

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: P333270

Luminaire Tested: **S125DIP-S1090D810U835-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333270
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-19,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DIP-S1090D810U835-4F0-1E-UDD-A4
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1090 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 810 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7397.7 lumens
Efficiency: N/A
Efficacy: 136.0 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

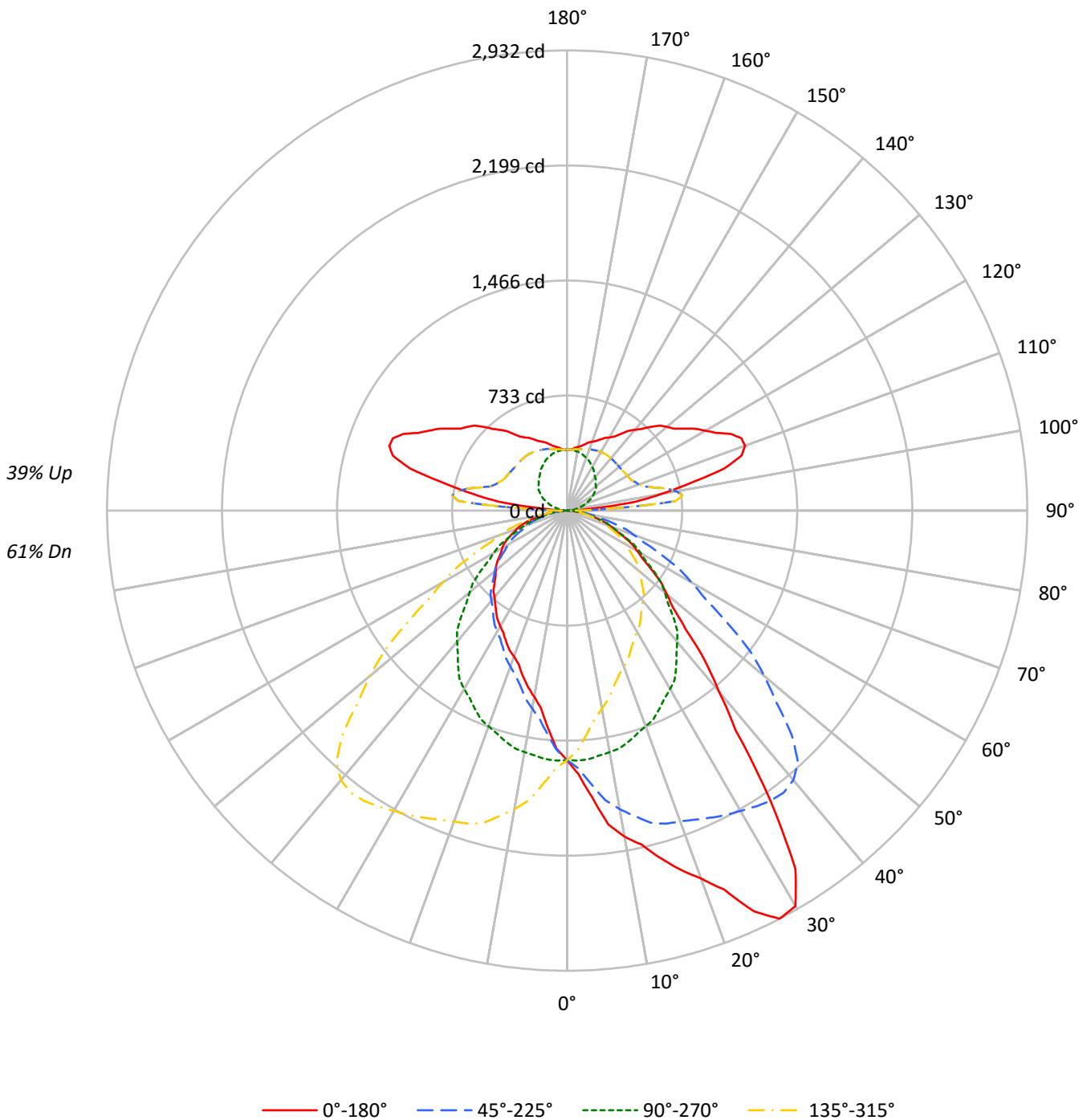
Input Watts (W): 54.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	100	96	92	89	94	90	87	84	79	76	74	68	67	65	59	57	56	52
2	92	84	78	73	86	79	74	69	69	65	62	60	57	55	52	50	48	44
3	84	74	67	61	78	70	63	58	61	56	52	54	50	46	46	43	41	37
4	77	66	58	52	72	62	55	49	55	49	45	48	43	40	41	38	35	32
5	71	59	51	45	66	55	48	43	49	43	39	43	38	35	37	34	31	28
6	65	53	45	39	61	50	43	37	44	38	34	39	34	31	34	30	27	25
7	60	48	40	34	56	45	38	33	40	34	30	35	31	27	31	27	24	22
8	56	43	36	30	52	41	34	29	37	31	27	32	28	24	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	18
10	49	36	29	24	46	35	28	23	31	25	22	28	23	20	24	21	18	16

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	2.1
10°-20°	455.8	6.2
20°-30°	740.1	10.0
30°-40°	902.8	12.2
40°-50°	821.3	11.1
50°-60°	654.2	8.8
60°-70°	455.6	6.2
70°-80°	243.0	3.3
80°-90°	63.5	0.9
90°-100°	281.1	3.8
100°-110°	604.3	8.2
110°-120°	567.1	7.7
120°-130°	459.6	6.2
130°-140°	368.8	5.0
140°-150°	278.3	3.8
150°-160°	195.9	2.6
160°-170°	115.5	1.6
170°-180°	37.6	0.5
0°-30°	1349.0	18.2
0°-40°	2251.8	30.4
0°-60°	3727.3	50.4
0°-90°	4489.4	60.7
90°-120°	1452.5	19.6
90°-150°	2559.3	34.6
90°-180°	2908.0	39.3
0°-180°	7397.7	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°	18	1	18	1	18	14
95°	184	26	184	26	184	260
105°	1036	88	1036	88	1036	1030
115°	1154	158	1154	158	1154	1128
125°	909	219	909	219	909	823
135°	755	256	755	256	755	585
145°	596	299	596	299	596	379
155°	500	341	500	341	500	233
165°	438	372	438	372	438	125
175°	393	387	393	387	393	38
180°	388	388	388	388	388	



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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°	16.6	17.6	18.0	18.0	18.6	18.2	20.2	20.1	21.6	23.0	24.9
90°	18.0	18.0	17.2	17.2	17.2	15.6	14.9	14.1	13.3	12.5	10.9
92.5°	49.9	51.1	52.2	54.1	64.1	75.7	100.6	138.6	204.1	252.1	256.1
95°	183.7	196.3	202.5	226.0	281.5	347.2	443.3	562.2	677.9	692.8	565.3
97.5°	444.1	454.1	476.8	520.6	568.9	660.2	753.9	837.3	857.7	739.8	504.8
100°	609.9	622.4	651.3	707.6	761.6	842.9	923.4	961.7	901.5	706.1	450.4
102.5°	795.0	804.4	835.8	875.9	933.6	988.6	1027.3	1003.6	875.3	646.6	409.1
105°	1036.0	1045.4	1061.0	1086.8	1111.9	1120.5	1086.1	978.9	791.3	566.9	369.1
107.5°	1163.9	1170.2	1175.3	1175.5	1162.8	1122.0	1033.7	890.7	705.6	512.0	352.2
110°	1206.5	1206.5	1201.0	1186.1	1150.9	1084.5	974.2	825.7	656.8	486.3	347.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1201.5	1195.8	1182.2	1156.7	1105.3	1026.9	915.4	774.4	620.5	471.3	347.2
115°	1154.1	1143.9	1122.0	1084.5	1023.5	938.3	831.2	710.0	580.9	455.1	349.5
117.5°	1071.0	1064.8	1043.0	1004.3	943.3	865.1	772.8	668.4	557.3	447.1	354.7
120°	1017.2	1011.0	989.9	952.3	894.5	825.7	739.7	645.8	544.2	443.3	359.7
122.5°	969.7	964.1	943.0	908.6	857.0	792.5	715.9	629.0	532.9	440.2	364.0
125°	909.3	901.5	884.3	852.3	808.5	752.2	684.2	604.4	517.6	436.3	371.4
127.5°	857.7	854.3	838.0	809.7	770.0	717.3	653.8	579.4	503.5	434.4	379.7
130°	829.6	824.9	809.3	783.5	744.4	693.5	632.6	563.7	494.2	433.2	384.7
132.5°	801.4	796.1	781.7	755.9	716.8	667.9	612.5	548.1	486.7	433.2	390.3
135°	755.3	750.6	736.5	710.7	676.3	631.8	581.7	527.8	477.7	433.2	398.0
137.5°	706.1	700.9	687.9	664.5	633.6	595.8	554.2	510.6	469.8	434.1	405.0
140°	671.6	667.7	656.0	635.7	606.7	573.9	537.9	501.2	466.0	434.7	408.1
142.5°	639.7	636.5	625.4	608.2	583.6	555.1	524.2	493.1	462.9	435.4	410.0
145°	595.8	592.7	584.1	570.8	552.0	530.9	506.7	482.4	458.2	434.7	412.1
147.5°	558.6	557.2	552.2	541.5	526.7	510.7	492.1	472.4	453.3	432.7	412.8
150°	537.9	537.2	534.0	524.7	512.9	498.8	484.0	466.8	449.6	430.8	412.8
152.5°	521.7	520.9	517.8	510.3	500.4	489.5	475.9	460.5	445.2	428.3	412.2
155°	499.6	498.8	496.5	491.0	483.2	474.6	463.7	451.2	437.9	423.8	410.5
157.5°	479.9	480.1	477.9	473.4	467.3	460.5	452.1	441.8	431.0	419.1	408.5
160°	466.8	467.6	466.0	462.1	456.6	451.2	443.3	435.5	425.4	416.0	406.6
162.5°	454.9	455.1	454.7	451.5	447.2	442.4	435.8	428.6	420.3	412.2	404.7
165°	437.9	437.9	437.9	436.3	433.2	429.3	424.6	419.1	412.8	406.6	401.9
167.5°	422.2	422.4	423.0	421.6	420.0	417.2	413.6	410.0	405.5	401.1	397.5
170°	412.8	413.6	413.6	412.8	411.3	409.7	407.4	405.0	401.1	398.0	395.6
172.5°	404.1	404.9	406.1	404.7	404.4	403.5	401.7	399.4	396.7	394.2	393.1
175°	393.3	394.1	395.6	394.9	394.9	394.9	393.3	393.3	390.9	390.2	390.2
177.5°	387.8	387.8	389.7	389.1	389.7	389.7	389.7	389.1	388.4	387.8	387.8
180°	387.8	387.8	387.8	387.8	387.8	387.8	387.8	387.8	387.8	387.8	387.8



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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°	25.8	24.4	22.1	20.1	17.1	15.2	14.4	14.7	13.3	13.0	13.9
90°	10.2	8.6	7.8	6.3	4.7	3.1	1.6	0.8	1.6	3.1	4.7
92.5°	178.4	106.8	64.1	41.3	27.8	18.1	11.6	9.5	11.6	18.1	27.8
95°	349.5	177.5	93.8	58.6	41.4	32.8	26.6	25.8	26.6	32.8	41.4
97.5°	279.0	152.9	97.6	72.2	56.8	48.2	43.8	42.8	43.8	48.2	56.8
100°	253.3	151.7	106.3	82.9	68.0	59.4	56.3	54.7	56.3	59.4	68.0
102.5°	242.7	157.3	117.0	94.1	80.5	71.3	68.8	67.9	68.8	71.3	80.5
105°	238.5	168.9	134.5	112.6	100.1	92.3	88.4	88.4	88.4	92.3	100.1
107.5°	245.7	186.1	152.8	133.1	120.1	113.7	109.9	108.4	109.9	113.7	120.1
110°	252.6	198.6	166.5	146.2	134.5	127.4	124.3	122.8	124.3	127.4	134.5



TEST NUMBER: P333270

CATALOG NUMBER: S125DIP-S1090D810U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	261.3	210.5	179.7	160.0	148.2	141.2	138.7	137.1	138.7	141.2	148.2
115°	274.4	229.1	200.2	180.6	168.9	161.9	159.5	157.9	159.5	161.9	168.9
117.5°	289.5	248.2	220.8	201.9	188.6	181.6	179.1	176.7	179.1	181.6	188.6
120°	299.5	261.9	234.6	215.0	201.7	194.7	191.6	189.2	191.6	194.7	201.7
122.5°	310.7	275.1	247.7	228.2	213.6	206.6	204.1	202.4	204.1	206.6	213.6
125°	326.0	292.4	266.6	246.3	231.4	224.4	220.5	218.9	220.5	224.4	231.4
127.5°	340.1	309.2	284.3	264.0	248.2	239.3	234.3	231.9	234.3	239.3	248.2
130°	349.5	319.8	295.6	275.2	258.8	248.6	242.4	240.0	242.4	248.6	258.8
132.5°	357.6	329.8	305.6	285.2	268.2	256.8	249.3	246.3	249.3	256.8	268.2
135°	369.1	343.3	319.0	297.9	281.5	269.0	259.6	256.5	259.6	269.0	281.5
137.5°	377.5	352.8	330.7	309.0	292.9	280.4	271.6	269.3	271.6	280.4	292.9
140°	383.1	359.7	337.0	315.9	301.0	288.5	279.1	276.8	279.1	288.5	301.0
142.5°	386.3	364.0	342.6	322.8	308.5	296.0	287.3	285.5	287.3	296.0	308.5
145°	390.9	371.4	351.1	333.1	319.0	308.1	300.2	298.7	300.2	308.1	319.0
147.5°	393.8	376.1	358.3	342.5	330.3	320.1	313.4	312.4	313.4	320.1	330.3
150°	395.6	379.2	362.0	348.7	337.8	327.6	322.1	320.6	322.1	327.6	337.8
152.5°	396.9	382.3	366.4	354.4	344.0	335.1	330.3	329.3	330.3	335.1	344.0
155°	398.0	385.5	372.2	361.2	353.4	345.6	340.9	340.9	340.9	345.6	353.4
157.5°	398.8	388.1	376.7	368.4	361.5	354.8	351.1	351.2	351.1	354.8	361.5
160°	398.8	389.4	379.2	372.2	365.9	360.5	357.3	358.1	357.3	360.5	365.9
162.5°	398.1	390.6	381.7	375.9	370.9	366.1	363.0	363.7	363.0	366.1	370.9
165°	397.2	390.9	384.7	380.0	376.9	373.0	370.6	372.2	370.6	373.0	376.9
167.5°	395.3	390.9	385.8	382.8	380.6	378.4	377.0	377.8	377.0	378.4	380.6
170°	394.1	390.9	387.0	384.7	383.1	381.6	380.8	381.6	380.8	381.6	383.1
172.5°	392.8	390.3	387.0	385.9	385.0	383.4	382.7	384.1	382.7	383.4	385.0
175°	390.9	389.4	387.0	387.0	387.0	386.3	385.5	387.0	385.5	386.3	387.0
177.5°	389.1	388.4	387.2	387.2	387.8	387.2	387.2	388.4	387.2	387.2	387.8
180°	387.8	387.8	387.8	387.8	387.8	387.8	387.8	387.8	387.8	387.8	387.8



TEST NUMBER: P333270

CATALOG NUMBER: S125DIP-S1090D810U835-4F0-1E-UDD-A4

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°	14.8	16.1	15.8	16.6	16.8	18.2	17.8	20.1	21.3	22.6	22.3
90°	6.3	7.8	8.6	10.2	10.9	12.5	13.3	14.1	14.9	15.6	17.2
92.5°	41.3	64.1	106.8	178.4	256.1	252.1	204.1	138.6	100.6	75.7	64.1
95°	58.6	93.8	177.5	349.5	565.3	692.8	677.9	562.2	443.3	347.2	281.5
97.5°	72.2	97.6	152.9	279.0	504.8	739.8	857.7	837.3	753.9	660.2	568.9
100°	82.9	106.3	151.7	253.3	450.4	706.1	901.5	961.7	923.4	842.9	761.6
102.5°	94.1	117.0	157.3	242.7	409.1	646.6	875.3	1003.6	1027.3	988.6	933.6
105°	112.6	134.5	168.9	238.5	369.1	566.9	791.3	978.9	1086.1	1120.5	1111.9
107.5°	133.1	152.8	186.1	245.7	352.2	512.0	705.6	890.7	1033.7	1122.0	1162.8
110°	146.2	166.5	198.6	252.6	347.2	486.3	656.8	825.7	974.2	1084.5	1150.9



TEST NUMBER: P333270

CATALOG NUMBER: S125DIP-S1090D810U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	160.0	179.7	210.5	261.3	347.2	471.3	620.5	774.4	915.4	1026.9	1105.3
115°	180.6	200.2	229.1	274.4	349.5	455.1	580.9	710.0	831.2	938.3	1023.5
117.5°	201.9	220.8	248.2	289.5	354.7	447.1	557.3	668.4	772.8	865.1	943.3
120°	215.0	234.6	261.9	299.5	359.7	443.3	544.2	645.8	739.7	825.7	894.5
122.5°	228.2	247.7	275.1	310.7	364.0	440.2	532.9	629.0	715.9	792.5	857.0
125°	246.3	266.6	292.4	326.0	371.4	436.3	517.6	604.4	684.2	752.2	808.5
127.5°	264.0	284.3	309.2	340.1	379.7	434.4	503.5	579.4	653.8	717.3	770.0
130°	275.2	295.6	319.8	349.5	384.7	433.2	494.2	563.7	632.6	693.5	744.4
132.5°	285.2	305.6	329.8	357.6	390.3	433.2	486.7	548.1	612.5	667.9	716.8
135°	297.9	319.0	343.3	369.1	398.0	433.2	477.7	527.8	581.7	631.8	676.3
137.5°	309.0	330.7	352.8	377.5	405.0	434.1	469.8	510.6	554.2	595.8	633.6
140°	315.9	337.0	359.7	383.1	408.1	434.7	466.0	501.2	537.9	573.9	606.7
142.5°	322.8	342.6	364.0	386.3	410.0	435.4	462.9	493.1	524.2	555.1	583.6
145°	333.1	351.1	371.4	390.9	412.1	434.7	458.2	482.4	506.7	530.9	552.0
147.5°	342.5	358.3	376.1	393.8	412.8	432.7	453.3	472.4	492.1	510.7	526.7
150°	348.7	362.0	379.2	395.6	412.8	430.8	449.6	466.8	484.0	498.8	512.9
152.5°	354.4	366.4	382.3	396.9	412.2	428.3	445.2	460.5	475.9	489.5	500.4
155°	361.2	372.2	385.5	398.0	410.5	423.8	437.9	451.2	463.7	474.6	483.2
157.5°	368.4	376.7	388.1	398.8	408.5	419.1	431.0	441.8	452.1	460.5	467.3
160°	372.2	379.2	389.4	398.8	406.6	416.0	425.4	435.5	443.3	451.2	456.6
162.5°	375.9	381.7	390.6	398.1	404.7	412.2	420.3	428.6	435.8	442.4	447.2
165°	380.0	384.7	390.9	397.2	401.9	406.6	412.8	419.1	424.6	429.3	433.2
167.5°	382.8	385.8	390.9	395.3	397.5	401.1	405.5	410.0	413.6	417.2	420.0
170°	384.7	387.0	390.9	394.1	395.6	398.0	401.1	405.0	407.4	409.7	411.3
172.5°	385.9	387.0	390.3	392.8	393.1	394.2	396.7	399.4	401.7	403.5	404.4
175°	387.0	387.0	389.4	390.9	390.2	390.2	390.9	393.3	393.3	394.9	394.9
177.5°	387.2	387.2	388.4	389.1	387.8	387.8	388.4	389.1	389.7	389.7	389.7
180°	387.8	387.8	387.8	387.8	387.8	387.8	387.8	387.8	387.8	387.8	387.8



TEST NUMBER: P333270

CATALOG NUMBER: S125DIP-S1090D810U835-4F0-1E-UDD-A4

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°	23.4	22.9	23.0	24.1	23.0	22.9	23.4	22.3	22.6	21.3	20.1
90°	17.2	17.2	18.0	18.0	18.0	17.2	17.2	17.2	15.6	14.9	14.1
92.5°	54.1	52.2	51.1	49.9	51.1	52.2	54.1	64.1	75.7	100.6	138.6
95°	226.0	202.5	196.3	183.7	196.3	202.5	226.0	281.5	347.2	443.3	562.2
97.5°	520.6	476.8	454.1	444.1	454.1	476.8	520.6	568.9	660.2	753.9	837.3
100°	707.6	651.3	622.4	609.9	622.4	651.3	707.6	761.6	842.9	923.4	961.7
102.5°	875.9	835.8	804.4	795.0	804.4	835.8	875.9	933.6	988.6	1027.3	1003.6
105°	1086.8	1061.0	1045.4	1036.0	1045.4	1061.0	1086.8	1111.9	1120.5	1086.1	978.9
107.5°	1175.5	1175.3	1170.2	1163.9	1170.2	1175.3	1175.5	1162.8	1122.0	1033.7	890.7
110°	1186.1	1201.0	1206.5	1206.5	1206.5	1201.0	1186.1	1150.9	1084.5	974.2	825.7



TEST NUMBER: P333270

CATALOG NUMBER: S125DIP-S1090D810U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1156.7	1182.2	1195.8	1201.5	1195.8	1182.2	1156.7	1105.3	1026.9	915.4	774.4
115°	1084.5	1122.0	1143.9	1154.1	1143.9	1122.0	1084.5	1023.5	938.3	831.2	710.0
117.5°	1004.3	1043.0	1064.8	1071.0	1064.8	1043.0	1004.3	943.3	865.1	772.8	668.4
120°	952.3	989.9	1011.0	1017.2	1011.0	989.9	952.3	894.5	825.7	739.7	645.8
122.5°	908.6	943.0	964.1	969.7	964.1	943.0	908.6	857.0	792.5	715.9	629.0
125°	852.3	884.3	901.5	909.3	901.5	884.3	852.3	808.5	752.2	684.2	604.4
127.5°	809.7	838.0	854.3	857.7	854.3	838.0	809.7	770.0	717.3	653.8	579.4
130°	783.5	809.3	824.9	829.6	824.9	809.3	783.5	744.4	693.5	632.6	563.7
132.5°	755.9	781.7	796.1	801.4	796.1	781.7	755.9	716.8	667.9	612.5	548.1
135°	710.7	736.5	750.6	755.3	750.6	736.5	710.7	676.3	631.8	581.7	527.8
137.5°	664.5	687.9	700.9	706.1	700.9	687.9	664.5	633.6	595.8	554.2	510.6
140°	635.7	656.0	667.7	671.6	667.7	656.0	635.7	606.7	573.9	537.9	501.2
142.5°	608.2	625.4	636.5	639.7	636.5	625.4	608.2	583.6	555.1	524.2	493.1
145°	570.8	584.1	592.7	595.8	592.7	584.1	570.8	552.0	530.9	506.7	482.4
147.5°	541.5	552.2	557.2	558.6	557.2	552.2	541.5	526.7	510.7	492.1	472.4
150°	524.7	534.0	537.2	537.9	537.2	534.0	524.7	512.9	498.8	484.0	466.8
152.5°	510.3	517.8	520.9	521.7	520.9	517.8	510.3	500.4	489.5	475.9	460.5
155°	491.0	496.5	498.8	499.6	498.8	496.5	491.0	483.2	474.6	463.7	451.2
157.5°	473.4	477.9	480.1	479.9	480.1	477.9	473.4	467.3	460.5	452.1	441.8
160°	462.1	466.0	467.6	466.8	467.6	466.0	462.1	456.6	451.2	443.3	435.5
162.5°	451.5	454.7	455.1	454.9	455.1	454.7	451.5	447.2	442.4	435.8	428.6
165°	436.3	437.9	437.9	437.9	437.9	437.9	436.3	433.2	429.3	424.6	419.1
167.5°	421.6	423.0	422.4	422.2	422.4	423.0	421.6	420.0	417.2	413.6	410.0
170°	412.8	413.6	413.6	412.8	413.6	413.6	412.8	411.3	409.7	407.4	405.0
172.5°	404.7	406.1	404.9	404.1	404.9	406.1	404.7	404.4	403.5	401.7	399.4
175°	394.9	395.6	394.1	393.3	394.1	395.6	394.9	394.9	394.9	393.3	393.3
177.5°	389.1	389.7	387.8	387.8	387.8	389.7	389.1	389.7	389.7	389.7	389.1
180°	387.8	387.8	387.8	387.8	387.8	387.8	387.8	387.8	387.8	387.8	387.8



TEST NUMBER: P333270

CATALOG NUMBER: S125DIP-S1090D810U835-4F0-1E-UDD-A4

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°	17.8	18.2	16.8	16.6	15.8	16.1	14.8	13.9	13.0	13.3	14.7
90°	13.3	12.5	10.9	10.2	8.6	7.8	6.3	4.7	3.1	1.6	0.8
92.5°	204.1	252.1	256.1	178.4	106.8	64.1	41.3	27.8	18.1	11.6	9.5
95°	677.9	692.8	565.3	349.5	177.5	93.8	58.6	41.4	32.8	26.6	25.8
97.5°	857.7	739.8	504.8	279.0	152.9	97.6	72.2	56.8	48.2	43.8	42.8
100°	901.5	706.1	450.4	253.3	151.7	106.3	82.9	68.0	59.4	56.3	54.7
102.5°	875.3	646.6	409.1	242.7	157.3	117.0	94.1	80.5	71.3	68.8	67.9
105°	791.3	566.9	369.1	238.5	168.9	134.5	112.6	100.1	92.3	88.4	88.4
107.5°	705.6	512.0	352.2	245.7	186.1	152.8	133.1	120.1	113.7	109.9	108.4
110°	656.8	486.3	347.2	252.6	198.6	166.5	146.2	134.5	127.4	124.3	122.8



TEST NUMBER: P333270

CATALOG NUMBER: S125DIP-S1090D810U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	620.5	471.3	347.2	261.3	210.5	179.7	160.0	148.2	141.2	138.7	137.1
115°	580.9	455.1	349.5	274.4	229.1	200.2	180.6	168.9	161.9	159.5	157.9
117.5°	557.3	447.1	354.7	289.5	248.2	220.8	201.9	188.6	181.6	179.1	176.7
120°	544.2	443.3	359.7	299.5	261.9	234.6	215.0	201.7	194.7	191.6	189.2
122.5°	532.9	440.2	364.0	310.7	275.1	247.7	228.2	213.6	206.6	204.1	202.4
125°	517.6	436.3	371.4	326.0	292.4	266.6	246.3	231.4	224.4	220.5	218.9
127.5°	503.5	434.4	379.7	340.1	309.2	284.3	264.0	248.2	239.3	234.3	231.9
130°	494.2	433.2	384.7	349.5	319.8	295.6	275.2	258.8	248.6	242.4	240.0
132.5°	486.7	433.2	390.3	357.6	329.8	305.6	285.2	268.2	256.8	249.3	246.3
135°	477.7	433.2	398.0	369.1	343.3	319.0	297.9	281.5	269.0	259.6	256.5
137.5°	469.8	434.1	405.0	377.5	352.8	330.7	309.0	292.9	280.4	271.6	269.3
140°	466.0	434.7	408.1	383.1	359.7	337.0	315.9	301.0	288.5	279.1	276.8
142.5°	462.9	435.4	410.0	386.3	364.0	342.6	322.8	308.5	296.0	287.3	285.5
145°	458.2	434.7	412.1	390.9	371.4	351.1	333.1	319.0	308.1	300.2	298.7
147.5°	453.3	432.7	412.8	393.8	376.1	358.3	342.5	330.3	320.1	313.4	312.4
150°	449.6	430.8	412.8	395.6	379.2	362.0	348.7	337.8	327.6	322.1	320.6
152.5°	445.2	428.3	412.2	396.9	382.3	366.4	354.4	344.0	335.1	330.3	329.3
155°	437.9	423.8	410.5	398.0	385.5	372.2	361.2	353.4	345.6	340.9	340.9
157.5°	431.0	419.1	408.5	398.8	388.1	376.7	368.4	361.5	354.8	351.1	351.2
160°	425.4	416.0	406.6	398.8	389.4	379.2	372.2	365.9	360.5	357.3	358.1
162.5°	420.3	412.2	404.7	398.1	390.6	381.7	375.9	370.9	366.1	363.0	363.7
165°	412.8	406.6	401.9	397.2	390.9	384.7	380.0	376.9	373.0	370.6	372.2
167.5°	405.5	401.1	397.5	395.3	390.9	385.8	382.8	380.6	378.4	377.0	377.8
170°	401.1	398.0	395.6	394.1	390.9	387.0	384.7	383.1	381.6	380.8	381.6
172.5°	396.7	394.2	393.1	392.8	390.3	387.0	385.9	385.0	383.4	382.7	384.1
175°	390.9	390.2	390.2	390.9	389.4	387.0	387.0	387.0	386.3	385.5	387.0
177.5°	388.4	387.8	387.8	389.1	388.4	387.2	387.2	387.8	387.2	387.2	388.4
180°	387.8	387.8	387.8	387.8	387.8	387.8	387.8	387.8	387.8	387.8	387.8



TEST NUMBER: P333270

CATALOG NUMBER: S125DIP-S1090D810U835-4F0-1E-UDD-A4

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°	14.4	15.2	17.1	20.1	22.1	24.4	25.8	24.9	23.0	21.6	20.1
90°	1.6	3.1	4.7	6.3	7.8	8.6	10.2	10.9	12.5	13.3	14.1
92.5°	11.6	18.1	27.8	41.3	64.1	106.8	178.4	256.1	252.1	204.1	138.6
95°	26.6	32.8	41.4	58.6	93.8	177.5	349.5	565.3	692.8	677.9	562.2
97.5°	43.8	48.2	56.8	72.2	97.6	152.9	279.0	504.8	739.8	857.7	837.3
100°	56.3	59.4	68.0	82.9	106.3	151.7	253.3	450.4	706.1	901.5	961.7
102.5°	68.8	71.3	80.5	94.1	117.0	157.3	242.7	409.1	646.6	875.3	1003.6
105°	88.4	92.3	100.1	112.6	134.5	168.9	238.5	369.1	566.9	791.3	978.9
107.5°	109.9	113.7	120.1	133.1	152.8	186.1	245.7	352.2	512.0	705.6	890.7
110°	124.3	127.4	134.5	146.2	166.5	198.6	252.6	347.2	486.3	656.8	825.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	138.7	141.2	148.2	160.0	179.7	210.5	261.3	347.2	471.3	620.5	774.4
115°	159.5	161.9	168.9	180.6	200.2	229.1	274.4	349.5	455.1	580.9	710.0
117.5°	179.1	181.6	188.6	201.9	220.8	248.2	289.5	354.7	447.1	557.3	668.4
120°	191.6	194.7	201.7	215.0	234.6	261.9	299.5	359.7	443.3	544.2	645.8
122.5°	204.1	206.6	213.6	228.2	247.7	275.1	310.7	364.0	440.2	532.9	629.0
125°	220.5	224.4	231.4	246.3	266.6	292.4	326.0	371.4	436.3	517.6	604.4
127.5°	234.3	239.3	248.2	264.0	284.3	309.2	340.1	379.7	434.4	503.5	579.4
130°	242.4	248.6	258.8	275.2	295.6	319.8	349.5	384.7	433.2	494.2	563.7
132.5°	249.3	256.8	268.2	285.2	305.6	329.8	357.6	390.3	433.2	486.7	548.1
135°	259.6	269.0	281.5	297.9	319.0	343.3	369.1	398.0	433.2	477.7	527.8
137.5°	271.6	280.4	292.9	309.0	330.7	352.8	377.5	405.0	434.1	469.8	510.6
140°	279.1	288.5	301.0	315.9	337.0	359.7	383.1	408.1	434.7	466.0	501.2
142.5°	287.3	296.0	308.5	322.8	342.6	364.0	386.3	410.0	435.4	462.9	493.1
145°	300.2	308.1	319.0	333.1	351.1	371.4	390.9	412.1	434.7	458.2	482.4
147.5°	313.4	320.1	330.3	342.5	358.3	376.1	393.8	412.8	432.7	453.3	472.4
150°	322.1	327.6	337.8	348.7	362.0	379.2	395.6	412.8	430.8	449.6	466.8
152.5°	330.3	335.1	344.0	354.4	366.4	382.3	396.9	412.2	428.3	445.2	460.5
155°	340.9	345.6	353.4	361.2	372.2	385.5	398.0	410.5	423.8	437.9	451.2
157.5°	351.1	354.8	361.5	368.4	376.7	388.1	398.8	408.5	419.1	431.0	441.8
160°	357.3	360.5	365.9	372.2	379.2	389.4	398.8	406.6	416.0	425.4	435.5
162.5°	363.0	366.1	370.9	375.9	381.7	390.6	398.1	404.7	412.2	420.3	428.6
165°	370.6	373.0	376.9	380.0	384.7	390.9	397.2	401.9	406.6	412.8	419.1
167.5°	377.0	378.4	380.6	382.8	385.8	390.9	395.3	397.5	401.1	405.5	410.0
170°	380.8	381.6	383.1	384.7	387.0	390.9	394.1	395.6	398.0	401.1	405.0
172.5°	382.7	383.4	385.0	385.9	387.0	390.3	392.8	393.1	394.2	396.7	399.4
175°	385.5	386.3	387.0	387.0	387.0	389.4	390.9	390.2	390.2	390.9	393.3
177.5°	387.2	387.2	387.8	387.2	387.2	388.4	389.1	387.8	387.8	388.4	389.1
180°	387.8	387.8	387.8	387.8	387.8	387.8	387.8	387.8	387.8	387.8	387.8



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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°	20.2	18.2	18.6	18.0	18.0	17.6	16.6
90°	14.9	15.6	17.2	17.2	17.2	18.0	18.0
92.5°	100.6	75.7	64.1	54.1	52.2	51.1	49.9
95°	443.3	347.2	281.5	226.0	202.5	196.3	183.7
97.5°	753.9	660.2	568.9	520.6	476.8	454.1	444.1
100°	923.4	842.9	761.6	707.6	651.3	622.4	609.9
102.5°	1027.3	988.6	933.6	875.9	835.8	804.4	795.0
105°	1086.1	1120.5	1111.9	1086.8	1061.0	1045.4	1036.0
107.5°	1033.7	1122.0	1162.8	1175.5	1175.3	1170.2	1163.9
110°	974.2	1084.5	1150.9	1186.1	1201.0	1206.5	1206.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	915.4	1026.9	1105.3	1156.7	1182.2	1195.8	1201.5
115°	831.2	938.3	1023.5	1084.5	1122.0	1143.9	1154.1
117.5°	772.8	865.1	943.3	1004.3	1043.0	1064.8	1071.0
120°	739.7	825.7	894.5	952.3	989.9	1011.0	1017.2
122.5°	715.9	792.5	857.0	908.6	943.0	964.1	969.7
125°	684.2	752.2	808.5	852.3	884.3	901.5	909.3
127.5°	653.8	717.3	770.0	809.7	838.0	854.3	857.7
130°	632.6	693.5	744.4	783.5	809.3	824.9	829.6
132.5°	612.5	667.9	716.8	755.9	781.7	796.1	801.4
135°	581.7	631.8	676.3	710.7	736.5	750.6	755.3
137.5°	554.2	595.8	633.6	664.5	687.9	700.9	706.1
140°	537.9	573.9	606.7	635.7	656.0	667.7	671.6
142.5°	524.2	555.1	583.6	608.2	625.4	636.5	639.7
145°	506.7	530.9	552.0	570.8	584.1	592.7	595.8
147.5°	492.1	510.7	526.7	541.5	552.2	557.2	558.6
150°	484.0	498.8	512.9	524.7	534.0	537.2	537.9
152.5°	475.9	489.5	500.4	510.3	517.8	520.9	521.7
155°	463.7	474.6	483.2	491.0	496.5	498.8	499.6
157.5°	452.1	460.5	467.3	473.4	477.9	480.1	479.9
160°	443.3	451.2	456.6	462.1	466.0	467.6	466.8
162.5°	435.8	442.4	447.2	451.5	454.7	455.1	454.9
165°	424.6	429.3	433.2	436.3	437.9	437.9	437.9
167.5°	413.6	417.2	420.0	421.6	423.0	422.4	422.2
170°	407.4	409.7	411.3	412.8	413.6	413.6	412.8
172.5°	401.7	403.5	404.4	404.7	406.1	404.9	404.1
175°	393.3	394.9	394.9	394.9	395.6	394.1	393.3
177.5°	389.7	389.7	389.7	389.1	389.7	387.8	387.8
180°	387.8	387.8	387.8	387.8	387.8	387.8	387.8

(END OF REPORT)