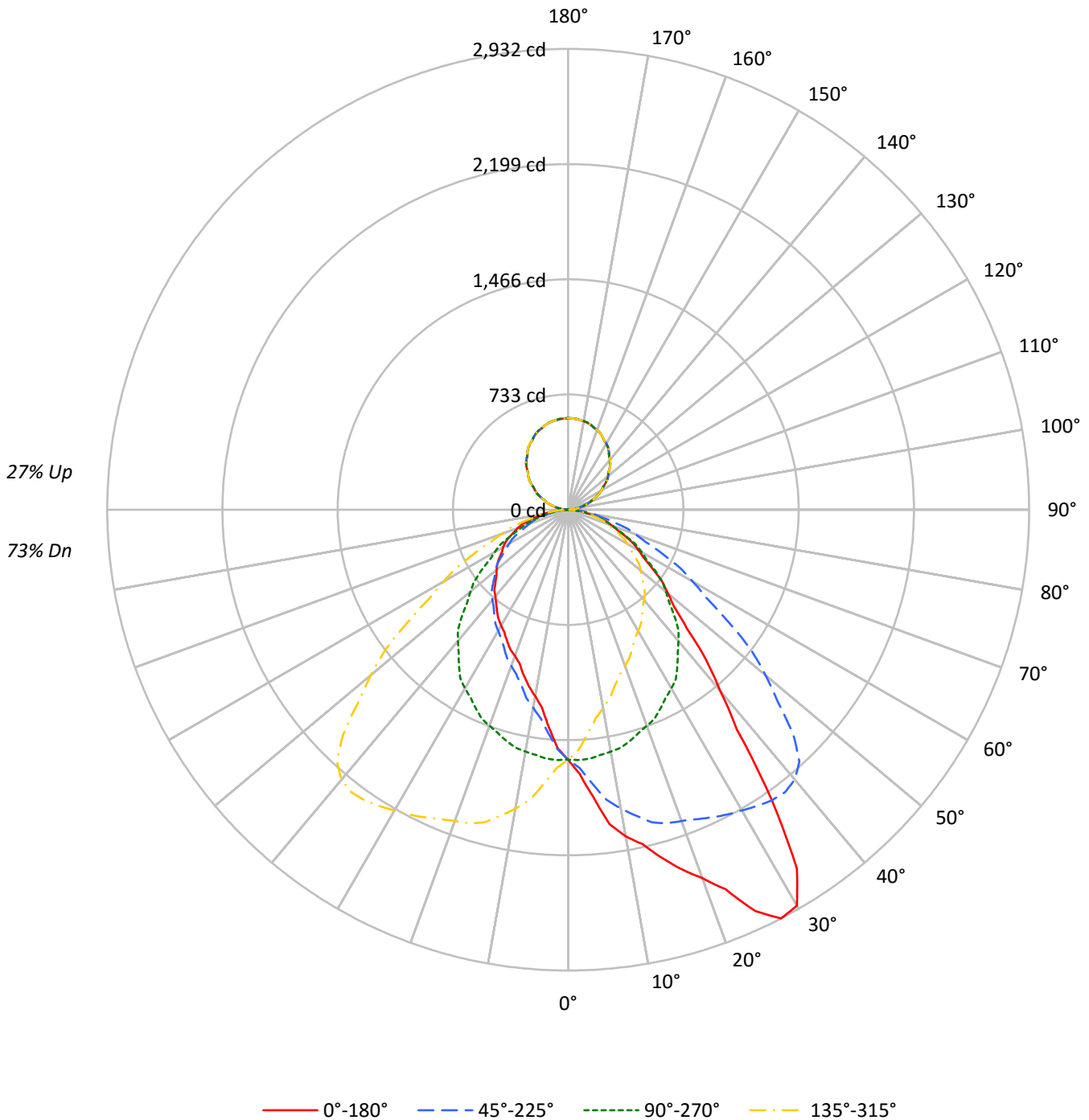
Lumens per Lamp: N/A
Luminaire Lumens: 6113.7 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.52
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')
CIE Type: Semi-Direct

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°	10270	10270	10270	10270
5°	11893	10305	9022	10305
10°	13837	10251	7906	10251
15°	15317	10176	7293	10176
20°	17145	10057	6801	10057
25°	20085	9922	6560	9922
30°	21694	9790	6352	9790
35°	17837	9541	6215	9541
40°	12678	9195	6066	9195
45°	9740	8729	5980	8729
50°	8314	8151	5968	8151
55°	7402	7585	6019	7585
60°	6678	6966	6173	6966
65°	6168	6343	6333	6343
70°	5608	5697	6424	5697
75°	4951	5018	6366	5018
80°	4166	4091	5824	4091
85°	3298	2949	4698	2949



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.1	2.5
10°-20°	455.8	7.5
20°-30°	740.1	12.1
30°-40°	902.8	14.8
40°-50°	821.3	13.4
50°-60°	654.2	10.7
60°-70°	455.6	7.5
70°-80°	243.0	4.0
80°-90°	62.6	1.0
90°-100°	39.0	0.6
100°-110°	115.2	1.9
110°-120°	195.1	3.2
120°-130°	256.8	4.2
130°-140°	287.7	4.7
140°-150°	282.0	4.6
150°-160°	236.9	3.9
160°-170°	157.4	2.6
170°-180°	55.1	0.9
0°-30°	1349.0	22.1
0°-40°	2251.8	36.8
0°-60°	3727.3	61.0
0°-90°	4488.5	73.4
90°-120°	349.3	5.7
90°-150°	1175.8	19.2
90°-180°	1625.0	26.6
0°-180°	6113.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1590	1590	1590	1590	1590	
5°	1834	1590	1392	1590	1834	185
15°	2291	1522	1091	1522	2291	656
25°	2819	1392	921	1392	2819	1287
35°	2262	1210	788	1210	2262	1385
45°	1066	956	655	956	1066	854
55°	657	674	535	674	657	592
65°	404	415	414	415	404	401
75°	198	201	255	201	198	214
85°	44	40	63	40	44	52
90°	11	0	11	0	11	8
95°	39	30	39	30	39	40
105°	112	103	112	103	112	119
115°	197	195	197	195	197	195
125°	287	285	287	285	287	256
135°	372	371	372	371	372	287
145°	451	449	451	449	451	282
155°	514	514	514	514	514	237
165°	558	559	558	559	558	157
175°	579	581	579	581	579	55
180°	582	582	582	582	582	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2
2.5°	1682.0	1679.8	1677.7	1673.3	1676.6	1667.4	1663.1	1655.5	1646.3	1643.1	1639.3
5°	1834.5	1837.9	1841.3	1827.1	1828.4	1819.0	1797.4	1779.8	1765.7	1747.4	1734.6
7.5°	2018.1	2010.1	2009.5	2000.3	1984.5	1971.8	1949.1	1920.2	1892.3	1860.4	1834.1
10°	2109.9	2110.6	2104.5	2093.7	2076.8	2064.7	2035.0	2006.6	1972.2	1931.7	1902.7
12.5°	2179.0	2181.8	2174.2	2159.6	2151.3	2124.1	2100.9	2067.1	2026.2	1993.8	1949.7
15°	2290.8	2283.4	2278.0	2259.7	2245.6	2217.2	2180.1	2145.0	2100.4	2059.3	2018.1
17.5°	2398.5	2404.4	2394.3	2377.7	2333.7	2300.6	2250.8	2202.8	2147.3	2092.1	2042.9
20°	2494.6	2500.0	2484.5	2455.5	2402.8	2369.8	2304.3	2242.2	2178.1	2107.2	2053.2
22.5°	2614.5	2610.2	2589.2	2545.1	2499.5	2438.3	2367.5	2291.9	2211.5	2131.5	2059.7
25°	2818.6	2790.2	2777.4	2722.8	2662.7	2572.9	2475.7	2365.0	2265.1	2159.2	2067.4
27.5°	2931.7	2922.8	2908.5	2870.4	2807.3	2711.3	2596.7	2461.8	2320.9	2187.1	2067.0
30°	2909.0	2910.4	2911.7	2899.6	2859.1	2786.9	2672.8	2527.7	2360.3	2209.8	2070.7
32.5°	2708.2	2732.7	2756.2	2784.0	2795.4	2781.5	2710.1	2579.0	2406.7	2235.7	2068.6
35°	2262.4	2269.9	2346.1	2421.7	2524.3	2604.0	2657.3	2599.2	2454.1	2257.7	2066.0
37.5°	1764.1	1800.5	1853.3	1938.7	2086.8	2219.4	2389.9	2468.3	2421.5	2264.9	2061.3
40°	1503.8	1537.5	1572.0	1659.0	1783.9	1944.5	2138.2	2303.6	2342.1	2242.2	2045.1
42.5°	1302.9	1329.7	1367.9	1433.3	1537.7	1680.0	1865.0	2081.1	2214.1	2176.3	2011.1
45°	1066.4	1083.3	1113.0	1165.0	1240.6	1351.9	1515.3	1751.5	1957.4	2025.5	1930.4
47.5°	912.8	912.7	935.8	971.7	1026.2	1120.8	1241.6	1426.7	1646.6	1809.3	1801.7
50°	827.5	824.1	842.3	873.4	916.6	979.4	1094.8	1242.6	1453.8	1638.1	1689.4
52.5°	754.1	754.5	765.7	788.6	824.8	878.4	964.6	1097.9	1278.4	1467.5	1564.1
55°	657.4	654.7	667.5	683.1	709.4	744.5	806.6	908.5	1054.9	1241.2	1366.8
57.5°	568.8	576.3	581.4	592.2	614.1	637.6	689.9	764.7	880.9	1040.8	1173.5
60°	517.0	524.4	528.5	539.3	556.8	577.1	617.6	678.3	776.2	913.9	1045.5
62.5°	470.6	476.4	477.7	487.4	501.8	521.5	553.3	604.4	681.7	802.1	931.0
65°	403.6	403.6	406.3	416.4	423.2	440.7	465.0	502.2	564.3	658.1	768.1
67.5°	339.1	342.3	341.7	346.1	352.3	366.0	383.4	414.0	460.0	528.5	616.5
70°	297.0	299.7	299.0	302.4	309.1	317.9	332.1	361.1	394.2	452.9	528.5
72.5°	259.2	260.3	258.5	263.0	267.0	274.7	290.5	306.0	336.9	386.5	448.6
75°	198.4	199.8	201.1	203.8	207.9	211.9	220.0	235.6	255.8	292.9	332.8
77.5°	148.8	146.2	149.4	149.0	151.3	154.4	161.6	169.8	186.4	209.9	240.7
80°	112.0	112.7	112.7	113.4	116.8	118.8	124.9	130.9	143.8	161.3	182.9
82.5°	81.8	83.6	82.5	83.7	86.5	88.0	91.4	96.4	103.8	117.6	133.2
85°	44.5	41.2	42.5	43.9	43.9	44.5	47.2	49.3	53.3	58.7	64.8
87.5°	15.1	16.2	16.6	16.6	17.1	17.0	19.0	18.9	20.4	22.0	24.0
90°	10.9	10.6	10.3	10.0	9.7	9.3	8.8	8.3	7.8	7.3	6.5
92.5°	21.4	21.2	20.9	20.7	20.5	20.1	19.4	18.7	18.1	17.4	16.5
95°	39.0	38.8	38.6	38.4	38.2	37.7	37.0	36.3	35.6	34.9	33.9
97.5°	59.1	59.0	58.9	58.7	58.6	58.2	57.6	56.9	56.2	55.6	54.2
100°	74.3	74.1	73.9	73.7	73.5	73.0	72.1	71.2	70.3	69.3	68.0
102.5°	89.6	89.3	89.0	88.7	88.4	87.8	86.8	85.8	84.8	83.8	83.2
105°	112.4	112.1	111.8	111.5	111.2	110.7	110.1	109.5	108.9	108.3	107.7
107.5°	135.8	135.8	135.8	135.9	135.9	135.7	135.4	135.1	134.8	134.5	134.1
110°	153.2	153.3	153.4	153.5	153.6	153.5	153.2	152.9	152.6	152.3	152.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	170.2	170.4	170.6	170.8	171.0	171.0	170.8	170.7	170.6	170.4	170.0
115°	197.2	197.3	197.4	197.5	197.6	197.7	197.8	197.9	198.0	198.1	197.9
117.5°	223.4	223.8	224.3	224.7	225.1	225.2	225.1	225.1	225.0	224.9	224.7
120°	241.6	242.0	242.4	242.8	243.2	243.4	243.4	243.4	243.4	243.4	243.3
122.5°	259.7	260.0	260.4	260.7	261.0	261.2	261.3	261.4	261.4	261.5	261.3
125°	286.9	287.0	287.1	287.2	287.3	287.5	287.7	287.9	288.1	288.3	288.2
127.5°	313.0	313.2	313.4	313.6	313.8	314.0	314.1	314.2	314.3	314.4	314.2
130°	330.4	330.6	330.8	331.0	331.2	331.4	331.5	331.6	331.7	331.8	331.6
132.5°	346.7	347.0	347.3	347.6	347.9	348.0	348.1	348.2	348.3	348.4	348.5
135°	372.1	372.5	372.9	373.3	373.7	373.9	373.9	373.9	373.9	373.9	373.8
137.5°	396.9	397.4	398.0	398.5	399.0	399.2	399.0	398.9	398.8	398.7	398.4
140°	412.9	413.4	413.9	414.4	414.9	415.1	414.9	414.7	414.5	414.3	414.0
142.5°	428.1	428.6	429.1	429.6	430.1	430.3	430.2	430.1	430.0	429.9	429.5
145°	451.0	451.3	451.6	451.9	452.2	452.3	452.3	452.3	452.3	452.3	452.0
147.5°	470.5	471.1	471.8	472.5	473.2	473.4	473.2	472.9	472.7	472.5	472.2
150°	485.0	485.2	485.4	485.6	485.8	485.9	485.9	485.9	485.9	485.9	485.5
152.5°	496.9	497.3	497.7	498.0	498.4	498.4	498.2	498.0	497.7	497.5	497.3
155°	514.0	514.5	515.0	515.5	516.0	516.0	515.6	515.2	514.8	514.4	514.3
157.5°	528.2	528.9	529.5	530.2	530.9	531.0	530.6	530.2	529.8	529.4	529.3
160°	538.0	538.5	539.0	539.5	540.0	540.1	539.7	539.3	538.9	538.4	538.3
162.5°	546.3	546.9	547.5	548.1	548.7	548.7	548.2	547.8	547.3	546.8	546.8
165°	557.5	558.1	558.7	559.3	559.9	560.0	559.6	559.2	558.8	558.4	558.3
167.5°	566.4	567.0	567.6	568.2	568.9	568.9	568.3	567.7	567.1	566.5	566.5
170°	571.1	571.8	572.5	573.2	573.9	574.0	573.3	572.7	572.1	571.5	571.5
172.5°	575.1	575.7	576.3	576.9	577.6	577.6	577.0	576.4	575.8	575.2	575.2
175°	578.8	579.5	580.2	580.9	581.6	581.7	581.1	580.4	579.8	579.2	579.2
177.5°	581.0	581.5	582.1	582.7	583.2	583.3	582.8	582.3	581.8	581.3	581.4
180°	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2
2.5°	1636.1	1632.3	1628.0	1620.4	1611.2	1606.4	1598.8	1594.0	1584.2	1576.1	1567.5
5°	1719.1	1701.6	1685.4	1664.4	1641.5	1626.6	1609.1	1589.5	1569.3	1548.3	1525.4
7.5°	1805.1	1774.0	1740.3	1704.0	1668.5	1635.8	1604.6	1574.0	1545.4	1510.8	1481.5
10°	1862.9	1823.7	1781.9	1732.6	1684.7	1642.8	1600.3	1563.2	1525.4	1484.9	1449.1
12.5°	1920.6	1868.5	1809.4	1755.3	1697.6	1647.1	1597.1	1549.7	1502.2	1457.4	1415.6
15°	1961.4	1915.5	1860.8	1783.9	1719.1	1649.6	1583.4	1522.0	1464.6	1414.7	1362.1
17.5°	1988.3	1929.1	1870.4	1796.6	1711.7	1633.9	1559.0	1488.7	1424.0	1360.7	1309.9
20°	1993.1	1932.4	1871.0	1798.7	1711.7	1622.6	1547.7	1463.3	1393.8	1328.3	1266.2
22.5°	1991.5	1922.7	1855.8	1781.5	1696.6	1614.5	1523.9	1437.9	1362.5	1298.1	1233.3
25°	1976.3	1902.7	1819.0	1744.1	1660.4	1573.3	1481.5	1392.4	1315.5	1241.9	1177.8
27.5°	1963.6	1868.1	1773.4	1686.0	1605.2	1525.4	1437.5	1346.3	1260.9	1186.4	1126.0
30°	1947.9	1843.3	1736.6	1645.5	1562.5	1484.9	1401.9	1312.8	1223.7	1150.8	1086.0
32.5°	1933.9	1812.0	1699.4	1600.2	1512.3	1436.8	1360.3	1275.5	1188.0	1114.1	1049.3
35°	1906.7	1765.7	1636.8	1524.7	1430.9	1353.3	1289.2	1210.2	1129.9	1058.3	996.2
37.5°	1872.3	1704.9	1566.6	1449.1	1346.3	1264.5	1204.8	1144.2	1067.1	998.1	942.0
40°	1845.3	1661.7	1515.3	1395.1	1288.5	1203.4	1148.1	1090.7	1026.6	962.5	903.1
42.5°	1811.3	1622.9	1463.4	1334.1	1228.5	1145.7	1087.6	1038.9	982.3	922.5	867.4
45°	1748.8	1552.4	1379.6	1240.6	1133.9	1052.2	992.2	955.7	913.2	856.5	809.9
47.5°	1656.9	1467.7	1289.0	1145.5	1035.5	959.8	903.5	868.5	838.6	796.4	754.2
50°	1575.3	1404.6	1223.7	1081.3	971.3	895.0	843.0	811.3	785.6	753.2	717.5
52.5°	1484.1	1325.2	1159.4	1018.6	909.7	834.5	783.6	755.7	734.3	711.1	675.9
55°	1339.1	1204.1	1050.2	916.6	816.0	742.4	697.9	673.6	656.1	638.5	616.9
57.5°	1179.4	1073.8	937.5	815.3	722.7	655.8	614.2	590.6	576.9	567.9	555.2
60°	1067.1	976.7	859.2	747.8	657.4	598.0	557.5	539.3	527.8	520.4	510.9
62.5°	962.9	888.6	779.8	678.2	599.1	542.9	506.8	489.1	478.1	474.5	466.7
65°	809.3	751.9	662.1	577.8	510.3	462.3	432.0	415.1	408.3	404.3	405.0
67.5°	657.9	623.0	550.9	478.9	425.1	384.9	360.6	347.6	344.2	338.8	338.7
70°	565.6	539.3	478.5	415.8	367.8	336.8	315.2	301.7	298.3	295.6	295.0
72.5°	484.1	461.0	408.3	358.0	314.9	287.7	269.8	261.7	256.2	254.6	254.5
75°	363.8	351.0	309.1	269.3	239.6	220.7	208.6	201.1	197.1	196.4	197.1
77.5°	258.6	247.4	220.8	192.6	173.9	159.6	149.3	146.7	142.1	142.3	141.6
80°	194.4	187.0	170.1	147.8	132.3	120.1	114.7	110.0	108.7	106.6	108.7
82.5°	140.9	133.0	121.5	107.3	94.5	87.2	81.8	80.3	79.5	78.6	79.0
85°	69.5	70.2	63.4	52.6	47.2	43.2	39.8	39.8	39.1	38.5	39.1
87.5°	24.9	23.7	21.4	19.6	16.8	15.0	14.3	14.7	13.2	12.8	13.5
90°	5.8	5.1	4.4	3.7	2.9	2.1	1.3	0.5	1.3	2.1	2.9
92.5°	15.7	14.8	13.9	13.2	12.7	12.1	11.5	11.0	11.5	12.1	12.7
95°	32.9	31.9	30.9	30.3	30.1	29.9	29.7	29.5	29.7	29.9	30.1
97.5°	52.8	51.4	50.0	49.3	49.2	49.1	49.0	48.9	49.0	49.1	49.2
100°	66.7	65.4	64.1	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5
102.5°	82.5	81.9	81.2	80.7	80.3	79.9	79.4	79.0	79.4	79.9	80.3
105°	107.1	106.5	105.9	105.4	104.8	104.3	103.8	103.3	103.8	104.3	104.8
107.5°	133.6	133.1	132.7	132.2	131.7	131.2	130.7	130.2	130.7	131.2	131.7
110°	151.7	151.4	151.1	150.7	150.2	149.7	149.2	148.7	149.2	149.7	150.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	169.7	169.3	168.9	168.6	168.3	168.0	167.8	167.5	167.8	168.0	168.3
115°	197.7	197.5	197.3	197.0	196.6	196.2	195.7	195.3	195.7	196.2	196.6
117.5°	224.5	224.4	224.2	224.0	223.8	223.6	223.4	223.3	223.4	223.6	223.8
120°	243.2	243.1	243.0	242.7	242.2	241.7	241.2	240.7	241.2	241.7	242.2
122.5°	261.0	260.7	260.5	260.2	260.1	259.9	259.7	259.5	259.7	259.9	260.1
125°	288.1	288.0	287.9	287.5	286.9	286.3	285.7	285.1	285.7	286.3	286.9
127.5°	314.1	314.0	313.9	313.7	313.3	313.0	312.6	312.3	312.6	313.0	313.3
130°	331.4	331.2	331.0	330.6	330.1	329.6	329.1	328.6	329.1	329.6	330.1
132.5°	348.5	348.6	348.6	348.2	347.4	346.6	345.7	344.9	345.7	346.6	347.4
135°	373.7	373.6	373.5	373.2	372.6	372.0	371.4	370.7	371.4	372.0	372.6
137.5°	398.2	398.0	397.8	397.4	396.8	396.2	395.6	395.0	395.6	396.2	396.8
140°	413.7	413.4	413.1	412.6	412.1	411.6	411.1	410.6	411.1	411.6	412.1
142.5°	429.1	428.7	428.3	427.9	427.5	427.1	426.6	426.2	426.6	427.1	427.5
145°	451.7	451.4	451.1	450.8	450.4	450.0	449.6	449.2	449.6	450.0	450.4
147.5°	472.0	471.7	471.5	471.3	471.0	470.8	470.6	470.4	470.6	470.8	471.0
150°	485.1	484.7	484.3	484.1	484.2	484.3	484.4	484.5	484.4	484.3	484.2
152.5°	497.2	497.0	496.8	496.7	496.5	496.4	496.3	496.1	496.3	496.4	496.5
155°	514.2	514.1	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0
157.5°	529.2	529.1	529.0	529.0	529.3	529.5	529.7	529.9	529.7	529.5	529.3
160°	538.2	538.1	538.0	538.1	538.4	538.7	539.1	539.4	539.1	538.7	538.4
162.5°	546.7	546.7	546.7	546.8	547.0	547.3	547.5	547.7	547.5	547.3	547.0
165°	558.2	558.1	558.0	558.0	558.2	558.4	558.6	558.8	558.6	558.4	558.2
167.5°	566.5	566.5	566.5	566.7	567.1	567.5	567.9	568.3	567.9	567.5	567.1
170°	571.5	571.5	571.5	571.7	572.1	572.5	572.9	573.3	572.9	572.5	572.1
172.5°	575.2	575.2	575.2	575.4	575.8	576.2	576.6	577.0	576.6	576.2	575.8
175°	579.2	579.2	579.2	579.4	579.8	580.2	580.6	581.1	580.6	580.2	579.8
177.5°	581.5	581.6	581.6	581.8	582.2	582.5	582.8	583.1	582.8	582.5	582.2
180°	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4



TEST NUMBER: P333431

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2
2.5°	1562.6	1556.7	1551.8	1541.0	1535.1	1527.0	1520.5	1527.5	1520.0	1523.2	1518.4
5°	1513.9	1495.0	1481.5	1461.9	1445.1	1429.5	1418.1	1416.0	1410.6	1407.9	1399.8
7.5°	1455.3	1431.7	1408.5	1382.8	1361.2	1339.2	1325.2	1313.6	1305.9	1295.8	1288.9
10°	1420.8	1389.0	1362.1	1331.0	1304.0	1280.4	1261.5	1252.0	1243.3	1230.4	1225.7
12.5°	1378.1	1345.3	1312.4	1279.2	1253.2	1226.9	1210.7	1196.4	1190.3	1175.9	1174.4
15°	1327.0	1277.7	1245.3	1211.5	1175.8	1154.2	1140.7	1125.1	1118.4	1108.3	1100.8
17.5°	1265.9	1221.9	1181.4	1146.5	1115.8	1097.6	1080.9	1070.2	1058.6	1052.0	1039.8
20°	1221.7	1179.8	1139.3	1102.2	1078.6	1057.6	1044.1	1034.0	1021.9	1018.5	1006.4
22.5°	1184.4	1138.2	1099.4	1068.2	1042.4	1018.8	1004.2	997.3	988.9	978.5	976.1
25°	1123.8	1075.9	1042.8	1011.8	988.8	967.2	957.1	948.3	940.2	932.8	930.1
27.5°	1071.4	1028.6	989.3	961.3	941.3	921.6	912.7	902.0	896.1	890.1	882.8
30°	1034.7	990.8	956.4	929.4	907.8	890.3	880.8	873.4	868.0	862.6	858.5
32.5°	996.9	956.3	922.9	896.5	874.9	861.6	853.3	848.0	842.1	835.6	830.5
35°	947.0	902.4	870.0	847.1	830.2	820.1	810.6	805.9	799.1	799.1	793.7
37.5°	890.7	852.2	823.6	802.7	787.5	778.5	768.2	765.0	760.7	757.8	755.9
40°	857.2	821.4	794.4	773.5	757.3	749.9	741.8	736.4	733.7	730.3	728.9
42.5°	822.6	788.5	762.6	743.3	729.2	722.9	715.3	711.5	706.1	701.7	700.9
45°	770.1	737.0	713.4	697.9	685.7	678.3	673.6	665.5	662.8	657.4	656.7
47.5°	720.3	688.6	665.4	652.7	642.0	635.9	628.5	620.4	617.3	614.6	614.3
50°	683.1	654.0	632.4	620.3	610.2	601.4	594.0	588.6	586.5	586.5	587.9
52.5°	645.3	620.5	602.2	587.3	577.8	568.4	561.6	558.3	555.2	558.5	560.9
55°	589.9	564.9	551.4	537.3	527.8	517.0	513.6	512.3	510.3	515.7	518.4
57.5°	531.3	513.8	498.0	483.9	475.4	469.2	464.6	463.8	467.6	470.2	478.9
60°	494.1	473.8	459.6	448.8	438.7	434.7	433.3	432.0	434.7	442.1	453.6
62.5°	453.0	436.6	421.3	413.2	405.8	399.0	398.8	399.6	405.0	413.5	424.9
65°	392.8	378.6	368.5	359.1	353.0	348.9	350.3	353.0	359.1	370.5	383.4
67.5°	331.7	322.0	312.9	305.2	299.4	299.4	300.8	304.8	312.0	325.2	336.9
70°	292.3	281.5	274.0	270.7	265.9	263.2	267.3	274.0	280.1	292.3	302.4
72.5°	252.8	243.7	237.9	235.6	233.5	231.4	232.7	240.0	248.2	260.4	272.1
75°	194.4	191.0	187.0	184.3	182.2	183.6	184.9	191.7	198.4	211.3	224.8
77.5°	141.9	138.4	135.9	135.3	134.2	134.9	138.6	143.6	150.2	159.6	169.8
80°	107.3	106.0	104.6	103.9	103.9	104.6	110.0	113.4	119.5	128.2	136.3
82.5°	78.2	77.3	77.1	76.9	77.5	77.6	80.9	85.3	90.3	96.9	103.9
85°	41.2	39.8	41.8	42.5	41.2	43.2	44.5	47.2	49.3	52.6	56.0
87.5°	14.2	15.5	15.1	15.7	15.9	17.1	16.7	18.9	20.1	21.3	20.8
90°	3.7	4.4	5.1	5.8	6.5	7.3	7.8	8.3	8.8	9.3	9.7
92.5°	13.2	13.9	14.8	15.7	16.5	17.4	18.1	18.7	19.4	20.1	20.5
95°	30.3	30.9	31.9	32.9	33.9	34.9	35.6	36.3	37.0	37.7	38.2
97.5°	49.3	50.0	51.4	52.8	54.2	55.6	56.2	56.9	57.6	58.2	58.6
100°	63.5	64.1	65.4	66.7	68.0	69.3	70.3	71.2	72.1	73.0	73.5
102.5°	80.7	81.2	81.9	82.5	83.2	83.8	84.8	85.8	86.8	87.8	88.4
105°	105.4	105.9	106.5	107.1	107.7	108.3	108.9	109.5	110.1	110.7	111.2
107.5°	132.2	132.7	133.1	133.6	134.1	134.5	134.8	135.1	135.4	135.7	135.9
110°	150.7	151.1	151.4	151.7	152.0	152.3	152.6	152.9	153.2	153.5	153.6



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	168.6	168.9	169.3	169.7	170.0	170.4	170.6	170.7	170.8	171.0	171.0
115°	197.0	197.3	197.5	197.7	197.9	198.1	198.0	197.9	197.8	197.7	197.6
117.5°	224.0	224.2	224.4	224.5	224.7	224.9	225.0	225.1	225.1	225.2	225.1
120°	242.7	243.0	243.1	243.2	243.3	243.4	243.4	243.4	243.4	243.4	243.2
122.5°	260.2	260.5	260.7	261.0	261.3	261.5	261.4	261.4	261.3	261.2	261.0
125°	287.5	287.9	288.0	288.1	288.2	288.3	288.1	287.9	287.7	287.5	287.3
127.5°	313.7	313.9	314.0	314.1	314.2	314.4	314.3	314.2	314.1	314.0	313.8
130°	330.6	331.0	331.2	331.4	331.6	331.8	331.7	331.6	331.5	331.4	331.2
132.5°	348.2	348.6	348.6	348.5	348.5	348.4	348.3	348.2	348.1	348.0	347.9
135°	373.2	373.5	373.6	373.7	373.8	373.9	373.9	373.9	373.9	373.9	373.7
137.5°	397.4	397.8	398.0	398.2	398.4	398.7	398.8	398.9	399.0	399.2	399.0
140°	412.6	413.1	413.4	413.7	414.0	414.3	414.5	414.7	414.9	415.1	414.9
142.5°	427.9	428.3	428.7	429.1	429.5	429.9	430.0	430.1	430.2	430.3	430.1
145°	450.8	451.1	451.4	451.7	452.0	452.3	452.3	452.3	452.3	452.3	452.2
147.5°	471.3	471.5	471.7	472.0	472.2	472.5	472.7	472.9	473.2	473.4	473.2
150°	484.1	484.3	484.7	485.1	485.5	485.9	485.9	485.9	485.9	485.9	485.8
152.5°	496.7	496.8	497.0	497.2	497.3	497.5	497.7	498.0	498.2	498.4	498.4
155°	514.0	514.0	514.1	514.2	514.3	514.4	514.8	515.2	515.6	516.0	516.0
157.5°	529.0	529.0	529.1	529.2	529.3	529.4	529.8	530.2	530.6	531.0	530.9
160°	538.1	538.0	538.1	538.2	538.3	538.4	538.9	539.3	539.7	540.1	540.0
162.5°	546.8	546.7	546.7	546.7	546.8	546.8	547.3	547.8	548.2	548.7	548.7
165°	558.0	558.0	558.1	558.2	558.3	558.4	558.8	559.2	559.6	560.0	559.9
167.5°	566.7	566.5	566.5	566.5	566.5	566.5	567.1	567.7	568.3	568.9	568.9
170°	571.7	571.5	571.5	571.5	571.5	571.5	572.1	572.7	573.3	574.0	573.9
172.5°	575.4	575.2	575.2	575.2	575.2	575.2	575.8	576.4	577.0	577.6	577.6
175°	579.4	579.2	579.2	579.2	579.2	579.2	579.8	580.4	581.1	581.7	581.6
177.5°	581.8	581.6	581.6	581.5	581.4	581.3	581.8	582.3	582.8	583.3	583.2
180°	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4



TEST NUMBER: P333431

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2
2.5°	1515.1	1518.9	1515.7	1520.0	1515.7	1518.9	1515.1	1518.4	1523.2	1520.0	1527.5
5°	1396.5	1390.4	1394.4	1391.7	1394.4	1390.4	1396.5	1399.8	1407.9	1410.6	1416.0
7.5°	1286.9	1281.1	1274.4	1271.3	1274.4	1281.1	1286.9	1288.9	1295.8	1305.9	1313.6
10°	1218.3	1210.9	1210.2	1205.5	1210.2	1210.9	1218.3	1225.7	1230.4	1243.3	1252.0
12.5°	1168.1	1161.2	1153.5	1151.5	1153.5	1161.2	1168.1	1174.4	1175.9	1190.3	1196.4
15°	1096.8	1091.4	1086.7	1090.7	1086.7	1091.4	1096.8	1100.8	1108.3	1118.4	1125.1
17.5°	1037.5	1033.1	1032.3	1027.3	1032.3	1033.1	1037.5	1039.8	1052.0	1058.6	1070.2
20°	1000.3	996.9	998.3	989.5	998.3	996.9	1000.3	1006.4	1018.5	1021.9	1034.0
22.5°	970.6	964.0	963.2	961.4	963.2	964.0	970.6	976.1	978.5	988.9	997.3
25°	924.0	920.6	917.3	920.6	917.3	920.6	924.0	930.1	932.8	940.2	948.3
27.5°	883.4	879.3	878.4	878.8	878.4	879.3	883.4	882.8	890.1	896.1	902.0
30°	858.5	851.8	852.5	851.8	852.5	851.8	858.5	858.5	862.6	868.0	873.4
32.5°	831.5	826.9	826.0	824.8	826.0	826.9	831.5	830.5	835.6	842.1	848.0
35°	791.7	791.7	788.3	788.3	788.3	791.7	791.7	793.7	799.1	799.1	805.9
37.5°	754.3	753.6	751.6	751.9	751.6	753.6	754.3	755.9	757.8	760.7	765.0
40°	726.2	725.6	723.5	719.5	723.5	725.6	726.2	728.9	730.3	733.7	736.4
42.5°	699.2	697.0	696.0	694.7	696.0	697.0	699.2	700.9	701.7	706.1	711.5
45°	656.7	656.7	655.4	654.7	655.4	656.7	656.7	656.7	657.4	662.8	665.5
47.5°	615.4	616.6	619.2	618.8	619.2	616.6	615.4	614.3	614.6	617.3	620.4
50°	590.6	591.3	593.3	594.0	593.3	591.3	590.6	587.9	586.5	586.5	588.6
52.5°	563.0	567.0	569.5	569.1	569.5	567.0	563.0	560.9	558.5	555.2	558.3
55°	524.4	529.2	533.9	534.6	533.9	529.2	524.4	518.4	515.7	510.3	512.3
57.5°	486.2	492.8	497.8	499.5	497.8	492.8	486.2	478.9	470.2	467.6	463.8
60°	460.3	469.1	475.2	477.9	475.2	469.1	460.3	453.6	442.1	434.7	432.0
62.5°	435.5	445.3	451.4	451.9	451.4	445.3	435.5	424.9	413.5	405.0	399.6
65°	394.8	405.0	410.4	414.4	410.4	405.0	394.8	383.4	370.5	359.1	353.0
67.5°	351.1	361.2	367.2	370.4	367.2	361.2	351.1	336.9	325.2	312.0	304.8
70°	319.3	329.4	337.5	340.2	337.5	329.4	319.3	302.4	292.3	280.1	274.0
72.5°	287.9	297.0	303.5	306.7	303.5	297.0	287.9	272.1	260.4	248.2	240.0
75°	233.5	245.7	251.8	255.1	251.8	245.7	233.5	224.8	211.3	198.4	191.7
77.5°	180.1	191.1	194.8	196.5	194.8	191.1	180.1	169.8	159.6	150.2	143.6
80°	144.4	151.2	155.9	156.6	155.9	151.2	144.4	136.3	128.2	119.5	113.4
82.5°	111.0	116.6	118.1	119.9	118.1	116.6	111.0	103.9	96.9	90.3	85.3
85°	60.7	63.4	64.1	63.4	64.1	63.4	60.7	56.0	52.6	49.3	47.2
87.5°	22.0	21.5	21.6	22.7	21.6	21.5	22.0	20.8	21.3	20.1	18.9
90°	10.0	10.3	10.6	10.9	10.6	10.3	10.0	9.7	9.3	8.8	8.3
92.5°	20.7	20.9	21.2	21.4	21.2	20.9	20.7	20.5	20.1	19.4	18.7
95°	38.4	38.6	38.8	39.0	38.8	38.6	38.4	38.2	37.7	37.0	36.3
97.5°	58.7	58.9	59.0	59.1	59.0	58.9	58.7	58.6	58.2	57.6	56.9
100°	73.7	73.9	74.1	74.3	74.1	73.9	73.7	73.5	73.0	72.1	71.2
102.5°	88.7	89.0	89.3	89.6	89.3	89.0	88.7	88.4	87.8	86.8	85.8
105°	111.5	111.8	112.1	112.4	112.1	111.8	111.5	111.2	110.7	110.1	109.5
107.5°	135.9	135.8	135.8	135.8	135.8	135.8	135.9	135.9	135.7	135.4	135.1
110°	153.5	153.4	153.3	153.2	153.3	153.4	153.5	153.6	153.5	153.2	152.9



TEST NUMBER: P333431

CATALOG NUMBER: S125DIW-S1090D470U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	170.8	170.6	170.4	170.2	170.4	170.6	170.8	171.0	171.0	170.8	170.7
115°	197.5	197.4	197.3	197.2	197.3	197.4	197.5	197.6	197.7	197.8	197.9
117.5°	224.7	224.3	223.8	223.4	223.8	224.3	224.7	225.1	225.2	225.1	225.1
120°	242.8	242.4	242.0	241.6	242.0	242.4	242.8	243.2	243.4	243.4	243.4
122.5°	260.7	260.4	260.0	259.7	260.0	260.4	260.7	261.0	261.2	261.3	261.4
125°	287.2	287.1	287.0	286.9	287.0	287.1	287.2	287.3	287.5	287.7	287.9
127.5°	313.6	313.4	313.2	313.0	313.2	313.4	313.6	313.8	314.0	314.1	314.2
130°	331.0	330.8	330.6	330.4	330.6	330.8	331.0	331.2	331.4	331.5	331.6
132.5°	347.6	347.3	347.0	346.7	347.0	347.3	347.6	347.9	348.0	348.1	348.2
135°	373.3	372.9	372.5	372.1	372.5	372.9	373.3	373.7	373.9	373.9	373.9
137.5°	398.5	398.0	397.4	396.9	397.4	398.0	398.5	399.0	399.2	399.0	398.9
140°	414.4	413.9	413.4	412.9	413.4	413.9	414.4	414.9	415.1	414.9	414.7
142.5°	429.6	429.1	428.6	428.1	428.6	429.1	429.6	430.1	430.3	430.2	430.1
145°	451.9	451.6	451.3	451.0	451.3	451.6	451.9	452.2	452.3	452.3	452.3
147.5°	472.5	471.8	471.1	470.5	471.1	471.8	472.5	473.2	473.4	473.2	472.9
150°	485.6	485.4	485.2	485.0	485.2	485.4	485.6	485.8	485.9	485.9	485.9
152.5°	498.0	497.7	497.3	496.9	497.3	497.7	498.0	498.4	498.4	498.2	498.0
155°	515.5	515.0	514.5	514.0	514.5	515.0	515.5	516.0	516.0	515.6	515.2
157.5°	530.2	529.5	528.9	528.2	528.9	529.5	530.2	530.9	531.0	530.6	530.2
160°	539.5	539.0	538.5	538.0	538.5	539.0	539.5	540.0	540.1	539.7	539.3
162.5°	548.1	547.5	546.9	546.3	546.9	547.5	548.1	548.7	548.7	548.2	547.8
165°	559.3	558.7	558.1	557.5	558.1	558.7	559.3	559.9	560.0	559.6	559.2
167.5°	568.2	567.6	567.0	566.4	567.0	567.6	568.2	568.9	568.9	568.3	567.7
170°	573.2	572.5	571.8	571.1	571.8	572.5	573.2	573.9	574.0	573.3	572.7
172.5°	576.9	576.3	575.7	575.1	575.7	576.3	576.9	577.6	577.6	577.0	576.4
175°	580.9	580.2	579.5	578.8	579.5	580.2	580.9	581.6	581.7	581.1	580.4
177.5°	582.7	582.1	581.5	581.0	581.5	582.1	582.7	583.2	583.3	582.8	582.3
180°	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4



TEST NUMBER: P333431

CATALOG NUMBER: S125DIW-S1090D470U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2
2.5°	1520.5	1527.0	1535.1	1541.0	1551.8	1556.7	1562.6	1567.5	1576.1	1584.2	1594.0
5°	1418.1	1429.5	1445.1	1461.9	1481.5	1495.0	1513.9	1525.4	1548.3	1569.3	1589.5
7.5°	1325.2	1339.2	1361.2	1382.8	1408.5	1431.7	1455.3	1481.5	1510.8	1545.4	1574.0
10°	1261.5	1280.4	1304.0	1331.0	1362.1	1389.0	1420.8	1449.1	1484.9	1525.4	1563.2
12.5°	1210.7	1226.9	1253.2	1279.2	1312.4	1345.3	1378.1	1415.6	1457.4	1502.2	1549.7
15°	1140.7	1154.2	1175.8	1211.5	1245.3	1277.7	1327.0	1362.1	1414.7	1464.6	1522.0
17.5°	1080.9	1097.6	1115.8	1146.5	1181.4	1221.9	1265.9	1309.9	1360.7	1424.0	1488.7
20°	1044.1	1057.6	1078.6	1102.2	1139.3	1179.8	1221.7	1266.2	1328.3	1393.8	1463.3
22.5°	1004.2	1018.8	1042.4	1068.2	1099.4	1138.2	1184.4	1233.3	1298.1	1362.5	1437.9
25°	957.1	967.2	988.8	1011.8	1042.8	1075.9	1123.8	1177.8	1241.9	1315.5	1392.4
27.5°	912.7	921.6	941.3	961.3	989.3	1028.6	1071.4	1126.0	1186.4	1260.9	1346.3
30°	880.8	890.3	907.8	929.4	956.4	990.8	1034.7	1086.0	1150.8	1223.7	1312.8
32.5°	853.3	861.6	874.9	896.5	922.9	956.3	996.9	1049.3	1114.1	1188.0	1275.5
35°	810.6	820.1	830.2	847.1	870.0	902.4	947.0	996.2	1058.3	1129.9	1210.2
37.5°	768.2	778.5	787.5	802.7	823.6	852.2	890.7	942.0	998.1	1067.1	1144.2
40°	741.8	749.9	757.3	773.5	794.4	821.4	857.2	903.1	962.5	1026.6	1090.7
42.5°	715.3	722.9	729.2	743.3	762.6	788.5	822.6	867.4	922.5	982.3	1038.9
45°	673.6	678.3	685.7	697.9	713.4	737.0	770.1	809.9	856.5	913.2	955.7
47.5°	628.5	635.9	642.0	652.7	665.4	688.6	720.3	754.2	796.4	838.6	868.5
50°	594.0	601.4	610.2	620.3	632.4	654.0	683.1	717.5	753.2	785.6	811.3
52.5°	561.6	568.4	577.8	587.3	602.2	620.5	645.3	675.9	711.1	734.3	755.7
55°	513.6	517.0	527.8	537.3	551.4	564.9	589.9	616.9	638.5	656.1	673.6
57.5°	464.6	469.2	475.4	483.9	498.0	513.8	531.3	555.2	567.9	576.9	590.6
60°	433.3	434.7	438.7	448.8	459.6	473.8	494.1	510.9	520.4	527.8	539.3
62.5°	398.8	399.0	405.8	413.2	421.3	436.6	453.0	466.7	474.5	478.1	489.1
65°	350.3	348.9	353.0	359.1	368.5	378.6	392.8	405.0	404.3	408.3	415.1
67.5°	300.8	299.4	299.4	305.2	312.9	322.0	331.7	338.7	338.8	344.2	347.6
70°	267.3	263.2	265.9	270.7	274.0	281.5	292.3	295.0	295.6	298.3	301.7
72.5°	232.7	231.4	233.5	235.6	237.9	243.7	252.8	254.5	254.6	256.2	261.7
75°	184.9	183.6	182.2	184.3	187.0	191.0	194.4	197.1	196.4	197.1	201.1
77.5°	138.6	134.9	134.2	135.3	135.9	138.4	141.9	141.6	142.3	142.1	146.7
80°	110.0	104.6	103.9	103.9	104.6	106.0	107.3	108.7	106.6	108.7	110.0
82.5°	80.9	77.6	77.5	76.9	77.1	77.3	78.2	79.0	78.6	79.5	80.3
85°	44.5	43.2	41.2	42.5	41.8	39.8	41.2	39.1	38.5	39.1	39.8
87.5°	16.7	17.1	15.9	15.7	15.1	15.5	14.2	13.5	12.8	13.2	14.7
90°	7.8	7.3	6.5	5.8	5.1	4.4	3.7	2.9	2.1	1.3	0.5
92.5°	18.1	17.4	16.5	15.7	14.8	13.9	13.2	12.7	12.1	11.5	11.0
95°	35.6	34.9	33.9	32.9	31.9	30.9	30.3	30.1	29.9	29.7	29.5
97.5°	56.2	55.6	54.2	52.8	51.4	50.0	49.3	49.2	49.1	49.0	48.9
100°	70.3	69.3	68.0	66.7	65.4	64.1	63.5	63.5	63.5	63.5	63.5
102.5°	84.8	83.8	83.2	82.5	81.9	81.2	80.7	80.3	79.9	79.4	79.0
105°	108.9	108.3	107.7	107.1	106.5	105.9	105.4	104.8	104.3	103.8	103.3
107.5°	134.8	134.5	134.1	133.6	133.1	132.7	132.2	131.7	131.2	130.7	130.2
110°	152.6	152.3	152.0	151.7	151.4	151.1	150.7	150.2	149.7	149.2	148.7



TEST NUMBER: P333431

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	170.6	170.4	170.0	169.7	169.3	168.9	168.6	168.3	168.0	167.8	167.5
115°	198.0	198.1	197.9	197.7	197.5	197.3	197.0	196.6	196.2	195.7	195.3
117.5°	225.0	224.9	224.7	224.5	224.4	224.2	224.0	223.8	223.6	223.4	223.3
120°	243.4	243.4	243.3	243.2	243.1	243.0	242.7	242.2	241.7	241.2	240.7
122.5°	261.4	261.5	261.3	261.0	260.7	260.5	260.2	260.1	259.9	259.7	259.5
125°	288.1	288.3	288.2	288.1	288.0	287.9	287.5	286.9	286.3	285.7	285.1
127.5°	314.3	314.4	314.2	314.1	314.0	313.9	313.7	313.3	313.0	312.6	312.3
130°	331.7	331.8	331.6	331.4	331.2	331.0	330.6	330.1	329.6	329.1	328.6
132.5°	348.3	348.4	348.5	348.5	348.6	348.6	348.2	347.4	346.6	345.7	344.9
135°	373.9	373.9	373.8	373.7	373.6	373.5	373.2	372.6	372.0	371.4	370.7
137.5°	398.8	398.7	398.4	398.2	398.0	397.8	397.4	396.8	396.2	395.6	395.0
140°	414.5	414.3	414.0	413.7	413.4	413.1	412.6	412.1	411.6	411.1	410.6
142.5°	430.0	429.9	429.5	429.1	428.7	428.3	427.9	427.5	427.1	426.6	426.2
145°	452.3	452.3	452.0	451.7	451.4	451.1	450.8	450.4	450.0	449.6	449.2
147.5°	472.7	472.5	472.2	472.0	471.7	471.5	471.3	471.0	470.8	470.6	470.4
150°	485.9	485.9	485.5	485.1	484.7	484.3	484.1	484.2	484.3	484.4	484.5
152.5°	497.7	497.5	497.3	497.2	497.0	496.8	496.7	496.5	496.4	496.3	496.1
155°	514.8	514.4	514.3	514.2	514.1	514.0	514.0	514.0	514.0	514.0	514.0
157.5°	529.8	529.4	529.3	529.2	529.1	529.0	529.0	529.3	529.5	529.7	529.9
160°	538.9	538.4	538.3	538.2	538.1	538.0	538.1	538.4	538.7	539.1	539.4
162.5°	547.3	546.8	546.8	546.7	546.7	546.7	546.8	547.0	547.3	547.5	547.7
165°	558.8	558.4	558.3	558.2	558.1	558.0	558.0	558.2	558.4	558.6	558.8
167.5°	567.1	566.5	566.5	566.5	566.5	566.5	566.7	567.1	567.5	567.9	568.3
170°	572.1	571.5	571.5	571.5	571.5	571.5	571.7	572.1	572.5	572.9	573.3
172.5°	575.8	575.2	575.2	575.2	575.2	575.2	575.4	575.8	576.2	576.6	577.0
175°	579.8	579.2	579.2	579.2	579.2	579.2	579.4	579.8	580.2	580.6	581.1
177.5°	581.8	581.3	581.4	581.5	581.6	581.6	581.8	582.2	582.5	582.8	583.1
180°	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4



TEST NUMBER: P333431

CATALOG NUMBER: S125DIW-S1090D470U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2
2.5°	1598.8	1606.4	1611.2	1620.4	1628.0	1632.3	1636.1	1639.3	1643.1	1646.3	1655.5
5°	1609.1	1626.6	1641.5	1664.4	1685.4	1701.6	1719.1	1734.6	1747.4	1765.7	1779.8
7.5°	1604.6	1635.8	1668.5	1704.0	1740.3	1774.0	1805.1	1834.1	1860.4	1892.3	1920.2
10°	1600.3	1642.8	1684.7	1732.6	1781.9	1823.7	1862.9	1902.7	1931.7	1972.2	2006.6
12.5°	1597.1	1647.1	1697.6	1755.3	1809.4	1868.5	1920.6	1949.7	1993.8	2026.2	2067.1
15°	1583.4	1649.6	1719.1	1783.9	1860.8	1915.5	1961.4	2018.1	2059.3	2100.4	2145.0
17.5°	1559.0	1633.9	1711.7	1796.6	1870.4	1929.1	1988.3	2042.9	2092.1	2147.3	2202.8
20°	1547.7	1622.6	1711.7	1798.7	1871.0	1932.4	1993.1	2053.2	2107.2	2178.1	2242.2
22.5°	1523.9	1614.5	1696.6	1781.5	1855.8	1922.7	1991.5	2059.7	2131.5	2211.5	2291.9
25°	1481.5	1573.3	1660.4	1744.1	1819.0	1902.7	1976.3	2067.4	2159.2	2265.1	2365.0
27.5°	1437.5	1525.4	1605.2	1686.0	1773.4	1868.1	1963.6	2067.0	2187.1	2320.9	2461.8
30°	1401.9	1484.9	1562.5	1645.5	1736.6	1843.3	1947.9	2070.7	2209.8	2360.3	2527.7
32.5°	1360.3	1436.8	1512.3	1600.2	1699.4	1812.0	1933.9	2068.6	2235.7	2406.7	2579.0
35°	1289.2	1353.3	1430.9	1524.7	1636.8	1765.7	1906.7	2066.0	2257.7	2454.1	2599.2
37.5°	1204.8	1264.5	1346.3	1449.1	1566.6	1704.9	1872.3	2061.3	2264.9	2421.5	2468.3
40°	1148.1	1203.4	1288.5	1395.1	1515.3	1661.7	1845.3	2045.1	2242.2	2342.1	2303.6
42.5°	1087.6	1145.7	1228.5	1334.1	1463.4	1622.9	1811.3	2011.1	2176.3	2214.1	2081.1
45°	992.2	1052.2	1133.9	1240.6	1379.6	1552.4	1748.8	1930.4	2025.5	1957.4	1751.5
47.5°	903.5	959.8	1035.5	1145.5	1289.0	1467.7	1656.9	1801.7	1809.3	1646.6	1426.7
50°	843.0	895.0	971.3	1081.3	1223.7	1404.6	1575.3	1689.4	1638.1	1453.8	1242.6
52.5°	783.6	834.5	909.7	1018.6	1159.4	1325.2	1484.1	1564.1	1467.5	1278.4	1097.9
55°	697.9	742.4	816.0	916.6	1050.2	1204.1	1339.1	1366.8	1241.2	1054.9	908.5
57.5°	614.2	655.8	722.7	815.3	937.5	1073.8	1179.4	1173.5	1040.8	880.9	764.7
60°	557.5	598.0	657.4	747.8	859.2	976.7	1067.1	1045.5	913.9	776.2	678.3
62.5°	506.8	542.9	599.1	678.2	779.8	888.6	962.9	931.0	802.1	681.7	604.4
65°	432.0	462.3	510.3	577.8	662.1	751.9	809.3	768.1	658.1	564.3	502.2
67.5°	360.6	384.9	425.1	478.9	550.9	623.0	657.9	616.5	528.5	460.0	414.0
70°	315.2	336.8	367.8	415.8	478.5	539.3	565.6	528.5	452.9	394.2	361.1
72.5°	269.8	287.7	314.9	358.0	408.3	461.0	484.1	448.6	386.5	336.9	306.0
75°	208.6	220.7	239.6	269.3	309.1	351.0	363.8	332.8	292.9	255.8	235.6
77.5°	149.3	159.6	173.9	192.6	220.8	247.4	258.6	240.7	209.9	186.4	169.8
80°	114.7	120.1	132.3	147.8	170.1	187.0	194.4	182.9	161.3	143.8	130.9
82.5°	81.8	87.2	94.5	107.3	121.5	133.0	140.9	133.2	117.6	103.8	96.4
85°	39.8	43.2	47.2	52.6	63.4	70.2	69.5	64.8	58.7	53.3	49.3
87.5°	14.3	15.0	16.8	19.6	21.4	23.7	24.9	24.0	22.0	20.4	18.9
90°	1.3	2.1	2.9	3.7	4.4	5.1	5.8	6.5	7.3	7.8	8.3
92.5°	11.5	12.1	12.7	13.2	13.9	14.8	15.7	16.5	17.4	18.1	18.7
95°	29.7	29.9	30.1	30.3	30.9	31.9	32.9	33.9	34.9	35.6	36.3
97.5°	49.0	49.1	49.2	49.3	50.0	51.4	52.8	54.2	55.6	56.2	56.9
100°	63.5	63.5	63.5	63.5	64.1	65.4	66.7	68.0	69.3	70.3	71.2
102.5°	79.4	79.9	80.3	80.7	81.2	81.9	82.5	83.2	83.8	84.8	85.8
105°	103.8	104.3	104.8	105.4	105.9	106.5	107.1	107.7	108.3	108.9	109.5
107.5°	130.7	131.2	131.7	132.2	132.7	133.1	133.6	134.1	134.5	134.8	135.1
110°	149.2	149.7	150.2	150.7	151.1	151.4	151.7	152.0	152.3	152.6	152.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	167.8	168.0	168.3	168.6	168.9	169.3	169.7	170.0	170.4	170.6	170.7
115°	195.7	196.2	196.6	197.0	197.3	197.5	197.7	197.9	198.1	198.0	197.9
117.5°	223.4	223.6	223.8	224.0	224.2	224.4	224.5	224.7	224.9	225.0	225.1
120°	241.2	241.7	242.2	242.7	243.0	243.1	243.2	243.3	243.4	243.4	243.4
122.5°	259.7	259.9	260.1	260.2	260.5	260.7	261.0	261.3	261.5	261.4	261.4
125°	285.7	286.3	286.9	287.5	287.9	288.0	288.1	288.2	288.3	288.1	287.9
127.5°	312.6	313.0	313.3	313.7	313.9	314.0	314.1	314.2	314.4	314.3	314.2
130°	329.1	329.6	330.1	330.6	331.0	331.2	331.4	331.6	331.8	331.7	331.6
132.5°	345.7	346.6	347.4	348.2	348.6	348.6	348.5	348.5	348.4	348.3	348.2
135°	371.4	372.0	372.6	373.2	373.5	373.6	373.7	373.8	373.9	373.9	373.9
137.5°	395.6	396.2	396.8	397.4	397.8	398.0	398.2	398.4	398.7	398.8	398.9
140°	411.1	411.6	412.1	412.6	413.1	413.4	413.7	414.0	414.3	414.5	414.7
142.5°	426.6	427.1	427.5	427.9	428.3	428.7	429.1	429.5	429.9	430.0	430.1
145°	449.6	450.0	450.4	450.8	451.1	451.4	451.7	452.0	452.3	452.3	452.3
147.5°	470.6	470.8	471.0	471.3	471.5	471.7	472.0	472.2	472.5	472.7	472.9
150°	484.4	484.3	484.2	484.1	484.3	484.7	485.1	485.5	485.9	485.9	485.9
152.5°	496.3	496.4	496.5	496.7	496.8	497.0	497.2	497.3	497.5	497.7	498.0
155°	514.0	514.0	514.0	514.0	514.0	514.1	514.2	514.3	514.4	514.8	515.2
157.5°	529.7	529.5	529.3	529.0	529.0	529.1	529.2	529.3	529.4	529.8	530.2
160°	539.1	538.7	538.4	538.1	538.0	538.1	538.2	538.3	538.4	538.9	539.3
162.5°	547.5	547.3	547.0	546.8	546.7	546.7	546.7	546.8	546.8	547.3	547.8
165°	558.6	558.4	558.2	558.0	558.0	558.1	558.2	558.3	558.4	558.8	559.2
167.5°	567.9	567.5	567.1	566.7	566.5	566.5	566.5	566.5	566.5	567.1	567.7
170°	572.9	572.5	572.1	571.7	571.5	571.5	571.5	571.5	571.5	572.1	572.7
172.5°	576.6	576.2	575.8	575.4	575.2	575.2	575.2	575.2	575.2	575.8	576.4
175°	580.6	580.2	579.8	579.4	579.2	579.2	579.2	579.2	579.2	579.8	580.4
177.5°	582.8	582.5	582.2	581.8	581.6	581.6	581.5	581.4	581.3	581.8	582.3
180°	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2
2.5°	1663.1	1667.4	1676.6	1673.3	1677.7	1679.8	1682.0
5°	1797.4	1819.0	1828.4	1827.1	1841.3	1837.9	1834.5
7.5°	1949.1	1971.8	1984.5	2000.3	2009.5	2010.1	2018.1
10°	2035.0	2064.7	2076.8	2093.7	2104.5	2110.6	2109.9
12.5°	2100.9	2124.1	2151.3	2159.6	2174.2	2181.8	2179.0
15°	2180.1	2217.2	2245.6	2259.7	2278.0	2283.4	2290.8
17.5°	2250.8	2300.6	2333.7	2377.7	2394.3	2404.4	2398.5
20°	2304.3	2369.8	2402.8	2455.5	2484.5	2500.0	2494.6
22.5°	2367.5	2438.3	2499.5	2545.1	2589.2	2610.2	2614.5
25°	2475.7	2572.9	2662.7	2722.8	2777.4	2790.2	2818.6
27.5°	2596.7	2711.3	2807.3	2870.4	2908.5	2922.8	2931.7
30°	2672.8	2786.9	2859.1	2899.6	2911.7	2910.4	2909.0
32.5°	2710.1	2781.5	2795.4	2784.0	2756.2	2732.7	2708.2
35°	2657.3	2604.0	2524.3	2421.7	2346.1	2269.9	2262.4
37.5°	2389.9	2219.4	2086.8	1938.7	1853.3	1800.5	1764.1
40°	2138.2	1944.5	1783.9	1659.0	1572.0	1537.5	1503.8
42.5°	1865.0	1680.0	1537.7	1433.3	1367.9	1329.7	1302.9
45°	1515.3	1351.9	1240.6	1165.0	1113.0	1083.3	1066.4
47.5°	1241.6	1120.8	1026.2	971.7	935.8	912.7	912.8
50°	1094.8	979.4	916.6	873.4	842.3	824.1	827.5
52.5°	964.6	878.4	824.8	788.6	765.7	754.5	754.1
55°	806.6	744.5	709.4	683.1	667.5	654.7	657.4
57.5°	689.9	637.6	614.1	592.2	581.4	576.3	568.8
60°	617.6	577.1	556.8	539.3	528.5	524.4	517.0
62.5°	553.3	521.5	501.8	487.4	477.7	476.4	470.6
65°	465.0	440.7	423.2	416.4	406.3	403.6	403.6
67.5°	383.4	366.0	352.3	346.1	341.7	342.3	339.1
70°	332.1	317.9	309.1	302.4	299.0	299.7	297.0
72.5°	290.5	274.7	267.0	263.0	258.5	260.3	259.2
75°	220.0	211.9	207.9	203.8	201.1	199.8	198.4
77.5°	161.6	154.4	151.3	149.0	149.4	146.2	148.8
80°	124.9	118.8	116.8	113.4	112.7	112.7	112.0
82.5°	91.4	88.0	86.5	83.7	82.5	83.6	81.8
85°	47.2	44.5	43.9	43.9	42.5	41.2	44.5
87.5°	19.0	17.0	17.1	16.6	16.6	16.2	15.1
90°	8.8	9.3	9.7	10.0	10.3	10.6	10.9
92.5°	19.4	20.1	20.5	20.7	20.9	21.2	21.4
95°	37.0	37.7	38.2	38.4	38.6	38.8	39.0
97.5°	57.6	58.2	58.6	58.7	58.9	59.0	59.1
100°	72.1	73.0	73.5	73.7	73.9	74.1	74.3
102.5°	86.8	87.8	88.4	88.7	89.0	89.3	89.6
105°	110.1	110.7	111.2	111.5	111.8	112.1	112.4
107.5°	135.4	135.7	135.9	135.9	135.8	135.8	135.8
110°	153.2	153.5	153.6	153.5	153.4	153.3	153.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	170.8	171.0	171.0	170.8	170.6	170.4	170.2
115°	197.8	197.7	197.6	197.5	197.4	197.3	197.2
117.5°	225.1	225.2	225.1	224.7	224.3	223.8	223.4
120°	243.4	243.4	243.2	242.8	242.4	242.0	241.6
122.5°	261.3	261.2	261.0	260.7	260.4	260.0	259.7
125°	287.7	287.5	287.3	287.2	287.1	287.0	286.9
127.5°	314.1	314.0	313.8	313.6	313.4	313.2	313.0
130°	331.5	331.4	331.2	331.0	330.8	330.6	330.4
132.5°	348.1	348.0	347.9	347.6	347.3	347.0	346.7
135°	373.9	373.9	373.7	373.3	372.9	372.5	372.1
137.5°	399.0	399.2	399.0	398.5	398.0	397.4	396.9
140°	414.9	415.1	414.9	414.4	413.9	413.4	412.9
142.5°	430.2	430.3	430.1	429.6	429.1	428.6	428.1
145°	452.3	452.3	452.2	451.9	451.6	451.3	451.0
147.5°	473.2	473.4	473.2	472.5	471.8	471.1	470.5
150°	485.9	485.9	485.8	485.6	485.4	485.2	485.0
152.5°	498.2	498.4	498.4	498.0	497.7	497.3	496.9
155°	515.6	516.0	516.0	515.5	515.0	514.5	514.0
157.5°	530.6	531.0	530.9	530.2	529.5	528.9	528.2
160°	539.7	540.1	540.0	539.5	539.0	538.5	538.0
162.5°	548.2	548.7	548.7	548.1	547.5	546.9	546.3
165°	559.6	560.0	559.9	559.3	558.7	558.1	557.5
167.5°	568.3	568.9	568.9	568.2	567.6	567.0	566.4
170°	573.3	574.0	573.9	573.2	572.5	571.8	571.1
172.5°	577.0	577.6	577.6	576.9	576.3	575.7	575.1
175°	581.1	581.7	581.6	580.9	580.2	579.5	578.8
177.5°	582.8	583.3	583.2	582.7	582.1	581.5	581.0
180°	582.4	582.4	582.4	582.4	582.4	582.4	582.4

(END OF REPORT)