

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: P333448

Luminaire Tested: **S125DIW-S1090D1340U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333448
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-7,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DIW-S1090D1340U835-4F0-1E-UDD-A
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1090 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1340 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9854.4 lumens
Efficiency: N/A
Efficacy: 141.2 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: General Diffuse

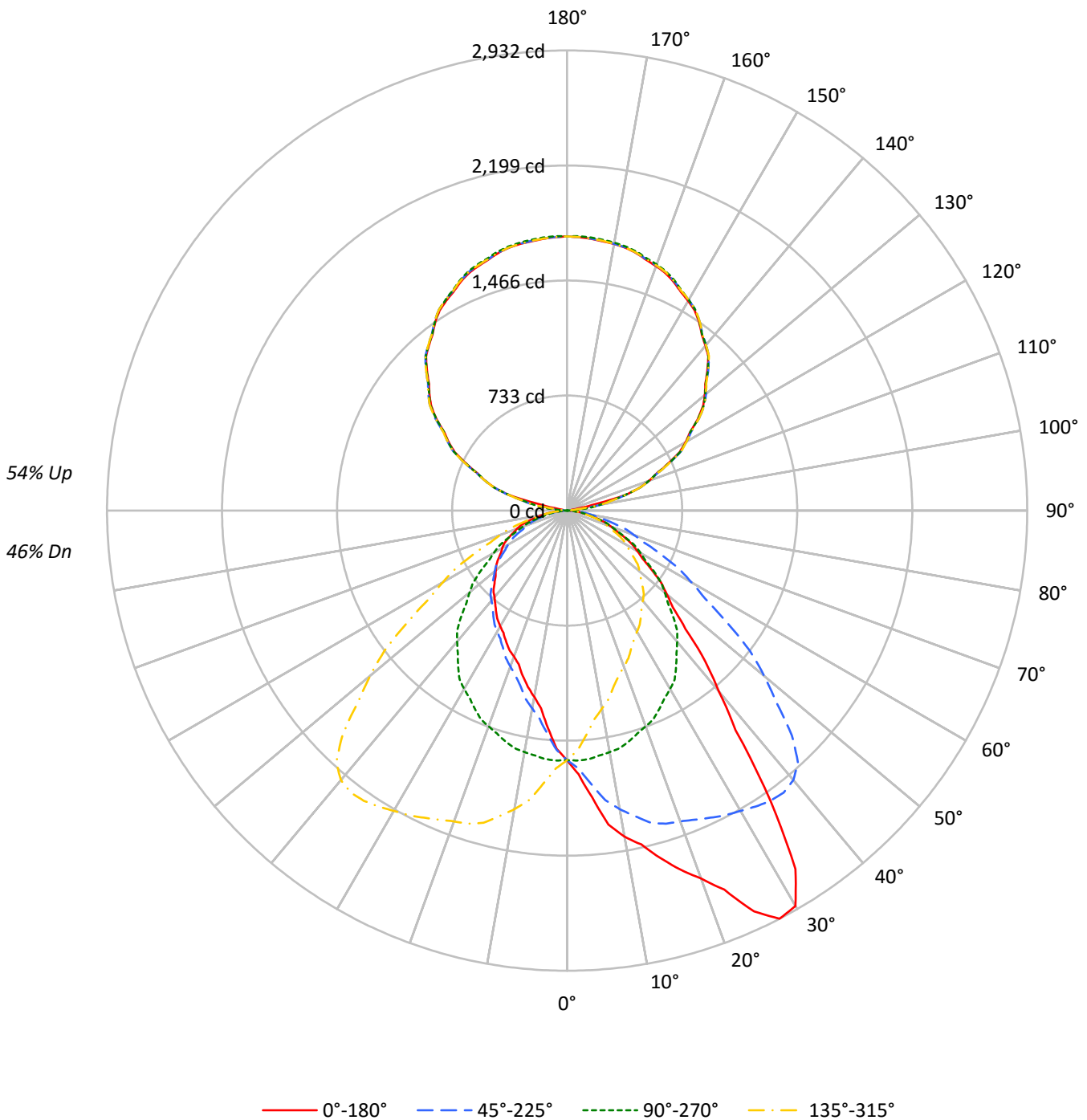
Input Watts (W): 69.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10	0		
RCR																										
0	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	46					46			
1	97	93	89	86	89	85	82	79	71	69	67	58	57	55	46	45	44					39				
2	88	81	75	70	81	75	70	65	63	59	56	51	49	46	41	39	38					33				
3	81	72	64	59	74	66	60	55	55	51	47	46	42	39	36	34	32					28				
4	74	63	56	50	68	58	52	46	49	44	40	41	37	34	33	30	28					24				
5	68	56	48	43	62	52	45	40	44	39	35	37	33	29	29	27	24					21				
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	21					18				
7	58	46	38	32	53	42	35	30	36	31	27	30	26	23	24	21	19					16				
8	54	41	34	29	49	38	32	27	33	27	24	27	23	20	22	19	17					15				
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15					13				
10	47	35	27	23	43	32	26	21	28	22	19	23	19	16	19	16	14					12				

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	1.6
10°-20°	455.8	4.6
20°-30°	740.1	7.5
30°-40°	902.8	9.2
40°-50°	821.3	8.3
50°-60°	654.2	6.6
60°-70°	455.6	4.6
70°-80°	243.0	2.5
80°-90°	65.0	0.7
90°-100°	63.5	0.6
100°-110°	391.2	4.0
110°-120°	709.5	7.2
120°-130°	910.5	9.2
130°-140°	979.3	9.9
140°-150°	919.2	9.3
150°-160°	743.6	7.5
160°-170°	480.9	4.9
170°-180°	165.9	1.7
0°-30°	1349.0	13.7
0°-40°	2251.8	22.9
0°-60°	3727.3	37.8
0°-90°	4490.8	45.6
90°-120°	1164.1	11.8
90°-150°	3973.2	40.3
90°-180°	5364.0	54.4
0°-180°	9854.4	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°	31	1	31	1	31	15
95°	27	74	27	74	27	22
105°	384	381	384	381	384	348
115°	710	715	710	715	710	704
125°	1016	1016	1016	1016	1016	904
135°	1262	1268	1262	1268	1262	974
145°	1466	1470	1466	1470	1466	916
155°	1607	1618	1607	1618	1607	741
165°	1699	1708	1699	1708	1699	479
175°	1739	1747	1739	1747	1739	165
180°	1747	1747	1747	1747	1747	



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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°	19.2	20.1	20.4	20.3	20.6	20.4	22.3	22.0	23.3	24.7	26.4
90°	31.1	30.2	29.3	28.5	27.6	26.5	25.0	23.6	22.2	20.7	18.7
92.5°	29.0	28.6	28.2	27.8	27.4	26.5	25.0	23.6	22.2	20.7	18.9
95°	27.2	27.2	27.2	27.2	27.2	26.5	25.0	23.6	22.2	20.7	31.6
97.5°	27.2	27.2	27.2	27.2	27.2	31.2	39.4	47.5	55.6	63.7	85.3
100°	27.2	28.3	29.5	30.6	31.8	53.8	96.7	139.5	182.4	225.3	224.1
102.5°	162.9	182.4	202.0	221.6	241.1	255.0	263.1	271.2	279.3	287.4	286.7
105°	384.5	384.8	385.1	385.4	385.7	385.8	385.8	385.8	385.8	385.8	385.8
107.5°	484.8	485.6	486.5	487.3	488.2	488.6	488.6	488.5	488.4	488.4	487.8
110°	554.2	553.9	553.6	553.3	553.0	553.3	554.2	555.0	555.9	556.7	556.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	616.3	616.7	617.1	617.5	617.9	618.7	619.8	620.8	621.9	623.0	622.7
115°	709.5	711.2	713.0	714.7	716.4	717.9	719.0	720.2	721.3	722.5	722.2
117.5°	809.0	809.7	810.5	811.2	811.9	813.1	814.6	816.1	817.6	819.1	818.0
120°	870.1	871.5	872.9	874.4	875.8	876.8	877.4	878.0	878.6	879.1	878.3
122.5°	928.1	929.7	931.4	933.1	934.7	935.9	936.4	937.0	937.6	938.2	937.8
125°	1016.4	1017.2	1018.1	1019.0	1019.8	1020.8	1022.0	1023.1	1024.3	1025.4	1025.4
127.5°	1090.7	1092.8	1095.0	1097.1	1099.2	1100.6	1101.2	1101.9	1102.5	1103.1	1103.3
130°	1144.6	1146.0	1147.4	1148.9	1150.3	1151.5	1152.3	1153.2	1154.1	1154.9	1154.6
132.5°	1194.3	1195.7	1197.2	1198.6	1200.0	1200.8	1201.0	1201.2	1201.4	1201.5	1202.2
135°	1262.4	1264.1	1265.8	1267.6	1269.3	1270.4	1271.0	1271.6	1272.2	1272.7	1273.3
137.5°	1330.7	1332.2	1333.7	1335.2	1336.7	1337.4	1337.3	1337.2	1337.1	1337.0	1337.5
140°	1371.1	1372.9	1374.6	1376.3	1378.0	1378.6	1378.0	1377.5	1376.9	1376.3	1376.6
142.5°	1409.5	1411.2	1412.9	1414.6	1416.4	1417.2	1417.1	1416.9	1416.8	1416.7	1416.3
145°	1465.7	1467.4	1469.1	1470.8	1472.6	1473.3	1473.0	1472.7	1472.4	1472.1	1472.1
147.5°	1512.0	1514.1	1516.1	1518.2	1520.3	1521.2	1520.8	1520.5	1520.1	1519.8	1519.4
150°	1542.0	1544.3	1546.6	1548.9	1551.2	1552.1	1551.5	1551.0	1550.4	1549.8	1549.2
152.5°	1570.0	1572.1	1574.2	1576.2	1578.3	1579.0	1578.5	1577.9	1577.3	1576.7	1576.2
155°	1606.8	1609.1	1611.4	1613.7	1616.0	1616.7	1615.8	1615.0	1614.1	1613.3	1612.7
157.5°	1637.6	1639.9	1642.2	1644.5	1646.8	1647.5	1646.6	1645.7	1644.7	1643.8	1643.8
160°	1657.3	1659.6	1661.9	1664.2	1666.5	1667.1	1665.9	1664.8	1663.6	1662.5	1662.2
162.5°	1674.9	1677.4	1679.9	1682.5	1685.0	1685.5	1683.9	1682.2	1680.6	1679.0	1678.7
165°	1698.7	1701.0	1703.3	1705.6	1707.9	1708.2	1706.5	1704.7	1703.0	1701.3	1701.0
167.5°	1715.3	1717.9	1720.5	1723.0	1725.6	1725.9	1723.8	1721.8	1719.7	1717.6	1717.3
170°	1724.6	1727.2	1729.8	1732.4	1735.0	1735.1	1732.8	1730.5	1728.2	1725.9	1725.6
172.5°	1730.8	1733.4	1736.0	1738.6	1741.2	1741.4	1739.4	1737.3	1735.2	1733.1	1732.6
175°	1738.8	1741.4	1744.0	1746.6	1749.2	1749.3	1747.0	1744.7	1742.4	1740.1	1739.9
177.5°	1743.5	1745.3	1747.2	1749.0	1750.9	1751.0	1749.4	1747.8	1746.2	1744.5	1744.3
180°	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6



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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°	27.1	25.6	23.1	21.0	17.8	15.8	14.8	14.8	13.7	13.6	14.6
90°	16.7	14.7	12.7	10.5	8.2	5.9	3.6	1.3	3.6	5.9	8.2
92.5°	17.1	15.4	13.6	13.5	15.1	16.7	18.3	19.9	18.3	16.7	15.1
95°	42.6	53.5	64.4	70.3	71.2	72.1	72.9	73.8	72.9	72.1	71.2
97.5°	107.0	128.6	150.2	160.3	158.7	157.2	155.6	154.1	155.6	157.2	158.7
100°	223.0	221.8	220.7	219.7	218.8	217.9	217.1	216.2	217.1	217.9	218.8
102.5°	286.1	285.4	284.7	283.8	282.7	281.6	280.5	279.4	280.5	281.6	282.7
105°	385.8	385.8	385.8	385.3	384.1	383.0	381.8	380.7	381.8	383.0	384.1
107.5°	487.2	486.7	486.1	485.8	485.8	485.8	485.8	485.8	485.8	485.8	485.8
110°	555.6	555.0	554.4	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2



TEST NUMBER: P333448

CATALOG NUMBER: S125DIW-S1090D1340U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	622.3	622.0	621.7	621.1	620.4	619.8	619.1	618.4	619.1	619.8	620.4
115°	721.9	721.6	721.3	720.5	719.0	717.6	716.1	714.7	716.1	717.6	719.0
117.5°	816.9	815.8	814.7	814.2	814.2	814.3	814.3	814.4	814.3	814.3	814.2
120°	877.4	876.5	875.7	875.4	875.7	876.0	876.3	876.5	876.3	876.0	875.7
122.5°	937.4	937.0	936.6	935.8	934.7	933.6	932.5	931.4	932.5	933.6	934.7
125°	1025.4	1025.4	1025.4	1024.4	1022.4	1020.4	1018.4	1016.4	1018.4	1020.4	1022.4
127.5°	1103.5	1103.6	1103.8	1103.2	1101.7	1100.3	1098.9	1097.4	1098.9	1100.3	1101.7
130°	1154.3	1154.1	1153.8	1152.9	1151.5	1150.0	1148.6	1147.1	1148.6	1150.0	1151.5
132.5°	1202.8	1203.4	1204.1	1203.5	1201.9	1200.2	1198.5	1196.9	1198.5	1200.2	1201.9
135°	1273.9	1274.5	1275.0	1274.5	1272.7	1271.0	1269.3	1267.6	1269.3	1271.0	1272.7
137.5°	1338.0	1338.5	1339.0	1338.5	1337.0	1335.5	1334.0	1332.6	1334.0	1335.5	1337.0
140°	1376.9	1377.2	1377.5	1377.3	1376.7	1376.2	1375.6	1375.0	1375.6	1376.2	1376.7
142.5°	1415.9	1415.5	1415.1	1414.7	1414.4	1414.0	1413.7	1413.3	1413.7	1414.0	1414.4
145°	1472.1	1472.1	1472.1	1471.8	1471.3	1470.7	1470.1	1469.5	1470.1	1470.7	1471.3
147.5°	1519.1	1518.7	1518.4	1518.3	1518.4	1518.5	1518.6	1518.7	1518.6	1518.5	1518.4
150°	1548.7	1548.1	1547.5	1547.5	1548.1	1548.7	1549.2	1549.8	1549.2	1548.7	1548.1
152.5°	1575.6	1575.0	1574.4	1574.8	1576.1	1577.3	1578.6	1579.8	1578.6	1577.3	1576.1
155°	1612.1	1611.5	1611.0	1611.5	1613.3	1615.0	1616.7	1618.4	1616.7	1615.0	1613.3
157.5°	1643.7	1643.6	1643.6	1644.1	1645.1	1646.1	1647.2	1648.2	1647.2	1646.1	1645.1
160°	1661.9	1661.6	1661.3	1662.0	1663.7	1665.5	1667.2	1668.9	1667.2	1665.5	1663.7
162.5°	1678.5	1678.2	1677.9	1678.6	1680.3	1682.0	1683.8	1685.5	1683.8	1682.0	1680.3
165°	1700.7	1700.4	1700.1	1700.9	1702.6	1704.3	1706.0	1707.8	1706.0	1704.3	1702.6
167.5°	1717.0	1716.7	1716.5	1717.2	1719.0	1720.8	1722.6	1724.3	1722.6	1720.8	1719.0
170°	1725.3	1725.0	1724.7	1725.6	1727.6	1729.6	1731.7	1733.7	1731.7	1729.6	1727.6
172.5°	1732.1	1731.6	1731.1	1731.8	1733.8	1735.9	1737.9	1739.9	1737.9	1735.9	1733.8
175°	1739.6	1739.3	1739.0	1739.7	1741.4	1743.2	1744.9	1746.6	1744.9	1743.2	1741.4
177.5°	1744.1	1743.9	1743.6	1744.2	1745.6	1747.0	1748.3	1749.7	1748.3	1747.0	1745.6
180°	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6



TEST NUMBER: P333448

CATALOG NUMBER: S125DIW-S1090D1340U835-4F0-1E-UDD-A

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°	15.6	17.1	17.0	17.9	18.3	19.8	19.5	22.0	23.4	24.7	24.4
90°	10.5	12.7	14.7	16.7	18.7	20.7	22.2	23.6	25.0	26.5	27.6
92.5°	13.5	13.6	15.4	17.1	18.9	20.7	22.2	23.6	25.0	26.5	27.4
95°	70.3	64.4	53.5	42.6	31.6	20.7	22.2	23.6	25.0	26.5	27.2
97.5°	160.3	150.2	128.6	107.0	85.3	63.7	55.6	47.5	39.4	31.2	27.2
100°	219.7	220.7	221.8	223.0	224.1	225.3	182.4	139.5	96.7	53.8	31.8
102.5°	283.8	284.7	285.4	286.1	286.7	287.4	279.3	271.2	263.1	255.0	241.1
105°	385.3	385.8	385.8	385.8	385.8	385.8	385.8	385.8	385.8	385.8	385.7
107.5°	485.8	486.1	486.7	487.2	487.8	488.4	488.4	488.5	488.6	488.6	488.2
110°	554.2	554.4	555.0	555.6	556.2	556.7	555.9	555.0	554.2	553.3	553.0



TEST NUMBER: P333448

CATALOG NUMBER: S125DIW-S1090D1340U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	621.1	621.7	622.0	622.3	622.7	623.0	621.9	620.8	619.8	618.7	617.9
115°	720.5	721.3	721.6	721.9	722.2	722.5	721.3	720.2	719.0	717.9	716.4
117.5°	814.2	814.7	815.8	816.9	818.0	819.1	817.6	816.1	814.6	813.1	811.9
120°	875.4	875.7	876.5	877.4	878.3	879.1	878.6	878.0	877.4	876.8	875.8
122.5°	935.8	936.6	937.0	937.4	937.8	938.2	937.6	937.0	936.4	935.9	934.7
125°	1024.4	1025.4	1025.4	1025.4	1025.4	1025.4	1024.3	1023.1	1022.0	1020.8	1019.8
127.5°	1103.2	1103.8	1103.6	1103.5	1103.3	1103.1	1102.5	1101.9	1101.2	1100.6	1099.2
130°	1152.9	1153.8	1154.1	1154.3	1154.6	1154.9	1154.1	1153.2	1152.3	1151.5	1150.3
132.5°	1203.5	1204.1	1203.4	1202.8	1202.2	1201.5	1201.4	1201.2	1201.0	1200.8	1200.0
135°	1274.5	1275.0	1274.5	1273.9	1273.3	1272.7	1272.2	1271.6	1271.0	1270.4	1269.3
137.5°	1338.5	1339.0	1338.5	1338.0	1337.5	1337.0	1337.1	1337.2	1337.3	1337.4	1336.7
140°	1377.3	1377.5	1377.2	1376.9	1376.6	1376.3	1376.9	1377.5	1378.0	1378.6	1378.0
142.5°	1414.7	1415.1	1415.5	1415.9	1416.3	1416.7	1416.8	1416.9	1417.1	1417.2	1416.4
145°	1471.8	1472.1	1472.1	1472.1	1472.1	1472.1	1472.4	1472.7	1473.0	1473.3	1472.6
147.5°	1518.3	1518.4	1518.7	1519.1	1519.4	1519.8	1520.1	1520.5	1520.8	1521.2	1520.3
150°	1547.5	1547.5	1548.1	1548.7	1549.2	1549.8	1550.4	1551.0	1551.5	1552.1	1551.2
152.5°	1574.8	1574.4	1575.0	1575.6	1576.2	1576.7	1577.3	1577.9	1578.5	1579.0	1578.3
155°	1611.5	1611.0	1611.5	1612.1	1612.7	1613.3	1614.1	1615.0	1615.8	1616.7	1616.0
157.5°	1644.1	1643.6	1643.6	1643.7	1643.8	1643.8	1644.7	1645.7	1646.6	1647.5	1646.8
160°	1662.0	1661.3	1661.6	1661.9	1662.2	1662.5	1663.6	1664.8	1665.9	1667.1	1666.5
162.5°	1678.6	1677.9	1678.2	1678.5	1678.7	1679.0	1680.6	1682.2	1683.9	1685.5	1685.0
165°	1700.9	1700.1	1700.4	1700.7	1701.0	1701.3	1703.0	1704.7	1706.5	1708.2	1707.9
167.5°	1717.2	1716.5	1716.7	1717.0	1717.3	1717.6	1719.7	1721.8	1723.8	1725.9	1725.6
170°	1725.6	1724.7	1725.0	1725.3	1725.6	1725.9	1728.2	1730.5	1732.8	1735.1	1735.0
172.5°	1731.8	1731.1	1731.6	1732.1	1732.6	1733.1	1735.2	1737.3	1739.4	1741.4	1741.2
175°	1739.7	1739.0	1739.3	1739.6	1739.9	1740.1	1742.4	1744.7	1747.0	1749.3	1749.2
177.5°	1744.2	1743.6	1743.9	1744.1	1744.3	1744.5	1746.2	1747.8	1749.4	1751.0	1750.9
180°	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6



TEST NUMBER: P333448

CATALOG NUMBER: S125DIW-S1090D1340U835-4F0-1E-UDD-A

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°	25.7	25.3	25.5	26.7	25.5	25.3	25.7	24.4	24.7	23.4	22.0
90°	28.5	29.3	30.2	31.1	30.2	29.3	28.5	27.6	26.5	25.0	23.6
92.5°	27.8	28.2	28.6	29.0	28.6	28.2	27.8	27.4	26.5	25.0	23.6
95°	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	26.5	25.0	23.6
97.5°	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	31.2	39.4	47.5
100°	30.6	29.5	28.3	27.2	28.3	29.5	30.6	31.8	53.8	96.7	139.5
102.5°	221.6	202.0	182.4	162.9	182.4	202.0	221.6	241.1	255.0	263.1	271.2
105°	385.4	385.1	384.8	384.5	384.8	385.1	385.4	385.7	385.8	385.8	385.8
107.5°	487.3	486.5	485.6	484.8	485.6	486.5	487.3	488.2	488.6	488.6	488.5
110°	553.3	553.6	553.9	554.2	553.9	553.6	553.3	553.0	553.3	554.2	555.0



TEST NUMBER: P333448

CATALOG NUMBER: S125DIW-S1090D1340U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	617.5	617.1	616.7	616.3	616.7	617.1	617.5	617.9	618.7	619.8	620.8
115°	714.7	713.0	711.2	709.5	711.2	713.0	714.7	716.4	717.9	719.0	720.2
117.5°	811.2	810.5	809.7	809.0	809.7	810.5	811.2	811.9	813.1	814.6	816.1
120°	874.4	872.9	871.5	870.1	871.5	872.9	874.4	875.8	876.8	877.4	878.0
122.5°	933.1	931.4	929.7	928.1	929.7	931.4	933.1	934.7	935.9	936.4	937.0
125°	1019.0	1018.1	1017.2	1016.4	1017.2	1018.1	1019.0	1019.8	1020.8	1022.0	1023.1
127.5°	1097.1	1095.0	1092.8	1090.7	1092.8	1095.0	1097.1	1099.2	1100.6	1101.2	1101.9
130°	1148.9	1147.4	1146.0	1144.6	1146.0	1147.4	1148.9	1150.3	1151.5	1152.3	1153.2
132.5°	1198.6	1197.2	1195.7	1194.3	1195.7	1197.2	1198.6	1200.0	1200.8	1201.0	1201.2
135°	1267.6	1265.8	1264.1	1262.4	1264.1	1265.8	1267.6	1269.3	1270.4	1271.0	1271.6
137.5°	1335.2	1333.7	1332.2	1330.7	1332.2	1333.7	1335.2	1336.7	1337.4	1337.3	1337.2
140°	1376.3	1374.6	1372.9	1371.1	1372.9	1374.6	1376.3	1378.0	1378.6	1378.0	1377.5
142.5°	1414.6	1412.9	1411.2	1409.5	1411.2	1412.9	1414.6	1416.4	1417.2	1417.1	1416.9
145°	1470.8	1469.1	1467.4	1465.7	1467.4	1469.1	1470.8	1472.6	1473.3	1473.0	1472.7
147.5°	1518.2	1516.1	1514.1	1512.0	1514.1	1516.1	1518.2	1520.3	1521.2	1520.8	1520.5
150°	1548.9	1546.6	1544.3	1542.0	1544.3	1546.6	1548.9	1551.2	1552.1	1551.5	1551.0
152.5°	1576.2	1574.2	1572.1	1570.0	1572.1	1574.2	1576.2	1578.3	1579.0	1578.5	1577.9
155°	1613.7	1611.4	1609.1	1606.8	1609.1	1611.4	1613.7	1616.0	1616.7	1615.8	1615.0
157.5°	1644.5	1642.2	1639.9	1637.6	1639.9	1642.2	1644.5	1646.8	1647.5	1646.6	1645.7
160°	1664.2	1661.9	1659.6	1657.3	1659.6	1661.9	1664.2	1666.5	1667.1	1665.9	1664.8
162.5°	1682.5	1679.9	1677.4	1674.9	1677.4	1679.9	1682.5	1685.0	1685.5	1683.9	1682.2
165°	1705.6	1703.3	1701.0	1698.7	1701.0	1703.3	1705.6	1707.9	1708.2	1706.5	1704.7
167.5°	1723.0	1720.5	1717.9	1715.3	1717.9	1720.5	1723.0	1725.6	1725.9	1723.8	1721.8
170°	1732.4	1729.8	1727.2	1724.6	1727.2	1729.8	1732.4	1735.0	1735.1	1732.8	1730.5
172.5°	1738.6	1736.0	1733.4	1730.8	1733.4	1736.0	1738.6	1741.2	1741.4	1739.4	1737.3
175°	1746.6	1744.0	1741.4	1738.8	1741.4	1744.0	1746.6	1749.2	1749.3	1747.0	1744.7
177.5°	1749.0	1747.2	1745.3	1743.5	1745.3	1747.2	1749.0	1750.9	1751.0	1749.4	1747.8
180°	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6



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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°	19.5	19.8	18.3	17.9	17.0	17.1	15.6	14.6	13.6	13.7	14.8
90°	22.2	20.7	18.7	16.7	14.7	12.7	10.5	8.2	5.9	3.6	1.3
92.5°	22.2	20.7	18.9	17.1	15.4	13.6	13.5	15.1	16.7	18.3	19.9
95°	22.2	20.7	31.6	42.6	53.5	64.4	70.3	71.2	72.1	72.9	73.8
97.5°	55.6	63.7	85.3	107.0	128.6	150.2	160.3	158.7	157.2	155.6	154.1
100°	182.4	225.3	224.1	223.0	221.8	220.7	219.7	218.8	217.9	217.1	216.2
102.5°	279.3	287.4	286.7	286.1	285.4	284.7	283.8	282.7	281.6	280.5	279.4
105°	385.8	385.8	385.8	385.8	385.8	385.8	385.3	384.1	383.0	381.8	380.7
107.5°	488.4	488.4	487.8	487.2	486.7	486.1	485.8	485.8	485.8	485.8	485.8
110°	555.9	556.7	556.2	555.6	555.0	554.4	554.2	554.2	554.2	554.2	554.2



TEST NUMBER: P333448

CATALOG NUMBER: S125DIW-S1090D1340U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	621.9	623.0	622.7	622.3	622.0	621.7	621.1	620.4	619.8	619.1	618.4
115°	721.3	722.5	722.2	721.9	721.6	721.3	720.5	719.0	717.6	716.1	714.7
117.5°	817.6	819.1	818.0	816.9	815.8	814.7	814.2	814.2	814.3	814.3	814.4
120°	878.6	879.1	878.3	877.4	876.5	875.7	875.4	875.7	876.0	876.3	876.5
122.5°	937.6	938.2	937.8	937.4	937.0	936.6	935.8	934.7	933.6	932.5	931.4
125°	1024.3	1025.4	1025.4	1025.4	1025.4	1025.4	1024.4	1022.4	1020.4	1018.4	1016.4
127.5°	1102.5	1103.1	1103.3	1103.5	1103.6	1103.8	1103.2	1101.7	1100.3	1098.9	1097.4
130°	1154.1	1154.9	1154.6	1154.3	1154.1	1153.8	1152.9	1151.5	1150.0	1148.6	1147.1
132.5°	1201.4	1201.5	1202.2	1202.8	1203.4	1204.1	1203.5	1201.9	1200.2	1198.5	1196.9
135°	1272.2	1272.7	1273.3	1273.9	1274.5	1275.0	1274.5	1272.7	1271.0	1269.3	1267.6
137.5°	1337.1	1337.0	1337.5	1338.0	1338.5	1339.0	1338.5	1337.0	1335.5	1334.0	1332.6
140°	1376.9	1376.3	1376.6	1376.9	1377.2	1377.5	1377.3	1376.7	1376.2	1375.6	1375.0
142.5°	1416.8	1416.7	1416.3	1415.9	1415.5	1415.1	1414.7	1414.4	1414.0	1413.7	1413.3
145°	1472.4	1472.1	1472.1	1472.1	1472.1	1472.1	1471.8	1471.3	1470.7	1470.1	1469.5
147.5°	1520.1	1519.8	1519.4	1519.1	1518.7	1518.4	1518.3	1518.4	1518.5	1518.6	1518.7
150°	1550.4	1549.8	1549.2	1548.7	1548.1	1547.5	1547.5	1548.1	1548.7	1549.2	1549.8
152.5°	1577.3	1576.7	1576.2	1575.6	1575.0	1574.4	1574.8	1576.1	1577.3	1578.6	1579.8
155°	1614.1	1613.3	1612.7	1612.1	1611.5	1611.0	1611.5	1613.3	1615.0	1616.7	1618.4
157.5°	1644.7	1643.8	1643.8	1643.7	1643.6	1643.6	1644.1	1645.1	1646.1	1647.2	1648.2
160°	1663.6	1662.5	1662.2	1661.9	1661.6	1661.3	1662.0	1663.7	1665.5	1667.2	1668.9
162.5°	1680.6	1679.0	1678.7	1678.5	1678.2	1677.9	1678.6	1680.3	1682.0	1683.8	1685.5
165°	1703.0	1701.3	1701.0	1700.7	1700.4	1700.1	1700.9	1702.6	1704.3	1706.0	1707.8
167.5°	1719.7	1717.6	1717.3	1717.0	1716.7	1716.5	1717.2	1719.0	1720.8	1722.6	1724.3
170°	1728.2	1725.9	1725.6	1725.3	1725.0	1724.7	1725.6	1727.6	1729.6	1731.7	1733.7
172.5°	1735.2	1733.1	1732.6	1732.1	1731.6	1731.1	1731.8	1733.8	1735.9	1737.9	1739.9
175°	1742.4	1740.1	1739.9	1739.6	1739.3	1739.0	1739.7	1741.4	1743.2	1744.9	1746.6
177.5°	1746.2	1744.5	1744.3	1744.1	1743.9	1743.6	1744.2	1745.6	1747.0	1748.3	1749.7
180°	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6



TEST NUMBER: P333448

CATALOG NUMBER: S125DIW-S1090D1340U835-4F0-1E-UDD-A

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°	14.8	15.8	17.8	21.0	23.1	25.6	27.1	26.4	24.7	23.3	22.0
90°	3.6	5.9	8.2	10.5	12.7	14.7	16.7	18.7	20.7	22.2	23.6
92.5°	18.3	16.7	15.1	13.5	13.6	15.4	17.1	18.9	20.7	22.2	23.6
95°	72.9	72.1	71.2	70.3	64.4	53.5	42.6	31.6	20.7	22.2	23.6
97.5°	155.6	157.2	158.7	160.3	150.2	128.6	107.0	85.3	63.7	55.6	47.5
100°	217.1	217.9	218.8	219.7	220.7	221.8	223.0	224.1	225.3	182.4	139.5
102.5°	280.5	281.6	282.7	283.8	284.7	285.4	286.1	286.7	287.4	279.3	271.2
105°	381.8	383.0	384.1	385.3	385.8	385.8	385.8	385.8	385.8	385.8	385.8
107.5°	485.8	485.8	485.8	485.8	486.1	486.7	487.2	487.8	488.4	488.4	488.5
110°	554.2	554.2	554.2	554.2	554.4	555.0	555.6	556.2	556.7	555.9	555.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	619.1	619.8	620.4	621.1	621.7	622.0	622.3	622.7	623.0	621.9	620.8
115°	716.1	717.6	719.0	720.5	721.3	721.6	721.9	722.2	722.5	721.3	720.2
117.5°	814.3	814.3	814.2	814.2	814.7	815.8	816.9	818.0	819.1	817.6	816.1
120°	876.3	876.0	875.7	875.4	875.7	876.5	877.4	878.3	879.1	878.6	878.0
122.5°	932.5	933.6	934.7	935.8	936.6	937.0	937.4	937.8	938.2	937.6	937.0
125°	1018.4	1020.4	1022.4	1024.4	1025.4	1025.4	1025.4	1025.4	1025.4	1024.3	1023.1
127.5°	1098.9	1100.3	1101.7	1103.2	1103.8	1103.6	1103.5	1103.3	1103.1	1102.5	1101.9
130°	1148.6	1150.0	1151.5	1152.9	1153.8	1154.1	1154.3	1154.6	1154.9	1154.1	1153.2
132.5°	1198.5	1200.2	1201.9	1203.5	1204.1	1203.4	1202.8	1202.2	1201.5	1201.4	1201.2
135°	1269.3	1271.0	1272.7	1274.5	1275.0	1274.5	1273.9	1273.3	1272.7	1272.2	1271.6
137.5°	1334.0	1335.5	1337.0	1338.5	1339.0	1338.5	1338.0	1337.5	1337.0	1337.1	1337.2
140°	1375.6	1376.2	1376.7	1377.3	1377.5	1377.2	1376.9	1376.6	1376.3	1376.9	1377.5
142.5°	1413.7	1414.0	1414.4	1414.7	1415.1	1415.5	1415.9	1416.3	1416.7	1416.8	1416.9
145°	1470.1	1470.7	1471.3	1471.8	1472.1	1472.1	1472.1	1472.1	1472.1	1472.4	1472.7
147.5°	1518.6	1518.5	1518.4	1518.3	1518.4	1518.7	1519.1	1519.4	1519.8	1520.1	1520.5
150°	1549.2	1548.7	1548.1	1547.5	1547.5	1548.1	1548.7	1549.2	1549.8	1550.4	1551.0
152.5°	1578.6	1577.3	1576.1	1574.8	1574.4	1575.0	1575.6	1576.2	1576.7	1577.3	1577.9
155°	1616.7	1615.0	1613.3	1611.5	1611.0	1611.5	1612.1	1612.7	1613.3	1614.1	1615.0
157.5°	1647.2	1646.1	1645.1	1644.1	1643.6	1643.6	1643.7	1643.8	1643.8	1644.7	1645.7
160°	1667.2	1665.5	1663.7	1662.0	1661.3	1661.6	1661.9	1662.2	1662.5	1663.6	1664.8
162.5°	1683.8	1682.0	1680.3	1678.6	1677.9	1678.2	1678.5	1678.7	1679.0	1680.6	1682.2
165°	1706.0	1704.3	1702.6	1700.9	1700.1	1700.4	1700.7	1701.0	1701.3	1703.0	1704.7
167.5°	1722.6	1720.8	1719.0	1717.2	1716.5	1716.7	1717.0	1717.3	1717.6	1719.7	1721.8
170°	1731.7	1729.6	1727.6	1725.6	1724.7	1725.0	1725.3	1725.6	1725.9	1728.2	1730.5
172.5°	1737.9	1735.9	1733.8	1731.8	1731.1	1731.6	1732.1	1732.6	1733.1	1735.2	1737.3
175°	1744.9	1743.2	1741.4	1739.7	1739.0	1739.3	1739.6	1739.9	1740.1	1742.4	1744.7
177.5°	1748.3	1747.0	1745.6	1744.2	1743.6	1743.9	1744.1	1744.3	1744.5	1746.2	1747.8
180°	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6



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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°	22.3	20.4	20.6	20.3	20.4	20.1	19.2
90°	25.0	26.5	27.6	28.5	29.3	30.2	31.1
92.5°	25.0	26.5	27.4	27.8	28.2	28.6	29.0
95°	25.0	26.5	27.2	27.2	27.2	27.2	27.2
97.5°	39.4	31.2	27.2	27.2	27.2	27.2	27.2
100°	96.7	53.8	31.8	30.6	29.5	28.3	27.2
102.5°	263.1	255.0	241.1	221.6	202.0	182.4	162.9
105°	385.8	385.8	385.7	385.4	385.1	384.8	384.5
107.5°	488.6	488.6	488.2	487.3	486.5	485.6	484.8
110°	554.2	553.3	553.0	553.3	553.6	553.9	554.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	619.8	618.7	617.9	617.5	617.1	616.7	616.3
115°	719.0	717.9	716.4	714.7	713.0	711.2	709.5
117.5°	814.6	813.1	811.9	811.2	810.5	809.7	809.0
120°	877.4	876.8	875.8	874.4	872.9	871.5	870.1
122.5°	936.4	935.9	934.7	933.1	931.4	929.7	928.1
125°	1022.0	1020.8	1019.8	1019.0	1018.1	1017.2	1016.4
127.5°	1101.2	1100.6	1099.2	1097.1	1095.0	1092.8	1090.7
130°	1152.3	1151.5	1150.3	1148.9	1147.4	1146.0	1144.6
132.5°	1201.0	1200.8	1200.0	1198.6	1197.2	1195.7	1194.3
135°	1271.0	1270.4	1269.3	1267.6	1265.8	1264.1	1262.4
137.5°	1337.3	1337.4	1336.7	1335.2	1333.7	1332.2	1330.7
140°	1378.0	1378.6	1378.0	1376.3	1374.6	1372.9	1371.1
142.5°	1417.1	1417.2	1416.4	1414.6	1412.9	1411.2	1409.5
145°	1473.0	1473.3	1472.6	1470.8	1469.1	1467.4	1465.7
147.5°	1520.8	1521.2	1520.3	1518.2	1516.1	1514.1	1512.0
150°	1551.5	1552.1	1551.2	1548.9	1546.6	1544.3	1542.0
152.5°	1578.5	1579.0	1578.3	1576.2	1574.2	1572.1	1570.0
155°	1615.8	1616.7	1616.0	1613.7	1611.4	1609.1	1606.8
157.5°	1646.6	1647.5	1646.8	1644.5	1642.2	1639.9	1637.6
160°	1665.9	1667.1	1666.5	1664.2	1661.9	1659.6	1657.3
162.5°	1683.9	1685.5	1685.0	1682.5	1679.9	1677.4	1674.9
165°	1706.5	1708.2	1707.9	1705.6	1703.3	1701.0	1698.7
167.5°	1723.8	1725.9	1725.6	1723.0	1720.5	1717.9	1715.3
170°	1732.8	1735.1	1735.0	1732.4	1729.8	1727.2	1724.6
172.5°	1739.4	1741.4	1741.2	1738.6	1736.0	1733.4	1730.8
175°	1747.0	1749.3	1749.2	1746.6	1744.0	1741.4	1738.8
177.5°	1749.4	1751.0	1750.9	1749.0	1747.2	1745.3	1743.5
180°	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6

(END OF REPORT)