

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: P333442-840

Luminaire Tested: **S125DIW-S1090D1050U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333442-840  
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-S1090D1050U840-4F0-1E-UDD-A  
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1090 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1050 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8765.3 lumens  
Efficiency: N/A  
Efficacy: 143.2 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

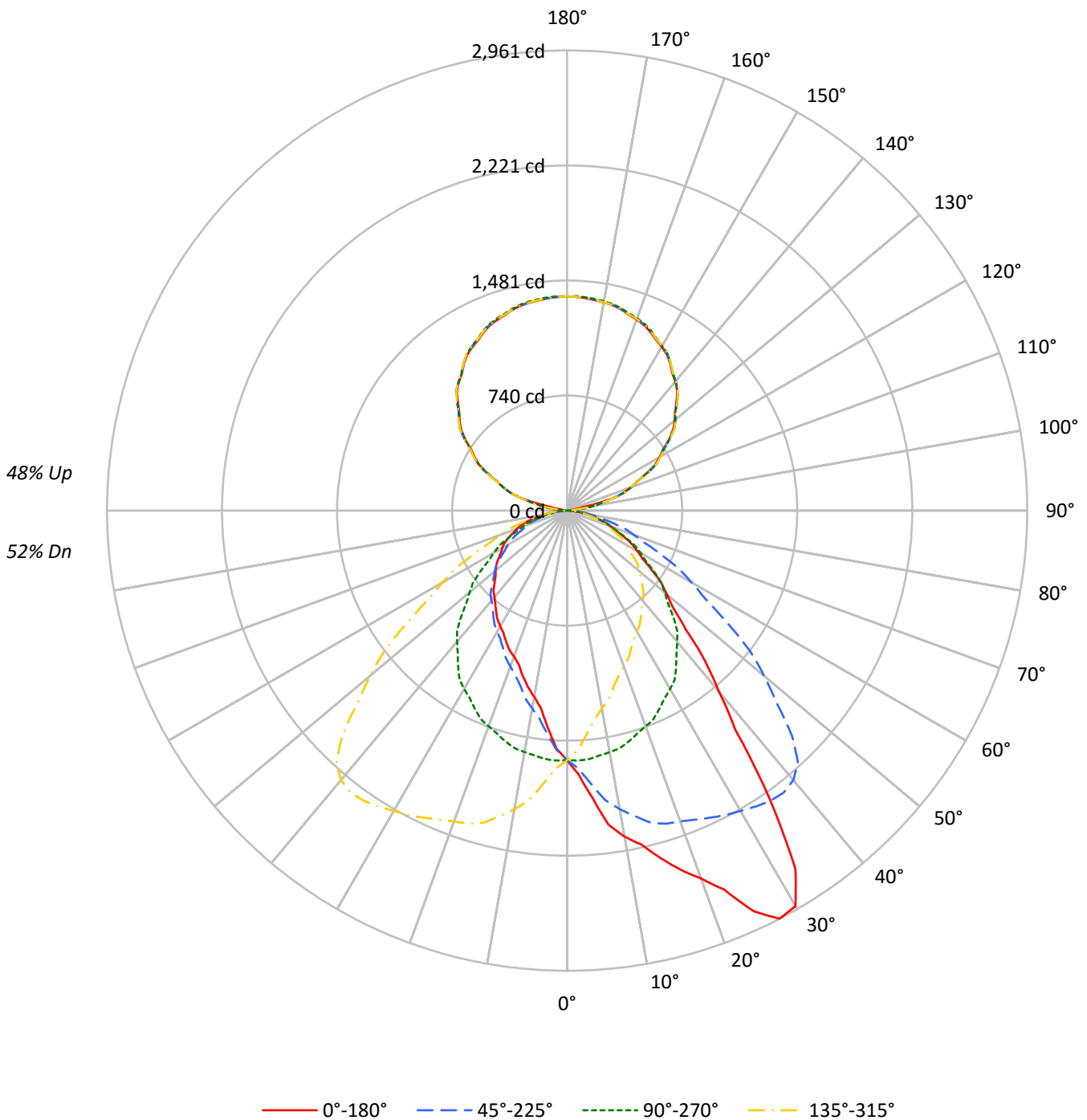
Input Watts (W): 61.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	108	108	108	108	99	99	99	99	84	84	84	70	70	70	58	58	58	52
1	98	94	90	87	91	87	84	81	74	72	70	62	61	59	51	50	49	44
2	90	82	76	71	83	77	71	67	65	61	58	55	52	50	45	44	42	37
3	82	73	65	60	76	68	61	56	58	53	49	49	45	42	40	38	36	32
4	75	64	57	51	69	60	53	48	51	46	42	44	40	36	36	33	31	27
5	69	57	49	43	64	54	46	41	46	41	36	39	35	32	33	30	27	24
6	64	52	43	38	59	48	41	36	42	36	32	35	31	28	30	26	24	21
7	59	47	39	33	54	43	36	31	38	32	28	32	28	25	27	24	21	19
8	55	42	35	29	50	40	33	28	34	29	25	29	25	22	25	22	19	17
9	51	39	31	26	47	36	29	25	31	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°	10371	10371	10371	10371
5°	12010	10407	9111	10407
10°	13973	10352	7984	10352
15°	15468	10277	7365	10277
20°	17314	10156	6868	10156
25°	20283	10020	6625	10020
30°	21908	9887	6415	9887
35°	18013	9635	6277	9635
40°	12803	9286	6126	9286
45°	9836	8815	6039	8815
50°	8397	8232	6027	8232
55°	7475	7659	6079	7659
60°	6744	7034	6234	7034
65°	6229	6406	6395	6406
70°	5663	5754	6488	5754
75°	5001	5068	6428	5068
80°	4206	4132	5880	4132
85°	3327	2979	4742	2979



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.6	1.8
10°-20°	460.3	5.3
20°-30°	747.4	8.5
30°-40°	911.7	10.4
40°-50°	829.4	9.5
50°-60°	660.6	7.5
60°-70°	460.1	5.2
70°-80°	245.4	2.8
80°-90°	64.8	0.7
90°-100°	50.1	0.6
100°-110°	308.6	3.5
110°-120°	559.7	6.4
120°-130°	718.2	8.2
130°-140°	772.5	8.8
140°-150°	725.1	8.3
150°-160°	586.6	6.7
160°-170°	379.4	4.3
170°-180°	130.8	1.5
0°-30°	1362.3	15.5
0°-40°	2274.0	25.9
0°-60°	3764.0	42.9
0°-90°	4534.3	51.7
90°-120°	918.3	10.5
90°-150°	3134.2	35.8
90°-180°	4231.0	48.3
0°-180°	8765.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1606	1606	1606	1606	1606	
5°	1853	1605	1405	1605	1853	187
15°	2313	1537	1102	1537	2313	662
25°	2846	1406	930	1406	2846	1300
35°	2285	1222	796	1222	2285	1398
45°	1077	965	661	965	1077	862
55°	664	680	540	680	664	598
65°	408	419	418	419	408	405
75°	200	203	258	203	200	216
85°	45	40	64	40	45	52
90°	24	1	24	1	24	12
95°	21	58	21	58	21	18
105°	303	300	303	300	303	274
115°	560	564	560	564	560	556
125°	802	802	802	802	802	713
135°	996	1000	996	1000	996	769
145°	1156	1159	1156	1159	1156	722
155°	1268	1277	1268	1277	1268	584
165°	1340	1347	1340	1347	1340	378
175°	1372	1378	1372	1378	1372	131
180°	1378	1378	1378	1378	1378	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1698.6	1696.4	1694.3	1689.8	1693.1	1683.8	1679.5	1671.8	1662.5	1659.3	1655.5
5°	1852.6	1856.0	1859.5	1845.1	1846.4	1836.9	1815.1	1797.4	1783.1	1764.6	1751.7
7.5°	2038.0	2029.9	2029.3	2020.0	2004.1	1991.3	1968.3	1939.1	1911.0	1878.8	1852.2
10°	2130.7	2131.4	2125.3	2114.4	2097.3	2085.1	2055.1	2026.4	1991.7	1950.8	1921.5
12.5°	2200.5	2203.3	2195.6	2180.9	2172.5	2145.1	2121.6	2087.5	2046.2	2013.5	1968.9
15°	2313.4	2305.9	2300.5	2282.0	2267.8	2239.1	2201.6	2166.2	2121.1	2079.6	2038.0
17.5°	2422.2	2428.1	2417.9	2401.2	2356.7	2323.3	2273.0	2224.5	2168.5	2112.7	2063.1
20°	2519.2	2524.7	2509.0	2479.7	2426.5	2393.2	2327.0	2264.3	2199.6	2128.0	2073.5
22.5°	2640.3	2635.9	2614.7	2570.2	2524.2	2462.4	2390.9	2314.5	2233.3	2152.5	2080.0
25°	2846.4	2817.7	2804.8	2749.7	2689.0	2598.3	2500.1	2388.3	2287.4	2180.5	2087.8
27.5°	2960.6	2951.6	2937.2	2898.7	2835.0	2738.0	2622.3	2486.1	2343.8	2208.7	2087.4
30°	2937.7	2939.1	2940.4	2928.2	2887.3	2814.4	2699.2	2552.6	2383.6	2231.6	2091.1
32.5°	2734.9	2759.7	2783.4	2811.5	2823.0	2808.9	2736.8	2604.4	2430.4	2257.8	2089.0
35°	2284.7	2292.3	2369.2	2445.6	2549.2	2629.7	2683.5	2624.8	2478.3	2280.0	2086.4
37.5°	1781.5	1818.3	1871.6	1957.8	2107.4	2241.3	2413.5	2492.6	2445.4	2287.2	2081.6
40°	1518.6	1552.7	1587.5	1675.4	1801.5	1963.7	2159.3	2326.3	2365.2	2264.3	2065.3
42.5°	1315.8	1342.8	1381.4	1447.4	1552.9	1696.6	1883.4	2101.6	2235.9	2197.8	2030.9
45°	1076.9	1094.0	1124.0	1176.5	1252.8	1365.2	1530.2	1768.8	1976.7	2045.5	1949.4
47.5°	921.8	921.7	945.0	981.3	1036.3	1131.9	1253.8	1440.8	1662.8	1827.1	1819.5
50°	835.7	832.2	850.6	882.0	925.6	989.1	1105.6	1254.9	1468.1	1654.3	1706.1
52.5°	761.5	761.9	773.3	796.4	832.9	887.1	974.1	1108.7	1291.0	1482.0	1579.5
55°	663.9	661.2	674.1	689.8	716.4	751.8	814.6	917.5	1065.3	1253.4	1380.3
57.5°	574.4	582.0	587.1	598.0	620.2	643.9	696.7	772.2	889.6	1051.1	1185.1
60°	522.1	529.6	533.7	544.6	562.3	582.8	623.7	685.0	783.9	922.9	1055.8
62.5°	475.2	481.1	482.4	492.2	506.8	526.6	558.8	610.4	688.4	810.0	940.2
65°	407.6	407.6	410.3	420.5	427.4	445.0	469.6	507.2	569.9	664.6	775.7
67.5°	342.4	345.7	345.1	349.5	355.8	369.6	387.2	418.1	464.5	533.7	622.6
70°	299.9	302.7	301.9	305.4	312.1	321.0	335.4	364.7	398.1	457.4	533.7
72.5°	261.8	262.9	261.1	265.6	269.6	277.4	293.4	309.0	340.2	390.3	453.0
75°	200.4	201.8	203.1	205.8	210.0	214.0	222.2	237.9	258.3	295.8	336.1
77.5°	150.3	147.6	150.9	150.5	152.8	155.9	163.2	171.5	188.2	212.0	243.1
80°	113.1	113.8	113.8	114.5	118.0	120.0	126.1	132.2	145.2	162.9	184.7
82.5°	82.6	84.4	83.3	84.5	87.4	88.9	92.3	97.4	104.8	118.8	134.5
85°	44.9	41.6	42.9	44.3	44.3	44.9	47.7	49.8	53.8	59.3	65.4
87.5°	18.0	19.0	19.4	19.2	19.6	19.5	21.4	21.2	22.6	24.0	25.9
90°	24.5	23.8	23.1	22.5	21.8	20.9	19.8	18.6	17.5	16.4	14.7
92.5°	22.9	22.5	22.2	21.9	21.6	20.9	19.8	18.6	17.5	16.4	14.9
95°	21.4	21.4	21.4	21.4	21.4	20.9	19.8	18.6	17.5	16.4	24.9
97.5°	21.4	21.4	21.4	21.4	21.4	24.6	31.0	37.5	43.8	50.3	67.4
100°	21.4	22.3	23.2	24.1	25.0	42.4	76.2	110.1	143.9	177.7	176.8
102.5°	128.5	143.9	159.4	174.8	190.3	201.2	207.5	213.9	220.4	226.7	226.2
105°	303.4	303.6	303.8	304.1	304.3	304.4	304.4	304.4	304.4	304.4	304.4
107.5°	382.4	383.0	383.7	384.5	385.2	385.5	385.4	385.4	385.3	385.3	384.8
110°	437.2	436.9	436.7	436.5	436.3	436.5	437.2	437.8	438.5	439.2	438.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	486.1	486.5	486.8	487.2	487.5	488.1	488.9	489.8	490.6	491.5	491.2
115°	559.7	561.1	562.4	563.8	565.1	566.2	567.1	568.0	569.0	569.9	569.7
117.5°	638.1	638.7	639.3	640.0	640.5	641.4	642.6	643.8	644.9	646.1	645.2
120°	686.3	687.5	688.6	689.7	690.8	691.7	692.2	692.6	693.1	693.5	692.8
122.5°	732.2	733.5	734.8	736.1	737.4	738.2	738.7	739.1	739.6	740.0	739.7
125°	801.7	802.4	803.1	803.9	804.5	805.3	806.2	807.1	808.0	808.9	808.9
127.5°	860.4	862.0	863.7	865.5	867.1	868.2	868.7	869.2	869.7	870.2	870.3
130°	902.9	904.0	905.1	906.3	907.4	908.3	909.0	909.7	910.4	911.0	910.8
132.5°	942.1	943.2	944.3	945.5	946.6	947.3	947.4	947.6	947.7	947.9	948.3
135°	995.8	997.1	998.6	999.9	1001.3	1002.2	1002.6	1003.1	1003.5	1004.0	1004.4
137.5°	1049.8	1051.0	1052.1	1053.3	1054.5	1055.0	1054.9	1054.8	1054.7	1054.6	1055.0
140°	1081.6	1083.0	1084.3	1085.7	1087.0	1087.5	1087.0	1086.6	1086.1	1085.7	1085.9
142.5°	1111.9	1113.2	1114.6	1115.9	1117.3	1117.9	1117.8	1117.7	1117.6	1117.5	1117.2
145°	1156.2	1157.5	1158.9	1160.2	1161.6	1162.2	1162.0	1161.7	1161.5	1161.2	1161.2
147.5°	1192.8	1194.4	1196.0	1197.6	1199.3	1199.9	1199.7	1199.4	1199.1	1198.8	1198.6
150°	1216.4	1218.2	1220.0	1221.8	1223.7	1224.4	1224.0	1223.5	1223.0	1222.5	1222.1
152.5°	1238.5	1240.1	1241.7	1243.3	1245.1	1245.6	1245.2	1244.7	1244.3	1243.7	1243.3
155°	1267.5	1269.3	1271.1	1272.9	1274.8	1275.4	1274.7	1273.9	1273.2	1272.6	1272.1
157.5°	1291.8	1293.6	1295.5	1297.3	1299.1	1299.6	1298.9	1298.2	1297.5	1296.7	1296.7
160°	1307.4	1309.2	1311.0	1312.8	1314.5	1315.0	1314.1	1313.2	1312.3	1311.4	1311.2
162.5°	1321.2	1323.2	1325.2	1327.2	1329.2	1329.6	1328.3	1327.1	1325.8	1324.4	1324.2
165°	1340.0	1341.8	1343.6	1345.4	1347.3	1347.5	1346.2	1344.7	1343.4	1342.0	1341.8
167.5°	1353.1	1355.1	1357.2	1359.2	1361.3	1361.5	1359.8	1358.2	1356.6	1354.9	1354.7
170°	1360.4	1362.5	1364.5	1366.5	1368.6	1368.8	1367.0	1365.1	1363.3	1361.5	1361.2
172.5°	1365.3	1367.4	1369.4	1371.5	1373.5	1373.7	1372.1	1370.5	1368.8	1367.2	1366.8
175°	1371.7	1373.7	1375.7	1377.8	1379.9	1380.0	1378.2	1376.3	1374.5	1372.7	1372.5
177.5°	1375.3	1376.8	1378.3	1379.7	1381.2	1381.3	1380.0	1378.7	1377.5	1376.1	1375.9
180°	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1652.2	1648.4	1644.1	1636.4	1627.1	1622.2	1614.6	1609.7	1599.8	1591.6	1583.0
5°	1736.1	1718.4	1702.0	1680.8	1657.7	1642.6	1625.0	1605.2	1584.8	1563.6	1540.4
7.5°	1822.9	1791.5	1757.5	1720.8	1685.0	1651.9	1620.4	1589.5	1560.6	1525.7	1496.1
10°	1881.3	1841.7	1799.5	1749.7	1701.3	1659.0	1616.1	1578.6	1540.4	1499.5	1463.4
12.5°	1939.5	1886.9	1827.2	1772.6	1714.3	1663.3	1612.9	1565.0	1517.0	1471.8	1429.6
15°	1980.7	1934.4	1879.2	1801.5	1736.1	1665.9	1599.0	1537.0	1479.0	1428.7	1375.5
17.5°	2007.9	1948.1	1888.9	1814.3	1728.6	1650.0	1574.4	1503.4	1438.0	1374.1	1322.8
20°	2012.8	1951.5	1889.5	1816.4	1728.6	1638.6	1563.0	1477.7	1407.5	1341.4	1278.7
22.5°	2011.1	1941.7	1874.1	1799.1	1713.3	1630.4	1538.9	1452.1	1375.9	1310.9	1245.5
25°	1995.8	1921.5	1836.9	1761.3	1676.8	1588.8	1496.1	1406.1	1328.5	1254.2	1189.4
27.5°	1983.0	1886.5	1790.9	1702.6	1621.0	1540.4	1451.7	1359.6	1273.3	1198.1	1137.1
30°	1967.1	1861.5	1753.7	1661.7	1577.9	1499.5	1415.7	1325.8	1235.8	1162.2	1096.7
32.5°	1953.0	1829.9	1716.2	1616.0	1527.2	1451.0	1373.7	1288.1	1199.7	1125.1	1059.7
35°	1925.5	1783.1	1652.9	1539.7	1445.0	1366.7	1301.9	1222.1	1141.0	1068.7	1006.0
37.5°	1890.8	1721.7	1582.1	1463.4	1359.6	1277.0	1216.7	1155.5	1077.6	1007.9	951.3
40°	1863.5	1678.1	1530.2	1408.9	1301.2	1215.3	1159.4	1101.5	1036.7	972.0	912.0
42.5°	1829.2	1638.9	1477.8	1347.3	1240.6	1157.0	1098.3	1049.1	992.0	931.6	876.0
45°	1766.1	1567.7	1393.2	1252.8	1145.1	1062.6	1002.0	965.1	922.2	864.9	817.9
47.5°	1673.2	1482.2	1301.7	1156.8	1045.7	969.3	912.4	877.1	846.9	804.3	761.6
50°	1590.8	1418.5	1235.8	1092.0	980.9	903.8	851.3	819.3	793.3	760.6	724.6
52.5°	1498.7	1338.3	1170.8	1028.6	918.7	842.7	791.3	763.2	741.5	718.1	682.6
55°	1352.3	1216.0	1060.6	925.6	824.0	749.7	704.8	680.2	662.6	644.8	623.0
57.5°	1191.0	1084.4	946.7	823.3	729.8	662.3	620.3	596.4	582.6	573.5	560.7
60°	1077.6	986.3	867.7	755.2	663.9	603.9	563.0	544.6	533.0	525.5	515.9
62.5°	972.4	897.4	787.5	684.9	605.0	548.3	511.8	493.9	482.8	479.2	471.3
65°	817.3	759.3	668.6	583.5	515.3	466.9	436.3	419.2	412.3	408.3	409.0
67.5°	664.4	629.1	556.3	483.6	429.3	388.7	364.2	351.0	347.6	342.1	342.0
70°	571.2	544.6	483.2	419.9	371.4	340.1	318.3	304.7	301.2	298.5	297.9
72.5°	488.9	465.5	412.3	361.5	318.0	290.5	272.5	264.3	258.7	257.1	257.0
75°	367.4	354.5	312.1	272.0	242.0	222.9	210.7	203.1	199.0	198.3	199.0
77.5°	261.2	249.8	223.0	194.5	175.6	161.2	150.8	148.1	143.5	143.7	143.0
80°	196.3	188.8	171.8	149.3	133.6	121.3	115.8	111.1	109.8	107.7	109.8
82.5°	142.3	134.3	122.7	108.4	95.4	88.1	82.6	81.1	80.3	79.4	79.8
85°	70.2	70.9	64.0	53.1	47.7	43.6	40.2	40.2	39.5	38.9	39.5
87.5°	26.7	25.2	22.7	20.7	17.7	15.7	14.7	14.9	13.6	13.4	14.3
90°	13.1	11.6	10.0	8.3	6.5	4.6	2.8	1.0	2.8	4.6	6.5
92.5°	13.5	12.1	10.7	10.6	11.9	13.2	14.4	15.8	14.4	13.2	11.9
95°	33.6	42.2	50.8	55.5	56.1	56.9	57.6	58.2	57.6	56.9	56.1
97.5°	84.4	101.5	118.6	126.4	125.2	124.0	122.8	121.6	122.8	124.0	125.2
100°	175.9	175.0	174.1	173.3	172.6	171.9	171.3	170.6	171.3	171.9	172.6
102.5°	225.6	225.1	224.6	223.9	223.0	222.2	221.3	220.5	221.3	222.2	223.0
105°	304.4	304.4	304.4	303.9	303.0	302.1	301.1	300.2	301.1	302.1	303.0
107.5°	384.4	383.8	383.4	383.2	383.2	383.2	383.2	383.2	383.2	383.2	383.2
110°	438.3	437.8	437.4	437.2	437.2	437.2	437.2	437.2	437.2	437.2	437.2





TEST NUMBER: P333442-840

CATALOG NUMBER: S125DIW-S1090D1050U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	490.9	490.7	490.4	490.0	489.4	488.9	488.4	487.8	488.4	488.9	489.4
115°	569.5	569.3	569.0	568.4	567.1	566.0	564.9	563.8	564.9	566.0	567.1
117.5°	644.4	643.5	642.7	642.3	642.3	642.4	642.4	642.5	642.4	642.4	642.3
120°	692.2	691.5	690.7	690.5	690.7	690.9	691.3	691.5	691.3	690.9	690.7
122.5°	739.4	739.1	738.8	738.2	737.3	736.5	735.6	734.8	735.6	736.5	737.3
125°	808.9	808.9	808.9	808.1	806.5	805.0	803.3	801.7	803.3	805.0	806.5
127.5°	870.5	870.6	870.7	870.2	869.1	868.0	866.9	865.7	866.9	868.0	869.1
130°	910.6	910.4	910.1	909.5	908.3	907.2	906.1	904.9	906.1	907.2	908.3
132.5°	948.8	949.3	949.8	949.4	948.1	946.7	945.4	944.1	945.4	946.7	948.1
135°	1004.9	1005.3	1005.8	1005.3	1004.0	1002.6	1001.3	999.9	1001.3	1002.6	1004.0
137.5°	1055.5	1055.9	1056.3	1055.9	1054.7	1053.5	1052.4	1051.2	1052.4	1053.5	1054.7
140°	1086.1	1086.4	1086.6	1086.5	1086.0	1085.6	1085.1	1084.7	1085.1	1085.6	1086.0
142.5°	1116.9	1116.6	1116.3	1116.0	1115.7	1115.5	1115.2	1114.9	1115.2	1115.5	1115.7
145°	1161.2	1161.2	1161.2	1161.0	1160.6	1160.1	1159.7	1159.2	1159.7	1160.1	1160.6
147.5°	1198.3	1198.0	1197.8	1197.7	1197.8	1197.9	1198.0	1198.0	1198.0	1197.9	1197.8
150°	1221.6	1221.2	1220.7	1220.7	1221.2	1221.6	1222.1	1222.5	1222.1	1221.6	1221.2
152.5°	1242.9	1242.4	1242.0	1242.2	1243.2	1244.3	1245.3	1246.3	1245.3	1244.3	1243.2
155°	1271.7	1271.2	1270.8	1271.2	1272.6	1273.9	1275.4	1276.7	1275.4	1273.9	1272.6
157.5°	1296.6	1296.6	1296.6	1296.9	1297.8	1298.6	1299.4	1300.2	1299.4	1298.6	1297.8
160°	1311.0	1310.7	1310.5	1311.1	1312.4	1313.8	1315.1	1316.6	1315.1	1313.8	1312.4
162.5°	1324.0	1323.8	1323.5	1324.1	1325.5	1326.9	1328.3	1329.6	1328.3	1326.9	1325.5
165°	1341.6	1341.4	1341.1	1341.7	1343.1	1344.4	1345.8	1347.2	1345.8	1344.4	1343.1
167.5°	1354.4	1354.2	1354.0	1354.6	1356.0	1357.5	1358.9	1360.2	1358.9	1357.5	1356.0
170°	1361.0	1360.8	1360.6	1361.2	1362.8	1364.4	1366.0	1367.6	1366.0	1364.4	1362.8
172.5°	1366.3	1365.9	1365.5	1366.1	1367.8	1369.3	1370.9	1372.5	1370.9	1369.3	1367.8
175°	1372.2	1372.0	1371.8	1372.3	1373.7	1375.0	1376.4	1377.8	1376.4	1375.0	1373.7
177.5°	1375.8	1375.6	1375.4	1375.9	1377.0	1378.1	1379.2	1380.3	1379.2	1378.1	1377.0
180°	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8



TEST NUMBER: P333442-840

CATALOG NUMBER: S125DIW-S1090D1050U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1578.0	1572.1	1567.1	1556.2	1550.2	1542.1	1535.5	1542.6	1535.0	1538.2	1533.4
5°	1528.8	1509.7	1496.1	1476.3	1459.4	1443.6	1432.1	1430.0	1424.5	1421.8	1413.6
7.5°	1469.7	1445.8	1422.4	1396.4	1374.6	1352.4	1338.3	1326.6	1318.8	1308.6	1301.6
10°	1434.8	1402.7	1375.5	1344.1	1316.9	1293.0	1273.9	1264.4	1255.6	1242.5	1237.8
12.5°	1391.7	1358.6	1325.3	1291.8	1265.6	1239.0	1222.6	1208.2	1202.0	1187.5	1186.0
15°	1340.1	1290.3	1257.6	1223.5	1187.4	1165.6	1152.0	1136.2	1129.4	1119.2	1111.7
17.5°	1278.4	1234.0	1193.1	1157.8	1126.8	1108.4	1091.6	1080.8	1069.0	1062.4	1050.1
20°	1233.8	1191.4	1150.5	1113.1	1089.2	1068.0	1054.4	1044.2	1032.0	1028.5	1016.3
22.5°	1196.1	1149.4	1110.2	1078.7	1052.7	1028.9	1014.1	1007.1	998.7	988.2	985.7
25°	1134.9	1086.5	1053.1	1021.8	998.6	976.7	966.5	957.7	949.5	942.0	939.3
27.5°	1082.0	1038.7	999.1	970.8	950.6	930.7	921.7	910.9	904.9	898.9	891.5
30°	1044.9	1000.6	965.8	938.6	916.8	899.1	889.5	882.0	876.6	871.1	867.0
32.5°	1006.7	965.7	932.0	905.3	883.5	870.1	861.7	856.4	850.4	843.8	838.7
35°	956.3	911.3	878.6	855.5	838.4	828.2	818.6	813.9	807.0	807.0	801.5
37.5°	899.5	860.6	831.7	810.6	795.3	786.2	775.8	772.5	768.2	765.3	763.4
40°	865.7	829.5	802.2	781.1	764.8	757.3	749.1	743.7	740.9	737.5	736.1
42.5°	830.7	796.3	770.1	750.6	736.4	730.0	722.4	718.5	713.1	708.6	707.8
45°	777.7	744.3	720.4	704.8	692.5	685.0	680.2	672.1	669.3	663.9	663.2
47.5°	727.4	695.4	672.0	659.1	648.3	642.2	634.7	626.5	623.4	620.7	620.4
50°	689.8	660.5	638.6	626.4	616.2	607.3	599.9	594.4	592.3	592.3	593.7
52.5°	651.7	626.6	608.1	593.1	583.5	574.0	567.1	563.8	560.7	564.0	566.4
55°	595.7	570.5	556.8	542.6	533.0	522.1	518.7	517.4	515.3	520.8	523.5
57.5°	536.5	518.9	502.9	488.7	480.1	473.8	469.2	468.4	472.2	474.8	483.6
60°	499.0	478.5	464.1	453.2	443.0	439.0	437.6	436.3	439.0	446.5	458.1
62.5°	457.5	440.9	425.5	417.3	409.8	402.9	402.7	403.5	409.0	417.6	429.1
65°	396.7	382.3	372.1	362.6	356.5	352.3	353.8	356.5	362.6	374.2	387.2
67.5°	335.0	325.2	316.0	308.2	302.4	302.4	303.8	307.8	315.1	328.4	340.2
70°	295.2	284.3	276.7	273.4	268.5	265.8	269.9	276.7	282.9	295.2	305.4
72.5°	255.3	246.1	240.2	237.9	235.8	233.7	235.0	242.4	250.6	263.0	274.8
75°	196.3	192.9	188.8	186.1	184.0	185.4	186.7	193.6	200.4	213.4	227.0
77.5°	143.3	139.8	137.2	136.6	135.5	136.2	140.0	145.0	151.7	161.2	171.5
80°	108.4	107.0	105.6	104.9	104.9	105.6	111.1	114.5	120.7	129.5	137.6
82.5°	79.0	78.1	77.9	77.7	78.3	78.4	81.7	86.1	91.2	97.9	104.9
85°	41.6	40.2	42.2	42.9	41.6	43.6	44.9	47.7	49.8	53.1	56.6
87.5°	15.2	16.8	16.5	17.4	17.7	19.1	18.8	21.2	22.5	23.8	23.4
90°	8.3	10.0	11.6	13.1	14.7	16.4	17.5	18.6	19.8	20.9	21.8
92.5°	10.6	10.7	12.1	13.5	14.9	16.4	17.5	18.6	19.8	20.9	21.6
95°	55.5	50.8	42.2	33.6	24.9	16.4	17.5	18.6	19.8	20.9	21.4
97.5°	126.4	118.6	101.5	84.4	67.4	50.3	43.8	37.5	31.0	24.6	21.4
100°	173.3	174.1	175.0	175.9	176.8	177.7	143.9	110.1	76.2	42.4	25.0
102.5°	223.9	224.6	225.1	225.6	226.2	226.7	220.4	213.9	207.5	201.2	190.3
105°	303.9	304.4	304.4	304.4	304.4	304.4	304.4	304.4	304.4	304.4	304.3
107.5°	383.2	383.4	383.8	384.4	384.8	385.3	385.3	385.4	385.4	385.5	385.2
110°	437.2	437.4	437.8	438.3	438.7	439.2	438.5	437.8	437.2	436.5	436.3



TEST NUMBER: P333442-840

CATALOG NUMBER: S125DIW-S1090D1050U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	490.0	490.4	490.7	490.9	491.2	491.5	490.6	489.8	488.9	488.1	487.5
115°	568.4	569.0	569.3	569.5	569.7	569.9	569.0	568.0	567.1	566.2	565.1
117.5°	642.3	642.7	643.5	644.4	645.2	646.1	644.9	643.8	642.6	641.4	640.5
120°	690.5	690.7	691.5	692.2	692.8	693.5	693.1	692.6	692.2	691.7	690.8
122.5°	738.2	738.8	739.1	739.4	739.7	740.0	739.6	739.1	738.7	738.2	737.4
125°	808.1	808.9	808.9	808.9	808.9	808.9	808.0	807.1	806.2	805.3	804.5
127.5°	870.2	870.7	870.6	870.5	870.3	870.2	869.7	869.2	868.7	868.2	867.1
130°	909.5	910.1	910.4	910.6	910.8	911.0	910.4	909.7	909.0	908.3	907.4
132.5°	949.4	949.8	949.3	948.8	948.3	947.9	947.7	947.6	947.4	947.3	946.6
135°	1005.3	1005.8	1005.3	1004.9	1004.4	1004.0	1003.5	1003.1	1002.6	1002.2	1001.3
137.5°	1055.9	1056.3	1055.9	1055.5	1055.0	1054.6	1054.7	1054.8	1054.9	1055.0	1054.5
140°	1086.5	1086.6	1086.4	1086.1	1085.9	1085.7	1086.1	1086.6	1087.0	1087.5	1087.0
142.5°	1116.0	1116.3	1116.6	1116.9	1117.2	1117.5	1117.6	1117.7	1117.8	1117.9	1117.3
145°	1161.0	1161.2	1161.2	1161.2	1161.2	1161.2	1161.5	1161.7	1162.0	1162.2	1161.6
147.5°	1197.7	1197.8	1198.0	1198.3	1198.6	1198.8	1199.1	1199.4	1199.7	1199.9	1199.3
150°	1220.7	1220.7	1221.2	1221.6	1222.1	1222.5	1223.0	1223.5	1224.0	1224.4	1223.7
152.5°	1242.2	1242.0	1242.4	1242.9	1243.3	1243.7	1244.3	1244.7	1245.2	1245.6	1245.1
155°	1271.2	1270.8	1271.2	1271.7	1272.1	1272.6	1273.2	1273.9	1274.7	1275.4	1274.8
157.5°	1296.9	1296.6	1296.6	1296.6	1296.7	1296.7	1297.5	1298.2	1298.9	1299.6	1299.1
160°	1311.1	1310.5	1310.7	1311.0	1311.2	1311.4	1312.3	1313.2	1314.1	1315.0	1314.5
162.5°	1324.1	1323.5	1323.8	1324.0	1324.2	1324.4	1325.8	1327.1	1328.3	1329.6	1329.2
165°	1341.7	1341.1	1341.4	1341.6	1341.8	1342.0	1343.4	1344.7	1346.2	1347.5	1347.3
167.5°	1354.6	1354.0	1354.2	1354.4	1354.7	1354.9	1356.6	1358.2	1359.8	1361.5	1361.3
170°	1361.2	1360.6	1360.8	1361.0	1361.2	1361.5	1363.3	1365.1	1367.0	1368.8	1368.6
172.5°	1366.1	1365.5	1365.9	1366.3	1366.8	1367.2	1368.8	1370.5	1372.1	1373.7	1373.5
175°	1372.3	1371.8	1372.0	1372.2	1372.5	1372.7	1374.5	1376.3	1378.2	1380.0	1379.9
177.5°	1375.9	1375.4	1375.6	1375.8	1375.9	1376.1	1377.5	1378.7	1380.0	1381.3	1381.2
180°	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8



TEST NUMBER: P333442-840

CATALOG NUMBER: S125DIW-S1090D1050U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1530.0	1533.9	1530.7	1535.0	1530.7	1533.9	1530.0	1533.4	1538.2	1535.0	1542.6
5°	1410.3	1404.1	1408.2	1405.4	1408.2	1404.1	1410.3	1413.6	1421.8	1424.5	1430.0
7.5°	1299.6	1293.7	1287.0	1283.8	1287.0	1293.7	1299.6	1301.6	1308.6	1318.8	1326.6
10°	1230.3	1222.8	1222.1	1217.4	1222.1	1222.8	1230.3	1237.8	1242.5	1255.6	1264.4
12.5°	1179.6	1172.7	1164.9	1162.9	1164.9	1172.7	1179.6	1186.0	1187.5	1202.0	1208.2
15°	1107.6	1102.2	1097.4	1101.5	1097.4	1102.2	1107.6	1111.7	1119.2	1129.4	1136.2
17.5°	1047.7	1043.3	1042.5	1037.4	1042.5	1043.3	1047.7	1050.1	1062.4	1069.0	1080.8
20°	1010.2	1006.7	1008.1	999.3	1008.1	1006.7	1010.2	1016.3	1028.5	1032.0	1044.2
22.5°	980.2	973.5	972.7	970.9	972.7	973.5	980.2	985.7	988.2	998.7	1007.1
25°	933.1	929.7	926.3	929.7	926.3	929.7	933.1	939.3	942.0	949.5	957.7
27.5°	892.1	888.0	887.1	887.5	887.1	888.0	892.1	891.5	898.9	904.9	910.9
30°	867.0	860.2	860.9	860.2	860.9	860.2	867.0	867.0	871.1	876.6	882.0
32.5°	839.7	835.1	834.1	832.9	834.1	835.1	839.7	838.7	843.8	850.4	856.4
35°	799.5	799.5	796.1	796.1	796.1	799.5	799.5	801.5	807.0	807.0	813.9
37.5°	761.7	761.0	759.0	759.3	759.0	761.0	761.7	763.4	765.3	768.2	772.5
40°	733.4	732.8	730.6	726.6	730.6	732.8	733.4	736.1	737.5	740.9	743.7
42.5°	706.1	703.9	702.9	701.6	702.9	703.9	706.1	707.8	708.6	713.1	718.5
45°	663.2	663.2	661.9	661.2	661.9	663.2	663.2	663.2	663.9	669.3	672.1
47.5°	621.5	622.7	625.3	624.9	625.3	622.7	621.5	620.4	620.7	623.4	626.5
50°	596.4	597.1	599.2	599.9	599.2	597.1	596.4	593.7	592.3	592.3	594.4
52.5°	568.6	572.6	575.1	574.7	575.1	572.6	568.6	566.4	564.0	560.7	563.8
55°	529.6	534.4	539.2	539.9	539.2	534.4	529.6	523.5	520.8	515.3	517.4
57.5°	491.0	497.7	502.7	504.4	502.7	497.7	491.0	483.6	474.8	472.2	468.4
60°	464.8	473.7	479.9	482.6	479.9	473.7	464.8	458.1	446.5	439.0	436.3
62.5°	439.8	449.7	455.9	456.4	455.9	449.7	439.8	429.1	417.6	409.0	403.5
65°	398.7	409.0	414.4	418.5	414.4	409.0	398.7	387.2	374.2	362.6	356.5
67.5°	354.6	364.8	370.8	374.1	370.8	364.8	354.6	340.2	328.4	315.1	307.8
70°	322.4	332.6	340.8	343.6	340.8	332.6	322.4	305.4	295.2	282.9	276.7
72.5°	290.7	299.9	306.5	309.7	306.5	299.9	290.7	274.8	263.0	250.6	242.4
75°	235.8	248.1	254.3	257.6	254.3	248.1	235.8	227.0	213.4	200.4	193.6
77.5°	181.9	193.0	196.7	198.4	196.7	193.0	181.9	171.5	161.2	151.7	145.0
80°	145.8	152.7	157.4	158.1	157.4	152.7	145.8	137.6	129.5	120.7	114.5
82.5°	112.1	117.8	119.3	121.1	119.3	117.8	112.1	104.9	97.9	91.2	86.1
85°	61.3	64.0	64.7	64.0	64.7	64.0	61.3	56.6	53.1	49.8	47.7
87.5°	24.6	24.2	24.4	25.7	24.4	24.2	24.6	23.4	23.8	22.5	21.2
90°	22.5	23.1	23.8	24.5	23.8	23.1	22.5	21.8	20.9	19.8	18.6
92.5°	21.9	22.2	22.5	22.9	22.5	22.2	21.9	21.6	20.9	19.8	18.6
95°	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	20.9	19.8	18.6
97.5°	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	24.6	31.0	37.5
100°	24.1	23.2	22.3	21.4	22.3	23.2	24.1	25.0	42.4	76.2	110.1
102.5°	174.8	159.4	143.9	128.5	143.9	159.4	174.8	190.3	201.2	207.5	213.9
105°	304.1	303.8	303.6	303.4	303.6	303.8	304.1	304.3	304.4	304.4	304.4
107.5°	384.5	383.7	383.0	382.4	383.0	383.7	384.5	385.2	385.5	385.4	385.4
110°	436.5	436.7	436.9	437.2	436.9	436.7	436.5	436.3	436.5	437.2	437.8



TEST NUMBER: P333442-840

CATALOG NUMBER: S125DIW-S1090D1050U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	487.2	486.8	486.5	486.1	486.5	486.8	487.2	487.5	488.1	488.9	489.8
115°	563.8	562.4	561.1	559.7	561.1	562.4	563.8	565.1	566.2	567.1	568.0
117.5°	640.0	639.3	638.7	638.1	638.7	639.3	640.0	640.5	641.4	642.6	643.8
120°	689.7	688.6	687.5	686.3	687.5	688.6	689.7	690.8	691.7	692.2	692.6
122.5°	736.1	734.8	733.5	732.2	733.5	734.8	736.1	737.4	738.2	738.7	739.1
125°	803.9	803.1	802.4	801.7	802.4	803.1	803.9	804.5	805.3	806.2	807.1
127.5°	865.5	863.7	862.0	860.4	862.0	863.7	865.5	867.1	868.2	868.7	869.2
130°	906.3	905.1	904.0	902.9	904.0	905.1	906.3	907.4	908.3	909.0	909.7
132.5°	945.5	944.3	943.2	942.1	943.2	944.3	945.5	946.6	947.3	947.4	947.6
135°	999.9	998.6	997.1	995.8	997.1	998.6	999.9	1001.3	1002.2	1002.6	1003.1
137.5°	1053.3	1052.1	1051.0	1049.8	1051.0	1052.1	1053.3	1054.5	1055.0	1054.9	1054.8
140°	1085.7	1084.3	1083.0	1081.6	1083.0	1084.3	1085.7	1087.0	1087.5	1087.0	1086.6
142.5°	1115.9	1114.6	1113.2	1111.9	1113.2	1114.6	1115.9	1117.3	1117.9	1117.8	1117.7
145°	1160.2	1158.9	1157.5	1156.2	1157.5	1158.9	1160.2	1161.6	1162.2	1162.0	1161.7
147.5°	1197.6	1196.0	1194.4	1192.8	1194.4	1196.0	1197.6	1199.3	1199.9	1199.7	1199.4
150°	1221.8	1220.0	1218.2	1216.4	1218.2	1220.0	1221.8	1223.7	1224.4	1224.0	1223.5
152.5°	1243.3	1241.7	1240.1	1238.5	1240.1	1241.7	1243.3	1245.1	1245.6	1245.2	1244.7
155°	1272.9	1271.1	1269.3	1267.5	1269.3	1271.1	1272.9	1274.8	1275.4	1274.7	1273.9
157.5°	1297.3	1295.5	1293.6	1291.8	1293.6	1295.5	1297.3	1299.1	1299.6	1298.9	1298.2
160°	1312.8	1311.0	1309.2	1307.4	1309.2	1311.0	1312.8	1314.5	1315.0	1314.1	1313.2
162.5°	1327.2	1325.2	1323.2	1321.2	1323.2	1325.2	1327.2	1329.2	1329.6	1328.3	1327.1
165°	1345.4	1343.6	1341.8	1340.0	1341.8	1343.6	1345.4	1347.3	1347.5	1346.2	1344.7
167.5°	1359.2	1357.2	1355.1	1353.1	1355.1	1357.2	1359.2	1361.3	1361.5	1359.8	1358.2
170°	1366.5	1364.5	1362.5	1360.4	1362.5	1364.5	1366.5	1368.6	1368.8	1367.0	1365.1
172.5°	1371.5	1369.4	1367.4	1365.3	1367.4	1369.4	1371.5	1373.5	1373.7	1372.1	1370.5
175°	1377.8	1375.7	1373.7	1371.7	1373.7	1375.7	1377.8	1379.9	1380.0	1378.2	1376.3
177.5°	1379.7	1378.3	1376.8	1375.3	1376.8	1378.3	1379.7	1381.2	1381.3	1380.0	1378.7
180°	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1535.5	1542.1	1550.2	1556.2	1567.1	1572.1	1578.0	1583.0	1591.6	1599.8	1609.7
5°	1432.1	1443.6	1459.4	1476.3	1496.1	1509.7	1528.8	1540.4	1563.6	1584.8	1605.2
7.5°	1338.3	1352.4	1374.6	1396.4	1422.4	1445.8	1469.7	1496.1	1525.7	1560.6	1589.5
10°	1273.9	1293.0	1316.9	1344.1	1375.5	1402.7	1434.8	1463.4	1499.5	1540.4	1578.6
12.5°	1222.6	1239.0	1265.6	1291.8	1325.3	1358.6	1391.7	1429.6	1471.8	1517.0	1565.0
15°	1152.0	1165.6	1187.4	1223.5	1257.6	1290.3	1340.1	1375.5	1428.7	1479.0	1537.0
17.5°	1091.6	1108.4	1126.8	1157.8	1193.1	1234.0	1278.4	1322.8	1374.1	1438.0	1503.4
20°	1054.4	1068.0	1089.2	1113.1	1150.5	1191.4	1233.8	1278.7	1341.4	1407.5	1477.7
22.5°	1014.1	1028.9	1052.7	1078.7	1110.2	1149.4	1196.1	1245.5	1310.9	1375.9	1452.1
25°	966.5	976.7	998.6	1021.8	1053.1	1086.5	1134.9	1189.4	1254.2	1328.5	1406.1
27.5°	921.7	930.7	950.6	970.8	999.1	1038.7	1082.0	1137.1	1198.1	1273.3	1359.6
30°	889.5	899.1	916.8	938.6	965.8	1000.6	1044.9	1096.7	1162.2	1235.8	1325.8
32.5°	861.7	870.1	883.5	905.3	932.0	965.7	1006.7	1059.7	1125.1	1199.7	1288.1
35°	818.6	828.2	838.4	855.5	878.6	911.3	956.3	1006.0	1068.7	1141.0	1222.1
37.5°	775.8	786.2	795.3	810.6	831.7	860.6	899.5	951.3	1007.9	1077.6	1155.5
40°	749.1	757.3	764.8	781.1	802.2	829.5	865.7	912.0	972.0	1036.7	1101.5
42.5°	722.4	730.0	736.4	750.6	770.1	796.3	830.7	876.0	931.6	992.0	1049.1
45°	680.2	685.0	692.5	704.8	720.4	744.3	777.7	817.9	864.9	922.2	965.1
47.5°	634.7	642.2	648.3	659.1	672.0	695.4	727.4	761.6	804.3	846.9	877.1
50°	599.9	607.3	616.2	626.4	638.6	660.5	689.8	724.6	760.6	793.3	819.3
52.5°	567.1	574.0	583.5	593.1	608.1	626.6	651.7	682.6	718.1	741.5	763.2
55°	518.7	522.1	533.0	542.6	556.8	570.5	595.7	623.0	644.8	662.6	680.2
57.5°	469.2	473.8	480.1	488.7	502.9	518.9	536.5	560.7	573.5	582.6	596.4
60°	437.6	439.0	443.0	453.2	464.1	478.5	499.0	515.9	525.5	533.0	544.6
62.5°	402.7	402.9	409.8	417.3	425.5	440.9	457.5	471.3	479.2	482.8	493.9
65°	353.8	352.3	356.5	362.6	372.1	382.3	396.7	409.0	408.3	412.3	419.2
67.5°	303.8	302.4	302.4	308.2	316.0	325.2	335.0	342.0	342.1	347.6	351.0
70°	269.9	265.8	268.5	273.4	276.7	284.3	295.2	297.9	298.5	301.2	304.7
72.5°	235.0	233.7	235.8	237.9	240.2	246.1	255.3	257.0	257.1	258.7	264.3
75°	186.7	185.4	184.0	186.1	188.8	192.9	196.3	199.0	198.3	199.0	203.1
77.5°	140.0	136.2	135.5	136.6	137.2	139.8	143.3	143.0	143.7	143.5	148.1
80°	111.1	105.6	104.9	104.9	105.6	107.0	108.4	109.8	107.7	109.8	111.1
82.5°	81.7	78.4	78.3	77.7	77.9	78.1	79.0	79.8	79.4	80.3	81.1
85°	44.9	43.6	41.6	42.9	42.2	40.2	41.6	39.5	38.9	39.5	40.2
87.5°	18.8	19.1	17.7	17.4	16.5	16.8	15.2	14.3	13.4	13.6	14.9
90°	17.5	16.4	14.7	13.1	11.6	10.0	8.3	6.5	4.6	2.8	1.0
92.5°	17.5	16.4	14.9	13.5	12.1	10.7	10.6	11.9	13.2	14.4	15.8
95°	17.5	16.4	24.9	33.6	42.2	50.8	55.5	56.1	56.9	57.6	58.2
97.5°	43.8	50.3	67.4	84.4	101.5	118.6	126.4	125.2	124.0	122.8	121.6
100°	143.9	177.7	176.8	175.9	175.0	174.1	173.3	172.6	171.9	171.3	170.6
102.5°	220.4	226.7	226.2	225.6	225.1	224.6	223.9	223.0	222.2	221.3	220.5
105°	304.4	304.4	304.4	304.4	304.4	304.4	303.9	303.0	302.1	301.1	300.2
107.5°	385.3	385.3	384.8	384.4	383.8	383.4	383.2	383.2	383.2	383.2	383.2
110°	438.5	439.2	438.7	438.3	437.8	437.4	437.2	437.2	437.2	437.2	437.2



TEST NUMBER: P333442-840

CATALOG NUMBER: S125DIW-S1090D1050U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	490.6	491.5	491.2	490.9	490.7	490.4	490.0	489.4	488.9	488.4	487.8
115°	569.0	569.9	569.7	569.5	569.3	569.0	568.4	567.1	566.0	564.9	563.8
117.5°	644.9	646.1	645.2	644.4	643.5	642.7	642.3	642.3	642.4	642.4	642.5
120°	693.1	693.5	692.8	692.2	691.5	690.7	690.5	690.7	690.9	691.3	691.5
122.5°	739.6	740.0	739.7	739.4	739.1	738.8	738.2	737.3	736.5	735.6	734.8
125°	808.0	808.9	808.9	808.9	808.9	808.9	808.1	806.5	805.0	803.3	801.7
127.5°	869.7	870.2	870.3	870.5	870.6	870.7	870.2	869.1	868.0	866.9	865.7
130°	910.4	911.0	910.8	910.6	910.4	910.1	909.5	908.3	907.2	906.1	904.9
132.5°	947.7	947.9	948.3	948.8	949.3	949.8	949.4	948.1	946.7	945.4	944.1
135°	1003.5	1004.0	1004.4	1004.9	1005.3	1005.8	1005.3	1004.0	1002.6	1001.3	999.9
137.5°	1054.7	1054.6	1055.0	1055.5	1055.9	1056.3	1055.9	1054.7	1053.5	1052.4	1051.2
140°	1086.1	1085.7	1085.9	1086.1	1086.4	1086.6	1086.5	1086.0	1085.6	1085.1	1084.7
142.5°	1117.6	1117.5	1117.2	1116.9	1116.6	1116.3	1116.0	1115.7	1115.5	1115.2	1114.9
145°	1161.5	1161.2	1161.2	1161.2	1161.2	1161.2	1161.0	1160.6	1160.1	1159.7	1159.2
147.5°	1199.1	1198.8	1198.6	1198.3	1198.0	1197.8	1197.7	1197.8	1197.9	1198.0	1198.0
150°	1223.0	1222.5	1222.1	1221.6	1221.2	1220.7	1220.7	1221.2	1221.6	1222.1	1222.5
152.5°	1244.3	1243.7	1243.3	1242.9	1242.4	1242.0	1242.2	1243.2	1244.3	1245.3	1246.3
155°	1273.2	1272.6	1272.1	1271.7	1271.2	1270.8	1271.2	1272.6	1273.9	1275.4	1276.7
157.5°	1297.5	1296.7	1296.7	1296.6	1296.6	1296.6	1296.9	1297.8	1298.6	1299.4	1300.2
160°	1312.3	1311.4	1311.2	1311.0	1310.7	1310.5	1311.1	1312.4	1313.8	1315.1	1316.6
162.5°	1325.8	1324.4	1324.2	1324.0	1323.8	1323.5	1324.1	1325.5	1326.9	1328.3	1329.6
165°	1343.4	1342.0	1341.8	1341.6	1341.4	1341.1	1341.7	1343.1	1344.4	1345.8	1347.2
167.5°	1356.6	1354.9	1354.7	1354.4	1354.2	1354.0	1354.6	1356.0	1357.5	1358.9	1360.2
170°	1363.3	1361.5	1361.2	1361.0	1360.8	1360.6	1361.2	1362.8	1364.4	1366.0	1367.6
172.5°	1368.8	1367.2	1366.8	1366.3	1365.9	1365.5	1366.1	1367.8	1369.3	1370.9	1372.5
175°	1374.5	1372.7	1372.5	1372.2	1372.0	1371.8	1372.3	1373.7	1375.0	1376.4	1377.8
177.5°	1377.5	1376.1	1375.9	1375.8	1375.6	1375.4	1375.9	1377.0	1378.1	1379.2	1380.3
180°	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8



TEST NUMBER: P333442-840

CATALOG NUMBER: S125DIW-S1090D1050U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1614.6	1622.2	1627.1	1636.4	1644.1	1648.4	1652.2	1655.5	1659.3	1662.5	1671.8
5°	1625.0	1642.6	1657.7	1680.8	1702.0	1718.4	1736.1	1751.7	1764.6	1783.1	1797.4
7.5°	1620.4	1651.9	1685.0	1720.8	1757.5	1791.5	1822.9	1852.2	1878.8	1911.0	1939.1
10°	1616.1	1659.0	1701.3	1749.7	1799.5	1841.7	1881.3	1921.5	1950.8	1991.7	2026.4
12.5°	1612.9	1663.3	1714.3	1772.6	1827.2	1886.9	1939.5	1968.9	2013.5	2046.2	2087.5
15°	1599.0	1665.9	1736.1	1801.5	1879.2	1934.4	1980.7	2038.0	2079.6	2121.1	2166.2
17.5°	1574.4	1650.0	1728.6	1814.3	1888.9	1948.1	2007.9	2063.1	2112.7	2168.5	2224.5
20°	1563.0	1638.6	1728.6	1816.4	1889.5	1951.5	2012.8	2073.5	2128.0	2199.6	2264.3
22.5°	1538.9	1630.4	1713.3	1799.1	1874.1	1941.7	2011.1	2080.0	2152.5	2233.3	2314.5
25°	1496.1	1588.8	1676.8	1761.3	1836.9	1921.5	1995.8	2087.8	2180.5	2287.4	2388.3
27.5°	1451.7	1540.4	1621.0	1702.6	1790.9	1886.5	1983.0	2087.4	2208.7	2343.8	2486.1
30°	1415.7	1499.5	1577.9	1661.7	1753.7	1861.5	1967.1	2091.1	2231.6	2383.6	2552.6
32.5°	1373.7	1451.0	1527.2	1616.0	1716.2	1829.9	1953.0	2089.0	2257.8	2430.4	2604.4
35°	1301.9	1366.7	1445.0	1539.7	1652.9	1783.1	1925.5	2086.4	2280.0	2478.3	2624.8
37.5°	1216.7	1277.0	1359.6	1463.4	1582.1	1721.7	1890.8	2081.6	2287.2	2445.4	2492.6
40°	1159.4	1215.3	1301.2	1408.9	1530.2	1678.1	1863.5	2065.3	2264.3	2365.2	2326.3
42.5°	1098.3	1157.0	1240.6	1347.3	1477.8	1638.9	1829.2	2030.9	2197.8	2235.9	2101.6
45°	1002.0	1062.6	1145.1	1252.8	1393.2	1567.7	1766.1	1949.4	2045.5	1976.7	1768.8
47.5°	912.4	969.3	1045.7	1156.8	1301.7	1482.2	1673.2	1819.5	1827.1	1662.8	1440.8
50°	851.3	903.8	980.9	1092.0	1235.8	1418.5	1590.8	1706.1	1654.3	1468.1	1254.9
52.5°	791.3	842.7	918.7	1028.6	1170.8	1338.3	1498.7	1579.5	1482.0	1291.0	1108.7
55°	704.8	749.7	824.0	925.6	1060.6	1216.0	1352.3	1380.3	1253.4	1065.3	917.5
57.5°	620.3	662.3	729.8	823.3	946.7	1084.4	1191.0	1185.1	1051.1	889.6	772.2
60°	563.0	603.9	663.9	755.2	867.7	986.3	1077.6	1055.8	922.9	783.9	685.0
62.5°	511.8	548.3	605.0	684.9	787.5	897.4	972.4	940.2	810.0	688.4	610.4
65°	436.3	466.9	515.3	583.5	668.6	759.3	817.3	775.7	664.6	569.9	507.2
67.5°	364.2	388.7	429.3	483.6	556.3	629.1	664.4	622.6	533.7	464.5	418.1
70°	318.3	340.1	371.4	419.9	483.2	544.6	571.2	533.7	457.4	398.1	364.7
72.5°	272.5	290.5	318.0	361.5	412.3	465.5	488.9	453.0	390.3	340.2	309.0
75°	210.7	222.9	242.0	272.0	312.1	354.5	367.4	336.1	295.8	258.3	237.9
77.5°	150.8	161.2	175.6	194.5	223.0	249.8	261.2	243.1	212.0	188.2	171.5
80°	115.8	121.3	133.6	149.3	171.8	188.8	196.3	184.7	162.9	145.2	132.2
82.5°	82.6	88.1	95.4	108.4	122.7	134.3	142.3	134.5	118.8	104.8	97.4
85°	40.2	43.6	47.7	53.1	64.0	70.9	70.2	65.4	59.3	53.8	49.8
87.5°	14.7	15.7	17.7	20.7	22.7	25.2	26.7	25.9	24.0	22.6	21.2
90°	2.8	4.6	6.5	8.3	10.0	11.6	13.1	14.7	16.4	17.5	18.6
92.5°	14.4	13.2	11.9	10.6	10.7	12.1	13.5	14.9	16.4	17.5	18.6
95°	57.6	56.9	56.1	55.5	50.8	42.2	33.6	24.9	16.4	17.5	18.6
97.5°	122.8	124.0	125.2	126.4	118.6	101.5	84.4	67.4	50.3	43.8	37.5
100°	171.3	171.9	172.6	173.3	174.1	175.0	175.9	176.8	177.7	143.9	110.1
102.5°	221.3	222.2	223.0	223.9	224.6	225.1	225.6	226.2	226.7	220.4	213.9
105°	301.1	302.1	303.0	303.9	304.4	304.4	304.4	304.4	304.4	304.4	304.4
107.5°	383.2	383.2	383.2	383.2	383.4	383.8	384.4	384.8	385.3	385.3	385.4
110°	437.2	437.2	437.2	437.2	437.4	437.8	438.3	438.7	439.2	438.5	437.8





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	488.4	488.9	489.4	490.0	490.4	490.7	490.9	491.2	491.5	490.6	489.8
115°	564.9	566.0	567.1	568.4	569.0	569.3	569.5	569.7	569.9	569.0	568.0
117.5°	642.4	642.4	642.3	642.3	642.7	643.5	644.4	645.2	646.1	644.9	643.8
120°	691.3	690.9	690.7	690.5	690.7	691.5	692.2	692.8	693.5	693.1	692.6
122.5°	735.6	736.5	737.3	738.2	738.8	739.1	739.4	739.7	740.0	739.6	739.1
125°	803.3	805.0	806.5	808.1	808.9	808.9	808.9	808.9	808.9	808.0	807.1
127.5°	866.9	868.0	869.1	870.2	870.7	870.6	870.5	870.3	870.2	869.7	869.2
130°	906.1	907.2	908.3	909.5	910.1	910.4	910.6	910.8	911.0	910.4	909.7
132.5°	945.4	946.7	948.1	949.4	949.8	949.3	948.8	948.3	947.9	947.7	947.6
135°	1001.3	1002.6	1004.0	1005.3	1005.8	1005.3	1004.9	1004.4	1004.0	1003.5	1003.1
137.5°	1052.4	1053.5	1054.7	1055.9	1056.3	1055.9	1055.5	1055.0	1054.6	1054.7	1054.8
140°	1085.1	1085.6	1086.0	1086.5	1086.6	1086.4	1086.1	1085.9	1085.7	1086.1	1086.6
142.5°	1115.2	1115.5	1115.7	1116.0	1116.3	1116.6	1116.9	1117.2	1117.5	1117.6	1117.7
145°	1159.7	1160.1	1160.6	1161.0	1161.2	1161.2	1161.2	1161.2	1161.2	1161.5	1161.7
147.5°	1198.0	1197.9	1197.8	1197.7	1197.8	1198.0	1198.3	1198.6	1198.8	1199.1	1199.4
150°	1222.1	1221.6	1221.2	1220.7	1220.7	1221.2	1221.6	1222.1	1222.5	1223.0	1223.5
152.5°	1245.3	1244.3	1243.2	1242.2	1242.0	1242.4	1242.9	1243.3	1243.7	1244.3	1244.7
155°	1275.4	1273.9	1272.6	1271.2	1270.8	1271.2	1271.7	1272.1	1272.6	1273.2	1273.9
157.5°	1299.4	1298.6	1297.8	1296.9	1296.6	1296.6	1296.6	1296.7	1296.7	1297.5	1298.2
160°	1315.1	1313.8	1312.4	1311.1	1310.5	1310.7	1311.0	1311.2	1311.4	1312.3	1313.2
162.5°	1328.3	1326.9	1325.5	1324.1	1323.5	1323.8	1324.0	1324.2	1324.4	1325.8	1327.1
165°	1345.8	1344.4	1343.1	1341.7	1341.1	1341.4	1341.6	1341.8	1342.0	1343.4	1344.7
167.5°	1358.9	1357.5	1356.0	1354.6	1354.0	1354.2	1354.4	1354.7	1354.9	1356.6	1358.2
170°	1366.0	1364.4	1362.8	1361.2	1360.6	1360.8	1361.0	1361.2	1361.5	1363.3	1365.1
172.5°	1370.9	1369.3	1367.8	1366.1	1365.5	1365.9	1366.3	1366.8	1367.2	1368.8	1370.5
175°	1376.4	1375.0	1373.7	1372.3	1371.8	1372.0	1372.2	1372.5	1372.7	1374.5	1376.3
177.5°	1379.2	1378.1	1377.0	1375.9	1375.4	1375.6	1375.8	1375.9	1376.1	1377.5	1378.7
180°	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1679.5	1683.8	1693.1	1689.8	1694.3	1696.4	1698.6
5°	1815.1	1836.9	1846.4	1845.1	1859.5	1856.0	1852.6
7.5°	1968.3	1991.3	2004.1	2020.0	2029.3	2029.9	2038.0
10°	2055.1	2085.1	2097.3	2114.4	2125.3	2131.4	2130.7
12.5°	2121.6	2145.1	2172.5	2180.9	2195.6	2203.3	2200.5
15°	2201.6	2239.1	2267.8	2282.0	2300.5	2305.9	2313.4
17.5°	2273.0	2323.3	2356.7	2401.2	2417.9	2428.1	2422.2
20°	2327.0	2393.2	2426.5	2479.7	2509.0	2524.7	2519.2
22.5°	2390.9	2462.4	2524.2	2570.2	2614.7	2635.9	2640.3
25°	2500.1	2598.3	2689.0	2749.7	2804.8	2817.7	2846.4
27.5°	2622.3	2738.0	2835.0	2898.7	2937.2	2951.6	2960.6
30°	2699.2	2814.4	2887.3	2928.2	2940.4	2939.1	2937.7
32.5°	2736.8	2808.9	2823.0	2811.5	2783.4	2759.7	2734.9
35°	2683.5	2629.7	2549.2	2445.6	2369.2	2292.3	2284.7
37.5°	2413.5	2241.3	2107.4	1957.8	1871.6	1818.3	1781.5
40°	2159.3	1963.7	1801.5	1675.4	1587.5	1552.7	1518.6
42.5°	1883.4	1696.6	1552.9	1447.4	1381.4	1342.8	1315.8
45°	1530.2	1365.2	1252.8	1176.5	1124.0	1094.0	1076.9
47.5°	1253.8	1131.9	1036.3	981.3	945.0	921.7	921.8
50°	1105.6	989.1	925.6	882.0	850.6	832.2	835.7
52.5°	974.1	887.1	832.9	796.4	773.3	761.9	761.5
55°	814.6	751.8	716.4	689.8	674.1	661.2	663.9
57.5°	696.7	643.9	620.2	598.0	587.1	582.0	574.4
60°	623.7	582.8	562.3	544.6	533.7	529.6	522.1
62.5°	558.8	526.6	506.8	492.2	482.4	481.1	475.2
65°	469.6	445.0	427.4	420.5	410.3	407.6	407.6
67.5°	387.2	369.6	355.8	349.5	345.1	345.7	342.4
70°	335.4	321.0	312.1	305.4	301.9	302.7	299.9
72.5°	293.4	277.4	269.6	265.6	261.1	262.9	261.8
75°	222.2	214.0	210.0	205.8	203.1	201.8	200.4
77.5°	163.2	155.9	152.8	150.5	150.9	147.6	150.3
80°	126.1	120.0	118.0	114.5	113.8	113.8	113.1
82.5°	92.3	88.9	87.4	84.5	83.3	84.4	82.6
85°	47.7	44.9	44.3	44.3	42.9	41.6	44.9
87.5°	21.4	19.5	19.6	19.2	19.4	19.0	18.0
90°	19.8	20.9	21.8	22.5	23.1	23.8	24.5
92.5°	19.8	20.9	21.6	21.9	22.2	22.5	22.9
95°	19.8	20.9	21.4	21.4	21.4	21.4	21.4
97.5°	31.0	24.6	21.4	21.4	21.4	21.4	21.4
100°	76.2	42.4	25.0	24.1	23.2	22.3	21.4
102.5°	207.5	201.2	190.3	174.8	159.4	143.9	128.5
105°	304.4	304.4	304.3	304.1	303.8	303.6	303.4
107.5°	385.4	385.5	385.2	384.5	383.7	383.0	382.4
110°	437.2	436.5	436.3	436.5	436.7	436.9	437.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	488.9	488.1	487.5	487.2	486.8	486.5	486.1
115°	567.1	566.2	565.1	563.8	562.4	561.1	559.7
117.5°	642.6	641.4	640.5	640.0	639.3	638.7	638.1
120°	692.2	691.7	690.8	689.7	688.6	687.5	686.3
122.5°	738.7	738.2	737.4	736.1	734.8	733.5	732.2
125°	806.2	805.3	804.5	803.9	803.1	802.4	801.7
127.5°	868.7	868.2	867.1	865.5	863.7	862.0	860.4
130°	909.0	908.3	907.4	906.3	905.1	904.0	902.9
132.5°	947.4	947.3	946.6	945.5	944.3	943.2	942.1
135°	1002.6	1002.2	1001.3	999.9	998.6	997.1	995.8
137.5°	1054.9	1055.0	1054.5	1053.3	1052.1	1051.0	1049.8
140°	1087.0	1087.5	1087.0	1085.7	1084.3	1083.0	1081.6
142.5°	1117.8	1117.9	1117.3	1115.9	1114.6	1113.2	1111.9
145°	1162.0	1162.2	1161.6	1160.2	1158.9	1157.5	1156.2
147.5°	1199.7	1199.9	1199.3	1197.6	1196.0	1194.4	1192.8
150°	1224.0	1224.4	1223.7	1221.8	1220.0	1218.2	1216.4
152.5°	1245.2	1245.6	1245.1	1243.3	1241.7	1240.1	1238.5
155°	1274.7	1275.4	1274.8	1272.9	1271.1	1269.3	1267.5
157.5°	1298.9	1299.6	1299.1	1297.3	1295.5	1293.6	1291.8
160°	1314.1	1315.0	1314.5	1312.8	1311.0	1309.2	1307.4
162.5°	1328.3	1329.6	1329.2	1327.2	1325.2	1323.2	1321.2
165°	1346.2	1347.5	1347.3	1345.4	1343.6	1341.8	1340.0
167.5°	1359.8	1361.5	1361.3	1359.2	1357.2	1355.1	1353.1
170°	1367.0	1368.8	1368.6	1366.5	1364.5	1362.5	1360.4
172.5°	1372.1	1373.7	1373.5	1371.5	1369.4	1367.4	1365.3
175°	1378.2	1380.0	1379.9	1377.8	1375.7	1373.7	1371.7
177.5°	1380.0	1381.3	1381.2	1379.7	1378.3	1376.8	1375.3
180°	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8

(END OF REPORT)