

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: P333277

Luminaire Tested: **S125DIP-S1090D1035U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333277  
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: S125DIP-S1090D1035U835-4F0-1E-UDD-A  
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1090 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1035 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8626.2 lumens  
Efficiency: N/A  
Efficacy: 142.6 lumens/watt  
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.52  
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')  
CIE Type: General Diffuse

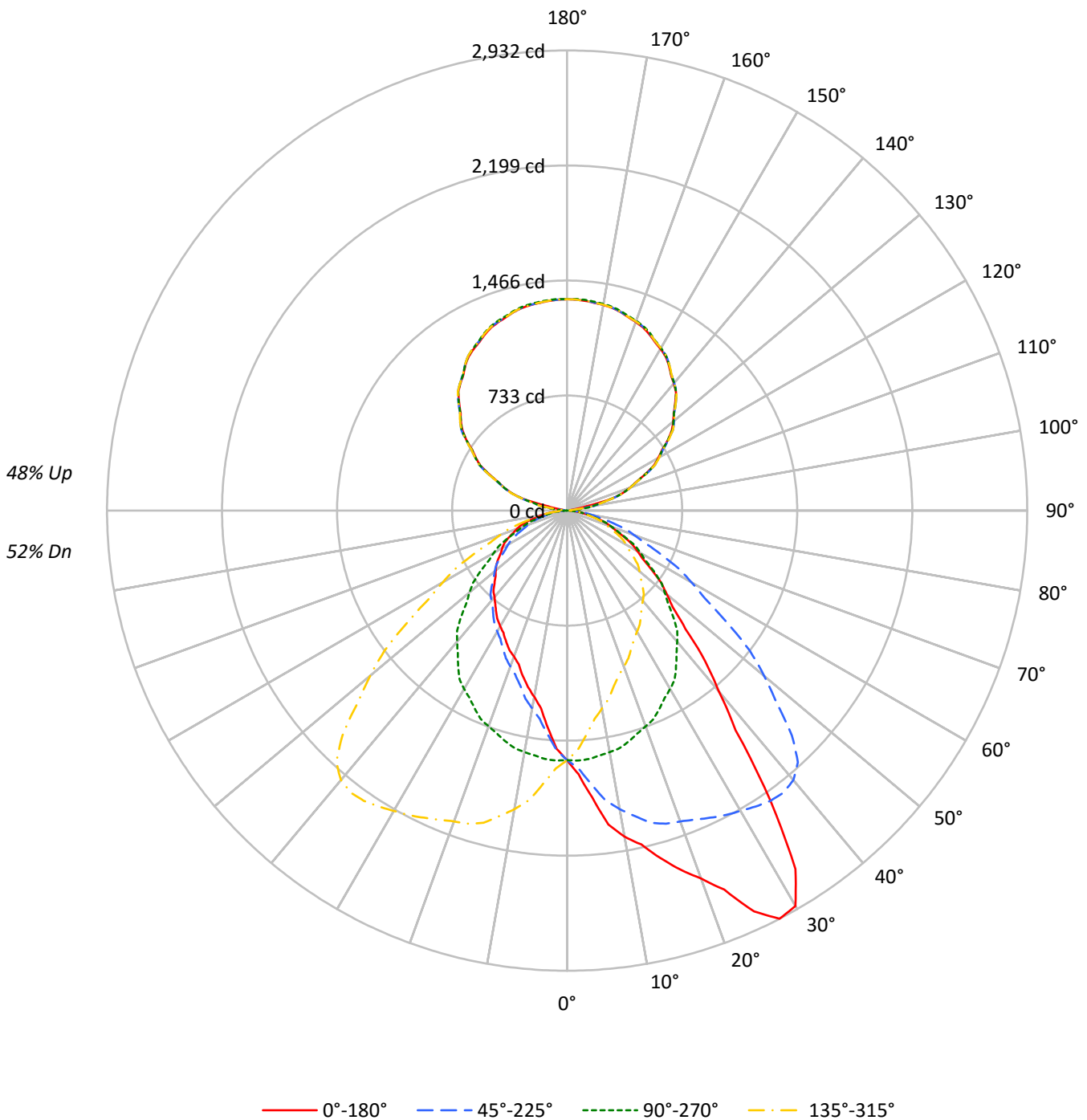
Input Watts (W): 60.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	108	108	108	100	100	100	100	84	84	84	71	71	71	58	58	58	52
1	98	94	90	87	91	87	84	81	74	72	70	63	61	59	52	51	49	44
2	90	83	76	71	83	77	71	67	65	62	58	55	52	50	46	44	42	37
3	82	73	65	60	76	68	61	56	58	53	49	49	45	42	41	38	36	32
4	75	64	57	51	69	60	53	48	52	46	42	44	40	36	36	34	31	28
5	69	57	49	43	64	54	46	41	46	41	36	39	35	32	33	30	27	24
6	64	52	44	38	59	48	41	36	42	36	32	36	31	28	30	27	24	21
7	59	47	39	33	54	44	36	31	38	32	28	32	28	25	27	24	21	19
8	55	42	35	29	50	40	33	28	34	29	25	30	25	22	25	22	19	17
9	51	39	31	26	47	36	29	25	32	26	22	27	23	20	23	20	17	15
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	16	14

**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	1.8
10°-20°	455.8	5.3
20°-30°	740.1	8.6
30°-40°	902.8	10.5
40°-50°	821.3	9.5
50°-60°	654.2	7.6
60°-70°	455.6	5.3
70°-80°	243.0	2.8
80°-90°	64.1	0.7
90°-100°	49.0	0.6
100°-110°	301.7	3.5
110°-120°	547.1	6.3
120°-130°	702.2	8.1
130°-140°	755.2	8.8
140°-150°	708.9	8.2
150°-160°	573.4	6.6
160°-170°	370.9	4.3
170°-180°	127.9	1.5
0°-30°	1349.0	15.6
0°-40°	2251.8	26.1
0°-60°	3727.3	43.2
0°-90°	4490.0	52.1
90°-120°	897.7	10.4
90°-150°	3064.0	35.5
90°-180°	4136.0	47.9
0°-180°	8626.2	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°	24	1	24	1	24	12
95°	21	57	21	57	21	17
105°	296	294	296	294	296	268
115°	547	551	547	551	547	543
125°	784	784	784	784	784	697
135°	974	978	974	978	974	751
145°	1130	1133	1130	1133	1130	706
155°	1239	1248	1239	1248	1239	571
165°	1310	1317	1310	1317	1310	370
175°	1341	1347	1341	1347	1341	128
180°	1347	1347	1347	1347	1347	



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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°	17.8	18.7	19.1	19.0	19.4	19.2	21.1	20.9	22.3	23.7	25.6
90°	24.0	23.3	22.6	22.0	21.3	20.4	19.3	18.2	17.1	16.0	14.4
92.5°	22.4	22.1	21.7	21.4	21.1	20.4	19.3	18.2	17.1	16.0	14.6
95°	21.0	21.0	21.0	21.0	21.0	20.4	19.3	18.2	17.1	16.0	24.4
97.5°	21.0	21.0	21.0	21.0	21.0	24.1	30.4	36.6	42.9	49.1	65.8
100°	21.0	21.9	22.7	23.6	24.5	41.5	74.6	107.6	140.7	173.7	172.8
102.5°	125.6	140.7	155.8	170.9	186.0	196.6	202.9	209.1	215.4	221.7	221.1
105°	296.5	296.8	297.0	297.2	297.4	297.5	297.5	297.5	297.5	297.5	297.5
107.5°	373.8	374.5	375.2	375.8	376.5	376.8	376.8	376.7	376.7	376.6	376.2
110°	427.3	427.1	426.9	426.7	426.5	426.7	427.3	428.0	428.7	429.3	428.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	475.3	475.6	475.9	476.2	476.5	477.1	477.9	478.8	479.6	480.5	480.2
115°	547.2	548.5	549.8	551.2	552.5	553.6	554.5	555.4	556.3	557.1	556.9
117.5°	623.8	624.4	625.0	625.6	626.1	627.0	628.2	629.3	630.5	631.6	630.8
120°	671.0	672.1	673.2	674.3	675.4	676.2	676.6	677.1	677.5	678.0	677.3
122.5°	715.7	717.0	718.3	719.6	720.8	721.7	722.2	722.6	723.0	723.5	723.2
125°	783.8	784.5	785.1	785.8	786.5	787.2	788.1	789.0	789.9	790.8	790.8
127.5°	841.1	842.8	844.4	846.0	847.7	848.7	849.2	849.7	850.2	850.7	850.8
130°	882.6	883.8	884.9	886.0	887.1	888.0	888.6	889.3	890.0	890.6	890.4
132.5°	921.0	922.1	923.2	924.3	925.4	926.0	926.2	926.3	926.4	926.6	927.1
135°	973.5	974.8	976.2	977.5	978.8	979.7	980.2	980.6	981.0	981.5	981.9
137.5°	1026.2	1027.4	1028.5	1029.7	1030.8	1031.4	1031.3	1031.2	1031.1	1031.0	1031.4
140°	1057.4	1058.7	1060.0	1061.4	1062.7	1063.1	1062.7	1062.3	1061.8	1061.4	1061.6
142.5°	1086.9	1088.3	1089.6	1090.9	1092.3	1092.9	1092.8	1092.7	1092.6	1092.5	1092.2
145°	1130.3	1131.6	1132.9	1134.3	1135.6	1136.1	1135.9	1135.7	1135.5	1135.3	1135.3
147.5°	1166.0	1167.6	1169.2	1170.8	1172.4	1173.1	1172.8	1172.5	1172.3	1172.0	1171.7
150°	1189.2	1190.9	1192.7	1194.5	1196.3	1196.9	1196.5	1196.1	1195.6	1195.2	1194.7
152.5°	1210.7	1212.3	1213.9	1215.5	1217.1	1217.7	1217.3	1216.8	1216.4	1215.9	1215.5
155°	1239.1	1240.9	1242.6	1244.4	1246.2	1246.8	1246.1	1245.4	1244.8	1244.1	1243.6
157.5°	1262.9	1264.6	1266.4	1268.2	1270.0	1270.5	1269.8	1269.1	1268.4	1267.7	1267.6
160°	1278.0	1279.8	1281.6	1283.4	1285.1	1285.6	1284.7	1283.8	1282.9	1282.0	1281.8
162.5°	1291.6	1293.6	1295.5	1297.5	1299.4	1299.8	1298.5	1297.3	1296.1	1294.8	1294.6
165°	1310.0	1311.8	1313.5	1315.3	1317.1	1317.3	1316.0	1314.6	1313.3	1312.0	1311.8
167.5°	1322.8	1324.8	1326.8	1328.8	1330.8	1331.0	1329.4	1327.8	1326.2	1324.6	1324.3
170°	1330.0	1332.0	1334.0	1335.9	1337.9	1338.1	1336.3	1334.5	1332.7	1331.0	1330.7
172.5°	1334.8	1336.7	1338.7	1340.7	1342.7	1342.9	1341.3	1339.7	1338.1	1336.5	1336.1
175°	1340.9	1342.9	1344.9	1346.9	1348.9	1349.0	1347.3	1345.5	1343.7	1341.9	1341.7
177.5°	1344.5	1346.0	1347.4	1348.8	1350.2	1350.3	1349.1	1347.8	1346.6	1345.3	1345.2
180°	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9



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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°	26.3	24.9	22.5	20.5	17.5	15.5	14.6	14.8	13.5	13.3	14.2
90°	12.9	11.3	9.8	8.1	6.3	4.5	2.8	1.0	2.8	4.5	6.3
92.5°	13.2	11.8	10.5	10.4	11.6	12.9	14.1	15.4	14.1	12.9	11.6
95°	32.8	41.3	49.7	54.3	54.9	55.6	56.2	56.9	56.2	55.6	54.9
97.5°	82.5	99.2	115.9	123.6	122.4	121.2	120.0	118.8	120.0	121.2	122.4
100°	172.0	171.1	170.2	169.4	168.7	168.1	167.4	166.7	167.4	168.1	168.7
102.5°	220.6	220.1	219.5	218.8	218.0	217.2	216.3	215.5	216.3	217.2	218.0
105°	297.5	297.5	297.5	297.1	296.2	295.3	294.4	293.5	294.4	295.3	296.2
107.5°	375.7	375.3	374.8	374.6	374.6	374.6	374.6	374.6	374.6	374.6	374.6
110°	428.5	428.0	427.6	427.3	427.3	427.3	427.3	427.3	427.3	427.3	427.3





TEST NUMBER: P333277

CATALOG NUMBER: S125DIP-S1090D1035U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	479.9	479.7	479.4	479.0	478.5	477.9	477.4	476.9	477.4	477.9	478.5
115°	556.7	556.5	556.3	555.6	554.5	553.4	552.3	551.2	552.3	553.4	554.5
117.5°	629.9	629.1	628.3	627.9	627.9	627.9	628.0	628.0	628.0	627.9	627.9
120°	676.6	676.0	675.3	675.1	675.3	675.5	675.7	676.0	675.7	675.5	675.3
122.5°	722.9	722.6	722.2	721.7	720.8	720.0	719.1	718.3	719.1	720.0	720.8
125°	790.8	790.8	790.8	790.0	788.5	786.9	785.3	783.8	785.3	786.9	788.5
127.5°	851.0	851.1	851.2	850.7	849.6	848.5	847.4	846.3	847.4	848.5	849.6
130°	890.2	890.0	889.7	889.1	888.0	886.9	885.8	884.6	885.8	886.9	888.0
132.5°	927.6	928.0	928.5	928.1	926.8	925.6	924.3	923.0	924.3	925.6	926.8
135°	982.4	982.8	983.3	982.8	981.5	980.2	978.8	977.5	978.8	980.2	981.5
137.5°	1031.8	1032.2	1032.6	1032.2	1031.1	1029.9	1028.8	1027.6	1028.8	1029.9	1031.1
140°	1061.8	1062.0	1062.3	1062.1	1061.7	1061.3	1060.8	1060.4	1060.8	1061.3	1061.7
142.5°	1091.9	1091.6	1091.3	1091.0	1090.7	1090.5	1090.2	1089.9	1090.2	1090.5	1090.7
145°	1135.3	1135.3	1135.3	1135.0	1134.6	1134.1	1133.7	1133.3	1133.7	1134.1	1134.6
147.5°	1171.5	1171.2	1170.9	1170.8	1170.9	1171.0	1171.1	1171.2	1171.1	1171.0	1170.9
150°	1194.3	1193.8	1193.4	1193.4	1193.8	1194.3	1194.7	1195.2	1194.7	1194.3	1193.8
152.5°	1215.0	1214.6	1214.2	1214.4	1215.4	1216.4	1217.4	1218.3	1217.4	1216.4	1215.4
155°	1243.2	1242.8	1242.3	1242.8	1244.1	1245.4	1246.8	1248.1	1246.8	1245.4	1244.1
157.5°	1267.6	1267.5	1267.5	1267.9	1268.7	1269.5	1270.2	1271.0	1270.2	1269.5	1268.7
160°	1281.6	1281.4	1281.1	1281.7	1283.0	1284.4	1285.7	1287.0	1285.7	1284.4	1283.0
162.5°	1294.4	1294.1	1293.9	1294.5	1295.8	1297.1	1298.5	1299.8	1298.5	1297.1	1295.8
165°	1311.5	1311.3	1311.1	1311.7	1313.0	1314.3	1315.6	1317.0	1315.6	1314.3	1313.0
167.5°	1324.1	1323.9	1323.7	1324.3	1325.6	1327.0	1328.4	1329.8	1328.4	1327.0	1325.6
170°	1330.5	1330.3	1330.1	1330.7	1332.3	1333.8	1335.4	1336.9	1335.4	1333.8	1332.3
172.5°	1335.7	1335.3	1335.0	1335.5	1337.1	1338.6	1340.2	1341.7	1340.2	1338.6	1337.1
175°	1341.5	1341.3	1341.1	1341.6	1342.9	1344.3	1345.6	1346.9	1345.6	1344.3	1342.9
177.5°	1345.0	1344.8	1344.6	1345.1	1346.1	1347.2	1348.3	1349.3	1348.3	1347.2	1346.1
180°	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9



TEST NUMBER: P333277

CATALOG NUMBER: S125DIP-S1090D1035U835-4F0-1E-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°	15.1	16.5	16.3	17.2	17.5	18.9	18.5	20.9	22.2	23.5	23.2
90°	8.1	9.8	11.3	12.9	14.4	16.0	17.1	18.2	19.3	20.4	21.3
92.5°	10.4	10.5	11.8	13.2	14.6	16.0	17.1	18.2	19.3	20.4	21.1
95°	54.3	49.7	41.3	32.8	24.4	16.0	17.1	18.2	19.3	20.4	21.0
97.5°	123.6	115.9	99.2	82.5	65.8	49.1	42.9	36.6	30.4	24.1	21.0
100°	169.4	170.2	171.1	172.0	172.8	173.7	140.7	107.6	74.6	41.5	24.5
102.5°	218.8	219.5	220.1	220.6	221.1	221.7	215.4	209.1	202.9	196.6	186.0
105°	297.1	297.5	297.5	297.5	297.5	297.5	297.5	297.5	297.5	297.5	297.4
107.5°	374.6	374.8	375.3	375.7	376.2	376.6	376.7	376.7	376.8	376.8	376.5
110°	427.3	427.6	428.0	428.5	428.9	429.3	428.7	428.0	427.3	426.7	426.5



TEST NUMBER: P333277

CATALOG NUMBER: S125DIP-S1090D1035U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	479.0	479.4	479.7	479.9	480.2	480.5	479.6	478.8	477.9	477.1	476.5
115°	555.6	556.3	556.5	556.7	556.9	557.1	556.3	555.4	554.5	553.6	552.5
117.5°	627.9	628.3	629.1	629.9	630.8	631.6	630.5	629.3	628.2	627.0	626.1
120°	675.1	675.3	676.0	676.6	677.3	678.0	677.5	677.1	676.6	676.2	675.4
122.5°	721.7	722.2	722.6	722.9	723.2	723.5	723.0	722.6	722.2	721.7	720.8
125°	790.0	790.8	790.8	790.8	790.8	790.8	789.9	789.0	788.1	787.2	786.5
127.5°	850.7	851.2	851.1	851.0	850.8	850.7	850.2	849.7	849.2	848.7	847.7
130°	889.1	889.7	890.0	890.2	890.4	890.6	890.0	889.3	888.6	888.0	887.1
132.5°	928.1	928.5	928.0	927.6	927.1	926.6	926.4	926.3	926.2	926.0	925.4
135°	982.8	983.3	982.8	982.4	981.9	981.5	981.0	980.6	980.2	979.7	978.8
137.5°	1032.2	1032.6	1032.2	1031.8	1031.4	1031.0	1031.1	1031.2	1031.3	1031.4	1030.8
140°	1062.1	1062.3	1062.0	1061.8	1061.6	1061.4	1061.8	1062.3	1062.7	1063.1	1062.7
142.5°	1091.0	1091.3	1091.6	1091.9	1092.2	1092.5	1092.6	1092.7	1092.8	1092.9	1092.3
145°	1135.0	1135.3	1135.3	1135.3	1135.3	1135.3	1135.5	1135.7	1135.9	1136.1	1135.6
147.5°	1170.8	1170.9	1171.2	1171.5	1171.7	1172.0	1172.3	1172.5	1172.8	1173.1	1172.4
150°	1193.4	1193.4	1193.8	1194.3	1194.7	1195.2	1195.6	1196.1	1196.5	1196.9	1196.3
152.5°	1214.4	1214.2	1214.6	1215.0	1215.5	1215.9	1216.4	1216.8	1217.3	1217.7	1217.1
155°	1242.8	1242.3	1242.8	1243.2	1243.6	1244.1	1244.8	1245.4	1246.1	1246.8	1246.2
157.5°	1267.9	1267.5	1267.5	1267.6	1267.6	1267.7	1268.4	1269.1	1269.8	1270.5	1270.0
160°	1281.7	1281.1	1281.4	1281.6	1281.8	1282.0	1282.9	1283.8	1284.7	1285.6	1285.1
162.5°	1294.5	1293.9	1294.1	1294.4	1294.6	1294.8	1296.1	1297.3	1298.5	1299.8	1299.4
165°	1311.7	1311.1	1311.3	1311.5	1311.8	1312.0	1313.3	1314.6	1316.0	1317.3	1317.1
167.5°	1324.3	1323.7	1323.9	1324.1	1324.3	1324.6	1326.2	1327.8	1329.4	1331.0	1330.8
170°	1330.7	1330.1	1330.3	1330.5	1330.7	1331.0	1332.7	1334.5	1336.3	1338.1	1337.9
172.5°	1335.5	1335.0	1335.3	1335.7	1336.1	1336.5	1338.1	1339.7	1341.3	1342.9	1342.7
175°	1341.6	1341.1	1341.3	1341.5	1341.7	1341.9	1343.7	1345.5	1347.3	1349.0	1348.9
177.5°	1345.1	1344.6	1344.8	1345.0	1345.2	1345.3	1346.6	1347.8	1349.1	1350.3	1350.2
180°	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9



TEST NUMBER: P333277

CATALOG NUMBER: S125DIP-S1090D1035U835-4F0-1E-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°	24.4	24.0	24.1	25.3	24.1	24.0	24.4	23.2	23.5	22.2	20.9
90°	22.0	22.6	23.3	24.0	23.3	22.6	22.0	21.3	20.4	19.3	18.2
92.5°	21.4	21.7	22.1	22.4	22.1	21.7	21.4	21.1	20.4	19.3	18.2
95°	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	20.4	19.3	18.2
97.5°	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	24.1	30.4	36.6
100°	23.6	22.7	21.9	21.0	21.9	22.7	23.6	24.5	41.5	74.6	107.6
102.5°	170.9	155.8	140.7	125.6	140.7	155.8	170.9	186.0	196.6	202.9	209.1
105°	297.2	297.0	296.8	296.5	296.8	297.0	297.2	297.4	297.5	297.5	297.5
107.5°	375.8	375.2	374.5	373.8	374.5	375.2	375.8	376.5	376.8	376.8	376.7
110°	426.7	426.9	427.1	427.3	427.1	426.9	426.7	426.5	426.7	427.3	428.0



TEST NUMBER: P333277

CATALOG NUMBER: S125DIP-S1090D1035U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	476.2	475.9	475.6	475.3	475.6	475.9	476.2	476.5	477.1	477.9	478.8
115°	551.2	549.8	548.5	547.2	548.5	549.8	551.2	552.5	553.6	554.5	555.4
117.5°	625.6	625.0	624.4	623.8	624.4	625.0	625.6	626.1	627.0	628.2	629.3
120°	674.3	673.2	672.1	671.0	672.1	673.2	674.3	675.4	676.2	676.6	677.1
122.5°	719.6	718.3	717.0	715.7	717.0	718.3	719.6	720.8	721.7	722.2	722.6
125°	785.8	785.1	784.5	783.8	784.5	785.1	785.8	786.5	787.2	788.1	789.0
127.5°	846.0	844.4	842.8	841.1	842.8	844.4	846.0	847.7	848.7	849.2	849.7
130°	886.0	884.9	883.8	882.6	883.8	884.9	886.0	887.1	888.0	888.6	889.3
132.5°	924.3	923.2	922.1	921.0	922.1	923.2	924.3	925.4	926.0	926.2	926.3
135°	977.5	976.2	974.8	973.5	974.8	976.2	977.5	978.8	979.7	980.2	980.6
137.5°	1029.7	1028.5	1027.4	1026.2	1027.4	1028.5	1029.7	1030.8	1031.4	1031.3	1031.2
140°	1061.4	1060.0	1058.7	1057.4	1058.7	1060.0	1061.4	1062.7	1063.1	1062.7	1062.3
142.5°	1090.9	1089.6	1088.3	1086.9	1088.3	1089.6	1090.9	1092.3	1092.9	1092.8	1092.7
145°	1134.3	1132.9	1131.6	1130.3	1131.6	1132.9	1134.3	1135.6	1136.1	1135.9	1135.7
147.5°	1170.8	1169.2	1167.6	1166.0	1167.6	1169.2	1170.8	1172.4	1173.1	1172.8	1172.5
150°	1194.5	1192.7	1190.9	1189.2	1190.9	1192.7	1194.5	1196.3	1196.9	1196.5	1196.1
152.5°	1215.5	1213.9	1212.3	1210.7	1212.3	1213.9	1215.5	1217.1	1217.7	1217.3	1216.8
155°	1244.4	1242.6	1240.9	1239.1	1240.9	1242.6	1244.4	1246.2	1246.8	1246.1	1245.4
157.5°	1268.2	1266.4	1264.6	1262.9	1264.6	1266.4	1268.2	1270.0	1270.5	1269.8	1269.1
160°	1283.4	1281.6	1279.8	1278.0	1279.8	1281.6	1283.4	1285.1	1285.6	1284.7	1283.8
162.5°	1297.5	1295.5	1293.6	1291.6	1293.6	1295.5	1297.5	1299.4	1299.8	1298.5	1297.3
165°	1315.3	1313.5	1311.8	1310.0	1311.8	1313.5	1315.3	1317.1	1317.3	1316.0	1314.6
167.5°	1328.8	1326.8	1324.8	1322.8	1324.8	1326.8	1328.8	1330.8	1331.0	1329.4	1327.8
170°	1335.9	1334.0	1332.0	1330.0	1332.0	1334.0	1335.9	1337.9	1338.1	1336.3	1334.5
172.5°	1340.7	1338.7	1336.7	1334.8	1336.7	1338.7	1340.7	1342.7	1342.9	1341.3	1339.7
175°	1346.9	1344.9	1342.9	1340.9	1342.9	1344.9	1346.9	1348.9	1349.0	1347.3	1345.5
177.5°	1348.8	1347.4	1346.0	1344.5	1346.0	1347.4	1348.8	1350.2	1350.3	1349.1	1347.8
180°	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9



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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°	18.5	18.9	17.5	17.2	16.3	16.5	15.1	14.2	13.3	13.5	14.8
90°	17.1	16.0	14.4	12.9	11.3	9.8	8.1	6.3	4.5	2.8	1.0
92.5°	17.1	16.0	14.6	13.2	11.8	10.5	10.4	11.6	12.9	14.1	15.4
95°	17.1	16.0	24.4	32.8	41.3	49.7	54.3	54.9	55.6	56.2	56.9
97.5°	42.9	49.1	65.8	82.5	99.2	115.9	123.6	122.4	121.2	120.0	118.8
100°	140.7	173.7	172.8	172.0	171.1	170.2	169.4	168.7	168.1	167.4	166.7
102.5°	215.4	221.7	221.1	220.6	220.1	219.5	218.8	218.0	217.2	216.3	215.5
105°	297.5	297.5	297.5	297.5	297.5	297.5	297.1	296.2	295.3	294.4	293.5
107.5°	376.7	376.6	376.2	375.7	375.3	374.8	374.6	374.6	374.6	374.6	374.6
110°	428.7	429.3	428.9	428.5	428.0	427.6	427.3	427.3	427.3	427.3	427.3



TEST NUMBER: P333277

CATALOG NUMBER: S125DIP-S1090D1035U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	479.6	480.5	480.2	479.9	479.7	479.4	479.0	478.5	477.9	477.4	476.9
115°	556.3	557.1	556.9	556.7	556.5	556.3	555.6	554.5	553.4	552.3	551.2
117.5°	630.5	631.6	630.8	629.9	629.1	628.3	627.9	627.9	627.9	628.0	628.0
120°	677.5	678.0	677.3	676.6	676.0	675.3	675.1	675.3	675.5	675.7	676.0
122.5°	723.0	723.5	723.2	722.9	722.6	722.2	721.7	720.8	720.0	719.1	718.3
125°	789.9	790.8	790.8	790.8	790.8	790.8	790.0	788.5	786.9	785.3	783.8
127.5°	850.2	850.7	850.8	851.0	851.1	851.2	850.7	849.6	848.5	847.4	846.3
130°	890.0	890.6	890.4	890.2	890.0	889.7	889.1	888.0	886.9	885.8	884.6
132.5°	926.4	926.6	927.1	927.6	928.0	928.5	928.1	926.8	925.6	924.3	923.0
135°	981.0	981.5	981.9	982.4	982.8	983.3	982.8	981.5	980.2	978.8	977.5
137.5°	1031.1	1031.0	1031.4	1031.8	1032.2	1032.6	1032.2	1031.1	1029.9	1028.8	1027.6
140°	1061.8	1061.4	1061.6	1061.8	1062.0	1062.3	1062.1	1061.7	1061.3	1060.8	1060.4
142.5°	1092.6	1092.5	1092.2	1091.9	1091.6	1091.3	1091.0	1090.7	1090.5	1090.2	1089.9
145°	1135.5	1135.3	1135.3	1135.3	1135.3	1135.3	1135.0	1134.6	1134.1	1133.7	1133.3
147.5°	1172.3	1172.0	1171.7	1171.5	1171.2	1170.9	1170.8	1170.9	1171.0	1171.1	1171.2
150°	1195.6	1195.2	1194.7	1194.3	1193.8	1193.4	1193.4	1193.8	1194.3	1194.7	1195.2
152.5°	1216.4	1215.9	1215.5	1215.0	1214.6	1214.2	1214.4	1215.4	1216.4	1217.4	1218.3
155°	1244.8	1244.1	1243.6	1243.2	1242.8	1242.3	1242.8	1244.1	1245.4	1246.8	1248.1
157.5°	1268.4	1267.7	1267.6	1267.6	1267.5	1267.5	1267.9	1268.7	1269.5	1270.2	1271.0
160°	1282.9	1282.0	1281.8	1281.6	1281.4	1281.1	1281.7	1283.0	1284.4	1285.7	1287.0
162.5°	1296.1	1294.8	1294.6	1294.4	1294.1	1293.9	1294.5	1295.8	1297.1	1298.5	1299.8
165°	1313.3	1312.0	1311.8	1311.5	1311.3	1311.1	1311.7	1313.0	1314.3	1315.6	1317.0
167.5°	1326.2	1324.6	1324.3	1324.1	1323.9	1323.7	1324.3	1325.6	1327.0	1328.4	1329.8
170°	1332.7	1331.0	1330.7	1330.5	1330.3	1330.1	1330.7	1332.3	1333.8	1335.4	1336.9
172.5°	1338.1	1336.5	1336.1	1335.7	1335.3	1335.0	1335.5	1337.1	1338.6	1340.2	1341.7
175°	1343.7	1341.9	1341.7	1341.5	1341.3	1341.1	1341.6	1342.9	1344.3	1345.6	1346.9
177.5°	1346.6	1345.3	1345.2	1345.0	1344.8	1344.6	1345.1	1346.1	1347.2	1348.3	1349.3
180°	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9



TEST NUMBER: P333277

CATALOG NUMBER: S125DIP-S1090D1035U835-4F0-1E-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°	14.6	15.5	17.5	20.5	22.5	24.9	26.3	25.6	23.7	22.3	20.9
90°	2.8	4.5	6.3	8.1	9.8	11.3	12.9	14.4	16.0	17.1	18.2
92.5°	14.1	12.9	11.6	10.4	10.5	11.8	13.2	14.6	16.0	17.1	18.2
95°	56.2	55.6	54.9	54.3	49.7	41.3	32.8	24.4	16.0	17.1	18.2
97.5°	120.0	121.2	122.4	123.6	115.9	99.2	82.5	65.8	49.1	42.9	36.6
100°	167.4	168.1	168.7	169.4	170.2	171.1	172.0	172.8	173.7	140.7	107.6
102.5°	216.3	217.2	218.0	218.8	219.5	220.1	220.6	221.1	221.7	215.4	209.1
105°	294.4	295.3	296.2	297.1	297.5	297.5	297.5	297.5	297.5	297.5	297.5
107.5°	374.6	374.6	374.6	374.6	374.8	375.3	375.7	376.2	376.6	376.7	376.7
110°	427.3	427.3	427.3	427.3	427.6	428.0	428.5	428.9	429.3	428.7	428.0





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	477.4	477.9	478.5	479.0	479.4	479.7	479.9	480.2	480.5	479.6	478.8
115°	552.3	553.4	554.5	555.6	556.3	556.5	556.7	556.9	557.1	556.3	555.4
117.5°	628.0	627.9	627.9	627.9	628.3	629.1	629.9	630.8	631.6	630.5	629.3
120°	675.7	675.5	675.3	675.1	675.3	676.0	676.6	677.3	678.0	677.5	677.1
122.5°	719.1	720.0	720.8	721.7	722.2	722.6	722.9	723.2	723.5	723.0	722.6
125°	785.3	786.9	788.5	790.0	790.8	790.8	790.8	790.8	790.8	789.9	789.0
127.5°	847.4	848.5	849.6	850.7	851.2	851.1	851.0	850.8	850.7	850.2	849.7
130°	885.8	886.9	888.0	889.1	889.7	890.0	890.2	890.4	890.6	890.0	889.3
132.5°	924.3	925.6	926.8	928.1	928.5	928.0	927.6	927.1	926.6	926.4	926.3
135°	978.8	980.2	981.5	982.8	983.3	982.8	982.4	981.9	981.5	981.0	980.6
137.5°	1028.8	1029.9	1031.1	1032.2	1032.6	1032.2	1031.8	1031.4	1031.0	1031.1	1031.2
140°	1060.8	1061.3	1061.7	1062.1	1062.3	1062.0	1061.8	1061.6	1061.4	1061.8	1062.3
142.5°	1090.2	1090.5	1090.7	1091.0	1091.3	1091.6	1091.9	1092.2	1092.5	1092.6	1092.7
145°	1133.7	1134.1	1134.6	1135.0	1135.3	1135.3	1135.3	1135.3	1135.3	1135.5	1135.7
147.5°	1171.1	1171.0	1170.9	1170.8	1170.9	1171.2	1171.5	1171.7	1172.0	1172.3	1172.5
150°	1194.7	1194.3	1193.8	1193.4	1193.4	1193.8	1194.3	1194.7	1195.2	1195.6	1196.1
152.5°	1217.4	1216.4	1215.4	1214.4	1214.2	1214.6	1215.0	1215.5	1215.9	1216.4	1216.8
155°	1246.8	1245.4	1244.1	1242.8	1242.3	1242.8	1243.2	1243.6	1244.1	1244.8	1245.4
157.5°	1270.2	1269.5	1268.7	1267.9	1267.5	1267.5	1267.6	1267.6	1267.7	1268.4	1269.1
160°	1285.7	1284.4	1283.0	1281.7	1281.1	1281.4	1281.6	1281.8	1282.0	1282.9	1283.8
162.5°	1298.5	1297.1	1295.8	1294.5	1293.9	1294.1	1294.4	1294.6	1294.8	1296.1	1297.3
165°	1315.6	1314.3	1313.0	1311.7	1311.1	1311.3	1311.5	1311.8	1312.0	1313.3	1314.6
167.5°	1328.4	1327.0	1325.6	1324.3	1323.7	1323.9	1324.1	1324.3	1324.6	1326.2	1327.8
170°	1335.4	1333.8	1332.3	1330.7	1330.1	1330.3	1330.5	1330.7	1331.0	1332.7	1334.5
172.5°	1340.2	1338.6	1337.1	1335.5	1335.0	1335.3	1335.7	1336.1	1336.5	1338.1	1339.7
175°	1345.6	1344.3	1342.9	1341.6	1341.1	1341.3	1341.5	1341.7	1341.9	1343.7	1345.5
177.5°	1348.3	1347.2	1346.1	1345.1	1344.6	1344.8	1345.0	1345.2	1345.3	1346.6	1347.8
180°	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9



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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°	21.1	19.2	19.4	19.0	19.1	18.7	17.8
90°	19.3	20.4	21.3	22.0	22.6	23.3	24.0
92.5°	19.3	20.4	21.1	21.4	21.7	22.1	22.4
95°	19.3	20.4	21.0	21.0	21.0	21.0	21.0
97.5°	30.4	24.1	21.0	21.0	21.0	21.0	21.0
100°	74.6	41.5	24.5	23.6	22.7	21.9	21.0
102.5°	202.9	196.6	186.0	170.9	155.8	140.7	125.6
105°	297.5	297.5	297.4	297.2	297.0	296.8	296.5
107.5°	376.8	376.8	376.5	375.8	375.2	374.5	373.8
110°	427.3	426.7	426.5	426.7	426.9	427.1	427.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	477.9	477.1	476.5	476.2	475.9	475.6	475.3
115°	554.5	553.6	552.5	551.2	549.8	548.5	547.2
117.5°	628.2	627.0	626.1	625.6	625.0	624.4	623.8
120°	676.6	676.2	675.4	674.3	673.2	672.1	671.0
122.5°	722.2	721.7	720.8	719.6	718.3	717.0	715.7
125°	788.1	787.2	786.5	785.8	785.1	784.5	783.8
127.5°	849.2	848.7	847.7	846.0	844.4	842.8	841.1
130°	888.6	888.0	887.1	886.0	884.9	883.8	882.6
132.5°	926.2	926.0	925.4	924.3	923.2	922.1	921.0
135°	980.2	979.7	978.8	977.5	976.2	974.8	973.5
137.5°	1031.3	1031.4	1030.8	1029.7	1028.5	1027.4	1026.2
140°	1062.7	1063.1	1062.7	1061.4	1060.0	1058.7	1057.4
142.5°	1092.8	1092.9	1092.3	1090.9	1089.6	1088.3	1086.9
145°	1135.9	1136.1	1135.6	1134.3	1132.9	1131.6	1130.3
147.5°	1172.8	1173.1	1172.4	1170.8	1169.2	1167.6	1166.0
150°	1196.5	1196.9	1196.3	1194.5	1192.7	1190.9	1189.2
152.5°	1217.3	1217.7	1217.1	1215.5	1213.9	1212.3	1210.7
155°	1246.1	1246.8	1246.2	1244.4	1242.6	1240.9	1239.1
157.5°	1269.8	1270.5	1270.0	1268.2	1266.4	1264.6	1262.9
160°	1284.7	1285.6	1285.1	1283.4	1281.6	1279.8	1278.0
162.5°	1298.5	1299.8	1299.4	1297.5	1295.5	1293.6	1291.6
165°	1316.0	1317.3	1317.1	1315.3	1313.5	1311.8	1310.0
167.5°	1329.4	1331.0	1330.8	1328.8	1326.8	1324.8	1322.8
170°	1336.3	1338.1	1337.9	1335.9	1334.0	1332.0	1330.0
172.5°	1341.3	1342.9	1342.7	1340.7	1338.7	1336.7	1334.8
175°	1347.3	1349.0	1348.9	1346.9	1344.9	1342.9	1340.9
177.5°	1349.1	1350.3	1350.2	1348.8	1347.4	1346.0	1344.5
180°	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9

(END OF REPORT)